JRC 2021 - 2022 DETAILED WORK PLAN (JPB extract as of 04 06 2021)

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.1 Climate action	20140	LANDCLIM	Land Management for Climate Neutrality	JRC.D.1	30690	AFOLU GHGI	GHG inventory monitoring and development in Agriculture and LULUCF sectors	GHG inventories are a key pillar of any climate policy. Through this Project AFOLU GHGI the JRC is responsible for the Agriculture an LULUCF sectors of the EU GHG inventory (525/2013, 529/2013, 2018/199), including QA/QC checks and writing the Agriculture and LULUCF chapters in EU National Inventory Report (NIR). Beyond this, the JRC: (i) Supports the improvements in the quality of MSs' GHG inventories (as required by e.g. 2018/841, and part of AA FORMONPOL), including through workshops with MS and the scientific community, by using monitoring tools and services based earth observation, and by contributing to the design and dissemination of the IPCC methodologies; (ii) Supports checking the compliance with reporting and accounting requirements under relevant LULUCF legislation (KP; 525/2013, 529/2013; 2018/1999; 2018/841), in the context of AA FORMONPOL; (iii) contributes to global datasets (i.e. new LULUCF module in EDGAR) and to other international scientific efforts related to estimation and verification of GHG emissions and removals, such as of VERIFY, CoCO2 and CO2 monitoring task force. This project complements existing AAs with CLIMA (task 2 and 3 of FORMONPOL lot 1) and with ESTAT (task 2 of LAFO).	JRC.D.1	CLIMA	CLIMA JRC	AGRI ENV RTD	2021-01-01	2022-12-31	CON-AA INS-RS	3006796	1	EU GHG inventory Agriculture and LULUCF	QA/QC checks, Agriculture and LULUCF chapters in EU NIR, support to MS	2021-12-31	Whole parts of policy documents	N
																	3006798	2	LULUCF inventory development and tracking compliance	Support the improvement in the quality of MSs' GHG inventories in light of the new requirements under Reg 2018/841, including through monitoring tools and services based earth observations. Linked to AA FORMONPOL LOT 1 task 2 ; Support checking compliance with reporting and accounting requirements under relevant LULUCF legislation (KP; 525/2013, 529/2013; 2018/1999; 2018/841). Part of AA FORMONPOL LOT 1 task 3	2021-12-31	Whole parts of policy documents	N
																	3006799	3	Tracking progress and compliance of LULUCF legislation	Support checking compliance with reporting and accounting requirements under relevant LULUCF legislation (KP; 525/2013, 529/2013; 2018/1999; 2018/841). Part of AA FORMONPOL	2021-12-31	Whole parts of policy documents	N
																	3006800	4	GHG emission datasets and verification activities	Implementation of new LULUCF module in EDGAR; follow up of VERIFY, CoCO2 and CO2 monitoring task force	2021-12-31	Journal contributions (Scopus)	N
1. A European Green Deal	1.1 Climate action	20140	LANDCLIM	Land Management for Climate Neutrality	JRC.D.1	30701	FORMIT	Forest mitigation contribution to climate neutrality	The EU Green Deal's vision is to reach a balance between GHG emissions and removals in mid-century, in line with the temperature objective of the Paris Agreement. This cannot be achieved without a substantial input from the forest sector, which is currently the main tool we have to remove CO2 from the atmosphere. At the same time, forest ecosystems are under increasing pressure, as a result of climate change. In this context,, this project aims to support he identification of the most promising mitigation measures to conserve and possibly enhance the current carbon sink in forests. This is difficult, because of the increasing demand of forest-related products and the risks posed by climate change to plant productivity. Addressing this challenge requires sectoral modelling associated with the capacity to assess the future climate-land feedbacks impacts on the strenght of the carbon sink.	JRC.D.1	CLIMA	JRC	(blank)	2021-01-01	2022-12-31	INS-RS	3006805	1	Modelling forest mitigation in the EU	Scientific publications in each of the tasks above, i.e. assessing forest mitigation options in the EU including forest modelling, evaluate the future climate-land feedbacks impacts on the strenght of the carbon sink, and support the Paris Agreements' Global stocktake process (including contribution to IPCC AR6)	2022-12-31	Journal contributions (Scopus)	N
1. A European Green Deal	1.1 Climate action	20140	LANDCLIM	Land Management for Climate Neutrality	JRC.D.1	30743	INTEGRATE-AFOLU	Integrate Agriculture, Forestry and Land Use Sector Modelling	This project has the overarching goal of integrating socio-economic and sustainability modelling work done at JRC. More spefically, it stems from recent work done by the JRC for the Effort Sharing Regulation (Agriculture GHG emissions) and the LULUCF regulation (Forestry/Land use emissions and removals) and should allow for a preliminary integrated analysis of climate change mitigation policies affecting both the agriculture and forestry sectors. To date the modelling work done at the JRC both for Agriculture (with the CAPRI model), Land Use modelling (with the FUSION and LUISA-BEES models), Forestry (with the CBM and GFTM models) and energy (POTENCIA model) has not been well interconnected. For instance, the work done with CAPRI within the EcAMPA project (Economic Assessment of GHG mitigation policy options for EU agriculture) does not contemplate CO2 feedback loops from the forestry sector (i.e. potential land reallocation from agriculture to forestry and vice-versa). Additionally, the interactions between agricultural and forestry raise the issue of land competition.	JRC.D.4	CLIMA	JRC	AGRI ENV	2021-01-01	2022-12-31	INS-UR	3013267	2	Final report	Test scenario application	2021-12-31	Technical Reports	N
																	3013268	1	Progress report	Progress report on the operational linkage of the models	2021-06-30	Technical systems	N

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1. A European Green Deal	1.1 Climate action	20244	Cities	Climate-Neutral Cities and Covenant of Mayors	JRC.C.2	30246	CoM	Covenant of Mayors	The EU Green Deal specifically mentions the role of cities and local authorities in reaching carbon neutrality by 2050. Cities consume a large share of energy and are responsible for a large share of GHG emissions. Cities offer a large potential for mitigation actions in buildings, mobility, local energy production. Cities is where people live and most businesses are located, therefore they provide a source of potential actions, economic resources and ideas for climate action. Cities are close to citizens and local climate actions can have several co-benefits for citizens and local business, including de-pollution. Local climate actions can improve local air quality, it can create local jobs and it can make cities more liveable. In addition, since the impact of climate change is already present, cities need to improve their resilience and adapt to climate change. The Covenant of Mayors (CoM) is a European major voluntary initiative to support the de-carbonisation of cities started in 2010 and now including targets and action plans for 2030, with some cities aiming for carbon neutrality by 2050. The CoM is also requesting cites to take action for adapting to climate change. Based on the EU experience the Covenant of Mayors has expanded first to East and South neighbouring countries, then to Sub Saharan Africa and finally to many other region of the world. Now there are over 10000 cities with more than 800 Million inhabitants taking part in the initiative. Executive VP Timmermans is Co-Chair of the Global Covenant of Mayors for Climate and Energy. In addition, the project will support the citizens' engagement in the Climate Pact initiative under the EU	JRC.C.2	ENER	ENER ENER INTPA NEAR NEAR JRC	CLIMA CNECT FPI INTPA MOVE NEAR REGIO RTD	2021-01-01	2022-12-31	CON-AA CON-AA CON-AA CON-AA CON-AA INS-RS	3014731	02	Preparation of Regional Guidebooks	The Global Covenant of Mayors (GCoM) Common Reporting Framework (CRF) allows for flexibility to adapt for different regional and local circumstances. There is a need to provide regional or country specific guidance to local authorities (LAs) on how to best apply the CRF in view of implementing local climate action plans. The JRC will prepare dedicated Guidebooks for LAs in the different regions (e.g. Latin, America, South East Asia, India, Japan, etc.) covering the three pillars of the GCoM - mitigation, adaptation and access to energy. The guidebooks will aim at assisting LAs in the development of their Climate Action Plans. The guidebooks will provide detailed technical assistance to cities for reporting in agreement with the CRF, consulting and engaging the stakeholders, setting the targets, identifying the climate actions, financing the actions and reporting on progresses.	2022-12-31	Technical Reports	N
																	3014732	01	CoM Database and Data Management	This deliverable ensures the data handling and maintenance of the CoM database in the JRC servers. The revision of the JRC CoM database will allow access to the Covenant data in a more optimized way. The new database will include new features as an updated and manageable dataset on plans evaluation status. The system will also allow archiving regularly frozen database versions of the CoM database, in which original figures remain available for comparison with later versions. The improvement of the automatic checking tool for the SECAP evaluation. The tool consists in routines of automatic checks on the qualitative and quantitative data. This task includes the update of this tool, increasing performance of the system and the management of the updated evaluation status database for the submitted plans. The system will also allow archiving regularly (twice/year) frozen database versions of the CoM database(s), in which original figures remain available for comparison with later versions.	2022-12-31	Sci information systems and databases	N
																	3014751	03	Annual Aggregation Reports	The emissions data in the baseline year and in the subsequent years (monitoring years) will allow the tracking of the city trajectory towards the emissions target in 2030. This task will aggregate the data reported by the individual cities and calculate the emission reduction in 2020 and 2021, respectively, for the CoM Europe, the CoM South and Com East cities. Based on the trajectories modelling of the emissions reduction in 2030 will be carried out. Three reports will be prepared in 2021 and in 2022. Under this task also a contribution to the GCoM annual aggregation report, covering all the GCoM regions, will be provided.	2021-12-31	Science for Policy reports	N
																	3014789	04	Training	Knowledge sharing and capacity buildings are ensured by JRC through specific trainings of high technical nature linked to JRC activities within GCoM. Depending on the needs, training are provided to city networks, local authorities representatives, territorial coordinators, but also regional/national Covenant support teams, city networks and experts (adopting a Train the Trainer approach) either directly or via webinars and e-learning facilities and platforms (e.g. EU Academy). The main subjects of the trainings are: key principles of the GCoM, GCoM pillars - Mitigation, Adaptation and Access to Energy including the assessments and monitoring; Sustainable Energy and Climate Action Plans contents, process and financial feasibility; and other topics that fall in the area of expertise of JRC Units involved in the CoM. Trainings are specifically developed and tailored to regions and they may include interactive activities with active role from participants.	2022-12-31	Training	N
																	3014790	05	CoM Policy Analysis and Assessment	The wide variety of mitigation and adaptation actions included in SECAPs and MEIs gives the opportunity to assess the process local authorities are undertaking, their progress towards the target, innovative best practices and potential common patterns that may involve indirect factors. Scientific policy outcomes comes from different perspectives. Measures are analysed through multiple lens: sectors, type of governance, cities' features (i.e. GDP, climate, population). Through the analysis of the plans, cost-effectiveness, geographical distribution and economic and social co-benefits are investigated. The bottom-up approach and the multilevel governance framed by the CoM, allow for evaluating the changes in the structure of local authorities, their approaches and role towards the target. Studies can be led on a sector basis, focusing on the most effective ones or where more efforts are dedicated (i.e. transport, awareness and citizen engagement, municipal facilities, buildings, waste).	2021-12-31	Journal contributions (Clarivate)	N

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																	3014791	06	Support to CoM East	Provision of scientific, methodological and technical support to the Covenant of Mayors initiative in six Eastern Partnership countries. Technical and methodological support ensuring a robust assessment as basis for climate action planning by participating local authorities (LAs), including review of emission factors for the calculation of urban GHG emissions; revision of the Business as Usual scenario used for target setting. Assessment of LAs' SECAPs. Tailored technical and scientific JRC assistance for participating LAs incl. -trainings for city experts on the development of SECAPs covering climate change mitigation and adaptation; -technical trainings and workshops on financial planning and access to finance; -in-depth analysis of submitted SECAPs/ monitoring reports and individual feedback resulting in improved plans and increased capacities for implementation. Scientific analysis: early assessment of the initiative, achieved CO2 emissions reductions and adaptations actions.	2021-12-31	Technical Reports	N
																	3014813	07	Support to the CoM South	Provision of scientific, methodological and technical support to the Covenant of Mayors initiative in seven Southern Partnership countries. Technical and methodological support ensuring a robust assessment as basis for climate action planning by participating local authorities (LAs), including review of emission factors for the calculation of urban GHG emissions; revision of the Business as Usual scenario used for target setting. Assessment of LAs' SECAPs. Tailored technical and scientific JRC assistance for participating LAs incl. - trainings for city experts on the development of SECAPs covering climate change mitigation and adaptation; - technical trainings and workshops on financial planning and access to finance; - in-depth analysis of submitted SECAPs/ monitoring reports and individual feedback resulting in improved plans and increased capacities for implementation. Scientific analysis: early assessment of the initiative, achieved CO2 emissions reductions and adaptations actions	2022-12-31	Technical Reports	N
																	3043803	08	Citizens and Stakeholders' Engagement in Climate Action	In order to achieve carbon neutrality and adapt to climate change, cities needs to fully engage citizens and other local stakeholders, e.g. local businesses, to undertake climate actions. Many cities participating in the CoM initiative have undertaken actions in this regards, from providing taylor-made information about climate change, to hosting public debates and resolutions, to adopting policies to change behaviour (for example cycling), planting trees, reducing and recycling waste, etc.. Under this deliverable, a thorough analysis of the related actions undertaken by cities will be carried out and recommendations for more effective citizens' engagement, including local policies and governance, will be produced.	2022-02-28	Science for Policy reports	N
																	3098651	09	Support to the establishment of the Corporate Covenant	Analysis of current existing national and corporate voluntary initiatives for the decarbonisation of industry. Recommendations for the establishment of an EU Corporate Covenant	2021-10-30	Science for Policy reports	N
																	3107708	11	Support to the CoM Sub Saharan Africa (CoM SSA)	Provision of scientific, methodological and technical support to the Covenant of Mayors initiative in Sub Saharan Africa countries. Technical and methodological support ensuring a robust assessment as basis for climate action planning by participating local authorities (LAs), including review of emission factors for the calculation of urban GHG emissions; revision of the Business as Usual scenario used for target setting. Assessment of LAs' SECAPs. Tailored technical and scientific JRC assistance for participating LAs incl. - trainings for city experts on the development of SECAPs covering climate change mitigation and adaptation; - technical trainings and workshops ; in-depth analysis of submitted SECAPs/ monitoring reports and individual feedback resulting in improved plans and increased capacities for implementation. Scientific analysis: early assessment of the initiative, achieved CO2 emissions reductions and adaptations actions	2021-12-24	Technical Reports	N

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1. A European Green Deal	1.1 Climate action	20244	Cities	Climate-Neutral Cities and Covenant of Mayors	JRC.C.2	30247	Self-Cities	Climate neutral smart cities transition	Cities will be major players for climate/energy action in the EU and globally. To achieve Europe's ambition to reduce GHG emissions by 55% by 2030, an accelerated deployment of energy efficiency measures, electrification, more renewables and new concepts of mobility are needed. While the transition towards cleaner, carbon-neutral cities is feasible, the process will have huge implications on both the economy and society, thus requiring a holistic approach that includes technical, economic, social and behavioural as well as regulatory aspects in order to ensure effective policies. The project will analyse the implications of climate neutrality ambitions for cities, especially in view of digital and integrated solutions as enablers for the necessary transition towards climate neutrality. In this context, the project will identify best practices and guidance to overcome the new challenge, in light of the recent and possible new crisis, to effectively implement the COVID 19 recovery package. This will include activities on the evaluation and development of transition scenarios, the necessary electrification and integration of energy vectors at the local level and their techno economic and societal assessment. The analysis of impacts of climate change on the future energy demand of cities, the related social impact and their resilience are of additional concern. This project will seek synergies and collaboration with the project Covenant of Mayors, with the Energy Efficiency and building renovation project, with the Heating and cooling market and with the portfolio "Dynamic urban observatory on the future of cities and urban strategies" included in the Priority "A Europe that	JRC.C.2	ENER	RTD JRC	ENER	2021-01-01	2022-12-31	CON-IA INS-RS	3011023	Del2	Development and first application of a cost-optimal calculation methodology focused on a district level.	In the framework of EPBD Directive, this method has already been applied twice at building level by Member States to verify and review their own energy requirements. However, an increase in scale would allow studying an integrated approach encompassing electrification, digitalisation of processes and the extension of optimisation process to be applied to other sectors of the local energy balance, such as the public lighting system, local mobility and interconnections between services. This strategy would also allow to examine options to centralise the production of renewable energy, for example shading areas such as parking lots where PVs can be easily installed without additional land demand. The implementation of demand-response strategies (possible collaboration with C.3), as well as cogeneration or high efficiency steam-gas cycles (mainly using energy from waste) and district heating/cooling (possible collaboration with C.7) could also be part of the energy transition.	2022-12-31	Science for Policy reports	N
																	3011024	Del1	A novel comprehensive evaluation of the building role to target carbon-neutral cities	To achieve the updated EU target of cutting GHG emissions by 55% by 2030, buildings are required to make an additional contribution. This includes the need to adapt the concept of Nearly Zero-Energy Buildings (NZEBs), established in the Energy Performance of Building Directive recast, to face emerging issues. Starting from previous research, this deliverable will adopt a holistic approach to provide new insights in terms of energy efficiency, renewables, cost-optimality, resiliency, health and safety. The research will consider the contribution of smart integrated technological solutions, which are also able to provide a smart working environment and a new mobility concept combined with electrification. The household role will be centred to improve awareness and user behaviour, avoiding the gap between estimated and real energy savings. Additionally, the deliverable will identify best practices and guidance to overcome the new challenge, in light of the recent and possible new crisis.	2021-12-31	Journal contributions (Clarivate)	N
																	3011180	Del3	Analysis of the impact of a pandemic crisis on energy behaviours and opinions of European citizens	We are witnessing a unique moment in recent human history: soon almost all citizens of the world could have changed their behaviours, reducing to a minimum their movements and spending almost all of their time at home. Of course, this has an impact on the energy consumption, but the only sector expected to increase its demand for energy is the residential one. Since this situation is inevitably affecting and changing our lifestyle, it would be interesting to observe how the phenomenon is being perceived by citizens, what impact their behaviour is having on climate change and how their interest in the latter is shifting. Starting from here, we will finalise a questionnaire that can be a valid tool to identify the current trend with the direct involvement of the citizens. The data collected can be used to simulate changes in the energy demand of the residential building stock. A workshop analysing the results will be organised in order to consolidate new guidelines for smart cities.	2022-12-31	Science for Policy reports	N
																	3011181	Del4	Citizen engagement for climate neutral cities	Globally the population in urban areas is expected to rise from 54% in 2015 to 66% by 2050, while in Europe the share is already around 80% with a clear trend of ageing demographics and social segregation. This makes cities a priority for provision of liveable places for their inhabitants. However, there are concerns about developing public engagement and support in the process of making cities climate neutral, for instance in how they address energy needs in a system based largely on renewables. These concerns are paramount when considering the most vulnerable social categories, who may lack information, power and means to be protagonists, as well as coping with social and economic stress. The project will identify best practices across Europe and provide guidelines on how to design interventions that can enhance citizen engagement in the urban decarbonization process.	2021-12-31	Science for Policy reports	N
																	3011343	Del5	Development of a practical case study within the Ispra site on Building Integrated PV (BIPV) systems.	BIPV technology provides an innovative solution to integrate solar electricity generation throughout the building envelope, roof tiles, façade or windows, unlocking new available surfaces and increasing the potential for PV power generation in buildings. BIPV can become a flagship for EU industry supporting the objectives of a European Green Deal to accelerate the decarbonisation of the EU building stock. On 30 January 2020, the JRC Unit C2 organised a brainstorming workshop on the challenges BIPV faces. Taking into account the results of this workshop, we propose a practical case study at the Ispra site to plan the installation of BIPV systems on a building programmed to be refurbished or on a new building.A detailed technical and cost benefit analysis will be provided thus clarifying the prospects for BIPV to optimise also thermal performance and addressing maintenance and safety issues.This case study will be beneficial in identifying existing barriers preventing BIPV market growth	2022-06-30	Science for Policy reports	N

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																	3011344	Del6	Emerging technologies and new concepts on the sustainable built environment - Skills and Learning.	The built environment needs individuals and organisations with relevant sustainability skills, knowledge, capacity, values and motivation to respond to the city decarbonisation targets. The integration of sustainability literacy into built environment programmes at all levels of higher education must be strongly encouraged. This deliverable aims at providing concrete support to local and national authorities and universities in developing adequate programmes to facilitate key phases of the built environment life cycle, in accordance to emerging trends and future needs, technology deployment and innovation requirement, circularity and resource efficiency. As part of the JRC Academy initiatives, we will organise workshops and training packages for city decarbonisation and promote partnership, in particular between employers and education providers as to foster new ways of looking at the skills and competences of architects, engineers and technicians.	2022-06-30	Training	N
																	3011345	Del7	Development of risk indicators having an impact on the Indoor Environmental Quality (IEQ) conditions and energy consumptions of buildings; generation of European maps.	During our recent activities on IEQ, we realised that the measurements available are not enough to generate consistent statistics. To overcome this lack of information, we propose to change the way we deal with the problem, and label the potential IEQ in buildings located in a certain area in relation to contextual factors (as climate, exposure to pollutant sources) and statistics about the characteristics and age of buildings' systems. This approach would provide an indication of European areas where the risk of poor level of IEQ is higher, and of the number/type of buildings which would need renovation to tackle this issue. The objective is to create a new frame of priorities to meet the needs of refurbishing activities to counteract both poor energy efficiency and IEQ conditions. All these changes will also have a relevant effect on the policy scenario, which should be reconciled with our environmental targets and support the adaptability of the Built Environment.	2022-12-31	Science for Policy reports	N
																	3011346	Del8	Final report	The report will present a synthesis of the main findings of the whole project. It will combine the results of the assessments of each deliverable, investigating the potential use of innovative technology and measures to provide carbon neutral solutions to cities. The project will support the development of exemplary smart cities to become carbon neutral, identify indicators to track progress and provide lessons learnt. The report will identify holistic solutions for energy neutral buildings or city quarters and carbon neutral mobility, based on local renewable energy sources and advanced ICT and electric infrastructures. Particular attention will be paid to increase citizens awareness, participation and engagement in view of the challenging targets and to avoid social exclusion and inequalities in the city transition. Suggestions for training activities for designers, architects, engineers and technicians will be defined based on the lessons learnt during the training activities.	2022-12-31	Science for Policy reports	N
																	3022528	del9	Collective Action Models for Energy Transition and Social Innovation (COMETS)	COMETS is a H2020 project developed and implemented in collaboration with EU partners coordinated by the University of Turin. The overall objective is to investigate Collective Action Initiatives (CAIs) as one of the main drivers of Social Innovation (SI) in the energy sector. Specific project objectives are: a) the generation and dissemination of new knowledge about technical, institutional, economic, social and cultural factors and their interaction that may facilitate or hinder CAIs activities; b) the provision of tools and recommendations for improving the start-up, steering, and upscaling of CAI initiatives. The JRC is involved in: contribution to a working definition of CAIs; contribution to the definition of a survey to get information on collective action initiatives; contribution to the development of an engagement strategy and to the training of COMETS project partners on citizen engagement (Unit H1); contribution to the development of supporting platform for CAIs.	2022-04-30	Technical Reports	N
																	3050065	Del10	Smart Cities: a European Perspective.	The foreseen consequences of the Covid-19 outbreak have underlined the importance of the twin green deal and digital transition. A decisive recovery action plan is under preparation to counter the negative effects of the crisis and to support the economic rebound; smart cities and communities are seen as an effective recovery tool to support the most affected regions. In this context, and in view of supporting the upcoming recovery action plan, we propose a report on smart cities encompassing: - state of the art (literature review, examples of best practices, leading examples) - existing technologies/methodologies to help cities become carbon neutral (RES integration, demand response, FIWARE,) - digital energy services between the grid (physical infrastructure, smart grids), the market (business models, mobilization of investments, incentives mechanisms ESCOs) and the energy communities (local generation, local markets, microgrids). -- foresight (look at future trends).	2021-12-31	Science for Policy reports	N

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1. A European Green Deal	1.1 Climate action	20254	Economics of Climate	Economics of Climate Neutrality	JRC.C.6	30294	EU Energy Scenarios	EU Energy Scenarios	The European Green Deal's priority to increase the 2030 climate ambition in line with the 2050 climate neutrality objective sets the scene for the follow-up revision of legislative acts of the EU energy and climate framework where necessary, but also for the begin of the updates of the National Energy and Climate Plans in 2023. This requires analyses of the impact of related policy options on the evolution of the energy system until 2050 at EU and Member State level, carried out in consistent manner at a high level of detail that matches the scope of the policies under review. This project provides such model-based analytical evidence to DGs CLIMA, ENER and MOVE, continuing and enhancing the long-standing collaborations with these DGs. The maintenance and further enhancement of the POTEnCIA model and of the JRC-IDEES database, accompanied by a structured exchange with Member States and policy DGs, are crucial in fulfilling these objectives.	JRC.C.6	ENER	CLIMA ENER JRC	CLIMA	2021-01-01	2025-12-31	CON-AA CON-AA INS-RS	3024449	12022	Long term EU energy decarbonisation pathways	Science for Policy or Technical Report describing long-term EU decarbonisation pathways that differ in the degree and implementation of sector coupling. These scenarios exploit the model enhancements introduced in 2021 as concerns the representation of deepened sector coupling, including a detailed description of the potentials in industry and transport.	2022-12-31	Science for Policy reports	N
1. A European Green Deal	1.1 Climate action	20254	Economics of Climate	Economics of Climate Neutrality	JRC.C.6	30295	GES	Global Energy Scenarios	The European Green Deal intends to bring the EU on track towards climate neutrality by 2050. This domestic objective exists in the context of international treaties in the field of climate change where the EU participates, such as the Paris Agrement of the UN Framework Contract for Climate Change (UNFCCC). The "Clean Planet for All" COM (2018)773 recognized the need for climate action domestically and globally and proposed a long-term strategic vision for a prosperous, modern, competitive and climate neutral economy; the EU included its objective of climate neutrality in its submission to UNFCCC in 2020. In addition, the EU is an active player in the effort to increase the ambition of climate change mitigation and adaptation plans in countries around the world. This project proposes to mobilize quantitative modelling tools to analyse the transformation of the world's energy system to meet these engagements, and the EU's place in that transformation. More specifically, this project will create projections of the energy system, as well as other climate and sustainability metrics, at the regional and world levels using the global energy model POLES-JRC. This project is the continuation of a long-existing relationship with DG CLIMA, which has resulted in contributions to analyses and impact assessments of climate mitigation scenarios, such as the 2050 Low Carbon Economy Roadmap in 2011.	JRC.C.6	CLIMA	CLIMA JRC	EEAS ENER	2021-01-01	2025-12-31	CON-AA INS-RS	3007275	990859	Final report to DG CLIMA	Final report corresponding to the AA CLIMA 2020 . There will be policy relevant output related to that contract. These outputs, however, cannot be planned in advance. It is expected that there will be relevant publication and policy documents produced . The deliverable could take the form of the regular Science for Policy report "Global Energy and Climate Outlook".	2021-12-31	Science for Policy reports	N
																	3085547	D1	Report for CLIMA	Final report corresponding to the AA CLIMA 2020 . Potentially there will be policy relevant output related to that contract. These outputs, however, cannot be planned in advance. It is expected that there will be relevant publication and policy documents produced .	2022-12-31	Science for Policy reports	N
1. A European Green Deal	1.1 Climate action	20254	Economics of Climate	Economics of Climate Neutrality	JRC.C.6	30296	EAMP	Economic Analyses of Mitigation Policies	The European Green Deal intends to bring the EU on track towards climate neutrality by 2050 and increase the short term (2030) ambition of climate action. Getting the EU on a pathway that is compatible with these targets will mean transformative changes to the European economy. This will result in important macroeconomic implications both at the aggregate economy-wide level as well as effects on particular sectors, especially energy intensive and trade exposed sectors. The emphasis in this project is the analysis of the mitigation policy scenarios, using the multi-sectoral JRC-GEM-E3 model. The model will be applied to analyse economic effects onto the overall economic structure (both at EU and global levels) of climate-protecting policy measures (mitigation climate policy). The long-term working relationship with DG CLIMA has materialised in a substantial number of contributions to impact assessments and analysis addressing global and EU-wide economic impact of climate mitigation scenarios. Recently, the output of JRC-GEM-E3 modelling has informed the long-term strategy of the EU to assess the economic implications of moving towards a climate neutral planet. For this project, it is anticipated that JRC-GEM-E3 analysis can assist the specific revisions of or additions to the EU climate and energy framework to deliver on the increased climate ambition, e.g. in the context of carbon border adjustment measures or the revision of the energy taxation directive. This project contributes to the "Economics of Climate"	JRC.C.6	CLIMA	GROW JRC	TAXUD	2021-01-01	2025-12-31	CON-AA INS-RS	3007670	'rogress202	Progress report	Technical report describing the advances in the modelling as well as maintenance and data work carried out in order to enhance the analytical capability of the unit, mainly related to mitigation climate policy and air quality. This 'container deliverable' also includes the contribution to the relevant Commission impact assessments and the related scientific publications.	2022-12-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.1 Climate action	20254	Economics of Climate	Economics of Climate Neutrality	JRC.C.6	30298	Transport GHG	Transport sector contribution to greenhouse gas emissions (demand and multimodal networks effects)	The European Green Deal (COM(2019) 640 final) defines a roadmap with policies and measures to make the EU climate neutral by 2050. This roadmap is underlined as a priority and major component of the Commission's annual Work Programme for 2020, where it is defined as the blueprint for a new growth strategy for the EU. To ensure that the EU is on a pathway that is consistent with the long-term goal of net-zero greenhouse gas emissions by 2050, and with the new (and more ambitious) intermediate emission reduction targets that the European Green Deal set for 2030, significant changes to the structure and operation of the EU economy are required. Transport is a major contributor to EU's greenhouse gas emissions, second only to energy, with road transport alone being responsible for a fifth of EU emissions. The transport sector is therefore of particular importance in the EU's efforts towards the goal of a low carbon economy. The work proposed in the project refers to the improvement of the representation of features specific to the modelling of the transport sector (as carried out in the JRC T-NET modelling platform) and their incorporation into two of the JRC tools that are employed in the impact assessment of long-term EU energy and climate scenarios (POTEnCIA and JRC-GEM-E3). The project contributes to the "Economics of Climate" portfolio by means of providing a modelling framework that considers a higher spatial resolution than what is required by other tools in the portfolio, and so that these tools are able to incorporate effects that emerge from the direct analysis of transport networks. The work in the project will build upon the results and new	JRC.C.6	MOVE	JRC	CLIMA REGIO	2021-01-01	2025-12-31	INS-RS	3023047	003	Final report describing benefits derived from the integration of T-NET with POTEnCIA and JRC-GEM-E3 and their application to selected scenarios	This deliverable is planned as a Science-for-Policy report and is to elaborate on the application of the methodology developed as part of the project and how it applies to a number of selected scenarios. The scenarios will be defined in coordination with the work of other projects of the same portfolio and will emphasise the improvement attained by means being able to incorporate the analysis of transport networks (and the associated higher spatial resolution of network effects) directly into the operation of POTEnCIA and JRC-GEM-E3. The final report will be supplemented as needed by the relevant separate JRC Technical Reports providing further detail on the methodological improvements carried out during the second year of the project (i.e. 2022).	2022-12-31	Science for Policy reports	N
																	3023048	002	Contribution to peer-reviewed journal	The methodology proposed as part of the project to increase the spatial resolution of the way that transport network effects are incorporated in the estimation of transport activity and transport costs by POTEnCIA and JRC-GEM-E3, along with the data work to maintain the highly-detailed transport networks employed in the analysis with T-NET, constitute suitable material for scientific publication in a related journal. A potential application that may be considered for publication is the proposed coupling of aviation network modelling (including scenario-specific capacity restraints in airports and routes) with the estimation of macroeconomic impacts associated with aviation policies (e.g. effects on services trade) as measured by JRC-GEM-E3. This external peer review should facilitate the completion of the project taking into consideration relevant external expertise.	2022-03-31	Journal contributions (Clarivate)	N
																	3023049	001	Progress report	This deliverable is to describe the main results obtained and enhancements incorporated into the tools and methodologies as carried out during the first year of the project (i.e. 2021). The deliverable is conceived as a progress report with a technical part describing the development of algorithms and architecture additions to the T-NET modelling platform required for the interaction with the POTEnCIA and the JRC-GEM-E3 modelling tools to incorporate into them network-based description of transport effects and a spatial distribution of them.	2021-12-31	Technical Reports	N
1. A European Green Deal	1.1 Climate action	20254	Economics of Climate	Economics of Climate Neutrality	JRC.C.6	30299	BeyondCo2	Overarching link to non-energy and non-CO2 GHG sources	The Green Deal sets out the ambition to reach net zero greenhouse gas emissions by 2050. The term "net zero" suggests that some sectors may still be emitting greenhouse gases in 2050. These emissions then have to be offset by negative emissions in other sectors. In this discussion, land use and agriculture play a significant role, as they can act as a carbon sink that absorbs CO2 from the atmosphere. Therefore, the scope of climate policy (assessments) cannot be limited to the energy sector alone. The climate neutrality target is specified in terms of "greenhouse gas emissions". This is a group of pollutants that extend beyond carbon dioxide alone. To provide a holistic assessment of climate policy, all greenhouse gases need to be covered. The upcoming revision of the policies on fluorinated gases are one illustration of the relevance in the Green Deal cycle. Methane is another important gas, as it contributes to climate change and worldwide air pollution simultaneously.	JRC.C.6	CLIMA	JRC	ENV	2021-01-01	2025-12-31	INS-RS	3010021	2020	BeyondCO2020 Progress Report	This deliverable has two parts: one technical description of model enhancements, and one describing how this benefits ongoing and forthcoming policy initiatives.	2021-12-31	Science for Policy reports	N
1. A European Green Deal	1.1 Climate action	20254	Economics of Climate	Economics of Climate Neutrality	JRC.C.6	31180	SIACES	Sectoral Integration Assessment of Complex Energy Systems	The Sectoral Integration Assessment of Complex Energy Systems project contributes to the Exploratory Research (ER) Programme. The main goal of the ER project SIACES is to contribute to a new perspective into decision making for complex energy systems, focusing on the key energy technologies enabling sectoral integration. The project will conduct intensive numerical exploratory experiments to contribute to better policy designs for energy and climate.	JRC.C.6	CLIMA	JRC	ENER	2021-03-01	2023-02-28	INS-ER	3073467	Final	Final report SIACES	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project.	2022-12-31	Technical Reports	N

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1. A European Green Deal	1.1 Climate action	20256	CL-EN Diplomacy	Climate and Energy Diplomacy	JRC.C.6	30286	VerifyGHG	Verifying the progress towards (EU and global) Climate ambition	The VerifyGHG project supports the implementation of Green Deal climate actions and of the Paris Agreement transparency framework. The “Increasing the EU’s Climate ambition for 2030 and 2050” in the European Green Deal shall be effectively implemented regardless of the new global context, which requires sustainable economic recovery planning. Further, the United Nations Framework Convention on Climate Change (UNFCCC) Paris Agreement, through the framework for transparency of actions, asks for tracking of progress towards achieving Parties’ individual nationally determined contributions (NDC). The effectiveness of Greenhouse Gas (GHG) emissions reduction policies is primarily evaluated through GHGs national inventories that are compiled and reported by each country to UNFCCC following IPCC guidelines. Verification of these official GHG inventories by using independent estimates based on bottom-up and top-down approaches leads to improvements and builds confidence in emissions estimates and trends. In VerifyGHG project, we develop advanced tools to provide an independent evaluation to measure the achievements related to GHG emissions mitigation by evaluating the reliability of these emissions inventories aiming at making operational the methodology for emission verification. The VerifyGHG contributes to the drafting of a blueprint for an EU GHG monitoring system. It aims to improve the ability to monitor and verify GHG emissions under an international climate agreement by significantly decreasing current uncertainties associated with greenhouse gas emission estimates. The final goal is to	JRC.C.5	CLIMA	(blank)	ENER GROW RTD	2021-01-01	2022-12-31	CON-IA INS-RS	3014973	202102	Prototype of an international GHG monitoring and verification system (VERIFY H2020)	1) Bottom-up GHG fluxes: third CH4 and N2O fluxes from anthropogenic sources from bottom-up models (VERFIY D4.3). 2) Knowledge transfer workshop with US, China, Indonesia (VERIFY D6.6). 3) Workshop illustrating the GHG verification internationally based on example outside Europe (VERIFY D6.7). 4) Online update of national emission inventory and observation-based GHG budget trends and NDC mitigation targets (VERIFY D6.12).	2021-11-30	Validated methods, reference methods and measurements	N
																	3014974	202201	GHG continuous measurements at ICOS monitoring stations and improving their scientific exploitation	1) Datasets of in-situ GHG concentrations and meteorological observations performed at the ICOS class-2 Atmospheric Station of the EC Atmospheric Observatory in Ispra in compliance with ICOS requirements. 2) Datasets of 2021 GHG fluxes, meteorological and biological ancillary measurements at the ICOS class-2 Ecosystem Station in San Rossore in compliance with ICOS requirements. 3) Improving the scientific exploitation and access of the San Rossore Ecosystem Observatory through the implementation of collaboration agreements with Pisa Research Ecosystem and Parco Regionale Migliarino, San Rossore, Massaciuccoli. 4) EDGAR CO2 datasets on the JRC data portal with full meta-data files as documentation and links to EDGAR website with full description.	2022-11-30	Sci information systems and databases	N
																	3014975	202202	Emissions verification through high-resolution inverse modelling and independent datasets for monitoring GHGs	1) Methodology development and first application of high-resolution inverse modelling system (coupled TM5-4DVAR FLEXPART system). 2) Analysis of inter-annual variability of CH4 fluxes derived from global CH4 inversions and their correlation with climate parameters. 3) A European scale synthesis focusing on Evergreen Conifer forests and climate change based on long-term ecosystem observations at continental scale. 4) Analysis of effect of climate policies and climate variability on regional / national / European GHG emissions.	2022-11-30	Journal contributions (Clarivate)	N
																	3014976	202203	CO2 measurement in urban environment: testing of low-cost sensors	The performances of different commercial low-cost CO2 sensors are evaluated against reference instrumentation; sensor tests are carried out at the ICOS class-2 atmospheric station of the EC Atmospheric Observatory in Ispra where reference instrumentation for CO2 is deployed. Technical documentation on results will be provided in support to more reliable emissions measurements in the network of urban in-situ CO2 observations based on commercial low-cost sensors.	2022-11-30	Technical Reports	N
																	3014977	202101	Measurements of GHG concentrations & fluxes at Integrated Carbon Observatory System (ICOS) sites, and independent global emissions inventories	1) Datasets of in-situ GHG concentrations and meteorological observations performed at the ICOS class-2 Atmospheric Station of the EC Atmospheric Observatory in Ispra in compliance with ICOS requirements. 2) Datasets of 2020 GHG fluxes, meteorological and biological ancillary measurements at the ICOS class-2 Ecosystem Station in San Rossore in compliance with ICOS requirements. 3) Analysis of two decades of observations (GHG fluxes) in San Rossore. 4) EDGAR GHG datasets on the JRC data portal with full meta-data files as documentation and links to EDGAR website with full description.	2021-11-30	Sci information systems and databases	N

JRC 2021 - 2022 DETAILED WORK PLAN (JPB extract as of 04 06 2021)

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1. A European Green Deal	1.1 Climate action	20256	CL-EN Diplomacy	Climate and Energy Diplomacy	JRC.C.6	30292	DETECT	Detecting unexpected and emerging signals from emissions and technologies	This project is developed in support of the European Green Deal priorities and a stronger Europe in the world strategy. It will provide i) the assessment of EU and global GHG emissions and removals with GHG trends analysis for emerging key global climate players and sectors (including Land Use, Land Use Change and Forestry), ii) the preparation of the 2023 stock-take under the Paris Agreement by estimating GHG emissions for all countries, fostering the dialogue and help towards non-EU countries to enhance the global climate ambition, iii) climate and energy scenario analyses for the 2030 and 2050 targets to assist in the assessment of regional and global projections of GHG emissions in the context of the Paris Agreement objectives of limiting temperature change increase to well below 2°C. The Emissions Database for Global Atmospheric Research (EDGAR) provides national emissions, for all world countries, since many years and has become a reliable partner of DG CLIMA thanks to its independence and global consistency in computing greenhouse gas (GHG) emission estimates. Expertise built up by EDGAR supports the actions of DG CLIMA i) in climate negotiations by providing an independent tool for monitoring Nationally Determined Contributions (NDCs) and climate commitments; ii) analysing GHG trends for emerging key global climate players (China, India, Brazil, etc.) and sectors (e.g. fossil fuel combustion, land use and forestry, agriculture, etc.) assessing the progress towards achieving long-terms goals; iii) engaging with international partners, including G20 countries (e.g. China, India, Japan, etc.) to increase the collective effort under the Paris Agreement	JRC.C.5	CLIMA	JRC	AGRI EEAS ENER INTPA RTD	2021-01-01	2025-12-31	INS-RS	3001410	022022	CO2 emissions for all world countries - EDGAR booklet 2022 including LULUCF	CO2 emissions for all world countries – 2022 EDGAR booklet. The novelty of this booklet is the inclusion of the LULUCF emissions representing a unique tool to understand emission trends and reduction strategies not only of anthropogenic emissions but also of the LULUCF component. This work will be a co-production between the JRC, the Environmental Agency of the Netherlands (PBL) and the International Energy Agency (IEA).	2022-11-30	Science for Policy reports	N
																	3001411	032022	Impact of LULUCF emissions on climate using the San Rossore ecosystem observatory	Evaluation of the impacts of LULUCF emissions on climate through the development ofa verification method based on GHG measurement fluxes performed at the San Rossore Ecosystem tower.	2022-11-30	Journal contributions (Clarivate)	N
																	3001412	012021	Fossil CO2 and GHG emissions for all world countries – 2021 EDGAR booklet	EDGAR will analyse GHG emission trends for emerging key global climate players and sectors through the development of fossil CO2 and GHG emissions for world countries extending the GHG emission time series until most recent years. This work will be a co-production between the JRC, the Environmental Agency of the Netherlands (PBL) and the International Energy Agency (IEA).	2021-11-30	Science for Policy reports	N
																	3001413	012022	Development of the EDGAR-POLES platform	Development of a platform presenting harmonised historic and future GHG emissions coupling the Emissions Database for Global Atmospheric Research (EDGAR) with the POLES model. This platform will sustain the analysis of emission trends and future scenarios to identify unexpected and emerging signals in emissions and technologies.	2022-11-30	Technical systems	N
																	3008520	022021	Development of a globally consistent emission inventory including Land Use, Land Use Change and Forestry	1) Development of the EDGAR-LULUCF dataset and analysis of the LULUCF emissions at the global level, 2) Comparison of LULUCF emission with FLUXNET emission fluxes at EU scale.	2021-11-30	Journal contributions (Clarivate)	N
1. A European Green Deal	1.1 Climate action	20256	CL-EN Diplomacy	Climate and Energy Diplomacy	JRC.C.6	30308	PowerBeyond	Power System Development Beyond Europe	The Global Perspective of the Green Deal and the External Dimension of the Energy Union call for pertinent and coherent climate and energy diplomacy initiatives, which are incorporated in the EU Climate and Energy Diplomacy Action Plans. These initiatives focus on third countries and regions where the EU can take up global leadership, e.g. by promoting the use of renewable energy and supporting regional energy cooperation. Pursued goals encompass reduction of greenhouse gas emissions, decreased air pollution, enhanced security of energy supply and emerging energy markets, with better prices for producers and consumers, reducing energy poverty. The power systems of the targeted third countries will play a crucial role in the envisaged green transitions. This will involve developments towards sustainable generation assets, as well as efficient interconnections. Enhanced connectivity towards Europe will offer opportunities for the EU to enhance its security of energy supply and achieve its renewable energy targets. Against this background, important investments will be required, in which the EU can play a prominent role, i.e. through its own financing instruments and by fostering private investments. To be effective, the underlying external energy and climate policies must be underpinned with solid data. In the given context, the JRC (Unit C.3) has the unique capacity to support the involved policy DGs - including the EEAS - with independent and verified information on emerging power system development beyond the EU. This information covers a large variety of areas:	JRC.C.3	ENER	JRC	EEAS	2021-01-01	2025-12-31	INS-RS	3006717	202201	Effective Electricity Transmission in North Africa – Enabling the Regional Energy Transition	The report will highlight the crucial role of prospective electricity interconnections in the context of a North African energy transition, with enhanced energy security and decreased energy poverty as key objectives. Future options for efficient electricity generation from solar and wind energy will be addressed. Optimal routes for emerging transmission and distribution lines will be assessed. Coupled electricity markets arising from the proposed interconnections will be modelled. The EU power system will be included in the applied techno-economic models. Attention will be paid to the potentially leading role of the EU in the envisaged energy transition, i.e. in terms of promoting regional energy cooperation and fostering investments in sustainable power system assets.	2022-12-31	Science for Policy reports	N
																	3007282	202102	Enhanced Electricity Trade between Tajikistan and Uzbekistan - Fostering Cross-Border Energy and Climate Collaboration	The report will discuss the remarkable geopolitical relationship (past and present) between both countries, especially from the energy-water nexus perspective. Recent energy policies in Tajikistan and Uzbekistan will be treated, with emphasis on developments in the field of renewable energy. In this context, their full potential of hydro and solar power will be mapped. Future sustainable options for electricity generation from gas and nuclear in Uzbekistan will be addressed. Optimal tracks will be computed for emerging electricity interconnections, reinforcing or replacing outdated transmission lines. The “green” electricity trade enabled by these interconnections will be subject of techno-economic modelling. The potential role of the EU in the envisaged energy transition will be highlighted, considering existing strategies on Central Asia as well as climate and energy diplomacy in the context of the global perspective of the Green Deal.	2021-12-31	Science for Policy reports	N

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																	3009322	202101	The North African Power Systems - Current Developments	Anticipating to the main 2022 deliverable, this report will summarise current status and developments of the power systems of five North African countries: Morocco, Algeria, Tunisia, Libya and Egypt. Attention will be paid to basic data, like electricity demand and generation trends. Current generation and transmission systems will be discussed, considering needs for investment. Emphasis will be given to national policies and strategies, laws and regulations, and plans and programmes, with focus on sustainable energy development. Regional energy cooperation will be addressed, including international agreements and treaties.The overall energy-related geopolitical context in North Africa will be considered. If apparent, the impact of the COVID-19 pandemic on above factors will be addressed.	2021-12-31	Technical Reports	N
1. A European Green Deal	1.1 Climate action	20256	CL-EN Diplomacy	Climate and Energy Diplomacy	JRC.C.6	30433	SPIPA Support	Support to the Strategic Partnerships for the Implementation of the Paris Agreement	The European Green Deal foresees also an external dimension, fostering the EUs role in international negotiations and work towards a "clean planet for all". This will require climate and energy diplomacy with major emitters outside the EU. In working closely together with other projects of the "Economics of Climate Neutrality" portfolio, this project focusses on the international dimension of global pathways to carbon neutrality and what this could imply for large emitters. This is of particular relevance in the UNFCCC stocktaking exercise mandated by article 14 of the Paris Agreement to assess collective progress towards achieving the agreement's targets. The first stocktaking is scheduled for 2023 and this project would provide modelling expertise to other Commission services (in particular, DG CLIMA). This project will produce the Global Energy and Climate Outlook (GECO), a regular report to showcase global pathways to reach the targets of the Paris agreement. The report is produced in close collaboration with DG CLIMA. In addition, this project will foster capacity building and international collaboration on a technical level under the "Strategic partnerships for the Implementation of the Paris Agreement" initiative. In particular, expert dialogues / workshops with modellers from outside the EU will be conducted. The project foresees the construction of collaboration platforms with key international partners to support the implementation of the Paris pledges. In the short term, focus will be given to capacity building and support to the mid-term Strategies for China, India, Brazil, etc, in close collaboration with DG CLIMA and supporting DG	JRC.C.6	CLIMA	JRC	EEAS ENER ENV INTPA RTD	2021-01-01	2025-12-31	INS-RS	3007661	GECO	Global Energy and Climate Outlook (GECO)	The Global Energy and Climate Outlook (GECO) is a regular report to showcase global pathways to reach the targets of the Paris agreement. The GECO report series is produced in close collaboration with DG CLIMA since 2015 and may focus on a specific topic or region for each edition. The most recent GECO editions have focussed on e.g. the role of electrification for decarbonisation (GECO 2019), the international context to the European long-term strategy (GECO 2018), or the co-benefits for air pollution (GECO 2017).	2022-12-31	Science for Policy reports	N
1. A European Green Deal	1.1 Climate action	20260	EGD for People	Green Deal for People	JRC.C.7	30200	SA-ET	Social Aspects of the Energy Transition	The European Green Deal calls for an energy transition to climate neutrality. This transition, combined with the long-lasting effects of the current COVID-19 crisis, will have far-reaching consequences for the citizens of the EU and as such, its successful implementation will strongly depend on public perception and acceptance of its aim and implementation means. For this reason, the social dimension of the energy transition is a top priority of the Commission. Ensuring a just and fair transition implies measures that avoid creating new societal inequalities while Europe's citizens, workers and regions see the benefits in the form of improved quality of life, more and better jobs and higher levels of living. Key new instruments need thus to be devised – addressing social policy, taxation, regional policy and other fields – to help support the parts of our society that are less equipped for the transition to a climate-neutral economy. The project will analyse the factors that affect public attitude towards climate neutrality and the drivers that will induce the social changes needed for the transition. It will identify those parts of the society that will be affected the most by the energy transition and analyse how to alleviate their concerns and financial burden. The project will assess the best way(s) to share within the society the costs of the energy transition and to distribute the gains. Furthermore, it will assess the implications of the COVID-19 crisis on the affordability of energy, our behaviour towards energy and the energy-related effects of the recovery plan. Overall, it	JRC.C.7	ENER	JRC	EMPL ENV GROW JUST MOVE REGIO RTD TAXUD	2021-01-01	2027-12-31	INS-RS	3002137	2	Employment and skills for a just and fair transition	The report will quantify and qualify regional employment opportunities and risks. It will identify the needs for new skills (re-skilling, reeducation) and sustainable green competences. It will also identify options to help the energy industry workforce becoming more diverse and inclusive	2021-12-31	Science for Policy reports	N
																	3002138	3	Energy poverty, poverty and the built environment	The report on energy poverty will include a mapping of data, and indicators related to energy poverty. It will assess the relationship between energy performance levels of buildings and income distributions.It will asses in how far poverty and energy poverty are related to each other and what role do buildings play.	2021-06-30	Science for Policy reports	N
																	3019233	7	Behavioural insights: promotion of the energy transition	The report will study the behavioural and consumption patterns for energy and other GHG-intensive goods. What are the main factors that influence sustainable energy behaviours; and key strategies to promote a sustainable energy transition. What role does behavioural spill over: can it be utilised as a meaningful energy behaviour change mechanism?	2022-12-31	Science for Policy reports	N
																	3019234	9	Socio-spatial injustices and the urban dimension	The report will discuss the following aspects: * Assessment of socio-spatial injustices (e.g. between and within countries, regions, cities and rural areas) * Identification of the adequate socio-economic tools and policy mix (e.g. compensation mechanisms, collaborative planning) to tackle inequalities * Analysis and classification at the regional level of the socioeconomic challenges and opportunities the energy transition entails * Monitoring and analysing the socioeconomic impacts of energy related policies and practices at the urban level	2022-12-31	Science for Policy reports	N

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																	3019235	1	Report on regional typologies, and challenges and opportunities related to the energy transition	The report will assess socio-spatial typologies and injustices, analyse and classify at the regional level the socioeconomic challenges and opportunities the energy transition entails	2021-09-30	Science for Policy reports	N
																	3019341	4	Impact of the COVID pandemic on energy behaviour and (energy) citizens	The COVID pandemic will have a dramatic impact on society as a whole. In the energy domain, we might be faced with a new wave of energy poverty while at the same time, we can already now observe induced changes in energy consumer behaviour. The report will present a comprehensive picture of the COVID crisis and its implications on the affordability of energy, our behaviour towards energy and it will monitor the effects of the recovery plan when it comes to the social aspects related to energy.	2021-12-31	Science for Policy reports	N
																	3019415	8	Social Innovation and Citizens' Empowerment in Energy	This report will assess in how far energy communities and other social innovations in energy (SIE) will empower citizens to become an active participant in the energy transition. It will include a case study analysis of exemplary social innovations (such as energy communities) with respect to their contribution to a just and fair energy transition (e.g. alleviating energy poverty, inclusion). It will assess what policy instruments and measures are best suited to support SIE.	2022-03-15	Science for Policy reports	N
1. A European Green Deal	1.1 Climate action	20260	EGD for People	Green Deal for People	JRC.C.7	30201	JT-CIR	Just Transition for carbon intensive regions	In order to support the EU objective of reaching climate neutrality by 2050, the Commission announced on 11 December 2019 the European Green Deal. In support of the accompanying all-encompassing strategy, a Green Deal Investment Plan or Sustainable European Investment Plan was presented on 14 January 2020. This plan includes a Just Transition Mechanism and Fund to provide targeted support to regions and people most affected by the transition to a climate neutral economy. These policy developments build on work carried out under the 'Clean Energy for All Europeans" package, which includes initiatives on coal mining regions in transition, and whose work was facilitated from previous support from the JRC that will received continuity through this project. There is a clear need from policy DGs of an unbiased assessment of the effect on regional employment of the transition to a de-carbonised energy industry. This need is also required when assessing the opportunities provided by renewable energies that can level off or even improve the employment in regions best endowed with renewal resources. All these are aspects that require the unbiased analysis/contribution from the JRC. The high regard expected from the planned deliverables of this project will support the project portfolio's objective of becoming the point of reference in the Commission for information and knowledge related to social aspects of the energy transition in support to the European Green Deal.	JRC.C.7	ENER	ENER JRC	GROW	2021-01-01	2027-12-31	CON-AA INS-RS	3011246	202101	Reports in support of the Coal Regions In Transition	This deliverable encompasses the reports agreed with DG ENER B3 in the contractual commitment (CON-AA-35734). Mainly, a report about coal, peat and oil shale regions in transition in Western Balkans and Ukraine, but will also incorporate al public dissemination and outreach activities (presentations, meetings events, webpostings).	2021-10-29	Science for Policy reports	N
																	3011266	202201	Reports looking into untapped potentials for employment and renewable energy sources in coal regions in transition	This deliverable will provide insights on alternative levers to facilitate the employment transition by extending previous analysis for the most critical coal regions including potentials and energy technologies not considered in previous JRC analysis. The analysis may also assess the maximum employment potential associated with the maximum resource available.	2022-12-29	Technical Reports	N
																	3021443	202102	Analysis of energy industry relocation impact in the employment prospects of the Coal Regions in Transition	In the aftermath of the coronavirus crisis, possible relocation policies may include not only medical supplies but also strategic technology sectors. This report will quantify the potential additional employment that could be generated if the manufacturing of key enabling technologies, such us PV industry and Batteries, would be relocated to Europe.	2021-12-31	Technical Reports	N
																	3021444	202202	Reports monitoring the expected phase out of coal mines and coal power plants and its job implications	This deliverable aims to gather information about the plans to phase-out of carbon related activities and their effect on jobs. Besides Austria and Belgium, seven more countries are expected to end coal by 2025, and five more by 2030. One of the deliverables of this activity will gather which countries, based on announcements and NECPS are to phase out coal and coal power plans breaking-down the capacity loss to regional level and estimating the impact on job.	2021-12-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.1 Climate action	20260	EGD for People	Green Deal for People	JRC.C.7	30202	Transition Narrative	Developing a positive narrative for the energy transition	The involvement and commitment of the public and of all stakeholders is crucial for the European Green Deal to succeed. Recent political events show that game-changing policies only work if policy makers work hand in hand with citizens when designing them, as has been emphasised in the Commission general objectives, and specifcally the political priority"a push for European democracy". As the European Commission's science and knowledge service, the Joint Research Centre (JRC) can play a huge role to support EU policies with independent scientific evidence. However the impact of the scientific work is dependent on "how can we get our message across", keeping in mind that citizens are and should remain a driving force of the transition. We need to develop the best means to communicate issues, key facts, and political options, in a stunning easy to digest format suitable for the dynamic political domain. We need to create a narrative that resonates with citizen's lives. Our next door neighbours are concerned about jobs, heating their homes and making ends meet, and EU institutions should engage with them if the Green Deal is to succeed and deliver lasting change. We have the technological capabilities to make the Green Deal a success, but if we cannot design tailored narratives and communication strategies many of the technologies will never be deployed or will never have the required impact.	JRC.C.7	ENER	JRC	COMM ENER GROW MOVE REGIO RTD	2021-01-01	2027-12-31	INS-UR	3004180	3004183	Support the development of a positive narrative for the energy transition via innovative,effective, tailored communication skills, tools, and culture	Develop a positive narrative for the energy transition through: Editing and communication impact advice. •the Development of science communication expertise and knowledge. •Expand networking with key communication stakeholders and experts both within and outside the EC. •Develop visualisation, graphics, & infographics competencies •Develop narratives & storytelling skills and culture •Develop [interactive] communication tools, competences, culture and knowledge within both Dir. C, & the JRC. in collaboration with scientists, and H2 colleagues responsible for the JRC Visitors Centre and digital media hub. •Design and develop the EU Data Visualisation platform together with the Publications office and JRC H2 Collaboration & co-creation of input and deliverables for the project portfolio SC4ALL, specifically in the areas of public science engagement, innovations in science communication and storytelling, visual communication & the development of spaces for science engagement	2021-12-31	Technical Reports	N
																	3004181	3004184	Enhancing impact of Directorate C knowledge and research via targeted dissemination and communication initiatives	Within the remit of the COCOM network, and in close collaboration with Dir C management team, enhance the impact of Directorate C scientific work & knowledge through Corporate and Directorate communication initiatives. Specifically on-line content management and development of new actions to enhance promote Dir c via modern web based communication channels, harvesting and development of press / media initaitives. Management, advice and development of events, ensure implementation of Commission visual identity plus one JRC strategy.. Internal communication via the most appropriate channels including connected, newsletter, on-site screens. Participation in the site development project. Networking with local and national stakeholders including DG COMM & EP representation Den Haag, local government, and communication experts. Provision of communication advice to the Directors office and Directorate. Provide relevant input and co-creation of deliverables in SCI4ALL portfolio.	2022-12-31	Technical Reports	N
																	3020093	3004182	Support the development of a positive narrative for the energy transition via innovative,effective, tailored communication skills, tools, and culture	Develop a positive narrative for the energy transition through: Editing and communication impact advice. • the Development of science communication expertise and knowledge. • Expand networking with key communication stakeholders and experts both within and outside the EC. • Develop visualisation, graphics, & infographics competencies • Develop narratives & storytelling skills and culture • Develop [interactive] communication tools, competences, culture and knowledge within both Dir. C, & the JRC. in collaboration with scientists, and H2 colleagues responsible for the JRC Visitors Centre and digital media hub. • Design and develop the EU Data Visualisation platform together with the Publications office and JRC H2 Collaboration & co-creation of input and deliverables for the project portfolio SC4ALL, specifically in the areas of public science engagement, innovations in science communication and storytelling, visual communication & the development of spaces for science engagement	2022-01-31	Technical Reports	N
1. A European Green Deal	1.1 Climate action	20260	EGD for People	Green Deal for People	JRC.C.7	30220	Labour Lab	Labour Lab	The Green Deal will leave nobody behind, and is aiming for a Just Transition to a carbon neutral economy. To reach these goals in an inclusive way, policymakers need to understand the impact of climate and energy policies on households that differ e.g. in terms of income level and sources, employment status and sectors, and consumption patterns. This project aims to improve the understanding of distributional impacts of climate and energy policies by building an integrated macro-micro economic model for the EU. The LABOURLAB project is partially funded by the Exploratory Research (ER) Programme.	JRC.C.6	CLIMA	JRC JRC	ECFIN EMPL ENER GROW TAXUD	2021-01-01	2023-12-31	INS-ER INS-RS	3011954	LL2021	Progress report	This progress report provides the technical description of the database and model construction	2021-12-31	Science for Policy reports	N
1. A European Green Deal	1.1 Climate action	20260	EGD for People	Green Deal for People	JRC.C.7	31181	EMPL 2020	Green Deal and Employment	The European Green Deal (EGD) represents one of the main pillar of the EU Recovery and resilience plan. Investing in Green policies will require the adaptation of EU productive systems, employment structure and tax systems to EU ambitious climate and environmental goals. Yet, these objectives will not impact all workers and bring the same opportunities to all individuals the same way. Therefore, in order to leave nobody behind and to ensure that the policies implement to ahieve the green goals contribute to make EU societies both more equal and resilient, EU policy proposals and national reforms must be assessed and supported by state of the art tools combining macro models (GEM-E3) and micro models (EUROMOD). Greater insight into these areas is needed to assist the ongoing work of DG EMPL.	JRC.C.6	EMPL	EMPL	CLIMA ENER	2021-01-01	2023-12-31	CON-AA	3074611	'rogRep202	Progress Report 2022	This deliverable covers further applications of a toolbox comprised of EUROMOD and GEM-E3, and related work to assess the distributional impacts of the Green Deal.	2022-12-31	Science for Policy reports	N
																	3074612	'rogRep202	Progress Report 2021	This deliverable includes the methodological developments to establish a link between GEM-E3 and EUROMOD, and an application to climate policy.	2021-12-31	Journal contributions (Clarivate)	N

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1. A European Green Deal	1.1 Climate action	20676	CC Impacts	Climate Change Impacts, Adaptation and Risk Reduction	JRC.C.6	30660	Costs Clim Inaction	Assessment of the costs of climate inaction	The justification of the European Green Deal, with its objective of reaching zero net greenhouse gas emissions by 2050, is partly based on the costs the EU would undergo without climate mitigation action. Assessing the costs of inaction is therefore a key strategic issue for the European Commission. The JRC is in a good position to develop such analysis given its rich experience in climate impact and adaptation assessment, developed since 2007 with the series of the JRC PESETA projects. JRC has an in-house modelling capability that allows analysing climate impacts in a large set of climate impact categories, from agriculture to river floods, covering also the climate and economic modelling aspects in an integrated way. JRC has also the internal resources to cooperate with other institutions working in the same domain, enriching its own analysis. The project is also related to adaptation policy and, in particular, to the 2013 Climate Adaptation Strategy and its review foreseen for the beginning of 2021, which is expected to include actions like improvement of data and modelling (e.g. EU-wide climate risk assessment) and international activities on adaptation, to which this portfolio and project will contribute to. The JRC appears as a key player in Action 4 of the 2013 Adaptation strategy; according to Action 4: Bridge the knowledge gap of the strategy states, 'The Commission will promote EU-wide vulnerability assessments, taking into account, inter alia, the cross-sectoral EU overview of natural and man-made risks that it will produce in 2013.	JRC.C.6	CLIMA	INTPA JRC	AGRI ECHO EMPL ENER ENV INTPA MARE MOVE SANTE	2021-01-01	2025-12-31	CON-AA INS-RS	3043937	D2021	Assessment of climate impacts (container deliverable)	This deliverable will contain the reports and publications of the activities foreseen in this project (assessment of climate impacts in energy, labour productivity, transport, environmental quality, and overall integrated assessments), including ad-hoc scientific support to DG CLIMA and DG ECHO.	2021-12-31	Technical Reports	N
																	3086676	D2022	Assessment of climate impacts (container deliverable)	This deliverable will contain the reports and publications of the activities foreseen in this project (assessment of climate impacts in energy, labour productivity, transport, environmental quality, and overall integrated assessments), including ad-hoc scientific support to DG CLIMA and DG ECHO.	2022-12-31	Technical Reports	N
1. A European Green Deal	1.1 Climate action	20676	CC Impacts	Climate Change Impacts, Adaptation and Risk Reduction	JRC.C.6	30663	CLIMEX	Climate extremes and disasters	Impacts of climate change will be largely connected to changes in climate extremes due to their disproportionate rise compared to the corresponding change in climatological averages. The aim of this project is to quantify how the frequency and intensity of extreme events like floods, drought and heatwaves will change due to global warming, how this will impact future societies in Europe and around the world, and how these impacts can be mitigated through climate action (greenhouse gas mitigation and adaptation). This information is key to underpin EU actions under the European Green Deal, EU Adaptation Strategy, the EU periodic assessment of disaster risks, but also to support recent international agreements on climate (Paris Agreement) disaster loss reduction (Sendai Framework for Disaster Risk Reduction 2015-2030) and development (Sustainable Development Goals). Threats of global warming will be more pronounced in areas prone to multiple climate hazards and with low adaptive capacity. In this context, an EU-wide and global multi-hazard risk assessment accounting for regional variations in climate extremes, exposure and vulnerability is essential to identify areas potentially more impacted by climate change. The JRC is well placed to perform such analysis given its experience in large-scale modelling of climate extremes and their impacts in present and future climate (including work done in the series of JRC PESETA studies). JRC has also close contacts with other institutions and international modelling teams working in the same domain and continued collaboration with these teams	JRC.C.6	CLIMA	JRC	ECFIN ECHO EMPL ENER ENV INTPA MARE REGIO SANTE	2021-01-01	2027-12-31	INS-RS	3041976	202101	Assessment of climate change impacts related to weather extremes	This deliverable will contain the various publications related to a probabilistic climate hazard risk assessment for Europe that aims to better capture very low probability but high impact climate extreme events and the consequent risks for the EU. Knowledge will be shared with international networks and partners to foster uptake of science into EU and international climate policy action. This deliverable also includes active involvement in networks such as IPCC and ISIMIP, linking with projects under Horizon Europe, collaboration with key international partners (e.g., IIASA, PIK), the contribution to the Covenant of Mayors, European Climate Adaptation Platform and DRMKC, and provide ad-hoc scientific support to DG CLIMA and DG ECHO.	2021-12-31	Journal contributions (Scopus)	N
																	3042145	202102	to be deleted	to be deleted	2021-12-31	Journal contributions (Scopus)	N
																	3042376	202103	to be deleted	To be deleted	2021-12-31	Journal contributions (Scopus)	N
																	3042589	202201	Assessment of climate change impacts related to weather extremes	This deliverable will contain the various publications related to a probabilistic climate hazard risk assessment for Europe that aims to better capture very low probability but high impact climate extreme events and the consequent risks for the EU. Knowledge will be shared with international networks and partners to foster uptake of science into EU and international climate policy action. This deliverable also includes active involvement in networks such as IPCC and ISIMIP, linking with projects under Horizon Europe, collaboration with key international partners (e.g., IIASA, PIK), the contribution to the Covenant of Mayors, European Climate Adaptation Platform and DRMKC, and provide ad-hoc scientific support to DG CLIMA and DG ECHO.	2022-12-31	Journal contributions (Scopus)	N
																	3042993	202202	to be deleted	to be deleted	2022-12-31	Journal contributions (Scopus)	N
																	3042994	202203	to be deleted	to be deleted	2022-12-31	Journal contributions (Scopus)	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.2 Sustainable and smart mobility	20264	Green Mobility	Green Mobility	JRC.C.4	30245	HELECTRON	Hybrid and Electric Vehicles Performance Assessment and Type Approval Procedures	Pre-normative research in line with the strategy outlined in the white paper "Roadmap to a Single European Transport Area – Towards a competitive and resource efficient transport system", the Energy Union Package on electric vehicles, the European Strategy for Low-emission Mobility and the high priority European Green Deal aiming at the decarbonisation and digitalisation of transport and boosting supply of sustainable alternative transport fuels by 2050. HELECTRON will conduct pre-normative research on - electric and hybrid vehicle performance (driving range, efficiency, in-vehicle battery durability, emissions in case of hybrids,…) in realistic use scenarios (e.g. different climatic and driving conditions), in order to contribute to the development of robust type approval procedures ensuring a good levels of real word energy efficiency and reliable information to consumers and assessment tools, - testing vehicle prototypes based on latest generation of components, powertrain and architectures to verify their performance –testing of the advance vehicle concept to contribute improving the energy management of auxiliary components, - assessment of in-vehicle battery durability, - support to hybrid system power determination. Research results will be conveyed to partner DGs GROW, MOVE, RTD and CONNECT, and any other DG having a role in e-mobility deployment. Recommendations will also be transferred to UN-ECE as appropriate. Experimental activities carried out in the Vehicle Emissions Laboratory (VELA) and EU interoperability center are complemented by desktop research mainly based on the analysis of big data concerning vehicle activity	JRC.C.4	GROW	JRC	RTD	2021-01-01	2027-02-02	INS-RS	3004504	1	Assessment of in-vehicle durability of batteries and hybrid power determination	Report outlining the results of durability tests or simulation of EVs/HEVs and hybrid power determination	2021-12-31	Technical Reports	N
																	3004506	2	Scientific publications and outreach activity 2021	This generic aggregate deliverable includes interim reports, peer-reviewed scientific publications, presentations, conference proceedings, participation to workshops etc. They will be related to: - Lab and on road tests on e-vehicles - Peer reviewed papers · Big data analysis	2021-12-31	Journal contributions (Clarivate)	N
																	3004507	4	Scientific publications and outreach activity 2022	This generic aggregate deliverable includes interim reports, peer-reviewed scientific publications, presentations, conference proceedings, participation to workshops etc. They will be related to: - Lab and on road tests on e-vehicles - Peer reviewed papers · Big data analysis	2022-12-31	Journal contributions (Clarivate)	N
																	3007431	3	Assessment of in-vehicle durability of batteries and hybrid power determination	Report outlining the results of durability tests or simulation of EVs/HEVs and hybrid power determination	2022-12-31	Technical Reports	N
1. A European Green Deal	1.2 Sustainable and smart mobility	20264	Green Mobility	Green Mobility	JRC.C.4	30260	GLOBAL-CERT	International emission standards and certification procedures for vehicles	The compliance with emissions standards is a central issue of vehicle certification worldwide. Most manufactures produce vehicles for a global market. Even if vehicles are not identical worldwide, different emissions standards in each region creates high burdens either for administrative issues or for vehicle design. The objective of this project is to give scientific advice and technical support to the worldwide standardization work for vehicle emissions and performance, under the umbrella of United Nations-European Commission for Europe (UNECE). Work relates to all type approval concerns on emissions for LD vehicle, L-Category vehicles, HD engines and non-road machinery. JRC has been working in the different informal working groups or task forces during the last 12 years and now, staff from JRC (C4) is acting as chair or co-chair of 2 different informal workings groups. The activity of the JRC in the different informal groups entails the participation in the relevant meetings, scientific and technical support to the discussion, conducting experimental programmes whenever this is needed and contributing to drafting technical documents and reports. Scientific Peer reviewed papers supporting this activity have been also the base of the JRC approach to the science for policy support in the UN-ECE process.	JRC.C.4	GROW	ENV JRC	CLIMA ENV MOVE RTD	2021-01-01	2027-12-31	CON-AA INS-RS	3007164	20	Periodic progress reports to GRPE	The UNECE informal groups are requested to provide a progress report to the Working Party on Pollution and Energy (GRPE) twice per year during the plenary sessions in January and June.	2022-12-31	Technical Reports	N
																	3007165	10	Periodic progress reports to GRPE	The UNECE informal groups are requested to provide a progress report to Working Party on Pollution and Energy (GRPE) twice per year during the plenary sessions in January and June.	2021-12-31	Technical Reports	N

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1. A European Green Deal	1.2 Sustainable and smart mobility	20264	Green Mobility	Green Mobility	JRC.C.4	30261	LEGENT	Low Energy & Greenhouse Emissions Neutral Transport	LEGENT incorporates a series of long-standing research, technical, and science-for-policy activities focused on the transition to a Low-Energy and Greenhouse-Emissions-Neutral Transport. LEGENT builds on a decade-long collaboration with DG Clima for the development and implementation of policies to reduce vehicle carbon emissions with strong links to other DGs (GROW, RTD, MOVE). Activity spans over all phases of the policy cycle, from conceptualization, formulation and impact assessment, implementation via JRC information systems, to monitoring (ex-post testing , data collection), and future foresight analyses. LEGENT main activities are: - An administrative arrangement with DG Clima that foresees the further development of the heavy and light duty vehicle certification procedure, further development of VECTO tool, extensive vehicle testing, the extension of the CO2MPAS/DICE3 systems for in-service verification, definition/validation of the post 2020 CO2 standards baselines, updates of the impact assessment studies (DIONE, PTTMAM), evaluation of ECO-Innovations applications, and real-world emissions monitoring. -Forward looking institutional activities, with a broader scope, aiming to prepare the ground for future policy while contributing to the portfolio strategy. The development and extension of the GreenDriving tool to provide information to European citizens for the promotion of best practices, and for contributing to a	JRC.C.4	CLIMA	CLIMA JRC	GROW RTD	2021-01-01	2027-12-31	CON-AA CON-IA INS-RS	3023486	02	Final Report Longrun Project	Final report outlining the outcome of this activity	2023-07-01	Technical Reports	N
																	3023487	01	Final report	Final report describing all the work carried out in the context of the Administrative Arrangement.	2023-11-17	Technical Reports	N
																	3023503	03	BC4T final report	Final report of the BC4T exploratory research project activity	2021-12-31	Technical Reports	N
1. A European Green Deal	1.2 Sustainable and smart mobility	20264	Green Mobility	Green Mobility	JRC.C.4	30262	AFI	Alternative Fuels Infrastructure scale up	The Alternative fuels infrastructure scale up project performs comprehensive analyses of technological, market, environmental aspects and policy options for green mobility solutions with focus on "scaling up the use of low-emission alternative energy for transport", an action from the European Strategy for Low-Emission Mobility [COM(2016)244]. The activities in this project primarily support the implementation of the Directive 2014/94/EU on the deployment of alternative fuels infrastructure (AFI) and the related Action Plan. The Commission Communication COM(2019) 640 final ("The European Green Deal") provides further momentum to a more effective achievement of a carbon-neutral EU economy within 2050.	JRC.C.4	MOVE	MOVE JRC	CLIMA ENER ENV GROW	2021-01-01	2027-12-31	CON-AA CON-AA INS-RS	3009919	22	Preparation of revised Guidance document for Member States for preparing the end-of-2022 implementation reports	Supporting activities, definition of guidance for member state NPFs implementation, study and inform best practices	2021-12-31	Science for Policy Briefs	N
																	3009920	23	Revision of the 2020 Alternative Fuel State of the Art report	Revision of the 2020 Alternative Fuel State of the Art report	2022-12-31	Technical Reports	N
																	3009921	24	Support related to European Green Deal (part 1)	Support related to European Green Deal (period Jan-Dec 2021)	2021-12-31	Whole parts of policy documents	N
																	3009922	25	Support related to European Green Deal (part 2)	Support related to European Green Deal (period Jan-Dec 2022)	2022-12-31	Whole parts of policy documents	N
																	3009923	21	Support Activities Assessment of National Policy Framework implementation reports	Second round of assessment of the NPF implementation reports, to include those Member States that have not delivered their implementation reports in time for the first round.	2021-06-30	Science for Policy reports	N
1. A European Green Deal	1.2 Sustainable and smart mobility	20264	Green Mobility	Green Mobility	JRC.C.4	30263	VEESTA	Vehicle European Emission Standards and Type Approval Procedures	This project builds on a well-established cooperation between JRC and GROW for elaborating proposals related to various Directives/Regulations under the responsibility of DG-GROW, such as the Regulations on type approval of different vehicle categories (LDV, HDV, NRMM and L-cat) with particular emphasis on the post-Euro 6/VI emission standards. Reducing the contribution of road transport to air pollution is one of the main objectives mentioned in the new Green Deal Communication of the Commission. As demonstrated by past events like the dieselgate scandal, independent and unbiased support for the development of the emission legislation is essential in a sector where there are huge private and national interests. Not only does the JRC have the necessary expertise and know-how to provide high level support as demonstrated over almost two decades, but the JRC owns also world class facilities, the Vehicle Emission Laboratory, in which all kind of vehicles can be tested and that are well recognized at international level with well established connections with other non-EU countries. The activity consists in an institutional research programme and an Administrative Arrangement signed between the JRC and GROW which describes the tasks to be carried out by the JRC. The AA focuses on specific policy related requests from GROW while the institutional part of the project includes more forward looking activities with a broader scope. Examples are the monitoring of currently unregulated pollutants, the assessment of specific engine/after-treatment technologies, exploring innovative instruments and methods for emission monitoring and the collaboration with international	JRC.C.4	GROW	GROW GROW RTD	CLIMA ENV RTD	2021-01-01	2027-12-31	CON-AA CON-AA CON-IA CON-IA CON-IA INS-RS	3000397	20	Scientific publications and outreach activity 2021	Peer review papers	2021-12-31	Journal contributions (Clarivate)	N
																	3000398	10	Final report of AA	Final report describing all the work carried out in the context of the Administrative Arrangement.	2021-10-12	Technical Reports	N
																	3000401	30	Final report outlining the outcome of the DIAS project	Final report outlining the outcome of this activity	2023-01-31	Technical Reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3019422	40	Annual report on the review of the PEMS uncertainty margin	The JRC will report the results of the assessment of the uncertainty margin of the new PEMS generation in order to contribute to the revision of the conformity factors for RDE emission testing.	2021-12-31	Technical Reports	N
																	3051891	50	Technical report on electromagnetic compatibility	Assessment of the EMC implications with relation to: i) Vehicle dynamic driving conditions ii) Development of EMC testing methods to reflect realistic on-road driving scenarios iii) Safety of transport systems, electromagnetic interference and spectrum protection iv) EMC evaluation of vehicles whilst being recharged	2021-12-31	Technical Reports	N
																	3095549	60	Final report outlining the outcome of the LEON-T project	Summary and policy recommendations related to tire wear and microplastic emissions	2024-05-31	Technical Reports	N
1. A European Green Deal	1.2 Sustainable and smart mobility	20264	Green Mobility	Green Mobility	JRC.C.4	31220	BC4T	Blockchain for Transport	Investigate the potential of blockchain technology for emissions monitoring and vehicle identity attribution; propose further actions when possible and relevant and create a toolbox inside the JRC for future analysis.	JRC.C.4	MOVE	JRC	CLIMA GROW MOVE	2020-03-16	2022-03-15	INS-ER	3077501	1	BC4T final report	Final report consolidating the activities and findings of the project.	2022-03-07	Technical Reports	N
1. A European Green Deal	1.2 Sustainable and smart mobility	20266	Smart Mobility	Smart Mobility solutions to achieve a low-carbon, clean, efficient and safe transport system	JRC.C.4	30425	FMS-Lab	JRC Living Lab for Future Mobility Solutions	New vehicle technologies and social trends are changing the way we move, the way we work and the way we live, just as steam trains and motor cars did before them. They will shape the future of road transport promising to make it more efficient and more sustainable. It is for this reason that in the European Green Deal Communication published by the European Commission in December 2019 automated and connected multimodal mobility together with smart traffic management systems enabled by digitalization are called to play a crucial role in the attempt to reduce the externalities generated by the transport system. And it is for the same reason why the New Industrial Strategy for Europe published by the European Commission in March 2020 emphasizes the need for a special focus to sustain industries related to smart and connected mobility. The same Communication also highlights the role that Small and Medium Enterprises (SMEs) play in this context. SMEs which however suffer a significant gap in terms of access to data and to infrastructure able to support their testing and deployment. SMEs which are particularly suffering a period of economic lock-down in Europe and which will need special attention in the new Marshall Plan the European Commission is launching to fight the Coronavirus crisis. But the Coronavirus is not only a threat for our health and our economy. It will radically change our lifestyle for years and will question some of the business models based on the sharing of the available resources. Whether the shared mobility concept will survive this phase and possibly lure traffic from public transport even more rapidly or completely	JRC.C.4	MOVE	JRC JRC JRC	CNECT GROW RTD	2021-01-01	2027-12-31	CON-IA INS-CDP INS-E&IA INS-RS	3003124	2	Living Lab for Future Mobility Solution. Main results after two years of activities	The report will summarize the main outcomes of the experiments carried out in the framework of the Living Lab for Future Mobility Solutions	2022-07-31	Science for Policy reports	N
																	3003125	1	Future transport solutions and emerging mobility trends	The report summarizes the main outcomes achieved in the different activities of the project to shed light on the mobility trends that will be enabled by the upcoming transport services. Indication on how transport demand will be affected by the new trends will be highlighted. Evidence from the Living Lab activities will help to better characterize the emerging trends	2022-11-30	Science for Policy reports	N
																	3022534	3	SHOW D11.2 Demos safety, reliability and robustness validation and commissioning	The report will summarize the main outcomes of the pre-commissioning tests that the JRC will carry out to assess the safety, reliability and robustness of the mobility services deployed as part of the SHOW H2020 project	2022-10-30	Technical Reports	N
																	3022535	4	Scientific outputs related to the Living Lab for Future Mobility Solutions	The activities of the Living Lab for Future Mobility Solutions will lead to a series of scientific publication in peer review journal and conferences	2022-12-31	Journal contributions (Clarivate)	N
1. A European Green Deal	1.2 Sustainable and smart mobility	20266	Smart Mobility	Smart Mobility solutions to achieve a low-carbon, clean, efficient and safe transport system	JRC.C.4	30431	T-NET	Transport networks modelling and analysis	The European Green Deal is one of the priorities of the Commission (COM(2020) 37 final) and defines a roadmap of policies and measures to make the EU's economy sustainable while leading a transition towards a fair, climate-neutral and digital Europe. As part of the European Green Deal the Commission is to propose an overarching Strategy for Sustainable and Smart Mobility to modernise and green the transport sector. This strategy intends that the EU transport system and infrastructure is made fit to support new sustainable mobility services that can reduce congestion and pollution, especially in urban areas. In this context, automated and connected multimodal mobility is to play an increasing role, together with smart traffic management systems enabled by digitalisation and mobility-as-a-service solutions. The results from the project are expected to inform the debate on the effects that the adoption of smart mobility initiatives may impose over the territorial distribution of performance indicators, for instance, the changes to the levels of accessibility to opportunities (employment) that smart mobility solutions enable, and how these effects depend on the type of policy implemented and the type of urban agglomeration considered (existing available transport options, urban sprawl distribution, etc.). The project contributes to the "Smart Mobility" portfolio by means of providing a modelling framework that considers the high level of spatial resolution and detail of transport networks that is required for an evaluation of the effects of the mobility solutions tested in the JRC Living Lab when scaled up to a given urban agglomeration area. The work in the project builds upon	JRC.C.6	MOVE	REGIO REGIO JRC	ESTAT REGIO RTD	2021-01-01	2027-12-31	CON-AA CON-AA INS-RS	3022254	1	Progress report	This deliverable is to describe the main results obtained and enhancements incorporated into the tools and methodologies as carried out during the first year of the project (i.e. 2021). The deliverable is conceived as a progress report with a technical part describing the development of algorithms and architecture additions to the T-NET modelling platform required for the analysis of scenarios concerning smart mobility. Feasibility studies (e.g. the analysis of how the methodology encompasses the required efficient use of computation resources for a potential scale up of the analysis to more than one case study) and examples of applications of the methodology (types of detailed multimodal networks that can be employed in the analysis and how scenarios are implemented by including changes in the features of these networks) are to be included in this progress report.	2021-12-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3022256	3	Final report describing the enhanced features incorporated into the T-NET modelling platform and their application to selected smart mobility scenarios	This deliverable is planned as a Science-for-Policy report and is to elaborate on the application of the methodology developed as part of the project and how it applies to a number of selected scenarios. The scenarios will be defined in coordination with the work of other projects of the same portfolio, in particular as regards the results from the evidence from the Living Lab activities and their characterisation of upcoming transport services. The final report will be supplemented as needed by the relevant separate JRC Technical Reports providing further detail on the methodological improvements carried out during the second year of the project (i.e. 2022).	2022-12-31	Science for Policy reports	N
																	3022257	2	Contribution to peer-reviewed journal (Distribution of effects of smart mobility policies and impact on accessibility-to-opportunities patterns within urban agglomerations)	The methodology proposed as part of the project to use enhanced routing algorithms over dense networks (typically considering all relevant road segments and public transport services within a given urban agglomeration) to measure the effects on travel patterns of the incorporation of smart mobility solutions constitute suitable material for scientific publication in a related journal. The publication would elaborate upon the innovative character of the mobility solutions under study and the availability of modelling tools that are able to combine assignments of traffic to routes within accurate detailed representations of the transport networks (all road segments, all railway/buses/metro services). This external peer review should facilitate the completion of the project taking into consideration relevant external expertise.	2022-06-30	Journal contributions (Clarivate)	N
1. A European Green Deal	1.2 Sustainable and smart mobility	20266	Smart Mobility	Smart Mobility solutions to achieve a low-carbon, clean, efficient and safe transport system	JRC.C.4	30432	DaSMo	Data Science for Mobility	Transport and mobility are important elements of social and economic activity. Socio-ecomomic aspects and technological change strongly interact with the transport system evolution and affect its operational, economic and environmental characteristics. At the same time, the increasing availability of data (often in real time) and the progress in data science methods, allow a deeper and wider coverage of the trends across all transport modes and improve the capacity to describe and explain the factors that influence them. DaSMo exploits those new data sources and methods and explores the impact of technology, policy measures and shocks using a wide range of indicators. DaSMo monitors and evaluates the general trends in transport but also focuses on specific emerging issues of high interest. Two such issues include the user acceptability of new technologies in road transport and the recovery of the transport system from the COVID-19 pandemic. In both cases the work includes an analysis of how user preferences and mobility patterns affect the technological, operational and market landscape, and how the transport system can adapt to the changing mobility patterns that they cause. The data driven evidence collected and analysed by DaSMo can be useful in the formulation, evaluation and monitoring of transport policy measures.	JRC.C.6	MOVE	JRC JRC	CLIMA REGIO RTD	2021-01-01	2027-12-31	INS-CDP INS-RS	3007612	1	Data driven analysis on transport policy issues	Peer-reviewed article on an issue related to transport policy (exact subject to be defined, depending on policy priorities). The article will describe a methodology or use empirical evidence to analyze a specific issue and its impacts on one or more transport and mobility aspects.	2021-12-31	Journal contributions (Clarivate)	N
																	3007616	2	Scientific article / Scientific report	Peer reviewed journal article of JRC Technical Report on a policy relevant emerging issue in transport (exact subject to be defined)	2022-12-31	Journal contributions (Clarivate)	N
1. A European Green Deal	1.2 Sustainable and smart mobility	20266	Smart Mobility	Smart Mobility solutions to achieve a low-carbon, clean, efficient and safe transport system	JRC.C.4	30581	RICAM	Requirements and Implications of a Connected and Automated Mobility	Driving automation brings the promise to address several important societal challenges of road transport: road safety, energy efficiency, congestion, urban accessibility and social inclusion. This very important role is indeed confirmed by the European Green Deal Communication published by the European Commission last December, that supports the integration of automated and connected multimodal mobility into the European transport system. At the same time Connected and Automated Vehicles represent one of the European strategic value chains (as confirmed by New Industrial Strategy for Europe published by the European Commission in March 2020) and for this reason it is crucial to define clear requirements for their introduction to the market.	JRC.C.4	GROW	GROW JRC	MOVE	2021-01-01	2027-12-31	CON-AA INS-PoC INS-RS	3014598	1	Safety certification of automated vehicles	The report presents the results of JRC activities on safety certification of automated vehicles and implementation of the new type approval Regulation.	2022-12-31	Science for Policy reports	N
																	3014632	2	CAVs Impact on transport efficiency and new governance models	The report summarizes the main results from scientific activities concerning the effect on CAVs on traffic efficiency and the emergence of new governance models	2022-12-31	Science for Policy reports	N
																	3014633	3	MITICA Final Report	The report summarises the outcomes of the MITICA exploratory research project	2021-12-31	Science for Policy reports	N
																	3014634	4	ADAS Safety verification through track tesing	Final report of the research activities on safety of road vehicles equipped with advanced driver assistance systems (ADAS)	2021-12-31	Science for Policy reports	N
																	3024211	5	BC4T final report	The document will summarize the main outcomes from the activities in the BC4T Exploratory research	2022-07-31	Technical Reports	N
																	3024212	6	Impact of mobility disuptions on EU economy and jobs	The report will summarize the main foreseeable future mobility scenarios and their effect on Eu economy and jobs	2021-12-31	Science for Policy reports	N

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1. A European Green Deal	1.2 Sustainable and smart mobility	20266	Smart Mobility	Smart Mobility solutions to achieve a low-carbon, clean, efficient and safe transport system	JRC.C.4	30582	TRIMODE-EU	European transport systems, technology watch, data and scenarios	Transport plays a key role in economic growth, regional development and social cohesion across the EU. While mobility increases citizens' access to a wider range of opportunities, also incurs in negative externalities, from GHG emission to pollution and congestion. Therefore, modelling the EU transport system and enabling the quantitative analysis of different scenarios is critical in order to provide relevant insight into existing and emerging challenges – from protecting the single market and enabling economic recovery, to GHG mitigation and adaptation. TRIMODE-EU focuses in the development of modelling tools stemming from the TRIMODE project, increasing the accuracy and relevance of the EU transport system characterisation at operational, economic and environmental levels. A main outcome of that project is the TRIMODE model, an integrated modelling platform that combines the simulation of transport, economy and energy systems for the assessment of major transport infrastructure projects and policies at EU level. TRIMODE-EU aims at incorporating the most recent data and trends not only as a means of boosting confidence in the output, but also to enhance the process of scenario building and drive the new capabilities envisaged for the TRIMODE model. Among those, it is foreseen to integrate a more detailed characterisation of urban transport, introducing new alternatives and mobility innovations as well as user preferences. Changing mobility patterns at different levels and adapting transport supply will also be analysed and explored in quantitative terms by this project.	JRC.C.6	MOVE	RTD RTD JRC	CLIMA REGIO RTD	2021-01-01	2027-12-31	CON-AA CON-AA INS-RS	3038873	2	Future transport scenarios: a quantitative assessment with TRIMODE-EU	This report will discuss in detail a series of future transport scenarios, including results from TRIMODE-EU, These scenarios will stem not only from the trends identified during the project, but will also reflect the policy interests of our partner DGs.	2022-01-31	Technical Reports	N
																	3038874	1	TRIMODE-EU: demand characterisation in transport modelling at EU level	This deliverable will include the data collected and processed in order to enhance the demand representation in TRIMODE, as well as the new features built into it (urban activity, role of innovative and active modes of transport and its interaction with public transport), which will be incorporated into a new version of the model, TRIMODE-EU.	2021-12-31	Technical Reports	N
1. A European Green Deal	1.2 Sustainable and smart mobility	20266	Smart Mobility	Smart Mobility solutions to achieve a low-carbon, clean, efficient and safe transport system	JRC.C.4	31067	MITICA	Monitoring Transport Infrastructures with Connected and Automated vehicles (Exploratory Research Experimental Activity)	The MITICA project is part of the JRC Exploratory Research (ER) Programme. The project investigates the opportunities of novel methods of infrastructures motoring for the efficient maintenance of the European aging road infrastructure. It considers the future advantages of connected vehicles and the measurements from vehicles on-board sensors to infer bridges conditions possibly offering an alternative low cost method of structural assessment.	JRC.C.4	GROW	JRC	GROW	2020-02-16	2022-02-15	INS-ER	3059009	M01	MITICA testing site	For the feasibility study of indirect Structural Health Monitoring (iSHM) methods to possibly evaluate bridge damages from sensors on moving vehicles, a dedicates testing site is designed and set-up next to the JRC E.4 Unit. The testing site will comprise a bridge-like concrete structure and a vehicle track. Sensors and acquisition system will allow the constant monitoring of both the travelling vehicle dynamics and the response of the infrastructure. The processing, comparison and analysis of structural and vehicle measurements will be performed for the signals correlation and the development of novel mathematical methods.	2021-04-30	Technical systems	N
																	3085565	M02	Final report	Final Report presenting the MITICA project and achieved results	2021-12-31	Science for Policy reports	N
1. A European Green Deal	1.3 Energy	20240	RES NET	Renewable energies and negative emission technologies and resources for the Green Deal	JRC.C.2	30180	TM-ResNet	Technology and market assessments for renewables and negative emission technologies	The proposed EU Climate Law aims to make Europe the first climate-neutral continent by 2050. Achieving this will require deep electrification not just of the power sector but also others currently consuming conventional fuels. This implies the deployment of more renewables, faster. However while the strategic goal is clear, the implementation of this transition brings a range of uncertainties and even unknowns. These include: • changing boundary conditions: to adapt to a circular economy paradigm, to ensure a socially fair transition, to address land use issues and resource constraints, and to win public acceptance; • changing innovation dynamics of renewable technologies and the role of EU industry; • impact of new deployment and integration modes for renewables; • the role of as yet commercially unproven technologies such as synfuels and negative emission technologies – are learning rates consistent with expectations? • new resilience requirements, new business models, and new market mechanisms. In less developed countries, in particular Sub-Saharan Africa (SSA), the challenges of using renewables to increase basic clean energy access for large and growing populations are no less demanding, and in the short term are likely to be exacerbated by the Covid-19 pandemic. Broadly seen, this project will analyse how innovation in	JRC.C.2	ENER	JRC	INTPA RTD	2021-01-01	2022-12-31	INS-RS	3010940	200	Photovoltaics Status Reports	Periodic snapshots and assessments of global and European trends in photovoltaics markets and industry value chains, considering in particular the EU competitiveness in relation to international developments in Asia and America. It will include integrated PV and battery storage systems, in collaboration with JRC.C.1. The activity will also contribute to the IEA technical cooperation programme on PV power systems (PVPS Taks1). The PV Status Report will be public.	2022-11-30	Science for Policy reports	N
																	3010999	900	Scientific publications	Umbrella for scientific journal articles arising from the projects, addressing for example: - innovative integration and deployment of renewables (floating PV, offshore PV, agri-PV, vehicle integrated PV, infrastructure integrated PV, farm energy solutions) - update assessment of PV potential on buildings and in the urban environment - land use and sustainability issues for renewables, including the energy-water-food nexus - renewables in the rural electrification in sub-Saharan Africa - results and analysis of expert elicitation on negative emissions - solar resource and PVGIS - biomass resources - European Biomass Conference proceedings - others consistent with the project scope	2022-12-31	Journal contributions (Clarivate)	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3011569	100	Support actions for EU policy development for renewables, their value chains and research and innovation trends	Ad hoc support to EC policies and strategies on renewable deployment, on the Competitiveness Progress Report, the Clean Energy Transition Technology & Innovation Report (CETIR), the SET-Plan implementation working groups and on industrial competitiveness (in collaboration with JRC.C.7 project on low carbon strategic value chains)	2022-12-31	Science for Policy reports	N
																	3011728	300	Artificial Photosynthesis Prize Grand Finale event 2021	Report on finale of the Mission Innovation event to be hosted at Ispra in 2021 and implication of results for artificial photosynthesis	2021-12-31	Technical Reports	N
																	3011729	400	Clean energy access tool and data for the Africa Knowledge Platform	Assessment of electricity requirements to tackle energy poverty and update on the tool development status at end of 2021 and consideration of relevant related activities in DG RTD-supported networks, IRENA and World Bank initiatives etc. Also includes: estimation of levelised cost of electricity for different energy demand portfolios and different energy demand profiles (collaboration JRC.E1); integration of rural electrification model (JRC) with existing grid extension and growing centralized capacity models; update of composite indicators for the social, environmental/technical, economic and governance factors impacting renewables investment; energy democracy analysis on involvement of local communities in decision-processes and reducing inequalities.	2021-12-31	Sci information systems and databases	N
																	3011730	450	Clean energy access and population growth trends for Sub-Saharan Africa	Study on impact of demographic trends in the clean energy access in Africa, considering both rural and urban electriification issues in relation to EU support. The urban dimension will reflect data from JRC.B.3 (territorial development modelling) and from the Covenant of Mayors SSA initiative.	2022-12-31	Science for Policy Briefs	N
																	3011731	500	Integration of solar PV and hydropower	Deliverable to be removed due to departure of staff member before end of contract	2021-11-30	Technical Reports	N
																	3011732	700	Foresight Report on Negative Emission Technologies	NETs are means of withdrawing CO2 or other greenhouse gases from the environment to reduce atmospheric concentrations. While controversial to some, policy makers need reliable assessments of their potential impact. Dir C .7 has studied carbon capture and storage in detail over the last decade, and the directorate (with C.2 and C.7) is now broadening the scope to provide assessments of a wide range of options including direct air capture, biomass electricity with and carbon capture and storage (BECCS) enhanced weathering, ocean fertilization, biochar, soil carbon sequestration. Two expert workshops (invitation only) will be used to establish a consensus on the feasbility and impact of selected NETs. NB Afforestation is considered out of scope of this deliverable. Also, for DAC, the use of the CO2 needs to be addressed - the environmentally preferred option would be embedding the carbon in durable materials and products where they constitute a carbon sink	2022-09-30	Science for Policy reports	N
																	3011733	800	PVGIS Status and Release Manual	Release with updated solar radiation and temperature datasets for 2010-2020; inclusion of function to support specific policy implementation e..g . typical meteorological year data for the Energy Performance of Buildings Directive, location specific climatic PV system performance parameters for PV Ecodesign instruments.	2021-12-31	Science for Policy Briefs	N
																	3055164	480	Water-Biomass Energy Nexus in Western Africa	Study and model regarding the feasibility of biomass energy from crop residues in Africa in view of their water footprint	2021-12-31	Technical Reports	N
1. A European Green Deal	1.3 Energy	20240	RES NET	Renewable energies and negative emission technologies and resources for the Green Deal	JRC.C.2	30181	PV Energy	Photovoltaic Energy Sustainability and Standards	The European Union has adopted actions and set targets to promote climate action for the protection of our environment, achieve energy transition to reduce the human impact on nature and create a circular economy of products in order to modernise and transform our economy while protecting the environment. The European Green Deal brings together many of these issues, and the commitment to have ever more renewable energies is at the heart of these actions. Europe has identified the need to “develop a power sector based largely on renewable sources” in its commitment to the Paris Agreement, and to realise the goals of the Energy Union and the European Green Deal (EGD). The Green Transition and Strategic Autonomy have been identified as key elements by the European Council in the “Road Map of Recovery" from the COVID-19 pandemic. Renewable Energy will be key in its realisation. The renewable energy with the largest scope in terms of scientific development, innovation, industrial transfer, deployment and impact in Europe is Solar Photovoltaic Energy. Solar Photovoltaics is our most abundant renewable energy resource and one of the most important technologies for achieving the objectives of the EGD. The JRC supports the rapid development and deployment of solar photovoltaics through several key actions. The JRC activities include: a) Development of European and international standards for photovoltaic products as integrated elements of the electricity supply system. This will prioritise the "quality and performance" and "de-risking" themes critical to innovation and competitiveness.	JRC.C.2	GROW	GROW JRC	ENER RTD	2021-01-01	2022-12-31	CON-AA CON-IA INS-UR	3020334	2021D02	PV Standards Status 2021	Standardisation activities lead by the JRC in support of policies on Growth. Annual report on technical standards for PV products and systems, based on JRC contributions to: - International Electrotechnicial Commission Technical Committee 82 activities - European Committee for Electrotechnical Standardisation (CENELEC) TC-82 activities - IECRE (IEC System for Certification to Standards Relating to Equipment for Use in Renewable Energy Applications) - International PV Quality Assurance Forum.	2021-12-01	Science for Policy reports	N
																	3020335	2021D03	State of the Art for Solar Energy Production	This is an annual report that a) provides an update on the adequacy of measurement methods used to assess the electrical performance of PV products and prototypes. b) verifies the status of ESTI's unique independent traceability chain for irradiation measurements c) summarises results of calibrations performed for EU industry and research organisations, as well as benchmarking activities with peer external organisations.	2021-12-01	Science for Policy reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3020336	2021D01	Pre-normative R&D on methods and performace of Innovative PV	Scientific papers on improved methods for measurement of power and energy yield for new and emerging PV technologies, including building integrated products, Vehicle Integrated PV and dissemination of pre normative measurement methods prior to adoption by standardisation bodies. Research will also address advanced methods for solar radiation measurements, including inter-comparisons. Results will also be communicated to relevant standards committees. Results of international inter-comparisons and round robins.	2021-12-31	Journal contributions (Scopus)	N
																	3020452	2022D01	Pre-normative R&D on methods and performance of Innovative PV	Scientific papers on improved methods for measurement of power and energy yield for new and emerging PV technologies, including building integrated products, Vehicle Integrated PV and dissemination of pre normative measurement methods prior to adoption by standardisation bodies. Research will also address advanced methods for solar radiation measurements, including inter-comparisons. Results will also be communicated to relevant standards committees. Results of international inter-comparisons and round robins.	2022-12-31	Journal contributions (Scopus)	N
																	3020453	2022D02	PV Standards Status 2022	Standardisation activities lead by the JRC in support of policies on Growth. Annual report on technical standards for PV products and systems, based on JRC contributions to: - International Electrotechnicial Commission Technical Committee 82 activities - European Committee for Electrotechnical Standardisation (CENELEC) TC-82 activities - IECRE (IEC System for Certification to Standards Relating to Equipment for Use in Renewable Energy Applications) - International PV Quality Assurance Forum.	2022-12-01	Science for Policy reports	N
																	3020454	2022D03	State of the Art for Solar Energy Production	This is an annual report that a) provides an update on the adequacy of measurement methods used to assess the electrical performance of PV products and prototypes. b) verifies the status of ESTI's unique independent traceability chain for irradiation measurements c) summarises results of calibrations performed for EU industry and research organisations, as well as benchmarking activities with peer external organisations.	2021-12-01	Science for Policy reports	N
																	3038619	2021D04	Reference Calibrations Providing Traceability to SI Units	Provision of ISO/IEC 17025 calibration of photovoltaic devices , creating laboratory and industry reference standards.	2021-12-01	Reference materials	N
																	3038620	2022D04	Reference Calibrations Providing Traceability to SI Units	Provision of ISO/IEC 17025 calibration of photovoltaic devices, creating laboratory and industry reference standards.	2022-12-01	Reference materials	N
1. A European Green Deal	1.3 Energy	20240	RES NET	Renewable energies and negative emission technologies and resources for the Green Deal	JRC.C.2	30182	BE-ALFA	Bioenergy and alternative fuels assessment	Decarbonisation is at the core of energy and climate policy in Europe and worldwide. The European Green Deal reasserts the European Commission's commitment to tackling climate and environmental challenges to reach a carbon neutral Europe by 2050. Acknowledging the importance of the energy sector to reach the climate objectives, the Green Deal requires to further decarbonise the energy system to reach the climate objectives for 2030 and 2050. Renewable energy is critical for achieving the climate goals, complemented by a rapid phasing out of fossil fuels. In this context, sustainable bioenergy systems can provide flexible energy solutions and enable, by stabilising the grid, higher shares of variable renewable energy (solar, wind) in the energy grids. The Green Deal states that sustainable alternative fuels and biofuels should be promoted in aviation, waterborne and heavy-duty road transport where electrification is currently not possible. This is essential to achieve 90% reduction in transport emissions needed by 2050 in order to reach climate neutrality goals. The Green Deal is an integral part of this Commission's strategy to implement the United Nation's 2030 Agenda and the sustainable development goals. In this sense, as part of the circular bio-economy, bioenergy brings social, environmental and economic benefits to agriculture, forestry and other industrial sectors, driving rural development in the context of sustainable development. Thus, the use of biomass for innovative and advanced biofuels or high efficiency heat and power can contribute to the rural development, help developing rural areas and be an important part of the	JRC.C.2	ENER	CLIMA ENER MOVE JRC	CLIMA MOVE RTD	2021-01-01	2022-12-31	CON-AA CON-AA CON-AA INS-RS	3023369	2	Well-to-wheel perspectives for decarbonising transport	In the EU, transport (including road transport, aviation and waterborne transport) is responsible for 27% of total greenhouse gas emissions. The EU Green Deal aims to achieve 90% reduction in transport emissions needed by 2050 in order to reach climate neutrality goals. A WTW analysis will be performed to assess the potential of different fuels and powertrains options. WTW study will be used to create a dataset on which to build scenario analysis. The deliverable focuses on the analysis of the different decarbonisation options for transport such as aviation, waterborne and road transport, comparing the contribution of various alternative fuels and electrification options.	2022-12-31	Technical Reports	N
																	3023370	3	Greenhouse gas avoidance potential of future technologies, new processes and pathways	The deliverable focusses on the assessment of the greenhouse gas avoidance potential of future technologies, new processes and pathways, which will enable the transition to a decarbonised economy. The new processes and technologies envisaged address renewable energy, bioenergy, energy storage, Bioenergy Carbon Capture and Utilisation (BECCU) and Bioenergy Carbon Capture and Storage (BECCS).	2021-12-31	Technical Reports	N
																	3023371	4	Scenarios for alternative fuels consumption	The deliverable addresses the uptake of alternative fuels by the transport sector, at time horizon 2030 and beyond. Trade-offs among transport modes as regards the uptake of alternative fuels will be analysed	2022-12-31	Technical Reports	N
																	3023372	5	GHG performance profiles of future bioenergy and alternative fuels	The deliverable provides an updated assessment of the GHG emission savings and energy balance of bioenergy and alternative fuels, including advanced biofuels (such as HTL or fast pyrolysis oils etc.), biogas, electrofuels, renewable fuels of non-biological origin and from recycled carbon fuels in the present and future energy mix. Special attention will be paid to electrofuels and electricity as energy carrier for the transport sector in the present and future expected energy mix. On-going issues related to co-processing of bio-feedstocks in oil refineries will also be considered.	2022-12-31	Technical Reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3023373	6	Alternative fuel for aviation: current developments and perspectives	The deliverable investigates the current developments and medium term perspectives for the use of alternative fuels in aviation. JRC supports DG MOVE, through an Administrative agreement, the technical activities of the ICAO CORSIA (Carbon Offsetting and Reduction Scheme for International Aviation). This includes co-leading the Fuel Technical Group (FTG), aiming to develop the methodology for the definition and computation of reference core LCA default values for existing and future alternative jet fuels pathways. This also includes the support to develop sustainability criteria for alternative aviation fuels. This deliverable will report the main outcomes of the work performed by JRC on this subject.	2021-12-31	Technical Reports	N
																	3023374	7	Assessing the contribution of alternative fuels to decarbonising waterborne transport	The deliverable provides an assessment of the potential use of alternative fuels, in waterborne transport (inland water and maritime shipping). Various options for alternative fuels are evaluated, in terms of the greenhouse gas emission reduction potential. The assessment is carried out used the methodology developed for REDII default values definition, and in line with the methodology developed for ICAO/CORSIA initiative. Aim of this deliverable is to quantify the potential of alternative fuels, as a tool towards the goals set for transport sector decarbonisation.	2022-12-31	Technical Reports	N
																	3023375	1	Assessment of the GHG emissions from renewable fuels of non-biological origin (RFNBOs) and recycled carbon fuels (RCFs)	The deliverable aims to investigate the potential contribution of existing bioenergy pathways and alternative fuels including existing biofuels, the renewable fuels of non-biological origin (RFNBOs) and recycled carbon fuels (RCFs) to decarbonising the transport sector. The assessment will rely on the quantification of the greenhouse gas emission savings based on the GHG emissions methodology developed for the RFNBOs (hydrogen, methanol, methane, ammonia and other transport fuels using renewable electricity) and RCFs (fuels produced from waste streams and exhaust gas of non-renewable origin). Aspects such as energy balance, feedstocks and resource efficiency and alternative uses of feedstocks are being addressed, along with the analysis of the impact of the assumptions on LCA factors (such as soil carbon) on the results.	2021-12-31	Technical Reports	N
																	3023383	8	Spatial analysis of bioenergy developments and impacts	The deliverable focuses on the assessment of the biomass potential for energy production considering marginal, degraded or low productivity lands that are not already used for food production, forestry, or other uses of social value for strengthening energy potential of marginal lands in Europe. Modelling of soil parameters will be used to analyse the impact of improved agricultural management techniques (e.g. fertilisation, erosion control, etc.) or the use of energy grasses or biochar addition on the soil organic carbon content as well as the bioenergy production.	2022-12-31	Journal contributions (Clarivate)	N
																	3023384	9	Assessing the spatial interactions between the renewable energy sources	The deliverable addresses sustainable bioenergy planning using Geographical Information System (GIS). This will focus on modelling the spatial interactions among the various renewable energy options. This deliverable will develop a planning methodology for sustainable decentralised electricity generation schemes based on the combination of renewable energies and bioenergy based on a GIS-based approach.	2022-12-31	Journal contributions (Clarivate)	N
1. A European Green Deal	1.3 Energy	20242	EE&BR	Energy Efficiency and Building Renovation	JRC.C.2	30293	EnEff&BL DG REN	Energy Efficiency and Building Renovation	The project is the key JRC scientific and technical support for ensuring fast and effective implementation of all energy efficiency-related aspects of the European Green Deal. Energy efficiency is a key component of the Green Deal. The focus of the project is on the support of EU energy efficiency policies, such as the Energy Efficiency Directive (EED), the Energy Performance of Buildings Directive (EPBD) and Smart Finance for Smart Buildings Initiative. The project includes energy efficiency in buildings in support of the Green Deal Renovation Wave, and energy efficiency in products and appliances in support to the Eco-design Directive, with specific focus on data centres and broadband communication. Support will be provided to the assessment of the Renovation component of the national recovery and resilience plans.	JRC.C.2	ENER	ENER JRC	CLIMA CNECT ENV JUST	2021-01-01	2027-12-31	CON-AA INS-RS	3003362	2	Assessment of impact of energy efficiency policies on energy consumption and energy savings	It is essential to identify the impact of EU and national energy efficiency policy on energy consumption and assess the energy savings due to policies. This can allow to evaluate the policy impact and give feedback to policy DGs in order to reinforce current policies or introduce additional policies. Different modelling approaches will be used, for example decomposition analysis, panel data and time series and other econometric tools, randomized control trials, difference in differences, ect.. This deliverable includes also the publication of the Annual Report on energy consumption trends in the EU. Assessment of Energy Efficiency policies and measures by Member States will be carried out according the different criteria: environmental effectiveness, economic effectiveness, transformative impact, distributional impact, governance, etc.This deliverable also provides support to the IPCC Asessment Report 6, Chapter 9 "Buildings" and Chapter 13 "Policies".	2022-12-31	Technical Reports	N
																	3003363	1	Codes of Conduct for Energy Efficiency in ICT	The project will further develop the voluntary initiative related to improving energy efficiency in ICT, for example in data centres, broadband communication, UPS, etc., in collaboration with key experts and industry. Data on energy performances of data centres and ICT equipment will be collected. Solutions to further improve energy efficiency will be identified. Attention will be paid to new technologies and their implication on energy consumption such as 5G, IoT, AI, Blockchain, etc.. Under this initiative support to the ITU WG on Energy Efficiency will be also provided	2022-12-31	Technical Reports	N
																	3003366	3	Financing Instruments for Building Renovation	The Green Deal proposes as a key action the energy renovation of existing buildings (Renovation Wave). A key barrier to the renovation is the lack of capital to invest, in particular in the residential sector. Several financing mechanisms are available such as grants, loans, tax deductions, utility incentives, green mortgages, on-bill financing, green bonds, ETS revenues. Some of these funds are made available through Energy Union funds (for example Structural Funds). In this deliverable the existing financing schemes at national and local level will be identified and assessed. Innovative financing schemes will be investigated and proposed. This deliverable will support the Commission initiative Smart Finance for Smart Buildings and the the Energy Efficiency Financial Institutions Group (EEFIG) established by DG ENER.	2021-12-31	Science for Policy reports	N

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																	3045954	6	EU Building Stock Model in Support of the Renovation Wave	This deliverable supports the Building Renovation Wave. Under this deliverable an estimation of the EU building stock at NUTS3 level for targeted building types will be developed in order to identify local contexts that should be prioritised for financing and technical support for energy renovation. Prioritisation will be based on buildings poor energy performances, households in energy poverty, and other contextual factors (such as climate, poor indoor air quality and safety needs). Particular focus will be on residential buildings (including social housing), schools and, where possible, hospitals. Additional investigated priorities would be based Covid-19 affected regions, in order to stimulate the economic recovery in these areas, and Coal Regions in Transition to stimulate local job conversion. Indicators for renovation costs and co-benefits will be identified. Environmental, economic and social impact will be calculated.	2022-11-30	Technical Reports	N
																	3046345	7	Understanding end-user's behaviour is relation to energy consumption and energy efficiency investments	This deliverable supports the implementation of the EU Green Deal, in particular the pillar of a just and inclusive energy transition. The focus is on end-use energy efficiency, being usually identified as a "win-win" solution that combines economic and environmental advancement. At the same time, a particular emphasis is given to the role of citizens, being these the major protagonists of the energy transition and the ultimate adopters of energy efficiency measures. First, an overview of the economic explanations of the rationale for energy-efficiency policy interventions is provided. Then, the limitations of the traditional economic approach to energy efficiency policy-making is presented together with an investigation of the latest findings from behavioural economics. Ultimately, these will serve as a framework to inform both the understanding of the barriers to energy efficiency, as well as the design of policy interventions, with focus on life style change and energy sufficiency.	2021-11-30	Science for Policy reports	N
1. A European Green Deal	1.3 Energy	20242	EE&BR	Energy Efficiency and Building Renovation	JRC.C.2	30297	H&C Markets	Heating and cooling markets	The heating and cooling sector consumes about half of the energy in the EU today, and it is still very reliant on fossil fuels with a share of about 75%. H&C Markets provides scientific and technical support for heating and cooling decarbonisation. The project is a key partner to ENER in supporting the implementation of the Energy Efficiency (Article 14 – efficiency in heating and cooling sector) and Renewable Energy Directives (Articles 23 and 24 – mainstreaming renewable energy in heating and cooling). In several consecutive AAs, H&C Markets has provided support by for example: preparing detailed guidelines on how to perform analyses or accounting of renewable energy or energy efficiency improvements; reviewing Member States' assessments and synthesised results and prepared recommendations, which later led to; (3) the update Directives and prepared Recommendations. H&C Markets also performs in-depth research on chosen topics, which are, or which are expected to become, important in the heating and cooling policy domain, e.g. power and heat sector integration.	JRC.C.7	ENER	ENER JRC	(blank)	2021-01-01	2027-12-31	CON-AA INS-RS	3006699	3	Follow-up activities related to Administrative Arrangement ENER/C1/2019-526	This deliverable follows up on activities, which could not be performed under Administrative Arrangement ENER/C1/2019-526 due to the coronavirus travel restrictions. It includes JRC preparatory work and participation in stakeholder consultations concerning the two deliverables on accounting of Waste Heat, and Efficient District heating and Cooling. Based on the outcomes from the stakeholder consultations, adaptations to the deliverables will be implemented as necessary.	2021-12-31	Technical Reports	N
																	3006700	1	Energy efficiency and renewable energy implementation strategies in the heating and cooling sector	This institutional deliverable concerns knowledge management oriented work like a brief or fact sheet on the main greening options in the heating and cooling sector. It will treat at least electrification, district heating and cooling, green gas and hydrogen. It will address the requirements for each option, the consequences, as well as their complementarity.	2021-12-31	Technical Reports	N
																	3018705	2	Support ENER to prepare guidance documents on energy performance in district heating systems	Within the framework of an AA, JRC supports ENER to prepare guidance documents on how the energy performance of district heating and cooling systems can be defined and reported. This includes the calculation of shares of renewable sources, waste heat, thermal losses, CO2 emissions of a local district heating network. The target audience are existing and potential customers of heat and cold from thermal networks. Existing standards under the Energy Performance of Buildings Directive will be taken into account. A labelling system will be considered.	2022-12-31	Technical Reports	N
																	3018706	4	Support ENER in the Review of comprehensive assessments to evaluate the potential for efficient heating and cooling following Article 14 of EED	Review of Member States' notifications of the Comprehensive Assessments related to Annex VIII of EED. It includes whether requirements were met, all necessary elements included, and particularly that sustainable heating and cooling potentials for high-efficiency cogeneration, efficient district heating and cooling and waste heat and cold were included. The conformity of these Comprehensive Assessments with the requirements of the Renewables Energy Directive will be evaluated as well.	2022-03-31	Technical Reports	N

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1. A European Green Deal	1.3 Energy	20246	SHYVA	Sustainable hydrogen value chains	JRC.C.1	30553	HYENA	HYdrogen tEchNology Assessment for a decarbonised and sustainable Europe	Hydrogen is a key instrument to achieve the Green Deal objectives. One of the aims, “Supplying clean, affordable and secure energy” explicitly mentions hydrogen’s role. Priority areas for the mobilisation of industry for a clean and circular economy EU industry include fuel cells, clean hydrogen and other alternative fuels. The Commission has published an overview of its open consultation on “Orientations towards the first Strategic Plan implementing the research and innovation framework programme Horizon Europe”. It emphasised the relevance of clean hydrogen as a cross-sectoral solution for decarbonisation. The aim to “strengthen the European value chain for low-carbon hydrogen and fuel cells” was included as a key R&I orientation. The Strategic Forum for Important Projects of Common European Interest (IPCEI) has identified hydrogen technologies and systems as a strategic key European industrial value chain appropriate for receiving support from member states. More generally, energy storage solutions including hydrogen have an essential role to play in the clean energy transition. This project is supporting the portfolio SHYVA by monitoring innovation and EU industry competitiveness through technology assessment. It is also contributing to the evaluation of the sustainability of hydrogen value chains and energy storage. A comprehensive technology monitoring and assessment of hydrogen technology options and energy storage solutions will give relevant information for decision making to policy makers and stakeholders.	JRC.C.1	ENER	JRC	COMP GROW MOVE RTD	2021-01-01	2022-12-31	CON-TW INS-RS	3006546	HYDIS	Overview of state-of-the-art of hydrogen storage and distribution	At present, hydrogen is distributed to the point of use either as compressed gaseous or liquid hydrogen by lorry and as compressed gaseous hydrogen by pipeline. The distribution of hydrogen through dedicated pipelines is cost effective, but numerous other options exist, including the conversion to hydrogen carriers. Apart from cost, the efficiency and environmental impact of the various distribution means will be examined. This work will provide input to modelling performed in other units, for example to investigate the trade-offs between centralised and distributed hydrogen production. The infrastructure needed for distributing hydrogen to the end-user (such as for industry or heavy duty transport) still needs to be developed, this report therefore also aims to inform future investments. The deliverable will also examine the feasibility of 100% hydrogen distribution through converted natural gas pipelines. An overview of the SoA and relevant parameters for assessment will be provided	2022-12-31	Science for Policy reports	N
																	3006783	HYTRANS	Report on sustainability of hydrogen technologies for the decarbonisation of heavy duty transport	The potential environmental benefit of using hydrogen (technologies) for the decarbonisation of transport is assessed for heavy duty vehicles and for the maritime sector. The technical feasibility will be covered as well. The annual reports will be based on the outcomes of two dedicated expert workshops. JRC is participating to two IEA TCPs, Task 39 and Task 41. Our participation in the task 39, in collaboration with FCH JU, is to inform to the members of the Task of the relevant EC regulations and initiatives for the decarbonisation of the maritime sector. In addition our participation to the Task 39 enables us to increase our knowledge on the maritime sector.	2022-12-31	Science for Policy reports	N
																	3007687	HYMOD	Technology Monitoring and Assessment of hydrogen technologies and pathways	Collection, review and assessment of technology parameters related to hydrogen technologies. In addition, the use of green hydrogen for industrial purposes will be covered. Assessment of SoA through review of literature, interaction with similar activities (e.g.: IEA) and public project deliverables. Input to modelling on technologies and pathways for IEA task 41. The results will be presented in tables with appropriate references, and the work summarized in a report.	2022-12-31	Technical Reports	N
																	3007688	HYIPCEI	Support to DG GROW and DG COMP for IPCEI Hydrogen strategic value chain	Provision of confidential assessments (upon the request of DG COMP or DG GROW) on the technical and scientific aspects of projects against the requirements on environmental benefits and/or innovativeness for eligibility as Important Projects of Common European Interest (IPCEI) and for state-aid.	2022-12-31	Technical Reports	N
																	3007689	FCH2JU	Contribution to FCH2JU	This is a cluster of deliverables supporting the Fuel Cells and Hydrogen second Joint Undertaking (FCH2JU) in setting and implementing its strategy, as well as providing assessment of its progress towards targets. The provision of reference data for the benchmarking of the European programme is a major component of the activity package. For the same overarching objective, JRC also performs a review of the annual progress based on data collection from projects. Topics such as PNR and standardisation strategies receive particular attention. Moreover,a set of reports on achievements of projects towards the overarching programme targets are produced for a number of key technologies. JRC performs analysis of all safety events produced in the frame of project execution. Furthermore, harmonisation of testing protocols, to allow for a coherent and comparable performance assessment of components such as fuel cells and electrolysers, is part of the activities.	2022-12-31	Technical Reports	N

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1. A European Green Deal	1.3 Energy	20246	SHYVA	Sustainable hydrogen value chains	JRC.C.1	30584	SPHy	Safety and Performance of Hydrogen systems and components	The Green Deal Strategy sees clean hydrogen and fuel cells as innovative, breakthrough technologies that will be instrumental in decarbonising the hard-to-abate industry and heavy transport sectors to meet the 2030 and 2050 targets. The aim of the SPHy project is to carry out experimental assessment of safety and performance of technologies such as hydrogen storage and delivery and to perform pre-normative research (PNR) for standardisation. Activities in this project comprise experimental testing, supplemented with knowledge management activities to assess the behaviour of systems and components under high pressure hydrogen as well as their compatibility with hydrogen. This is achieved by means of existing research infrastructure, the High Pressure Gas Testing Facility (GASTEF), which in-turn will be upgraded to address new technology priorities. Standardization of the methods to verify and validate the overall safety of the gaseous hydrogen infrastructure will be key to facilitating its market acceptance and integration into the overall global energy system. Results of SPHy project are fed into UNECE Regulation for hydrogen and fuel cell vehicle safety, in CEN-CLC/TC 268/WG 5 and in the relevant ISO TC197 working groups. Other important standardization activities are CEN-CENELEC/JTC 6/WG 1 on “Vocabulary of hydrogen in Energy System” and CEN-CENELEC/JTC 14/WG 5 dealing with hydrogen Guarantees of Origin to which this project is contributing.	JRC.C.1	GROW	GROW JRC	ENER MOVE RTD	2021-01-01	2022-12-31	CON-AA CON-TW INS-RS	3014499	UNGHRY	Scientific and technical analysis on topics relevant to Phase 2 of GTR on HFCV	Scientific support and advice to DG GROW to support the development of hydrogen safety provisions within the scope of Phase 2 of the UNECE GTR No. 13: - In agreement with GROW C.4, provision of S&T analysis as input to the Informal Working Group Meetings and, when relevant, will provide additional assessment on proposals made by other stakeholders. - When appropriate execution of experimental tests using GASTEF facility to address / corroborate technical issues relevant to the Phase 2 of the GTR No.13 and to verify suitability of the suggested test methods.	2021-06-15	Technical Reports	N
																	3014521	KIWA2021	Tests for KIWA NL BV	According to Contract number 34741: this deliverable consists in the execution of pneumatic cycling tests aiming at on-board hydrogen tank certification according to GTR No. 13, clause 5.1.3.2 and 5.1.3.3. Upon completion of the test campaign(s) JRC will issue a report to KIWA. The tests are performed according to demand of customer. When possible, in agreement with KIWA, experimental results will be published in co-authorship in in peer-reviewed scientific journals	2021-12-31	Technical Reports	N
																	3014584	SPHY01	Input to hydrogen technologies related standards	Contribution to European and international standardisation related to hydrogen. Activities include: Convenorship of CEN-CLC JTC 6 WG1 “Vocabulary of H2 in Energy System”, participation to CEN-CLC JTC14 WG 5 on revision EN16325 Guarantees of Origin to include hydrogen and follow up of SFEM WG Hydrogen. For hydrogen mobility and infrastructure follow-up of revision EN17127 (CEN TC 268 WG 5) and updates of ISO TC 197 related standards to include HDV as well as representing the Commission in the International Workshop on Hydrogen Infrastructure.” Whenever possible feeding results of in-house PNR to the drafting of standards	2022-12-29	Contributions to standards	N
																	3014611	SPHY02	Pre-normative research GASTEF	Experimental activities on components and systems behaviour under high pressure hydrogen. Hydrogen in gas-systems materials compatibility, permeation, hydrogen cycle behaviour and out-of-specification events. Assessment of novel conformable compressed hydrogen storage systems and type-approval protocols. Results of the related underpinning scientific work will be published in peer-reviewed scientific journal.	2022-12-31	Journal contributions (Scopus)	N
																	3014630	SPHY03	Future GASTEF	Feasibility report “GASTEF for future research programmes”: identification of research topics, stakeholders, assessment of different upgrade solutions, time framing and investment needs required to cover new technology priorities.	2021-12-15	Technical Reports	N
																	3014642	-lyOpenAcc	Open access to GASTEF for scientists and industry for R&D	This multi-annual deliverable will make available to researchers GASTEF facility. In collaboration with Dir A access will be granted through open calls and proposals will be evaluated by a Selection Panel, considering the priority topics defined by a Steering Committee. Depending on the proposal, the lab will provide technical assistance, testing of specimens, data acquisition, support in the use of analytical tools. The tangible outputs will consist of a series of reports containing results, methodology and experimental details for each of the selected access projects. If in agreement with the specific users, experimental results will be published in co-authorship in in peer-reviewed scientific journals.	2022-12-31	Technical Reports	N

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1. A European Green Deal	1.3 Energy	20246	SHYVA	Sustainable hydrogen value chains	JRC.C.1	30705	LUCERNE	eLectrolysis and fUel Cells for European gReeN dEal	Fuel cells, as an efficient energy conversion technology, and hydrogen, as a potential clean energy carrier, have great scope to help fight harmful emissions, to reduce carbon footprint, to decrease dependence on hydrocarbons as well as contribute to economic growth. Water electrolysis is a key technology for green production of hydrogen, also allowing for better integration of renewable energy sources in the EU energy system. Clean hydrogen will play a key role in the world's transition to a sustainable energy future. Electrolysis plays a key role in many scenarios for the widespread roll-out of clean hydrogen for heavy transport and industry. It can also contribute to energy storage. Clean hydrogen is also a priority area in the European Green Deal assuring clean and circular economy. Interest in electrolysis has increased recently, influenced by its potential to provide hydrogen with a very low associated carbon footprint as well as for electrolysers to provide services, such as load response management, to changing electricity grids. Demonstration projects are underway where electrolysers are connected to electricity and gas grids, but significant gaps remain in the knowledge of what electrolysers can ultimately achieve, at what cost, and where they may be most effective in meeting policy and market needs. Fit-for-purpose standards and harmonised testing protocols are required to assess performance, lifetime and durability of innovative hydrogen production systems. JRC has demonstrated for many years now its effective support to standardisation and harmonisation	JRC.C.1	RTD	JRC	ENER	2021-01-01	2022-12-31	INS-RS	3008041	LUCERNE2	Electrolyser set-up: installation and commissioning	The installation and the commissioning of an electrolyser set-up will be done according to LUCERNE1 deliverable.	2022-12-15	Technical Reports	N
																	3008042	LUCERNE3	Inputs to standardisation of fuel cells and electrolysis	The deliverable includes support to CEN/CLC (including under the Vienna Agreement/Frankfurt Agreement to ISO/IEC) on standardisation of fuel cells and electrolysers, energy labelling and hydrogen energy storage. The support will be provided via experimental work, through expert advice and upon request by CEN/CLC committee/Woking Group or policy DGs. The work will include development of electrolyser performance indicators, including operational standards development: JRC will contribute in particular to the development of testing methodology, measurement and test methods, data reporting, etc. The deliverable will also take stock of the experience and the knowledge acquired during the execution of the Ad-ASTRA project and will contribute to the JRC knowledge management mission in the field of high temperature fuel cell and electrolysis. If possible, results of the related underpinning scientific work will be published in peer-reviewed scientific journals.	2022-12-15	Technical Reports	N
																	3008043	LUCERNE4	Open access to FCTEST Lab for scientists and industry for R&D	This multi-annual deliverable will make available to researchers FCTEST facilities. In collaboration with Dir A, access to facilities will be granted through open calls. The received proposals are evaluated by JRC Laboratory Coordination Board. Depending on the accepted proposal, the FCTEST lab will provide technical assistance, testing of specimens, data acquisition, support in the use of analytical tools. The tangible outputs will consist of a series of reports containing results, methodology and experimental details for each of the selected projects. If in agreement with the specific users, experimental results are planned to be published in co-authorship in peer-reviewed scientific journals.	2022-12-15	Technical Reports	N
																	3008044	LUCERNE1	Electrolyser set-up: feasibility study	A feasibility study will be carried out to assess the procurement, installation and commissioning of 10-50 kW electrolyser tailored to the existing FCTEST facilities. The electrolyser will be coupled to a renewable energy source, such as PV panels and integrated in a complex system consisting of the necessary auxiliary equipment, e.g. DC-DC converter, compressor, hydrogen and energy storage systems, filling station, etc. The study will include the delivery of a Technical Installation Package describing the overall system requirements, including safety aspects. In addition a detailed cost forecasting and possible utilisation plan will be defined.	2021-12-15	Technical Reports	N

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1. A European Green Deal	1.3 Energy	20248	SAUBER	SAfe, high-performance, consumer-oriented and sUstainable BattERy value chain	JRC.C.1	30280	BATSY	Battery safety	The European Green Deal seeks a 90% reduction in GHG emissions related to transport by 2050 through a.o. wide-spread introduction of zero- and low-emission vehicles on European roads. To enhance consumer acceptance of electric vehicles, and of battery electric vehicles in particular, it is necessary to ensure that traction batteries are safe and that occupants are protected from potential hazards associated with lithium-ion batteries and/or other rechargeable energy storage systems (in particular, those containing flammable electrolyte). Safety of batteries for energy storage in stationary applications is of equally paramount importance. This science-based project contributes to the objectives of the Batteries portfolio to achieve European Union policy goals pertaining to safe and sustainable, low-carbon transport, stationary battery and energy storage by the following 3 lines of activities: (1) support towards safe and sustainable e-mobility, stationary battery energy storage and battery-related policy and international regulations; (2) harmonisation of standards for battery energy storage test methods to facilitate innovation; (3) underpinning innovation and EU industry's competitiveness through technology validation and stimulating commercialisation by enhancing safety and consumer acceptance. To achieve its objectives this project exploits JRC's independence as a warranty to ensure impartial and robust scientific support to battery-related standards, regulations and innovation.The knowledge, competences and experimental facilities of this project	JRC.C.1	GROW	GROW JRC	ENER ENV RTD	2021-01-01	2027-12-31	CON-AA CON-AA INS-RS	3002259	BATSY01	Annual report on thermal propagation to UNECE GTR on EVS	Scientific support and advice to DG GROW (co-chair) of the UNECE informal group on electric vehicle safety (EVS) set up by WP.29 to develop a UN Global Technical Regulation (GTR) covered by an administrative arrangement on thermal propagation and safety related aspects. An annual report/reports describing scientific research underpinning the development of a regulatory test method to demonstrate that potential risks to vehicle occupants associated with thermal propagation are appropriately minimised and/or provision of S&T analysis on proposals made by other stakeholders. Whenever possible, results of the underpinning scientific work will be published in peer-reviewed scientific journals. Recommendations on risk mitigation strategies will also be evaluated for relevant scenarios in stationary battery energy storage applications.	2021-12-31	Whole parts of policy documents	N
																	3018495	BATSY05	to be deleted	-	2021-12-31	Whole parts of policy documents	N
																	3018496	BATSY02	Support to development of safety requirements for stationary and EV batteries	This multi-annual deliverable provides direct S&T support demanded by DG GROW and DG ENV covering: a) Provision of expert technical advice on safety aspects of battery electric vehicles as well as batteries for stationary energy storage, b) Verification of selected testing procedures, c) Contributions to the development of the GTR. This work is based on the already established modus operandi adopted for the first phase of the EVS GTR and is complemented by the work covered by the AA on battery sustainability requirements. Results of the research performed enriches JRC's specific competences and knowledge in battery safety aspects and these are applied in other non-institutional projects. Whenever possible, results of the underpinning scientific work will be published in peer-reviewed scientific journals to enhance the advancement of scientific knowledge and safety practices in applications using energy storage technologies. Joint publications will be pursued to augment the novelty.	2022-12-31	Whole parts of policy documents	N
																	3018497	BATSY03	Support to standardisation activities of ISO, CEN/CENELEC Emobility coordination group	The project will support standardisation activities related to battery safety work, e.g. the ISO working group to develop ISO 6469 standard (amendment related to thermal propagation) and, where appropriate, the CEN/CENELEC Emobility coordination group/Working Group STD - 'Putting eMobility sciences into standard' to develop a standardisation strategy, to analyse gaps and to identify specific needs for standards and pre-normative research in these realms.	2021-12-31	Contributions to standards	N
1. A European Green Deal	1.3 Energy	20248	SAUBER	SAfe, high-performance, consumer-oriented and sUstainable BattERy value chain	JRC.C.1	30409	BAP	Battery performance	Batteries are a crucial component for decarbonisation both through electrification of transport and integration of renewable energy sources into the energy system. The battery sector is now dynamically growing, and is projected to increase from about 150 GWh (2018) to 500-700 GWh in 2025 to meet global demand. To be competitive in the global battery sector it is imperative for Europe to invest in developing a competitive and sustainable battery manufacturing sector including access to raw materials; support to technological innovation and battery cell production; development of end of life (EoL) procedures and criteria including collection after first use, qualification for eventual second life application; and finally recycling. We envisage a strong battery industry that contributes to the circular economy and clean mobility." For this purpose the European Battery Alliance has been launched and actions to support the objectives of the EBA are outlined in the Strategic Battery Action Plan (SBA). To support the shift to batteries for transport and energy storage, it is essential that consumers and policy makers have access to reliable information on their initial performance; how it can be expected to degrade with time and use; their actual state of health having been used and expected performance and durability in second use, if such second use is beneficial. The core of this project is developing methods to provide this information. This project provides support to initiatives of various EC	JRC.C.1	GROW	ENV JRC JRC	ENER ENV	2021-01-01	2027-12-31	CON-AA CON-IA CON-IA INS-PoC INS-RS	3002269	BAP01	Contribution to the Battery Sustainability Regulation	This deliverable includes support to the Battery Sustainability Regulation, which will replace and extend the currently revised Waste Batteries Directive 2006/66/EC (pending formal request for support from DG ENV/GROW) and entails support to the establishment of second use and recycling practices including regulatory framework for batteries at the end of their (first) use and to the setting of sustainability requirements for batteries (possibly incl. support to the development of a related standard/test procedure). This deliverable in particular covers the requirements for batteries performance and durability, but also the procedure of determining the state of health of the battery after it has been withdrawn from its first use, including determination of its expected performance and durability in the second use application. Whenever possible, results of the underpinning scientific work will be published in peer-reviewed scientific journals.	2021-12-31	Technical Reports	N
																	3019488	BAP02	Commissioning of Turn-key laboratory for battery testing	The battery testing laboratory is extended by capabilities of testing the modules and battery packs (up to 150 kWh capacity), made in current Li-ion technology, but also future post Li-ion designs. The new part of the lab will allow for performance and durability measurements (battery cyclers, climate chambers, X-ray computed tomography), but also safety related tests (abuse testing incl. gas analysis). The contract for such laboratory extension has been signed and the building adaptation works should conclude in 2021. The installation of the new equipment and commissioning of the new laboratory will start in 2021.	2021-12-31	Technical Reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3019489	BAP03	Support to Batteries Europe and the European Battery Alliance	Contribution to the implementation of R&I activities though Battery Europe (European Technology and Innovation Platform, ETIP, on batteries). JRC will support with technical competences in different working groups and in coordination.	2021-12-31	Technical Reports	N
																	3019490	BAP04	Research work programme and report of investigations on factors influencing battery performance and ageing	Research work to improve a science-based understanding of the fundamental processes which affect battery performance and durability (e.g. through material characterization for degradation monitoring) and to generate scientific data for supporting standardization. This deliverable include also the contribution to the H2020 competitive projects, LiBForSecUse and CarEservice. This includes the evaluation of how mechanical integrity changes (arising from charge/environmental cycling) can affect battery performance and life-time, development of SoH determination method of the used batteries and development of the procedure to determine expected performance and lifetime in the second use application. This deliverable includes the research work programme elaborated to address the scientific needs and will describe JRC's dedicated research and findings on this topic. Whenever possible, results of the related underpinning scientific work will be published in peer-reviewed scientific journals.	2022-12-31	Technical Reports	N
																	3109307	BAP05	Delivery of Proof of Concept for measurement of Mechano-Electrochemical Impedance of Batteries	This deliverable covers the output of the Proof of Concept project "Mechano-Electrochemical Impedance of Batteries – A novel technique for better performing and longer lasting batteries".	2022-09-30	Technical Reports	N
1. A European Green Deal	1.3 Energy	20248	SAUBER	SAfe, high-performance, consumer-oriented and sUstainable BattERy value chain	JRC.C.1	30410	TMAB	Technology monitoring and assessment for batteries	In accordance with the Paris Agreement and the European Green Deal announced in December 2019, Europe has to move towards a clean, circular economy, which requires rolling out cleaner, cheaper and healthier forms of private and public transport and decarbonising the energy sector. In this context electrification has a key role to play in decarbonisation of the energy system by 2050 and batteries have been identified as a key enabling energy storage technology. Knowledge about performance and performance degradation of batteries and the expected development of such performance with the advent of improved batteries and battery technologies is important. These performance/degradation parameters are key input parameters to models describing Europe's energy system, which - if properly applied - will facilitate well-informed policy decisions.	JRC.C.1	ENER	JRC	CNECT GROW RTD	2021-01-01	2027-12-31	INS-RS	3002251	TMAB01	Assessment of state of the art of battery technology	Assessment of commercial and/or technological state of the art of battery technologies (incl. technologies that have been demonstrated). State-of-the-art data will be presented/provided in a way facilitating use for policy purposes (such as input into models supporting impact assessments).	2022-06-30	Technical Reports	N
																	3020896	TMAB02	Assessment of future battery technologies	Many different battery technologies are currently discussed as future replacement of Li-ion batteries. This assessment will give an overview of state-of-the-art and potential of the most promising battery technologies and assess the potential relevance of these technologies for key applications.	2022-12-31	Technical Reports	N
1. A European Green Deal	1.3 Energy	20250	ELECTRICITY 4EU	Electrification and Smart Energy Sector Integration	JRC.C.3	30282	SIRS	Sector Integration and Regulatory Sandboxes	Smart integration of the electricity, decarbonised gases, heating, transport, industry and agriculture sectors is going to be a key enabler for achieving the long-term decarbonisation goals of the EU in an efficient manner, while improving overall system's flexibility and reliability. Novel technologies, such as Power-to-Gas, Thermal Energy Storage, synthetic fuels, and proliferation of Demand Response, among others by utilising the thermal inertia of buildings, and smart charging of electric vehicles, permit the development of an integrated energy system where Renewable Energy Sources (RES) will be the predominant supply source. Decarbonisation of the energy system, mainly through electrification and variable RES-e supply will require, among others, significant deployment of electricity storage with seasonal characteristics. However, the currently available technologies of electricity storage with seasonal characteristics either face significant environmental constraints (e.g. hydro) or they are in relatively low technological readiness level with high investment costs and low efficiencies (e.g. hydrogen). While the EC has commissioned already a series of modelling studies on energy sector integration, they have either a long-term perspective with low temporal granularity, incapable of capturing the flexibility needs of an integrated energy system in a detailed way, e.g. the Asset study, or they concentrate on a target year failing to assess the trade-offs implied under different pathways of sectorial integration, e.g. the METIS studies. This project aims at covering this gap by examining different pathways of energy sector integration options	JRC.C.3	ENER	ENER JRC	(blank)	2021-01-01	2022-12-31	CON-AA INS-UR	3017101	D1	Sectoral integration pathways based on electrification	This Report will summarise the results of modelling sectoral integration pathways for a horizon 2030-2050	2021-12-31	Technical Reports	N
																	3017186	D2	Sectoral integration pathways based on electrification: Investment needs, market signals and regulatory distortions	This Report will summarise the results of the analysis on investment needs, market signals, and necessary additional financial support. A preliminary investigation of the impact of market distortions due to non-level playing field regarding taxes, levies and network tariffs between different energy carriers will be also included.	2022-12-31	Science for Policy reports	N
																	3020339	D3	Regulatory sandboxes for smart sector integration	This report will summarise the results on the investigation on regulatory experimentation (regulatory sandboxes) in Europe in the area of sector integration and storage deployment	2022-12-31	Science for Policy reports	N

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1. A European Green Deal	1.3 Energy	20250	ELECTRICITY 4EU	Electrification and Smart Energy Sector Integration	JRC.C.3	30283	DEILL	Digital energy interoperability & Living labs	Industry consortia have put forward communication stacks at hard-/soft-ware level, to enable integration of distributed energy resources (DER) in electric grids, incl. electricity storage- and management-systems (ESS, EMS) and all manageable loads, also electric vehicles (EV) on charging stations (EVSE). Due to strategic importance, first products were pre-normatively tested by JRC's Interoperability Centre for EVs, Smart Homes & Smart Grids and its collaborating partner labs ELaad (NL) and ANL (U.S.) since 2015. Used were e.g., OpenADR for grid messages, OCPP (by Open Charge Alliance) and EEBUS for vehicle-to-grid integration (VGI). Now JRC should support the harmonization chance of IEC developing a new global standard IEC63110 (on management of EV charging/discharging infrastructure), based on standard ISO15118 for EVSE-EV interoperability, and favourably seen by CEN/CENELEC and the EC. IEC via Joint Working Groups 1&11 will distil solutions for VGI, combine strengths of various former ones, and integrate cyber-security. This will use JRC-advocated smart-grid (SG) architecture models for component- and information-layers, seeing VGI as part of a larger task to integrate any DER by a safe internet-of-things (IoT) approach. DEILL is also invited and geared to help in IEC's TC69 & TC57 on electromagnetic compatibility, safety and protocols for any EV-charger type, and can support work in distributed power systems and SG (e.g. IEC 61850-7-420 on DER object models, or IEC's WG9 on a future standard IEC63119 relevant for EV-roaming). In all this, DEILL's team applies its testing methodological strengths (both	JRC.C.3	ENER	JRC	CNECT GROW MOVE RTD	2021-01-01	2022-12-31	INS-UR	3055400	1	Annual Report of the Smart Grid interoperability Laboratory 2020	The Annual Report will describe the laboratory, including layout, devices, instruments, experiments, web-activities, objectives and achievements. This deliverable will be an informative report on the laboratories equipment and activities and should serve as a handbook (for labs, industry, research centers, who need well summarized information about the capabilities, testing possibilities and pre-normative research role of the Smart Grid Interoperability Lab)	2021-04-16	Technical Reports	N
																	3060145	2	Annual Report of the Smart Grid interoperability Laboratory 2021	The Annual Report will describe the laboratory, including layout, devices, instruments, experiments, web-activities, objectives and achievements. This deliverable will be an informative report on the laboratories equipment and activities and should serve as a handbook (for labs, industry, research centers, who need well summarized information about the capabilities, testing possibilities and pre-normative research role of the Smart Grid Interoperability Lab)	2022-04-15	Technical Reports	N
																	3060146	3	Progress Report of the DES-Lab experimentation in Ispra and Petten	Description of the progress of the Living Lab for Testing Digital Energy Solutions at the JRC-Ispra and Petten sites with an outline of the elements achieved. The deliverable will be based on the work of the JRC collaborating teams and will benefit from the support of external experts and first user experience.	2021-12-31	Technical Reports	N
																	3060185	4	Final Report with the achievements of the DES-Lab in Ispra and Petten	Description of the achievements of the Living Lab for Testing Digital Energy Solutions at the JRC-Ispra and Petten sites with details of the results achieved. The deliverable will be based on the work of the JRC collaborating teams and will benefit from the support of external experts. Important for knowledge transfer to e.g., urban planners, city administration technical experts, etc.	2022-12-31	Technical Reports	N
																	3062194	5	Peer-reviewed publication on wireless charging pre-normative research results	A peer-reviewed publication on wireless charging pre-normative research results will show the support to standardization in this application field, which the project DEILL is producing. This deliverable is directly relevant part of DEILL's help to customer DGs (like DG MOVE) in their policy conception for making wireless charging safe, reliable and interoperable.	2021-12-31	Journal contributions (Clarivate)	N
																	3062195	6	Report about technical aspects of Fast Chargers standardization	This Report about technical aspects of Fast Chargers standardization shall respond to needs of DG MOVE on Fast Charging (High-Power) infrastructure for e-buses. Aspects of efficiency, interoperability and grid embedding are summarised, and project DEILL's comments on technical minimum requirements for such chargers are summarized as a citable resource for policy DGs.	2021-06-30	Science for Policy reports	N
1. A European Green Deal	1.3 Energy	20250	ELECTRICITY 4EU	Electrification and Smart Energy Sector Integration	JRC.C.3	30284	EMTD	Electricity Market, Transmission and Distribution	The European strategic long-term vision (A Clean Planet for all) for a prosperous, modern, competitive and climate neutral economy states that "electrification is crucial to achieve carbon neutrality by 2050" and it anticipates that "the deployment of renewable energy will drive a large-scale electrification of the energy system, be it at the level of end-users – such as energy use in industry, buildings or transport – or to produce carbon-free fuels and feedstock for industry. The power sector will thus become a central element for the transformation of other economic sectors." This is confirmed by the Green Deal Strategy, which highlights the importance of a fully integrated, well-functioning, interconnected and digitalised European energy market, also in the context of ensuring a secure, sustainable and affordable energy supply.	JRC.C.3	ENER	ENER ENER JRC	CLIMA COMP ECFIN GROW REFORM RTD SG	2021-01-01	2025-12-31	CON-AA CON-AA INS-RS	3014228	2	DINEMO release	This deliverable will consist in an improved version of the existing IT platform hosted on the website ses.jrc.ec.europa.eu. It will allow researchers on distribution grids to cooperate on complementary simulations, and it will improve the current user experience. A new data layers (GIS) will be integrated in DiNeMo in order to make the resulting models more and more realistic. It will be part of a single platform for which the team is involved in the preparatory work, named PANTERA, which will include all the relevant information on Smart Grids in Europe.	2021-11-30	Technical systems	N
																	3014400	3	Citizens Energy Communities: a socio-technical analysis	A socio technical insight on citizen energy Communities from EU research and innovation projects included in the JRC smart grid database.	2021-12-15	Journal contributions (Scopus)	N
																	3014402	5	DSO Observatory 2022	This will be the 4th edition of the DSO Observatory. Its role is crucial in collecting and analysing data on the European Distribution System Operators. Such data are used by the Distribution System Operators and by their associations in order to have a benchmark of their efficiency, of their investment plans, of their technical data. The report will include information on the future organisation of DSOs (so-called "DSO Entity") that should be formed according to the Clean Energy for all Europeans legislative package.	2022-11-30	Science for Policy reports	N
																	3014481	6	Nodal pricing in Europe	This is the PhD thesis of Luca Jansen	2022-12-31	PhD theses	N

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1. A European Green Deal	1.3 Energy	20250	ELECTRICITY 4EU	Electrification and Smart Energy Sector Integration	JRC.C.3	30285	CROSSRES	System Resilience and Security of Supply	This project tackles the challenges for designing a power system resilient to the emerging threats. Electricity security, generally referring to a system's capability to provide electricity to its users, encompasses largely different properties based upon the time/geographical scales of the factors affecting electricity delivery; it is challenged by threats surfacing in spheres far beyond the physical one; it involves a myriad of stakeholders spanning manifold disciplines and with considerably different expectations from the electricity commodity or service. The broad fields of knowledge needed in this project is related with the following areas of knowledge: - Energy security of supply. In particular risk preparedness regulation and regulation concerning measures to safeguard the security of gas supply. - Electricity markets: network codes, guidelines and electricity market directive and regulation. - Natural hazards, cyberattacks, risk assessments, civil protection mechanism. The JRC is very well positioned as it is in the front line of research in the several fields covered by this project and requested by DG Energy. Not so many research institutions can covered the number of topics addressed in this project, with a policy orientation and with an European perspective. The project is fundamental for the project portfolio as the electrification of several energy uses such as heating and transport, the gas and electricity sector coupling and the digitalisation need new ways of protection for the electricity system and the essential services that electricity supply and will supply in the	JRC.C.3	ENER	ENER JRC	(blank)	2021-01-01	2023-12-31	CON-AA INS-RS	3016342	02	Concept paper on simulation crisis exercises	Review of existing practices on simulations of crisis scenarios in the electricity sector	2022-02-28	Technical Reports	N
																	3108437	ID4	Technical and economic elements to facilitate the mutual assistance under articles 12 and 15 of Regulation 2019/941 on risk preparedness in the electricity sector	Review of existing practices on simulations of crisis scenarios in the electricity	2021-02-28	Technical Reports	N
1. A European Green Deal	1.3 Energy	20250	ELECTRICITY 4EU	Electrification and Smart Energy Sector Integration	JRC.C.3	30347	AMuST	Analysing the multi-sectoral transition to low carbon infrastructure	As we move closer to a renewables dependent power (and energy system) along the lines of the European Green Deal the challenges posed by the variability of wind and solar will become more accute and will intensify the need for policy assessment based on analysis that can quantify: - the potential offered by sector integration to balance the system effectively and efficiently - the type of investments needed and the budget required - the impact on the wholesale market prices and the consumers' bills - the market design principles the can facilitate the realisation of investments to the benefit of consumers The above can be answered by modelling tools such as METIS that can model the different markets in different sectors by the hour accounting for the variability of weather and considering different weather patterns in multiple climatic years.	JRC.C.7	ENER	ENER ENER	CLIMA	2021-01-01	2027-12-31	CON-AA CON-AA INS-RS	3017329	D2	Analysis of the potential of demand side response enabled by digitalisation	This study or group of studies could analyse the following based on commonly agreed assumptions with DG ENER: Benefits (and risks stemming from) digitalisation of the energy system (especially electricity). Scenarios to be developed would reflect full deployment and use of smart meters, broad deployment of intelligent electricity-consuming devices, broad deployment and smart use of storage (including in electric vehicles), use of big data in power sector to anticipate VREs production and peak load, broad deployment of aggregators and other items that are possible to capture. Intermediate scenarios might need to be necessary to illustrate gradual deployment. This study is prescribed in the technical annex of the AA35269. A go - ahead decision or a re-definition according to new priorities will take place early in 2021.	2021-11-30	Technical Reports	N
																	3017330	D1	Development of the model including new contexts and datasets used therein	The development of new contexts of policy relevance. Part of this work could be dedicated to expanding and improving the datasets used in the model to more accurately predict the effects of weather variability on the power and gas system, as well as expanding the linkage of METIS with other models and creating more informed estimations of future demand profiles by disaggregating demand.	2021-11-30	Technical Reports	N
																	3019399	D3	Infrastructure required to balance a renewables - based power system	This deliverable will analyse the infrastructure needed to balance a renewables-based power system in a LTS compatible 2030 – 2050 scenarios. Cost benefit assessments will be conducted on Infrastructure such as power interconnectors, short term electricity storage, hydrogen transmission and storage.Multiple scenarios under different decentralisation vs interconnection assumptions may be analysed depending on the availability of the relevant information. This deliverable bears direct relevance to the European Green Deal and will include one or more technical reports based on varying assumptions regarding the electrification path.	2021-11-30	Technical Reports	N
																	3019734	D4	Electrolyser integration approaches	Alternative approaches for integrating electrolysers into the future power system (2030 onwards) will be investigated. At least two approaches, the first considering direct linkage to renewable installations and the second considering direct participation into the day ahead power market will be considered.	2022-11-30	Technical Reports	N
																	3050731	D5	Development of the model including new contexts and datasets from multiple sectors	The development of new contexts of policy relevance base on future scenarios of the energy system. At this time it is expected that the model will have integrated more energy carriers (beyond the current power and gas). Existing linkage to energy models will be expanded to integrate the enhanced scope into METIS.	2022-11-30	Technical Reports	N
																	3052613	D6	Assessment of the current market design in a post 2030 power system.	This work will involve comparing the adequacy indicators and the generator income in one or more post-2030 scenarios to the current power system. The analysis will provide insight on how the balance between generator and consumer surplus is expected to shift with the gradual introduction of renewables and the retirement of thermal and nuclear capacity. Alternative options and policies will be examined to restore income in case findings point to significant deficits.	2022-11-30	Technical Reports	N

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1. A European Green Deal	1.3 Energy	20250	ELECTRICITY 4EU	Electrification and Smart Energy Sector Integration	JRC.C.3	31400	JRC-EIRIE	JRC European Interconnection for Research Innovation & Entrepreneurship	The Political Guidelines of the new European Commission emphasise the urgency to address the challenges of climate change and the transformations brought about by digital technologies that are deeply affecting European societies and economies. While the European Green Deal will assure full commitment to making Europe the first climate-neutral continent by 2050 and to raising the 2030 emission reduction target to at least 50%, A Europe fit for the Digital Age will ensure that Europe grasps the potential of the digital age and of digital technologies to provide solutions to societal challenges. The twin climate and digital transitions will thus be two key issues on the Commission's agenda 2019-2024, with decarbonisation, digitalisation, decentralisation and their impact on European citizens as pivotal elements. In this light, education, research and innovation will be key enablers of the EU's ability to lead in the transition to a climate-neutral economy and new digital age . This, in turn, would contribute to the delivery of United Nations Sustainable Development Goals. Within this context, the process of electrification of the energy system and its digitalisation are paramount. Combining widespread electrification and digital technologies with renewable power can in fact become a central pillar for the development of smart cities, fostering energy efficiency, improvement in urban areas, sustainable mobility systems, and innovative sustainability-related consumer-centered services.	JRC.C.3	ENER	ENER JRC	JRC	2021-01-01	2024-12-31	CON-AA INS-RS	3091572	20	EIRIE platform progress report 2021	Progress report on the status of the EIRIE platform	2021-12-31	Technical Reports	N
																	3091573	30	EIRIE Progress report 2022	Progress report on the status of the EIRIE platform - 2022	2022-12-31	Technical Reports	N
																	3091574	40	SESI website revamp and EIRIE integration	Revamp of the SESI website, including integration of the EIRIE platform	2022-03-31	Sci information systems and databases	N
																	3091575	50	EIRIE Platform	A functioning EIRIE platform with a preliminary set of features and data sets. This version might not have all the functionalities that will be included in the final version.	2021-12-31	Sci information systems and databases	N
																	3091576	10	2022 Smart Grids Outlook report	This is the 2022 update of the Smart Grids Outlook report.	2022-12-31	Science for Policy reports	N
																	3095460	35	Di.Ne.Mo port to Drupal 8 and integration in the EIRIE platform	The Di.Ne.Mo. tool is currently hosted on the SESI website. As part of the revamp of the website and the integration of the EIRIE platform, Di.Ne.Mo. will be ported to Drupal 8 and integrated in EIRIE.	2022-03-31	Sci information systems and databases	N
																	3095461	36	Di.Ne.Mo. port and integration report	Brief report on the work carried out in deliverable 35	2022-03-31	Technical Reports	N
																	3095462	15	Residential Load Simulator (resLoadSim)	resLoadSim is a tool for residential electric load simulation developed within the Smart Electricity Systems and Interoperability project. The tool allows prediction of residential electric loads with a time resolution of 1 minute. It uses a probabilistic approach based on statistics to predict the electric load profiles of individual households by summing up the consumption of individual household appliances. Besides using the tool for load prediction, it is also possible to study the potential for load shifting in private households by implementing different control mechanisms, for example, based on variable pricing. Within this activity we plan to develop a Web-Interface for resLoadSIM and to integrate it in the EIRIE platform.	2022-03-31	Sci information systems and databases	N
																	3095463	16	Residential Load Simulator report	Technical report on the activities of deliverable 15.	2022-03-31	Technical Reports	N
																	3095464	25	Smart Grids Laboratories inventory map	The Smart Grid Laboratories Inventory is an activity started in 2015 and updated twice before 2020. This new activity will continue collecting information about the smart grid topics of research, the technologies and the standards used by European and international organizations that carry out smart grid activities at a laboratory level. For this purpose we will update the existing online questionnaire and distributes to the respective stakeholders. The activity will be completed with a report presenting aggregated results, providing an insight into the state-of-the-art regarding the smart grid laboratories activities. The previous release of the Smart Grid Laboratories Inventory in 2019 had gathered feedback from 89 labs worldwide, 69 are located in Europe and 20 outside. The report will contribute to analysing the trends in the smart grid field, thus constituting a valuable tool for identifying the technological gaps and guiding future funding programs.	2021-12-31	Technical Reports	N
																	3095465	26	Smart Grids Laboratories inventory map visualization tool	This deliverable is a visualization tool based on a database of data collected in deliverable 25. The tool will allow users to consult and visualize data in a using a map and other web-based tools. The map and the tools will be integrated in the EIRIE platform.	2022-03-31	Technical Reports	N
																	3100047	60	EIRIE Progress Report 2023	EIRIE Progress Report 2023	2023-12-31	Technical Reports	N
																	3100048	70	Final EIRIE report	This is the final report on the EIRIE platform	2024-12-31	Technical Reports	N

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1. A European Green Deal	1.3 Energy	20250	ELECTRICITY 4EU	Electrification and Smart Energy Sector Integration	JRC.C.3	31600	OptiRELS	Optimisation-Based Calibration of Residential Electric Load Simulation	The OptiRELS project contributes to the Exploratory Research (ER) Programme. The main goal of the OptiRELS project is to develop a new optimisation-based calibration framework to enhance the efficiency of building energy systems by increasing the accuracy of the Residential Load Simulator, resLoadSIM. The framework consists of integrating resLoadSIM and the generic optimisation tool, GenOpt to optimise the parametric input setup assumptions for the household load simulation model. Such a framework will allow resLoadSIM to predict residential electric load more accurately for different European countries, leading to its extended applicability and reliability. Using energy more efficiently and, thereby, consuming less, can lower energy bills, help protect the environment, mitigate climate change, provide energy security, and eventually improve quality of life. The main goal of the ER project OptiRELS is to develop an optimisation-based calibration framework for resLoadSIM to allow the validation of the method for various European countries.	JRC.C.3	ENER	JRC	COMP	2021-05-16	2023-05-15	INS-ER	3108211	02	Source Code	The code written in integrating the resLoadSIM and GenOpt. The source code will be delivered as a plain text document. Accompanied by tests, logs and results files.	2023-02-16	Sci information systems and databases	N
																	3108212	03	Final report	A full description of the research outcome, a literature review summary, detailed methodology with information on the process of integrating resLoadSIM and GenOpt. The results, the validation process, discussion, lesson learn, evaluation of the solution and any limitations found.	2023-04-16	Technical Reports	N
																	3108214	01	Technical Description	A clear description of the proposed solution, including a summary of current research and development around optimisation-based calibration, the technical specifications and architecture of the proposed framework, and an analysis of the software to ensure that they meet the planned design and behave as intended with some initial results.	2022-04-16	Technical Reports	N
1. A European Green Deal	1.3 Energy	20252	Gas	Secure, green and competitive gas	JRC.C.3	30287	OPTIONS	Options and barriers to energy sector integration via gases	Methane in its different forms (natural gas, bio-gas, bio-methane), Hydrogen and syngas (mixture of H2, CO and CO2) produced from different sources, and particularly the ones produced from renewable sources, may play an important role in the transition to a climate neutral economy. Nowadays there is a large number of technologies and processes for producing them. Nevertheless, the maturity of their technologies, their production costs, point to which they are carbon-free, limitations and added costs to inject them into the natural gas network, and possible regulatory barriers that may prevent a level playing field may jeopardise their contribution to achieve climate targets. An in-depth analysis of all these potential technological options and obstacles has to be performed to understand limits and opportunities that gases may provide to decarbonise the energy sector.	JRC.C.3	ENER	JRC	GROW RTD	2021-01-01	2022-12-31	INS-RS	3022303	PTIONS21(	Database on technologies for energy sector integration via gases and natural gas decarbonisation.	This deliverable will consist in developing a database with all available information about technologies and projects for energy sector integration via gases (biogas, bio-methane, syngas, H2). We will also collect data and information about the options to decarbonise natural gas itself by increasing efficiency of existing plants and smarter use of new plants. The idea is to make a broad data collection about technological characteristics, efficiencies, costs, associated GHG emissions per unit of energy delivered, including estimates for the future until 2050 and considering uncertainty ranges. The search should be done not only in the EU but world-wide, paying special attention to developments in USA and Japan. This would be the source of data for other projects like FUTUREGAS, related to modelling of possible futures and effectiveness to reduce GHG emissions while satisfying EU energy demand.	2021-11-30	Technical Reports	N
																	3022890	PTIONS22(	Identification of regulatory barriers for sector integation via gases	This deliverable will contain the results of a broad review of national legislation. The target is to identify possible barriers to sectoral integration via gases and to the decarbonisation of natural gas. Attention will be paid to the existence or not of adequate pricing mechanisms for emissions, diffculties to get permits, tariffs for accessing infrastructure, regional inconsistencies, among others. If deemed necessary, an updated version of DEL01 will also be done.	2022-12-10	Technical Reports	N
1. A European Green Deal	1.3 Energy	20252	Gas	Secure, green and competitive gas	JRC.C.3	30288	CBAE-PCI2021	Assessment and financing of energy infrastructure in the Green Deal	In the investment plan of the European Green Deal, the financing of energy infrastructure projects is highlighted as a crucial measure for facilitating the energy transition. In this context, certain energy infrastructure projects will require support, thus, methodologies and analysis is required to identify those projects and rank them. This project develops and implements methodologies for assessing infrastructure proposals, regulations and directives at the global, European, national and regional level. Furthermore, it monitors the implementation of projects, and provides support to various stakeholders. For example, support is provided for the update of the TEN-E Regulation (Regulation EU 347/2013), and the evaluation of the Projects of European Common Interest. Furthermore, security of energy supply will be a main consideration in all analysis. The project will support the identification of infrastructure projects that can provide immediate positive impacts in the context of the post-COVID-19 recovery plan. The project will also address the international dimension of energy infrastructure, for example geopolitical considerations, trade agreements, hybrid threats, European strategic autonomy etc. For this, collaborations with other JRC portfolios will be established, for example EU-HT. This work will be mostly relevant for DG ENER, DG DEVCO and the EEAS.This anticipatory work will be mostly relevant for DG ENER, DG DEVCO and the EEAS.Finally, the project will also include JRC's participation in the H2020 project EVIDENT "Behavioral Insights and Effective Energy Policy Actions".	JRC.C.3	ENER	ENER RTD JRC	COMP GROW	2021-01-01	2022-12-31	CON-AA CON-IA INS-RS	3006073	:BAE20220	Energy infrastructure investments within the Green Deal	This report will provide the state-of-play of energy infrastructure investments within the context of the Green Deal. In particular, it will provide a monitoring of the implementation of the (updated) Directives and Regulations, and of energy Projects of Common Interest. The report will further provide methodologies for monitoring and recommendations for corrective actions, with a focus on the 6th list of Projects of Common Interest, expected in 2023 Q4. Furthermore, the report will address issues related to international energy investments, such as strategic autonomy, hybrid threats etc.	2022-12-30	Science for Policy reports	N
																	3051443	:BAE20220	Considerations for identifying Projects of Common Interest	This report will proposed improvements in the methodologies used for assessing the energy Projects of Common Interest in preparation of the 2023 list. It will be based on the deliverable(s) of the previous year (2021), JRC's ongoing scientific work, and ACER's relevant monitoring report.	2022-12-30	Technical Reports	N
																	3082349	:BAE20220	Econometric analysis and dissemination plan for H2020 – EVIDENT	This report will describe the support provided for the H2020 – EVIDENT experiments, the econometric analysis, stakeholder engagement and the dissemination plan and activities.	2022-11-30	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.3 Energy	20252	Gas	Secure, green and competitive gas	JRC.C.3	30289	FUTURE GAS	Exploration of possible futures of gases in the EU energy system	In the framework of the European Green Deal, reaching climate neutrality in Europe, will require the decarbonization of the energy sector. Different studies developed recently by the EC (such as the 2050 Long Term Strategy), research centres and academia indicate that a number of options for the energy systems are still open at the EU for the next 30 years. Most of these studies are done with different energy system models with coarse granularity (typically one node per country, very coarse market representation, etc.).	JRC.C.3	ENER	JRC	CLIMA	2021-01-01	2022-12-31	INS-RS	3017831	UREGAS2(	Analysis of the contribution of renewable gases to the decarbonisation of the energy system up to 2050	This study will extend the analysis of the previous deliverable until 2050 and, using an energy system model, will assess the options for progressively reaching a full decarbonisation of the gas system, according to expected technology and cost improvements. Several modelling tools are under consideration and links with POTEnCIA will also be explored.	2022-12-09	Science for Policy reports	N
																	3017832	UREGAS2(	Analysis of use of renewable gases to reduce GHG emissions of the gas system in 2030	Through the European Green Deal, the EU will become climate-neutral by 2050. To reach this target, decarbonisation of the energy sector should be achieved. We study, using an energy system model, for the year 2030, how the targets of reduction in GHG emissions could be reached for the gas system. Among the options to be studied are: -Efficient use of the natural gas, by replacing for instance the large gas-fired power plants with an efficiency of around 45% by smaller (100 MW) gas fired CHP having an efficiency close to 90%; -Introducing in the natural gas system renewable gases, in particular bio-methane and/or hydrogen. Uncertainty analysis will be performed to account for the variability of the GHG emissions based on the variability of the production and injection costs of the different options and of their percentage in the gas system. Other sources of uncertainties may be taken into account. The source of data for those new technologies will be mainly the 30287 OPTIONS project	2021-12-10	Science for Policy reports	N
1. A European Green Deal	1.3 Energy	20252	Gas	Secure, green and competitive gas	JRC.C.3	30290	METHAN E	Methane emissions monitoring and abatement	The European Commission and member states have a special interest in seriously considering methane emissions in the context of the decarbonisation goals of the Green Deal for Europe, and in light of the global efforts for dealing with this topic. Methane (main component of natural gas) is a shorter lived, but more effective (IPCC CO2 equivalent in the low 20x) greenhouse gas than CO2. In the energy sector, Methane emissions come from coal, oil and natural gas production, transport and use. The natural gas industry since a long time is working on reducing natural gas emissions via LDAR (leak detection and repair) programs, to reduce safety risk and financial loss, and more recently also to reduce Methane emissions for environmental reasons. Nevertheless, production, distribution and use, and particularly distribution and use account for most of the estimated emissions in the energy sector (59% according to GIE - MARCOGAZ). However, this being estimated, the uncertainty is currently larger than the volume of total emissions. Other energy sectors, such as coal mining (where Methane is a pure safety risk/nuisance even after ending of mine exploitation), may be important contributors to emissions. An important issue not to forget is that approximately 2/3 of EU natural gas demand is satisfied with gas imports. Best practices in countries of origin (minimizing venting and flaring) via certificates of origin for natural gas could help reduce GHG emissions worldwide. The biggest challenge at this time is that emissions in Europe and most of European suppliers are currently crude estimates (so-called “Tier 1”) and not based on actual measurements	JRC.C.3	ENER	JRC	CLIMA COMP EEAS	2021-01-01	2022-12-31	INS-RS	3019653	ETHANE21	Best practices for methane emissions measurement and abatement.	A broad literature review has been done on main sources of methane emissions, methane's atmospheric life cycle, its role as driver to greenhouse warming and methane measurement techniques. Previous efforts by other parties are also considered, including the DG ENER commissioned “Wood” study. This will allow establishing the status quo of science and may become a good technical primer. This deliverable consists of compiling recommendations on the best techniques to measure methane emissions, and strategies to abate them in the EU. This involves looking at what resources might be available for work in the EU, areas where most cost effective reductions can be achieved, and what European equipment manufacturers are available and qualified, especially in the measurement field. This will be done with the support of an expert group to be created and managed by our group. We will explore the possibility to transpose these mitigation efforts to countries of origin/transit of gas, oil & coal.	2021-11-30	Technical Reports	N
																	3020377	ETHANE22	Feasibility study for a Methane Emission Intensity Certificate	Handling hydrocarbons is inevitably correlated with potential methane unwanted emissions. Typically, methane escapes in all the phases of the natural gas supply chain (production, processing, transportation and use). Emissions can also escape in the equivalent steps of other primary (hydro)carbon products (coal, crude oil, natural gas liquids), which contrary to natural gas, are most often open to atmosphere. For these reasons, DG-ENER has demonstrated interest in exploring the feasibility of proposing a Methane Supply Index (MSI). This index will show how much methane has been lost into the atmosphere in the value chain to the point of sale/EU border. This will allow a pricing of these emissions in order to make methane capture and utilization more attractive. This will be of interest especially regarding flaring and venting, which according to recent findings, in some production areas might be the main source of methane emissions.	2022-11-30	Technical Reports	N
1. A European Green Deal	1.3 Energy	20252	Gas	Secure, green and competitive gas	JRC.C.3	30291	SECURE GAS	Security of Energy Supply in the Energy Transition	The energy transition to a decarbonised economy has to take place in a well-structured, secure manner, avoiding any situation of under-supply of energy to the EU. In recent years, after the end of the financial crisis, the demand of natural gas has recovered, driven mainly by the demand of electricity and very competitive natural gas prices. This fact, together with the important role of gas as a back-up for renewables, is making also the interaction gas – electricity more important than ever it was. Moreover, Russia is gaining share in the supply of natural gas to the EU (36% in 2018 vs. 22% in 2010), simultaneously with a number of frictions with some transit countries like Ukraine and Member States like Poland. These factors have to be taken into account in any well-planned transition. Finally, well-functioning pieces of legislation like Regulation 2017/1938 on security of gas supply, that have contributed so much to improve security of gas supply in the EU, and network codes have to continue their implementation.	JRC.C.3	ENER	JRC	EEAS HOME	2021-01-01	2022-12-31	INS-RS							

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1. A European Green Deal	1.3 Energy	20426	S&CC	Safe & Clean Construction	JRC.E.4	30408	iRESIST+	Innovative Seismic and Energy Retrofitting of the Existing Building Stock	Upgrading the existing EU buildings is becoming increasingly important due to: (1) their poor seismic performance in seismic-prone MS and (2) their high energy consumption (buildings are responsible for 40% of EU energy consumption and 36% of the CO2 emissions). Due to the large proportion of buildings needing renovation, novel and cost-effective retrofit technologies need to be identified and validated experimentally. With the unique facilities of the ELSA lab (largest in the EU for seismic testing), the JRC is placed in prime position to take action and to provide independent scientific evidence, bringing added value to the EU building stock renovation issue. The need for a combined retrofitting approach was initially identified within the ER project iRESIST+ that introduced novel techniques, materials and methodologies for the simultaneous seismic and energy retrofitting of the EU building stock. The new project builds on the prior research and policy support achievements (details in the ex-ante assessment) and goes many steps beyond by focusing its scientific activities on the support of key EU energy policies, such as the 'renovation wave' of the European Green Deal (Com 2019/640) and the need for the MS to consider seismic risk mitigation in their long-term renovation strategies, according to the amended Energy Performance of Buildings Directive (Direct. 2018/844). In addition, iRESIST+ has been included in the EU Framework for Action on Cultural Heritage, (SWD 2018 491), and will provide direct policy support to this Action. The preservation of our cultural heritage is of crucial importance for the priority "Promoting our	JRC.E.4	ENER	JRC	CLIMA EAC ENER GROW RTD	2021-01-01	2025-12-31	INS-UR	3007266	1	State-of-the-art review of technologies for the combined seismic and energy upgrading of the EU building stock	The document provides a state-of-the-art review study on advanced technologies for the combined seismic and energy upgrading of the existing EU buildings. The study will contain an initial review of novel techniques and materials for both the seismic and energy upgrading of buildings, in order to identify and propose fully integrated techniques for the combined upgrading.	2021-12-20	Technical Reports	N
																	3033802	4	Protecting cultural heritage buildings against natural disasters and climate change	The study supports directly the implementation of the European framework for action on cultural heritage (SWD 2018/491), and will present technologies for the protection of cultural heritage buildings against natural disasters and climate change. Renovation technologies that do not alter the external appearance and character of heritage buildings, and satisfy the reversibility requirements will be identified and their effectiveness will be evaluated and classified. Finally, the deliverable will explore innovative integrated techniques to provide structural upgrading combined with energy retrofitting and structural health monitoring (SHM) of the of cultural heritage structures.	2022-12-16	Technical Reports	N
																	3033952	3	Foresight studies on combined retrofitting scenarios for the EU building stock	This deliverable will provide foresight studies for 2030 and 2050 across the EU to assess the effect of rising temperatures and a changing energy mix combined with increases in annual building renovation rate (the EGD renovation wave), compared to non-action. In particular, the effect of applying the iRESIST+ seismic and energy combined retrofitting schemes to existing vulnerable and inefficient buildings will be assessed in terms of reductions in energy consumption, CO2 emissions and monetary losses.	2022-12-12	Science for Policy reports	N
																	3036962	2	Experimental validation of technologies providing combined seismic and energy upgrading on a full-scale building	This deliverable will present the results of experimental studies which validate the effectiveness of the combined retrofitting systems on a full-scale building at the ELSA reaction wall facility. Both the seismic resistance and energy performance of the as-built (without retrofitting) and retrofitted building configurations will be experimentally investigated. This experimental study will be the first worldwide to assess simultaneously the earthquake resilience and energy efficiency of a full-scale renovated building, and it will generate unique data for calibrating numerical models to be implemented towards standardisation needs (Eurocodes).	2022-12-01	Technical Reports	N
1. A European Green Deal	1.3 Energy	20426	S&CC	Safe & Clean Construction	JRC.E.4	31561	STRETCH	Smart Textiles for RETrofitting and Monitoring of Cultural Heritage Buildings	Of the current EU building stock, 80% was built before the 90's, while 40% are pre-60's and a considerable amount being even older and classified as cultural patrimony, thus requiring preservation techniques if we want to maintain this cultural heritage for our future generations. Upgrading the existing EU cultural heritage buildings (CHB) is becoming increasingly important due to their: (1) poor structural performance attested by damages and collapses during recent earthquakes (e.g. Italy, Greece, Croatia) or other natural hazards (e.g. extreme weather conditions) that have led to big economic losses, injuries and loss of human lives; and (2) low energy performance which aggravates considerably their energy consumption (buildings are responsible for 40% of EU energy consumption). Moreover, the Structural Health Monitoring (SHM) of CHB can highly contribute to control their structural integrity and thus to provide information for planning cost effective and sustainable maintenance decisions. Given that replacing the existing old buildings with new ones is not financially feasible, and even it is not allowed for cultural heritage buildings, their lifetime extension requires considering simultaneously both structural and energy retrofitting. To achieve cost effectiveness, STRETCH explores a novel approach, which integrates technical textile reinforcement with thermal insulation systems and strain sensors to provide simultaneous structural-plus-energy retrofitting combined with SHM, tailored for masonry cultural heritage building envelopes. STRETCH scientific activities will be aligned with the principles of the EU Framework for Action on Cultural	JRC.E.4	EAC	(blank)	CLIMA ENER GROW RTD	2021-03-01	2023-12-31	CON-IA	3108189	1	Final report	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project. A mid-term technical report will be produced at the end of year 1.	2023-12-31	Technical Reports	N

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1. A European Green Deal	1.4 Nuclear energy	20071	DECARB	Nuclear research for energy transition	JRC.G.I.4	30080	SALTO	Safety and Long-Term Operation of current Reactors	Current reactors approach the end of their original design life (30 or 40 years) or are already operating beyond it. Life extension to 50 or 60 years (LTO) is the norm in those European countries that decided to keep nuclear power generation in their energy mix. Licensees (= NPP operators) take continuous efforts to refurbish and modernise their NPPs, including complete replacement of safety-related structures, systems, and components (SSCs), to meet stringent regulatory requirements on plant safety and to improve plant performance and economics. Emergency response procedures to mitigate the consequences of design extension conditions (DECs) are in place and continuously updated. Licensees have implemented ageing management programmes (AMPs) to mitigate degradation of passive SSCs and in-service inspection (ISI) procedures to detect flaws in those SSCs at an early stage. AMPs and ISI are continuously improved, based on underlying R&D, and new ones are developed and implemented if needed. Licensees perform preventive maintenance for active SSCs to keep them functional and in good shape. Some licensees started using accident tolerant fuels (ATFs) in their reactors to increase robustness against DECs.	JRC.G.I.4	ENER	RTD RTD RTD RTD JRC	RTD	2021-01-01	2025-12-31	CON-IA CON-IA CON-IA CON-IA INS-RS	3002392	ALTO2021D	Technical reports and deliverables of competitive activities in SALTO	This deliverable covers all technical reports and deliverables that will evolve from competitive activities in SALTO (e.g. MEACTOS, INCEFA-Scale, STRUMAT-LTO, MUSA) in 2021. In MEACTOS (topic: mitigation of environmentally-assisted cracking (EAC) of metallic LWR components) practical guidelines on the sequence of industrial fabrication methods for metallic primary and secondary LWR components that should be applied to reduce the susceptibility to EAC or mitigate EAC altogether and a harmonisation roadmap that assesses the extent to which these guidelines are already included in common nuclear design codes (i.e. ASME BPVC, RCC-M, KTA, ...) are to be published in 2021. In STRUMAT-LTO a report summarising the results of a round robin exercise on application of the small punch tests on reactor pressure vessel steels is planned for 2021.	2021-10-29	Technical Reports	N
																	3002394	ALTO2021D	Guidance documents on reactor operation and contribution to nuclear codes and standards	This deliverable involves guidance and best practice documents on reactor operation (e.g. ENIQ Recommended Practice on ISI of NPPs), integrity assessment & lifetime procedures of structures, systems and components (SSCs) and contributions to the further evolution of nuclear codes and standards with SALTO involvement. Documents issued under this deliverable could be JRC publications or publications by SNETP/NUGENIA, CEN, IAEA, OECD-NEA or any other organisation.	2021-11-30	Technical Reports	N
																	3002397	ALTO2021D	Scientific Publications related to experimental and computational activities of the SALTO project	This deliverable is a repository for all scientific publications (peer-reviewed articles, conference papers, technical reports, books) summarising results of ongoing experimental and computational activities within the SALTO project, such as MEACTOS (stress-corrosion cracking in metallic LWR components), INCEFA-Scale (environmentally-assisted fatigue in LWR components), STRUMAT-LTO (reactor pressure vessel embrittlement and integrity assessment), MUSA (design extension conditions and source term analysis) or institutional activities.	2021-11-30	Journal contributions (Scopus)	N
																	3002407	ALTO2021D	Policy support documents and Roadmaps	This deliverable includes policy support documents, roadmaps or documents with a roadmap character (e.g. by SNETP / NUGENIA) and reports comparing specific practices and issues related to reactor operation of European countries (e.g. qualification of certain components and equipment for their usage in NPPs). Support and responses to requests from policy DGs (mainly ENER or RTD) and JRC headquarter (A7 unit) in the form of presentations support or other suitable form also fall under this deliverable.	2021-11-30	Science for Policy reports	N
1. A European Green Deal	1.4 Nuclear energy	20071	DECARB	Nuclear research for energy transition	JRC.G.I.4	30082	SINUS	Safety for Innovative NUclear energy Systems	Advanced Reactors and in particular Small Modular Reactors are increasingly receiving attention worldwide as a potential nuclear contribution to help mitigate climate change in concert with other energy sources. Many of the currently proposed designs are of the Generation IV type and propose much enhanced safety features together with attractive technical and economic characteristics. These would be granted by the design, appropriate materials and components, and by the used fuel. Two of these three elements (design, materials & components), constitute the perimeter of this project whereas fuel safety is the subject of a separate project.	JRC.G.I.4	RTD	RTD RTD RTD RTD JRC JRC	ENER GROW	2021-01-01	2025-12-31	CON-IA CON-IA CON-IA CON-IA CON-IA INS-PoC INS-RS	3002538	D2	ESFR SMART deliverables	Deliverables related to the indirect action ESFR SMART	2021-10-31	Technical Reports	N
																	3002539	D3	McSAFER deliverables	Deliverables related to the indirect action McSAFER	2021-12-31	Technical Reports	N
																	3002540	D4	Deliverables for ECC-SMART	Deliverables related to the indirect action ECC-SMART	2021-12-31	Technical Reports	N
																	3002541	D5	Support to international networks and EU member states	Support to SNETP (NUGENIA TA6, ESNII, NC2I), GIF, EERA JPNM, NeT	2021-12-31	Technical Reports	N
																	3002542	D6	Support to the development of Codes and Standards	Interim Report CEN WS064 PG2; Contribution to ISO21432 and related standardization activities; Contribution to standardization activities on weld modelling;	2021-12-31	Contributions to standards	N
																	3002543	D7	Scientific and Policy Support Output	Scientific publications and presentations in support of Euratom and EC priorities related to energy and decarbonization. E.g.: - Paper on high-temperature degradation (experiments and models); - Paper on weld residual stress measurement and modelling; - Models and Tests for ageing effects (service-exposed material); - Recommendations for Design Rules in heavy liquid metal systems;	2021-12-31	Journal contributions (Scopus)	N
																	3002544	D1	ELSMOR Deliverables	Deliverables related to the indirect action ELSMOR	2021-10-31	Technical Reports	N
																	3109032	D8	MatDB Import Module	Report describing the MatDB import module	2021-12-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
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1. A European Green Deal	1.4 Nuclear energy	20071	DECARB	Nuclear research for energy transition	JRC.G.I.4	30083	RAY	IrRAdiated material studY	The project is of relevance for the safety of current and future nuclear systems. It will enforce and extend the capability and knowledge of the JRC to prepare and follow-up on irradiation programs that are conducted in Europe with the support of the European Commission through the support of DG JRC and DG RTD. This knowledge encompasses the various steps that are relevant to understand materials behaviour in an irradiation field (being this neutrons or other particles) and encompasses the planning of the irradiation programs, the design of the test rig and the associated safety report, the execution of the irradiation itself and the post irradiation examination. The study of the materials (e.g. structural materials, coolants as molten salt, fluid or solid fuels) behaviour under irradiation is fundamental both for long-term operation of current nuclear power plants and the development of innovative systems (SMR and Gen IV). The project relies on unique test facilities for irradiation like the High Flux Reactor in Petten and in future the Jules Horowitz reactor in Cadarache. Moreover, an exploration of needed tools to perform post irradiation activities on small size samples of structural and clad materials is part of this project.	JRC.G.I.4	RTD	RTD RTD RTD JRC	JRC	2021-01-01	2024-12-31	CON-IA CON-IA CON-IA CON-IA INS-UR	3001115	RAY2021	Scientific Publications related to experimental and computational activities of the RAY project	This deliverable is a repository for all scientific publications (peer-reviewed articles, conference papers, technical reports, books) summarising results of ongoing experimental and computational activities of RAY both institutional and competitive such as JHOP2040 (Jules Horowitz Euratom access), INSPYRE (MOX related studies for ESNII prototype reactors), PATRICIA (Partitioning And Transmuter Research Initiative), PUMMA (Plutonium management in GenIV system).	2021-12-17	Journal contributions (Scopus)	N
																	3003517	IOP204020	JHOP2040 Deliverables	JRC contributions to periodic and final reports as well as the following topical deliverables: D1.2 Final synthesis report – first four years D3.1 Plan for JHR programme structure and governance - Roadmap-4 D4.3 Report on the Workshop; Feedback from the workshop with Euratom stakeholders and interest groups, IAG and the core group.	2021-10-31	Technical Reports	N
																	3003518	ISPYRE202	INSPYRE Deliverables	JRC contributions to the following topical deliverable: D3.1: Report on creep under neutron irradiation,	2021-06-30	Technical Reports	N
																	3015473	RAY2022	Scientific Publications related to experimental and computational activities of the RAY project	This deliverable is a repository for all scientific publications (peer-reviewed articles, conference papers, technical reports, books) summarising results of ongoing experimental and computational activities of RAY both institutional and competitive such as JHOP2040 (Jules Horowitz Euratom access), INSPYRE (MOX related studies for ESNII prototype reactors), PATRICIA (Partitioning And Transmuter Research Initiative), PUMMA (Plutonium management in GenIV system).	2022-12-16	Journal contributions (Scopus)	N
1. A European Green Deal	1.4 Nuclear energy	20071	DECARB	Nuclear research for energy transition	JRC.G.I.4	30100	SHARPEN	Safety, HumAn Resources and Policy Support for Nuclear Energy	Nuclear energy is part of the energy mix of almost half of EU Member States. The Energy Union Strategy stresses that Member States need to apply the highest standards of safety, security, waste management and non-proliferation as well as to diversify nuclear fuel supplies. In November 2018, the European Commission presented its strategic long-term vision for a prosperous, modern, competitive and climate-neutral economy by 2050 – A Clean Planet for All. The strategy shows how Europe can lead the way to climate neutrality by investing in realistic technological solutions, empowering citizens, and aligning action in key areas such as industrial policy, finance, or research – while ensuring social fairness for a just transition. It envisages that, by 2050, more than 80% of electricity will be from renewable sources, which - together with a nuclear power share of approximately 15% - will be the backbone of a European low carbon power system. Nuclear reactor safety and safe management of radioactive waste remain of utmost importance for the European Atomic Energy Community. The Euratom legislative framework includes three related key legislative acts, namely the Nuclear Safety Directive (Directive 2009/71/Euratom, as amended by Directive 2014/87/Euratom), the Directive on the responsible and safe management of spent fuel and radioactive waste (Directive 2011/70/Euratom), and the Directive on the supervision and control of shipments of radioactive waste and spent fuel (Directive 2006/117/EURATOM). DG ENER (Directorate D) is the responsible entity for overseeing the implementation of these Directives by the Member States, including their transposition into	JRC.G.9	ENER	ENER JRC	EAC EMPL ENV FISMA GROW INTPA NEAR RTD	2021-01-01	2022-12-31	CON-AA INS-RS	3000759	)10020210(	Topical study on Containment building	A technical review of recent operating experience reported by nuclear power plants worldwide, related to the Containment building in nuclear power plants.	2021-03-31	Technical Reports	N
																	3000761	010020210	Topical study on fuel events	A technical review of recent operating experience reported by nuclear power plants worldwide, related to the fuel assemblies used by the nuclear reactor.	2021-12-31	Technical Reports	N
																	3000762	010020220	Topical study on external events	A technical review of recent operating experience reported by nuclear power plants worldwide, related to external events	2022-03-31	Technical Reports	N
																	3000763	010020220	Topical study on Emergency Core Cooling	A technical review of recent operating experience reported by nuclear power plants worldwide, related to the Emergency Core Cooling systems.	2022-12-31	Technical Reports	N
																	3000764	010020210	Scientific/Technical underpinning of EU Nuclear Safety Policy implementation 2021	One or more reports, depending on requests from customer DG(s), providing the technical and scientific evidence and support required to assist Commission policy DGs responsible for the formulation and implementation of EU nuclear reactor safety policy and legislation, including, for example, reports on: a.Review of the implementation of the Nuclear Safety Directive in EU Member States b.Support to DG ENER for the implementation of the Stress Tests peer review in neighbouring countries c.Support to DG ENER for the EC contribution to the Espoo Convention Ad-hoc group on Environmental Impact Assessment in the context of Long-Term Operation of NPPs d.EURATOM Treaty Art. 41-43 notifications e.EC participation to IAEA peer review missions (IRRS), contribution to IAEA safety standards, ad hoc requests on emerging issues.	2021-12-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3000765	010020220	Quarterly Report on Nuclear Events	Quarterly report with a summary and lessons learned from events reported publicly by nuclear stations around the world.	2022-12-31	Technical Reports	N
																	3000796	010020220	2.Scientific/Technical underpinning of EU Nuclear Safety Policy implementation 2022	One or more reports, depending on requests from customer DG(s), providing the technical and scientific evidence and support required to assist Commission policy DGs responsible for the formulation and implementation of EU nuclear reactor safety policy and legislation, including, for example, reports on: a.Review of the implementation of the Nuclear Safety Directive in EU Member States b.Support to DG ENER for the implementation of the Stress Tests peer review in neighbouring countries c.Support to DG ENER for the EC contribution to the Espoo Convention Ad-hoc group on Environmental Impact Assessment in the context of Long-Term Operation of NPPs d.EURATOM Treaty Art. 41-43 notifications e.EC participation to IAEA peer review missions (IRRS), contribution to IAEA safety standards, ad hoc requests on emerging issues	2022-12-31	Technical Reports	N
																	3000837	010020210	Joint OECD-NEA and EHRO-N survey report on trends in higher nuclear education	A survey report on trends in higher nuclear education prepared jointly by OECD-NEA and the EHRO-N network	2021-09-30	Science for Policy reports	N
																	3000838	010020210	Review of available national workforce assessments in the nuclear sector within EU	The report will compile available information and data at member state level with the aim of establishing European trends.	2021-06-30	Science for Policy reports	N
																	3000839	010020210	European methodology/guideline for performing national Nuclear Workforce Assessments	Topic to be finalised in 2021 within EHRO-N Senior Advisory Board.	2021-12-31	Science for Policy reports	N
																	3020610	010020210	Interplay of RES and Nuclear energy in the European Electricity market	This report, building on the methodology already developed by JRC.C.3 and JRC.G.10 and published in 2019, investigates further on how the integration of carbon-neutral technologies will play in the European electricity market of the future.	2021-11-30	Technical Reports	N
																	3035565	010020220	Scientific publications and Conferences participation	Scientific outputs published in peer review journals or conference proceedings	2022-12-20	Journal contributions (Scopus)	N
																	3053254	010020210	EU Taxonomy technical assessment report on the 'do no significant harm' aspects of nuclear energy	EU Green Deal-The Taxonomy Regulation establishes a framework for the development of an EU classification system ("EU Taxonomy") of environmentally sustainable economic activities for investment purposes. One of the most contentious points has been the inclusion (or exclusion) of nuclear energy as an economic activity in the EU taxonomy and its subsequent qualification as environmentally sustainable.aspects of nuclear energy, and in particular the disposal of nuclear waste. As the in-house science and knowledge service of the Commission with extensive technical expertise on nuclear energy and technology, the JRC will draft a technical assessment report on the 'do no significant harm' aspects of nuclear energy. The assessment should conducted in a transparent way (involving consultation of independent experts groups on radiation protection and waste management) and include public outreach / public consultation.	2021-05-31	Science for Policy reports	N
1. A European Green Deal	1.4 Nuclear energy	20071	DECARB	Nuclear research for energy transition	JRC.G.I.4	30126	SIAMESE	Waste management issues specific to Small Modular Reactors (SMR) and Accident Tolerant Fuels (ATF)	The escalating costs and the large capital investment needs to finance the construction of current (large) reactor types have become a major issue. Modular designs with in-factory, rather than on site, fabrication of limited size reactors provide means to drive down costs and reduce construction times. In this context, Small Modular Reactor (SMR) designs are widely considered. Since the Fukushima accident, increased safety of such reactors has also become an important driver. SMR fuels will be based on UO2, but will be operated at linear power ratings significantly lower than that found in the high flux regions of current LWR cores. This will potentially lead to lower fuel temperatures, reduced fission gas release and different spent fuel morphology and fission product distribution therein. Other types of spent fuel (ATF, fast reactor fuel not reprocessed) will also be destined to final disposal in some Member States. JRC will investigate spent fuel management and disposal aspects of these novel types of fuel leveraging the extensive expertise, competence and capabilitites accumulated during previous studies on conventional spent fuel management and disposal. Possible cross-portfolio interactions e.g. on safeguards implications of spent fuel management, may be explored.	JRC.G.I.6	ENER	JRC	RTD	2021-01-01	2025-12-31	INS-RS	3002274	D2	Stability of low linear rating UO2 fuels specific for SMR conditions in aqueous media.	The state of the art of SMR reactors and resulting nuclear fuel waste will be assessed. The selection and characterisation of surrogates will be described as well as results on its stability.	2025-12-31	Journal contributions (Scopus)	N
																	3002275	D1	Assessment of waste management issues specific for Accident Tolerant Fuels	In the aftermath of the Fukushima accident, a strong push to improve the tolerance against possible source of nuclear accident has triggered the development of new type of fuels and cladding materials (ATF). Nuclear energy industries are getting ready to deploy such fuels in their commercial plants. However, at the moment, they will not be allowed to dispose of those spent fuel elements in the planned geological repository because a safety assement is still missing. This report reviews which are the currently developed ATF and specifically identify which are the possible issues arising from their waste management.	2022-12-31	Technical Reports	N
																	3006591	D3	Scientific publications related to stability of ATF fuels or SMR fuel simulants	Scientific publications and conference contributions related to the stability ATF / SMR fuels.	2025-12-31	Journal contributions (Clarivate)	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.4 Nuclear energy	20071	DECARB	Nuclear research for energy transition	JRC.G.I.4	30127	PURPOSE	Spent Fuel Long term Mechanistic Release Processes	The key scientific-technical challenge in radioactive waste management remains the implementation of the disposal of spent fuel and high-level waste. The time-scale to reach this goal varies among the Member States. In most cases, the start of operation of spent fuel/high level waste disposal will take place in the second half of the century or later; such time frames require extended interim storage. The main driver for this research project is the demand by Waste Management Organisations (WMO) and regulators for a better in-depth description of the mechanistic processes of SNF dissolution. This is interlinked with two additional and complementary areas of investigation: (i) the assessment of the effects of extended interim storage on spent fuel in terms of fuel properties at the time of disposal; (ii) the verification/confirmation that additive-containing and evolutionary LWR fuels (DisCo) will behave similarly to the standard UO2 fuel under repository conditions. JRC has already more than 25 years of R&D experience on high-level radioactive waste and spent fuel management and disposal, based on corrosion studies of spent fuel in groundwater under a variety of conditions relevant for the geological disposal. During the years, the scope of this type of research has changed to respond to the requests by the EU MS stakeholders (WMO, Regulators, R&D organizations and Academia, industry). The overall aim of the scientific-technical investigations is to: (i) increase confidence in safety of disposal solutions, and (ii) increase the knowledge base for critical spent	JRC.G.I.6	RTD	JRC	ENER	2021-01-01	2025-12-31	CON-IA INS-RS	3000428	1	Scientific publications related to spent fuel behaviour under long-term storage and disposal conditions 2021 - 2025	Scientific publications and conference contributions related to spent fuel behaviour under long-term storage and disposal conditions in the period 2021 - 2025	2025-12-31	Journal contributions (Clarivate)	N
																	3003781	2	Final and intermediate reports on chemical stability of the spent nuclear fuels under disposal and accidental conditions	Final and intermediate reports to EC projects (e.g. H2020 DisCo) and MS´s on spent nuclear fuel experiments under disposal conditions	2025-12-31	Technical Reports	N
																	3003782	3	Long-term corrosion of high-burnup UO2 rim structure under reducing conditions	Long-term corrosion of the rim fraction of a spent UO2 fuel in weak saline groundwater and 7-50 bar H2 over-pressure.	2021-09-01	Journal contributions (Scopus)	N
																	3003786	4	Spent fuel dissolution mechanisms under anoxic and reducing conditions	Mechanisms governing the spent fuel corrosion under anoxic and reducing groundwater conditions.	2023-03-01	Journal contributions (Scopus)	N
1. A European Green Deal	1.4 Nuclear energy	20071	DECARB	Nuclear research for energy transition	JRC.G.I.4	30128	FLAME	Spent Fuel Ageing Mechanisms	The key scientific-technical challenge in radioactive waste management (and in the demonstration of nuclear energy being a sustainable contributor to the European Green Deal) remains the implementation of the disposal of spent fuel and high-level waste. The time-scales involved in reaching this goal vary among the Member States. In some cases the start of spent fuel/high level waste disposal will be in the second half of the century or later; such time-frames will require extended interim storage times (even in excess of 100 years). The JRC has already more than 20 year of experience performing R&D on the safety of high-level radioactive waste management, based on solid phase characterization and mechanical testing. The overall aim of the scientific-technical investigations is to increase confidence in safety of extended storage and disposal solutions, and to cover all relevant spent fuel/waste configurations. During the years, the scope of activities of JRC has evolved in line with the new requests of the main actors in the field in the MS (Waste Management Organizations, Regulators, R&D and Academic Organizations, Industry). The research projects of JRC are embedded in bilateral, multi-partner, international programmes, including also Indirect Actions and joint programming initiatives. The scientific data and knowledge generated by the JRC directly supports MS efforts to implement spent fuel storage and disposal, feeds the modelling of the long-term processes occurring after discharge of irradiated fuel from the reactor core, and reduces the uncertainties in the associated Safety Assessment. This	JRC.G.I.6	RTD	RTD JRC	ENER	2021-01-01	2025-12-31	CON-IA INS-RS	3001464	2	Scientific publications	scientific publication and conferences proceedings on the stability of irradiated nuclear fuel rods under accidental handling and transportation conditions, mechanical testing of irradiated cladding materials and simulation of long-term radiation damages in the nuclear fuel.	2025-12-31	Journal contributions (Clarivate)	N
																	3001465	1	EURAD Intermediate and Final report on the mechanical testing and radiation damage of alpha doped fuel	Assessment of the SNF mechanical stability against external stresses, which might be accidentally applied, requires representative reference data. This is accomplished by performing small scale laboratory measurements. Explicit tests singling out individual aspects and ageing mechanisms governing the SNF alternation, contribute to a better evaluation of the fuel-cladding system safety levels under accidental conditions	2024-05-15	Technical Reports	N
																	3002258	3	Workshop on theroritecal approches for mechanical stability of spent fuel	The produced data during FLAME are reference experimental basis for some of EURAD participants (Polytechnic University of Madrid, BAM and NAGRA) in their developments of several theoretical approaches (models) to describe the mechanical stability of SNF rods and irradiated cladding materials under external solicitations. An assessment of the reliability of such models is of high importance, because carrying out of bending and impact experiments has many practical limitations: amount of required material, production of highly active waste, time and resources consuming and are therefore very expensive. For this purpose, a review workshop will be organized by JRC-Kalrsruhe where the authors of the modelling works will present their outputs ir order to unify and synthesize their theoretical descriptions.	2025-06-30	Journal contributions (Clarivate)	N

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1. A European Green Deal	1.4 Nuclear energy	20071	DECARB	Nuclear research for energy transition	JRC.G.I.4	30163	F4SMR	Fuel simulations for SMRs	The project supports a majority of member organisations of the European Technical Safety Organisation Network (ETSON), as well as the member states through the sustainable nuclear technology platform (SNE TP). More precisely, it contributes to the assessment of new innovative solutions such as small modular reactors (SMR), needed to ensure competitive costs with other energy production technologies and short-time construction and implementation in the local systems that will accommodate increasingly renewable energy production. The project can thus contribute to the needs of the EU in terms of broadening the available reactor portfolio to meet national/local specificities. The development of various SMRs offer the possibility to deploy flexible options for electricity and non-electricity applications, although the focus of this project is on fuel with cylindrical geometry. Via the McSAFER project, the research focuses on the development, improvement, validation, and application of numerical simulation tools (traditional, advanced low-order and high-fidelity), validated with experimental data generated in European facilities that are relevant for the majority of SMR-designs (e.g. French F-SMR design). The JRC will contribute to improve thermo-mechanic simulation of SMR-fuel under static and accidental conditions, including the inclusion of accident tolerant material properties. Despite the focus of the applications on SMR, the methodology is fully applicable to current as well as to Gen-IV reactors due to the versatility of the simulation tools involved. The code developments in MCSAFER will complement those of the R2CA project, in the frame of which design	JRC.G.I.5	RTD	RTD RTD JRC JRC	ENER JRC RTD	2021-01-01	2022-01-01	CON-IA CON-IA CON-TW INS-CDP INS-RS	3004551	2	McSAFER deliverables	Deliverables in the frame of the McSAFER (H2020) project: Data for the safety analysis of the different SMR-core designs by means of coupled codes. Report about the new TRANSURANUS code with new material properties and models for Enhanced Accident Tolerant Fuels and materials (EATF). Report about high fidelity simulation for the SMR-core loaded with EATF	2021-12-31	Technical Reports	N
																	3004552	1	R2CA deliverables	Deliverables in the frame of the R2CA H2020 project: Strategy to assess the number of failed fuel rods as a result of a loss of coolant accident. Fission products releases during Steam Generator Tube Rupture - Final report on experimental database reassessment and on model and code improvements. Report about new models for cladding behaviour in TRANSURANUS (e.g. creep, rupture stress) that account for hydrogen content. Publications about coupling of the TRANSURANUS code with the MFPR-F code, and the developments as well as validation efforts related to these simulation tools.	2021-11-26	Sci information systems and databases	N
1. A European Green Deal	1.4 Nuclear energy	20071	DECARB	Nuclear research for energy transition	JRC.G.I.4	30183	AMOS	Advanced & Modular nuclear system	The project AMOS aims at evaluating the potential role of advanced nuclear technologies in the European energy supply, with attention for Small Modular Reactors (SMR) designs and innovative waste "transmutation" concepts. The focus will be on innovative next generation reactor designs and associated technologies, such as molten salt reactors and gas-cooled reactors. Such type of reactors operate at high temperature and can provide electricity as well as process heat, and are therefore very attractive for decarbonisation of highly industrial regions. Moreover, they have unique safety features. The research in the project will concentrate on the fuel behaviour, its interaction with reactor materials, and the retention/release of fission products. The unique safety characteristics make the MSR also highly interesting as a Plutonium burner, and key European players in the nuclear fuel cycle (ORANO) are designing a small reactor unit for this purpose. The project will contribute to the foundational research to determine the safety of the Pu molten salt fuel. The results obtained within the frame of HORIZON2020 project SAMOSAFER will be part of the AMOS project.	JRC.G.I.3	RTD	RTD JRC	CLIMA JRC	2021-01-01	2024-12-31	CON-IA INS-RS	3000433	DAMOS02	Scientific Publications 2022	Results arising from the AMOS project will be presented at conferences and published in peer reviewed journal and/or other reports.	2022-12-01	Journal contributions (Scopus)	N
																	3000434	DAMOS01	Scientific Publications 2021	Results arising from the AMOS project will be presented at conferences and published in peer reviewed journal and/or other reports.	2021-12-01	Journal contributions (Scopus)	N
																	3074830	DAMOS03	Fabrication of Fuel Synthesis for SALIENT03 Irradiation	As part of member state support, JRC has been requested by NRG, Petten (NL) to prepare fluoride salt fuel for irradiation in High Flux Reactor, Petten, NL, mainly because of JRC long term expertise in fluoride salt chemistry and installed related facilites. The fuel will be synthesised at JRC through 2020 with possible extension to 2021 and hermetically encapsulated by laser welding in specially developed metallic capsules. The main outcome of the study is to see the bahaviour of Molten Salt Reactor fuel under irradiation. After the irradiation small part of irradiated sample will be transported to JRC Karlsruhe for Post-Irradiation-Examination.	2021-02-28	Technical Reports	N
																	3074831	DAMOS04	Member State support to France on series of studies on Molten Salt Reactor	In collaboration with French CEA, Orano and CNRS series of studies will be made by JRC on fuel salt properties requested by the French consortium. The novel data will be used to assess a Molten Chloride Salt Reactor that Orano group proposes for plutonium utilization. Within this collaboration scientific personnel funded by Orano group will be detached at JRC site.	2022-12-15	Technical Reports	N
																	3075506	DAMOS05	Properties of Geopolymers for GFR core-catchers	The overall goal of this deliverable is to test innovative sacrificial materials, which will ensure proper function of the core catcher in Gas Cooled Fast Reactors. At JRC the experimental phase will be focused on determination of thermo-physical properties of the geopolymers (thermal capacity, conductivity) and study of interactions between the geopolymers and simulated corium at high temperatures. After evaluation of the experiments, the newly obtained data will be used as an input for MELCOR calculations, focused on comparison of the core catcher performance with conservative and innovative sacrificial material.	2022-09-01	Technical Reports	N

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1. A European Green Deal	1.4 Nuclear energy	20071	DECARB	Nuclear research for energy transition	JRC.G.I.4	30184	LIMEC	Liquid MEtal Cooled nuclear systems	LIMEC targets at the contribution to the safety assessment of future liquid metal cooled reactor systems as defined by the European Sustainable Nuclear Industrial Initiative (ESNII), such as MYRRHA, LFR (ALFRED) and SFR. In addition, the project results will be fed into the EURATOM contribution to the Generation IV International Forum (GIF) and IAEA Coordinated Research Projects (CRP). The work will be executed in alignment with bilateral cooperation agreements with member state organisations (e.g. CEA, SCK-CEN), H-2020 and H-Europe consortia, and third party countries (e.g. Japan, USA). LIMEC will also support the repatriation of French plutonium in ownership of CEA, which was transferred to JRC Karlsruhe in the past in the frame of liquid metal cooled reactor fuel development.	JRC.G.I.3	RTD	RTD JRC	ENER	2021-01-01	2024-12-31	CON-IA INS-RS	3007663	DEL20211	Other deliverables-scientific publications 2021	This deliverable represents a series of publications, reports and conference proceedings used to disseminate knowledge generated by the JRC in this work package. The achievements will be presented in one or more scientific presentation.	2021-12-31	Journal contributions (Clarivate)	N
																	3007816	DEL20212	Sodium MOX reaction kinetics	In case of a defective fuel pin in a sodium cooled fast reactor, which needs to be stored inside an in-core storage position over several years, the progress of the interaction between the liquid sodium coolant and the MOX fuel determine the amount of fuel and/or fission products, which is released into the primary circuit. A good knowledge of the reaction kinetics is needed to perform a quantitative safety assessment if activity limits are exceeded, thereby proving or disproving the feasibility of the in-core storage concept. The principal mechanisms driving the kinetics will be described and the kinetic parameters will be summarized.	2021-12-31	Technical Reports	N
1. A European Green Deal	1.4 Nuclear energy	20071	DECARB	Nuclear research for energy transition	JRC.G.I.4	30186	HYGEN	Hydrogen Value Chain & Nuclear	The project HYGEN investigates the role that some specific nuclear materials can play in the hydrogen value chain for the green transformation. Hydrogen is an energy carrier, and can be produced in a clean way using renewable sources or nuclear power. The success of hydrogen will depend on flexible and safe hydrogen carriers, which can be loaded and unloaded efficiently. The development of Liquid Organic Hydrogen Carriers (LOHC) for storage and transport are promising alternatives. Some noble metals (Pd, Ru, Rh) play a role as catalyst for the (un)loading. These metals are also abundant in used nuclear fuel. The project will focus on the potential use of the epsilon particles (Pd, Rh, Ru, Tc, Mo), recovered from used fuel, as catalyst for the LOHC. It will investigate how radioactivity affects the catalytic properties. Also uranium (III) complexes have been shown to have a catalytic effect for hydrogenation of LOHC and will also be explored. HYGEN will share competences in catalyst preparation with the project NUMADIT (Nuclear Materials Data for Innovative Technologies) of the COMPETE portfolio. The work will be performed in consultation with European industrial stakeholders, such as ORANO (FR), Framatome (DE), URENCO (NL).	JRC.G.I.3	ENER	JRC	GROW	2021-01-01	2025-12-31	INS-RS	3011278	DEL12021	Scientific publications	Scientific publications or conference contributions related to HYGEN during the year 2021	2021-12-31	Journal contributions (Clarivate)	N
																	3075593	20212	Progress report	The achievements of the project will be summarised in a technical report	2022-09-30	Technical Reports	N
1. A European Green Deal	1.4 Nuclear energy	20071	DECARB	Nuclear research for energy transition	JRC.G.I.4	30187	INSPO	Innovation & Safety of Current Power Systems	The project INSPO aims at the improvement of the safety and safety assessment of the current Light-Water Reactor (LWR) fleet in the European Union and future light water based Small Modular Reactors (SMR). It provides support to member state organisations of the Sustainable Nuclear Energy Technology Platform (SNE-TP), in particular via collaboration with national Technical Support Organisations (TSO) organised in ETSON (e.g. IRSN, TVO), industries (ORANO, EPRI) and leading research organisations in the field (e.g. CEA through the JHR consortium).	JRC.G.I.3	RTD	RTD JRC JRC	ENER	2021-01-01	2022-01-01	CON-IA CON-TW INS-PoC INS-RS	3070959	20211	Scientific publication	Thie knowledge obtained at JRC in the framework of this work package will be disseminated in presentations, conference proceedings and journal articles.	2021-11-30	Journal contributions (Scopus)	N
																	3109126	20221	Final report and exploitation of the invention	This is the first report for the PoC	2022-12-22	Technical Reports	N
1. A European Green Deal	1.4 Nuclear energy	20071	DECARB	Nuclear research for energy transition	JRC.G.I.4	30188	NUWAF	Nuclear Waste forms	The project NUWAF aims at investigating materials for waste from the back-end of the fuel cycle options, with emphasis on material ageing and degradation resulting from irradiation. . Depending on the fuel cycle strategy - open or closed cycle - the waste materials will be spent fuel or dedicated waste forms (glass, ceramics, cement and geopolymers). It provides support to member state organisations, organised in the European Joint Programma on Radioactive Waste Management - EURAD, leading research organisations in the field, academic organisations. Waste materials should maintain their integrity for thousands of years, which is beyond the normal laboratory testing capabilities and therefore basic understanding of the possible degradation is essential to predict the long-term behavior.	JRC.G.I.3	ENER	JRC	JRC	2021-01-01	2022-01-01	INS-RS	3085506	D2	Scientific publication on the behaviour of fast reactor fuels after storage	Fast reactor fuels cumulate significant damage after irradiation corresponding to millenaries of conventional spent fuel storage. The investigation of such materials will bring new insights on the fate of aged spent LWR fuels.	2022-06-01	Journal contributions (Scopus)	N
																	3085507	D3	Report on the incorporation of nano-particles in geopolymers	Geopolymers are candidates for the immobilization of radioactive liquid waste. The incorporation of nano-particles in the geopolymers could enhance their properties in terms of durability for example. The synthesis of such material will be investigated in the frame of a PhD work with the University of Hasselt (BE)	2021-12-15	Technical Reports	N
																	3085508	D1	Scientific publication on damage investigation of nano-structured UO2	Nano-structured UO2 samples similating the high burnup structure (HBS) will be irradiated with ions and their behaviour against radiation damage investigated with emphasis on the conditions prevalent in storage of spent fuel.	2021-11-01	Journal contributions (Scopus)	N

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1. A European Green Deal	1.4 Nuclear energy	20071	DECARB	Nuclear research for energy transition	JRC.G.I.4	30189	PATRICIA	Partitioning And Transmuter Research Initiative in a Collaborative Innovation Action	Climate change is one of the main issues facing humanity. Due to its low CO2 emission, nuclear power is part of a sustainable energy mix. However, safety and waste issues cannot be taken lightly. For the latter the way forward is to recycle spent fuel with the goal to close the fuel cycle. This eases ultimate radioactive waste management, increases proliferation resistance and drastically improves economy and sustainability by better use of fuel resources. The SNETP deployment plan describes a technical needs fuel recycling including partitioning of spent fuel, fabrication and characterisation of minor actinide bearing fuel and the development of transmutation systems. The project focusses on research on advanced partitioning to efficiently separate Am from spent fuel, on experimental and fuel performance code development work studying the behaviour of Am bearing fuel under irradiation and on the safety related research supporting the licensing process of MYRRHA in its role in the development trajectory for a dedicated accelerator driven transmuter. It may be noted that for first time, the communities working of partitioning, transmutation and the development of MYRRHA are joint in one project. Besides the technical work described above, dedicated work packages deals with education focussing on pre-and postgraduate students, and with dissemination where besides the specific stakeholders also high school pupils and the general public is targeted. A further task on knowledge management includes the both foreground data as well as metadata to so	JRC.G.I.3	RTD	RTD	ENER	2021-01-01	2024-06-30	CON-IA	3007807	PAT20211	Scientific papers	This deliverable represents a series of publications, reports and conference proceedings used to disseminate knowledge generated by the JRC in this project. The achievements will be presented in one or more scientific presentation.	2021-12-31	Journal contributions (Clarivate)	N
1. A European Green Deal	1.4 Nuclear energy	20071	DECARB	Nuclear research for energy transition	JRC.G.I.4	31100	PASCAL	PROOF OF AUGMENTED SAFETY CONDITIONS IN ADVANCED LIQUID-METAL-COOLED	The PASCAL project is a HORIZON2020 project devoted at significantly contribute to the advancement of the safety research on innovative heavy liquid metal cooled reactors, with the ambition to generate evidence that is ready-for-use in the discussions between the ALFRED and MYRRHA designers and the respective safety authorities in the pre-licensing phase. The goals of PASCAL also set an ambition of relevance and quality to the results, which is reflected in structuring and organizing the proposal. Relevant experiments in representative conditions are planned, and - wherever applicable - accompaigned by simulations with the objective of extending their domain of validation and reducing uncertainties. The selected activities all address the main reference: supporting the justification of resilience to severe accident conditions, aiming to demonstrate the claim that no off-site emergency measures are needed for an HLM-cooled system. Finally, the project will strengthen the longstanding collaborations among European organizations, and will strongly support the education and training of a new generation of experts, to secure safety culture is preserved.	JRC.G.I.3	RTD	RTD JRC	ENER JRC	2021-09-01	2025-08-31	CON-IA INS-RS	3076127	PADEL02	Annual 2022 report on JRC contribution to PASCAL project	This deliverable will briefly summarize the main achievements and contributions of JRC (units G.I.3 and G.I.4) to the HORIZON2020 EU-project PASCAL for year 2022.	2022-12-01	Technical Reports	N
																	3076128	PADEL01	Annual report on JRC contribution to PASCAL project	This deliverable will briefly summarize the main achievements and contributions of JRC (units G.I.3 and G.I.4) to the HORIZON2020 EU-project PASCAL for year 2021.	2021-12-01	Technical Reports	N
1. A European Green Deal	1.4 Nuclear energy	20073	REVERSE	Promoting Reversibility: from nuclear back to the green field	JRC.G.I	30120	ENDKNOW	The nuclear cycle back-end knowledge management	The overall radioactive waste management challenges in the EU are: (i) implement geological disposal of high-level and intermediate level waste; (ii) develop the scientific basis and apply best-suited technologies for long term interim storage and retrieval of spent fuel, and, more generally, for the pre-disposal management of all forms of nuclear waste in the EU, including ill-characterized legacy waste; (iii) manage radioactive waste arising from forthcoming extensive decommissioning activities; (iv) contribute to a high common standard of the Member State Waste Management Programmes. The long-standing and key scientific-technological challenge is to implement, for the first time, geologic disposal of spent fuel and high-level waste. The time-scales involved are very long and include extended interim storage times (operation times of about a century). Three front-runner Member States (MS) are planning to commence operation of geological repositories during the next decade. The other MS have time-schedules where commencement is not planned for several decades or in some cases not before the XXII century. Another emerging key challenge is to manage the waste expected in the coming decades from decommissioning of both nuclear power plants and non-standard fuel cycle and research facilities, and other legacy wastes often poorly-characterized. During these long lead-times and implementation periods, one can expect concurrent developments in analytical tools, methods, and scientific-technical understanding. The same is true for the governance of large and especially controversial projects, all affected by evolving societal structures, socio-political processes (and pressure) and	JRC.G.I.6	RTD	RTD RTD RTD JRC	ENER RTD	2021-01-01	2022-12-31	CON-IA CON-IA CON-IA INS-RS	3001109	2	Roadmap for joint near future decommissioning research to improve safety, reduce costs and minimize environmental impact in the decommissioning of nuclear facilities	SHARE H2020 final report providing a roadmap for joint near future decommissioning research with the topics identified in the SRA in such a way that those relevant for joint activities are addressed in time according to the requirements. The report will propose a deployment plan showing how these joint activities could be implemented.	2022-11-15	Technical Reports	N
																	3001184	1	Concept for establishing the state-of-knowledge in the field of radiactive waste management research	Knowledge Management Concepts and Models are explored to set up a systematic approach of establishing the state-of-knowledge in the field of RWM research (EURAD and PREDIS).	2021-12-31	Technical Reports	N
																	3006741	3	ENDKNOW Scientific contributions	ENDKNOW Scientific contributions	2025-12-25	Journal contributions non-listed	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.4 Nuclear energy	20073	REVERSE	Promoting Reversibility: from nuclear back to the green field	JRC.G.I	30123	SADARAC	Stability, Defueling and Safe Conditioning of Damaged Reactor Cores	SADARAC focuses on the decommissioning, remediation and related waste management of a site/facility in case of significant contamination and/or release of radionuclides, e.g. in case of a severe accident. The activities will contribute to capitalize and improve JRC capabilities applicable to a broad range of decommissioning and remediation cases and relevant to expand the knowledge basis for foresight and assessments needed for policy support. Research on nuclear accidents in Europe historically concentrated mainly on the accident onset and progression. In contrast, how to deal with the aftermath after an occurrence or accident causing release of radionuclides and contamination has been quite unexplored. For instance, there have been relatively few investigations on the decontamination, remediation and waste management of a site after a severe accident. In general, the severity of the decommissioning and remediation challenge is determined by the modalities and consequences of the occurrence/accident. The Fukushima events are characterized by a long duration of the overheating in absence of cooling: melting was more extensive and at least in one core the vessel was breached. The spent fuel ponds were also affected, with possible physical damage to the fuel, but without melting. After the accident, a thorough assessment of the remediation of the nuclear facility is needed. SADARAC focuses on the properties and ageing behaviour of damaged/molten fuel (corium) at low temperature, after the accident. The experimental activities in this project leverage the expertise, competences and capabilities	JRC.G.I.6	ENER	JRC JRC	RTD		2021-01-01	2025-12-31	CON-TW INS-RS INS-UR	3000260	1	Scientific publications related to stability, defueling and safe conditioning of damaged reactor cores. 2021-2025	Scientific publications and conference contributions related to stability, defueling and safe conditioning of damaged reactor cores during 2021-2025	2025-12-31	Journal contributions (Clarivate)	N
																	3000262	2	Final Report on corium and spent nuclear fuel stability studies in post Fukushima accidental conditions	Main experimental results on corium and spent nuclear fuel stability studies in post Fukushima accidental conditions.	2022-03-31	Technical Reports	N
1. A European Green Deal	1.4 Nuclear energy	20073	REVERSE	Promoting Reversibility: from nuclear back to the green field	JRC.G.I	30124	INNOCHAR	Innovative Characterisation Tools	Radiological characterisation is recognised as an essential, but often costly and time-consuming step in the decommissioning process. INNOCHAR deals with contaminated structures and sites, including at the end of regular operation, or subsequent to accidental conditions where liability and responsibility goes beyond that of the operator. Necessary condition to implement such activities is the availability of accurate, flexible, fast and reliable tools for the characterisation and analysis of radionuclides contaminating sites and components. A large number of measurement techniques are available for successful application of radiological characterisation. In particular, in situ, real time measurements to collect data have increased the representativeness of the data and reduced the costs and time spent. Technical innovation should bring solutions to enable qualitative and quantitative determination of difficult to measure radionuclide levels in solid samples without sample dissolution. Furthermore, the development, testing and deployment of mass spectroscopy-based systems as well as the development of integrated imaging technologies with imaging software applications to characterise contaminant distributions are of paramount importance to support decommissioning characterisation efforts. JRC will contribute to fill this scientific and technological gap by leveraging its competence and capabilities in radiochemical analysis and radionuclide characterization. For example, JRC Karlsruhe in	JRC.G.I.6	RTD	JRC JRC	ENER		2021-01-01	2025-12-31	CON-IA INS-CDP INS-UR	3000396	1	Scientific publications related to innovative analytical techniques for waste characterisation for remediation purposes	Scientific publications and conference contributions related to the objectives of INNOCHAR	2022-12-31	Journal contributions (Clarivate)	N
																	3003127	2	Final Report regarding 'Improved Nuclear Site characterisation for Waste Minimisation D&D under Constrained Environments'	This final report summarises the work on 'Improved Nuclear Site characterisation for Waste Minimisation D&D under Constrained Environments' thereby aiming towards recommendations and guidelines for improving decision making of the industrial implementation for decommissioning and remediation activities. The report also contributes to effective knowledge sharing within the scientific community.	2021-12-31	Technical Reports	N
																	3003130	3	Annual progress report from CDP with Univ. of Sevilla (title to be defined)	The CDP with the Univ. of Sevilla will explore alternative natural/synthetic clay-based systems for radionuclide immobilisation in contaminated environments and/or waste disposal sites.	2021-12-31	Technical Reports	N
																	3003134	4	Annual progress report from CDP with Univ. of Sevilla (title to be defined)	The CDP with the Univ. of Sevilla will explore alternative natural/synthetic clay-based systems for radionuclide immobilisation in contaminated environments and/or waste disposal sites.	2022-12-31	Technical Reports	N
																	3003139	5	Annual Progress Reports + PhD from the CDP with Univ. of Sevilla (title to be defined)	The CDP with the Univ. of Sevilla will explore alternative natural/synthetic clay-based systems for radionuclide immobilisation in contaminated environments and/or waste disposal sites. (further specificities, incl. PhD title, to be defined)	2024-03-31	PhD theses	N
																	3003150	6	Scientific publications related to innovative analytical techniques for waste characterisation for remediation purposes 2021-2025	Scientific publications and conference contributions related to the objectives of INNOCHAR in the period 2021-2025	2025-12-31	Journal contributions (Clarivate)	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.4 Nuclear energy	20073	REVERSE	Promoting Reversibility: from nuclear back to the green field	JRC.G.I	30125	CONLEWA	Conditioning Legacy Waste	Research and other nuclear organisations have accumulated special or “exotic” unconventional solid legacy wastes in their hot cells and facilities, for which no (or few) fully demonstrated conditioning solutions exist. The chemical and physical properties of these materials will be investigated in order to define the scientific basis for sustainable solutions to be established. The ultimate goal is to contribute alleviating the legacy waste inventories and provide procedures to deal with special waste in a timely manner. For the JRC, this project has special relevance for its Karlsruhe site; the scientific research aims at identifying and developing potential applications in support to the operational decommissioning and waste management programmes, and in particular relating to removal of non-standard spent fuel from the facilities.	JRC.G.I.6	RTD	JRC	(blank)	2021-01-01	2025-12-31	INS-RS	3000223	1	Inventory of nuclear waste legacies in the hot cells of JRC Karlsruhe	Inventory of nuclear waste in the hot cells of JRC Karlsruhe including ceramography samples and JRC owned legacy fuels. A database will be implemented in order to keep track of nuclear legacies.	2022-12-20	Sci information systems and databases	N
																	3006744	2	Investigations of available methods and techniques to remove the legacy fuels from the facilities.	Literature review of analytical methods and fit for purpose characterisation techniques. Feasibility study for the legacy fuels present in the JRC Karlsruhe Hot Cell facility.	2025-06-26	Technical Reports	N
																	3033185	3	Scientific publications	Scientific publication and conferences proceedings related to all activities in the project.	2025-12-31	Journal contributions (Clarivate)	N
																	3033186	4	Exploratory Research Final Report	Final report of the Exploratory Project on radioactive liquid waste decontamination.	2021-04-30	Technical Reports	N
1. A European Green Deal	1.4 Nuclear energy	20073	REVERSE	Promoting Reversibility: from nuclear back to the green field	JRC.G.I	31360	CONFINE	Creation of highly active nanoparticle filters for nuclear liquid waste decontamination	European Parliament has requested that JRC builds upon its experience with the decommissioning of its own nuclear facilities and further reinforces its research to support safe decommissioning in Europe. In order to meet European Parliament expectations, JRC opens access to its own decommissioning and waste management (D&WM) programme with the goal of providing scientific and technical support for the nuclear decommissioning and waste management field as a whole. It covers a large spectrum of R&D activities, namely development of standards, innovative technologies, with the goal of providing scientific and technical support for the D&WM and as well as in the field of liquid waste management. The JRC-Ispra site has a legacy of nuclear liquid waste, which should be safely decommissioned. The exceptional knowledge and facilities of three nuclear units of Dir G supported by the nanomaterials experts of F2, provide a unique team able to develop, optimise and test the new absorbent material on real nuclear wastewater. This can be hardly achieved outside JRC. A novel inorganic filter with potential applications in the decontamination of nuclear wastewater was developed and characterized in the first stint of the Exploratory Project CONFINE (Work Programme 2019-2020, PRJ DISARM, WPK 8122). The filter will consists of cerium oxide (CeO2) nanoparticles with very small size (typically below 2 nm), supported on a non-woven tissue made of nanofibers. The synthetic methods for ultrathin nanoparticles was developed in the frame of the institutional projects SPECTRE, SPEND and DISARM, as a method to synthetize AnO2	JRC.G.I.3	RTD	JRC	(blank)	2021-01-01	2021-04-30	INS-ER	3090278	1	Final report of the Exploratory Project on radioactive liquid waste decontamination.	Final report of the Exploratory Project on radioactive liquid waste decontamination.	2021-09-30	Technical Reports	N
1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	30081	INVISION	Innovative eNVIronmental materials teSting and test miniaturisatION	The INVISION project is of cross-cutting importance for the safe long-term operation of current reactors, and the design of future nuclear systems. It innovates the understanding of the combined impact of radiation, coolant environment and high-temperature mechanical loading on the performance of materials subject to environmentally assisted degradation. This is done by exploiting unique test facilities through a combination of separate effect and synergistic studies, in order to identify detrimental exposure conditions giving rise to accelerated materials degradation. INVISION encompasses the Petten site contribution to Directorate G’s Open Access initiative with emphasis on the safety of reactor materials.	JRC.G.I.4	RTD	RTD RTD RTD RTD JRC	ENER GROW JRC	2021-01-01	2025-12-31	CON-AA CON-IA CON-IA CON-IA CON-IA CON-IA INS-UR	3000062	/ISION2021	TRIAS 2.0	Commissioning of the second generation TRIAS device for irradiation damage interaction testing in high temperature cooling environments	2021-09-30	Technical systems	N
																	3000966	/ISION2021	IB4N follow-up	Refined equivalence scheme for the emulation of neutron irradiation through proton irradiation	2021-10-15	Validated methods, reference methods and measurements	N
																	3000967	/ISION2021	NUCOBAM D1.1	List and repository of relevant guidelines, standards and documentation on additive manufacturing	2021-08-31	Sci information systems and databases	N
																	3000968	/ISION2021	ORIENT-NM Coordination and Support Action: Towards a European Joint Programme on Nuclear Materials	As Task Leader 4.2 “Interaction with bodies dealing with standardization, design codes, data and knowledge management, safety aspects”, JRC leads •D4.2 Draft protocol of European Joint Programme (EJP) collaboration with standardization, data and knowledge management of safety bodies (JRC, CIEMAT, CEA, EDF, ENEA, SCK-CEN) [M24] and contributes to •D2.5 Vision paper for a EJP on Nuclear Materials/ final version (KTH, CIEMAT, CEA, EDF, JRC) [M25]	2022-10-15	Science for Policy reports	N
																	3000969	/ISION2021	M4F deliverables	JRC contributions to periodic and final reports as well as the following topical deliverables for WP6 "Nanoindentation" under JRC leadership: D6.4: Report on the comparison and validation between MD and DD simulations of nanoindentation (SCK) M42; D6.5: Report on the transferability of ion to neutron irradiation effects as characterized by nanoindentation (HZDR) M42; D6.6: Report on the relationship between irradiation dose and nanoscale mechanical properties extracted from combined MD and FEM modelling (UHEL) M48; D6.7: Report on FE models of the deformation behaviour of irradiated materials at the indentation scale (AALTO) M48.	2021-12-31	Technical Reports	N

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																	3000970	/ISION2021	GEMMA deliverables	JRC contributions to periodic and final reports as well as the following topical deliverables under JRC responsibility: D4.7 Effect of liquid lead on mechanical properties of austenitic steels, their welds and implications for design (JRC) M36; D6.4 Proceedings of the workshop on weldings (JRC) M36; D2.5 Report on residual stress measurements (JRC) M42; D2.7 Recommendations for residual stress measurements and modelling for component design and safety/integrity assessments according to RCC-MRx (JRC) M48; D2.8 Proposal for Material Design Curves relevant to HLM conditions (JRC) M48.	2021-11-30	Technical Reports	N
																	3001085	/ISION2021	Scientific publications	Scientific publications originating from the institutional and contractual activities of the project	2021-12-15	Journal contributions (Clarivate)	N
																	3001133	/ISION2021	microMECH final report	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project.	2021-08-31	Technical Reports	N
																	3012711	/ISION2022	Scientific Publications 2022	Scientific publications originating from the institutional and contractual activities of the project	2022-12-15	Journal contributions (Clarivate)	N
1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	30102	DANTE	DisseminAtion of Nuclear Training and Education	Sustaining nuclear safety and security requires a highly specialized workforce not only in the nuclear energy industry but for the whole spectrum of nuclear applications and the associated parties (industry, operators, regulatory authorities, technical support organisations, public, etc.). The overall workforce situation in the EU (and worldwide) is at risk as highlighted by several reports published by OECD-NEA, IAEA and through the SET-Plan initiatives which focus on the importance of providing opportunities for professional development, advanced training of students as well as active interaction with the public. The establishment of sustainable education and training programmes is therefore essential in building and maintaining capacity in national nuclear safety/security systems. The DANTE project is structured along 2 main axes (1) Training & Education networking, sustaining competences in the EU; (2) Education and Training courses for students and professionals. These opportunities translate in high quality training courses, as well as, when relevant, dissemination of knowledge to the interested public. Through this project, the JRC intends to complement the human resources observatory and training & education initiatives both internal and external to the Commission. Cooperation is expected with other European Commission's Directorate Generals as well as with International Training & Education initiatives and networks like the European Nuclear Education Network (ENEN). Synergies will also be sought with other E&T-related JRC projects and the EU academy.	JRC.G.9	RTD	JRC	ENER HOME INTPA TRADE	2021-01-01	2025-12-31	INS-RS	3020791	301022102	Annual summary report 2021	Annual report summarizing project activities and training opportunities provided in the individual years of the project	2021-12-31	Technical Reports	N
																	3020792	301022101	On-line training catalogue	Internet-based repository of regular training and education activities in the fields of nuclear safety, nuclear science application, nuclear safeguards, nuclear security, nuclear waste management, nuclear decommissioning and radiation detection and measurement. The pilot version of the catalogue including education and training activities offered by directorate G through EURATOM direct actions will be gradually amended by education and training activities provided within EURATOM indirect actions.	2021-12-31	Sci information systems and databases	N
																	3052443	301022103	EURATOM Science User Facility	Ensuring access to the European and international research infrastructures is key to making the scientific progress in nuclear field and is one of the 6 founding block of the European Research Area enabling free circulation of researchers, scientific knowledge and technology asnd an essential component to training and education. Based on the study of the lessons learnt from former and current user facility projects, the feasibility of a frame and a set of common rules will be analysed for the future operation of a network of Euratom user facilities. The report will address the feasibility and possible JRC mandate to support a task force for developing a common ground to a possible 'EURATOM Science User Facility' in the context of a European program equivalent to the American one called 'Nuclear Science User Facility.	2021-06-30	Technical Reports	N
																	3052481	301022201	Nuclear Security Training Sustainability, retention of competence and engagement of stakeholders	This report will investigate a proposal for a more structured approach on how to build and strengthen nuclear security competence in the EU and beyond. It will identify mid-term and long-term objectives as well as priorities in order to make the training programme more sustainable in the long term. This includes increased engagement with stakeholders, updated methodologies to assess, retain and recognize nuclear security competence, and gradual inclusion of new teaching methods. It will target: Increase sustainability of training courses in cooperation with all stakeholders, Assessment of the target audience and the competence gap according to participants needs (ex: create profiles like CBRN profiles in GIFT FP7 project), and investigate and apply ways to assess competence.	2022-06-29	Technical Reports	N
																	3052521	301022202	Annual summary report 2022	Annual report summarizing project activities and training opportunities provided in the individual years of the project	2021-12-08	Technical Reports	N

JRC 2021 - 2022 DETAILED WORK PLAN (JPB extract as of 04 06 2021)

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
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1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	30103	NOWMAD	Nuclear knOWledge MAnagement and Dissemination	In the JRC strategy 2030, specific emphasis has been given for knowledge management, JRC's vision being "To play a central role in creating, managing and making sense of collective scientific knowledge for better EU policies". The vision also states that JRC will complement its research work by 'managing' knowledge from other sources. The project contributes to these strategic goals in the area of nuclear safety, security and safeguards. An Administrative Arrangement has been established between DG RTD and JRC on a pilot action on knowledge management in the area of nuclear safety. The Euratom Programme has supported research contributing to increased knowledge in nuclear safety via both collaborative projects (indirect actions) or via direct research actions implemented by JRC. JRC technical and scientific support is needed to go further in integrating the community in the area and facilitating the management of the created knowledge within that process. JRC has been asked to take appropriate actions supporting that common effort by developing methods and tools to gather and valorise the developed knowledge making it available for the benefit of the European research Community, bringing fission research direct and indirect actions closer and implementing a coherent programming. The project contributes to the second objective of the COMPETE project portfolio, by strengthening synergies between Euratom's Direct and Indirect Actions through integrated knowledge management.	JRC.G.9	RTD	RTD JRC	ENER JRC	2021-01-01	2022-12-31	CON-AA INS-RS	3000101	301032102	Nuclear KM pilot interim report	Report to DG RTD describing the project achievements and progress of the activities during the first project year	2021-02-28	Technical Reports	N
																	3000102	2101	Nuclear Horizon Scanning report 2021	Horizon scanning report to identify, discuss and communicate to relevant policy makers potential emerging issues in the nuclear field in 2021 that might have policy and societal implications for Europe.	2021-12-15	Science for Policy reports	N
																	3000165	301032201	Nuclear Horizon Scanning report 2022	Horizon scanning report to identify, discuss and communicate to relevant policy makers potential emerging issues in the nuclear field in 2022 that might have policy and societal implications for Europe.	2022-12-15	Science for Policy reports	N
																	3000166	301032202	Nuclear Safety Knowledge Management Platform	Final version of the pilot KM platform with extension and maintenance plans	2022-09-30	Sci information systems and databases	N
																	3000167	301032203	Nuclear KM pilot final report	Final report to DG RTD on the AA PIKNUS	2022-11-30	Technical Reports	N
																	3092256	966527	Preparation of H2020 ex-post evaluation	Gathering, structuring, complementing and making sense of the knowledge production during H2020 for the Euratom evaluation process.	2022-12-31	Technical Reports	N
1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	30104	NODIS	Nuclear Outreach and Dissemination	Excellent science needs effective communication and dissemination. Dissemination is the interactive process of communicating knowledge to target audiences so that it may be accessible and used to lead to change. The challenge is to improve the accessibility of desired knowledge products by those they are intended to reach, both internally and externally the organisation/Directorate. This means creating dissemination and outreach activities to as large a proportion of the target audience as possible and making the product comprehensible to those who receive it. Communicating in nuclear technologies domain requires a lot of engagement internally with staff but also with their families, local communities, local media, state/regional organizations, national media, scientific and professional organizations and international public.Many studies have shown nuclear threat creates particularly strong negative emotions among the population at large. Another big barrier is lack of trust. Strategic communication and dissemination will help to support a better accessibility to the knowledge generated by JRC scientists, explain the wider societal relevance of JRC nuclear activities, as well as ensure uptake of results within and beyond the scientific community. Overall, it aims bringing research and its outcomes to the attention of non-scientific audiences, scientific peers, potential partners or policymakers and increasing the impact and visibility of research and innovation carried out at or in collaboration with JRC in support to the European Union policies. This project will cover knowledge diffusion ("just let it happen" •passive, unplanned,	JRC.G.9	COMM	JRC	JRC	2021-01-01	2025-12-31	INS-RS	3017921	3014223	Report on webpages content management and creation	Coordination, harmonisation and creation of Dir G web presence to ensure that web projects reflect a coherent view of Dir G's vision and activities, and that the new pages created on the SH are in compliance with EC web standards.	2022-02-28	Technical systems	N
																	3017922	3014213	Production of publications, brochures and flyers (other than scientific reports)	The outreach and dissemination activities are complemented with a wide range of tailored communication products and channels. Dir G promotional material (e.g. briefings, leaflets, brochures, ad-hoc flyers e.g. for meetings and conferences) but can also include additional tools such as videos (interviews, animation, etc.), blogs, targeted newsletters, storytelling.	2021-12-31	Technical Reports	N
																	3017923	3014221	Concept for Mentoring and coaching for nuclear knowledge management	Annual communications activity report where all the outputs and activities would be described. Make reference to IAEA	2022-02-28	Technical Reports	N
																	3017924	3014211	Guidance and training for usage of social media	Dir G Social Media presence including Facebook, Twitter, Linkedin, and Youtube to connect with policy-makers and stakeholders. End user and "ad hoc" Connected support, as well as cross-units process support with emphasis on communities in collaboration.	2021-12-31	Training	N
																	3017925	3014212PF	Strategic plan – Directorate Knowledge Dissemination Strategy	Strategic plan – Directorate Knowledge Dissemination Strategy for current year 2021	2021-02-28	Technical Reports	N
																	3034205	3014222PF	Strategic plan – Directorate Knowledge Dissemination Strategy 22	Strategic plan Directorate Knowledge Dissemination Strategy for current year 2022	2022-02-28	Technical Reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	30122	ADAM	Advanced analysis methods for the characterisation of complex nuclear materials	The project addresses the implementation of the EURATOM legislation for safe management of Spent Nuclear Fuel (SNF); supports international harmonisation related to the management of SNF (transport, intermediate storage and final disposal); contributes to a European Joint Programme on Radioactive waste management (EURAD) project and provides support to safeguards inspectorates (i.e. DG-ENER and IAEA) ans EU Member States (MS) oragnisations (authorities, TSO, WMO and RE). The project relies on the use of expertise, competences and specialized nuclear infrastructures at JRC Geel and JRC Ispra which complement MS infrastructures and efforts.	JRC.G.2	RTD	RTD JRC	ENER RTD	2021-01-01	2024-12-31	CON-IA INS-RS	3002377	)12220210(	Characterisation of spent nuclear fuel: a state-of-the-art report	A state-of-the art review of characterisation of spent nuclear fuel. The review concerns nuclide inventory computational methods and tools and non-destructive analysis methods. This report is a valuable input to the project NDASFGSECWM (30330) for NDA safeguards methods to verify spent fuel assemblies in fuel ponds.	2021-08-30	Technical Reports	N
																	3002381	)12220220(	Inventory of SNF key nuclides	The report identifies the key nuclides of importance to determine/predict the source terms of importance for a safe, secure, ecological and economical handling, transport, intermediate storage and final disposal of SNF. In addition nuclear data requirements to improve nuclide inventory calculations are addressed. These requirements are an input to the ANDANTE project. This report is also important to understand uncertainties related to the use of depletion codes for spent fuel verification using FORK type of detectors (i.e .ORIGENARP)	2022-06-30	Technical Reports	N
																	3002382	)12220220(	Scientific publications	Scientific papers in peer reviewed journals and conference contributions related to the characterisation of complex nuclear material discussing covering progress made in the use of theoretical calculations with neutron transport/depletion codes and development and improvements of NDA systems.	2022-12-16	Journal contributions (Scopus)	N
																	3007355	)12220220(	Dissemination and transfer of knowledge and results to EU member state and international organisations	Contributions to conferences, workshops and meetings. This includes contributions to progress meetings of the EURAD and JEFF project and of collaboration agreements with EU MS organisations. It includes presentations at school and invited lectures and seminars.	2022-12-16	Training	N
1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	30140	EUFRAT	Open Access to the nuclear research infrastructure at JRC Geel	The EUFRAT project is part of a general effort to offer open access to research infrastructures in the JRC based on the European Charter for Access to Research Infrastructures. It is part of a pilot project that is supported by DG-RTD to strengthen synergies between Euratom direct and indirect actions. This project, which started in 2020 and will run for 4 years, provides financial support for users and promotes activities for mobility of researchers. The EUFRAT project addresses quality based open access to specialised nuclear facilities at JRC Geel of pan-European relevance. It relies on the use of specialised nuclear laboratories around these facilities operated by JRC.G.2 and nuclear expertise within JRC.G.2 complementing EU Member States (MS) infrastructures and efforts to maintain and further develop expertise and nuclear competences within the MS and to ensure the availability of high level qualified researchers and engineers in the EU.	JRC.G.2	RTD	RTD RTD JRC	EAC ENER JRC	2021-01-01	2024-12-31	CON-AA CON-IA INS-RS	3002440	)14020220(	Open access yearly summary report 2022	This summary report describes the global activity and management during a calendar year period: calls for proposals, USC meetings, summary of proposal, access provided, results of implemented proposals	2022-12-15	Technical Reports	N
																	3002441	)14020210(	Open access summary report 2021	This summary report describes the global activity and management during a calendar year period: calls for proposals, USC meetings, summary of proposal, access provided, results of implemented proposals	2021-12-21	Technical Reports	N
																	3058649	)14020210(	Electronic setup for time-of-flight transmission and reaction cross section measurements at GELINA	The report describes the main components of the electronics that are used for time-of-flight transmission and reacion cross section measurements at GELINA. The report is a guide for external users.	2021-05-28	Technical Reports	N
																	3058650	)14020210(	Trainng course	Organise an online training module to use codes for processing and reduction of data obtained from transmission and capture cross section measurements at GELINA	2021-11-30	Training	N
1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	30141	ANDANTE	Accelerator based nuclear data and associated applications in nuclear technology	The project addresses: • the development of safe and secure nuclear technologies for nuclear energy and non-energy applications; • the contribution of nuclear research to social well-being, economic prosperity and environmental sustainability by improving and ensuring the highest standards of nuclear safety, security and safeguards; • nuclear research contributing to the long-term decarbonisation of the energy system; • nuclear research in the domain of applied theoretical and experimental studies of low energy nuclear reactions, fission and ionisation radiation . The focus is on the production of evaluated nuclear data libraries related to the interaction of neutrons, gamma-rays and light charged particles with materials with an emphasis on neutron interactions and the nuclear fission process. Such libraries form an essential input when evaluating safety and risks related to the generation of nuclear power and the entire nuclear fuel cycle including the back-end, i.e. intermediate storage and disposal of spent nuclear fuel, nuclear waste management and decommissioning. They are required for the development and licensing of innovative systems such as MYRRHA. Nuclear data become increasingly important for nuclear safeguards and security applications due to the increased use of Monte Carlo simulations for the design and calibration of non-destructive analysis instruments. Neutron data libraries play a crucial role in non-energy areas and disciplines such as fundamental physics, astrophysics, material	JRC.G.2	RTD	RTD JRC	ENER RTD	2021-01-01	2025-12-31	CON-IA INS-RS	3001167	)14120220(	Scientific publications	Scientific papers in peer reviewed journals related to the production of validated experimental and evaluated nuclear data	2022-12-16	Journal contributions (Clarivate)	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3001168	)14120220(	Production of experimental and evaluated data for the nuclear data community	Production of experimental and evaluated cross section and nuclear fission data in support to the Nuclear Data Community. This includes experimental data submitted to the EXFOR data library and recommendations to improve the JEFF library, both maintained and co-ordinated by the NEA/OECD for the EU MS. For each data set submitted to EXFOR a technical report documenting the data is produced. Recommendations for the JEFF library are reported at the annual JEFF meetings. In addition, support is given to specific nuclear data projects organised by the Working Party on International Nuclear Data Evaluation Co-operation (WPEC) and the Nuclear Data Section of the IAEA (NDS/IAEA). This includes the delivery and reporting of nuclear data for special purpose nuclear data files covering a broad range of nuclear technology applications: neutron standards project, neutron dosimetry file, neutron activation file, nuclear decay data file, fisison product file, astrophysical data base, ...	2022-12-16	Technical Reports	N
																	3007360	)14120220(	Dissemination and transfer of knowledge and results to EU member state and international organisations	Contributions to conferences, workshops, schools and meetings and invited lectures and seminars. This includes contributions to progress meetings of the JEFF project, to technical consultants meetings and Coordinated Research Projects (CRP) organised by NDS/IAEA, to experts groups and specific subgroups organised by WPEC and to progress meetings of collaboration agreements with EU MS organisations.	2022-12-16	Training	N
1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	30142	TARGET	Production and characterisation of targets for nuclear data measurements	This project supports nuclear data measurements of importance for nuclear reactor safety and for technologies dealing with long-lived nuclear waste with the provision and development of well-characterised nuclear targets. Most of the targets are produced and characterised for measurements carried out by JRC staff at the GELINA and MONNET facility. The project also provides targets on request for users outside the JRC through open access to JRC Research Infrastructures, (EUFRAT), through Member States and partner DGs (RTD). High quality targets enable JRC to have leading roles in providing input to international nuclear data databases maintained by the Nuclear Energy Agency (NEA) of the Organisation for Economic Co-operation and Development (OECD), the International Atomic Energy Agency (IAEA) Nuclear Data Services and others. In addition, to supporting Member State's policies in the nuclear field the provision of targets relies on continuous scientific development and research collaboration agreements, such as the JRC-CEA Safety Research agreement and in contribution to European projects with Member States and partner DGs (RTD). The JRC.G.2 capabilities and competences in nuclear target preparation and characterisation are unique and are a main contributor to the excellence of the JRC in this core field for the JRC EURATOM programme. This project supports the 3 pillars of the COMPETE portfolio, reference standards for research, open access to Member States and knowledge transfer to the next generation of researchers.	JRC.G.2	RTD	JRC	EAC ENER GROW RTD	2021-01-01	2022-12-31	INS-RS	3011047	)14220220(	Well-characterised active and non-active targets	Material information sheets of a number of well-characterised targets for accurate nuclear data measurements at the JRC GELINA and MONNET facilities, at external acceleration sites under respective CAs and via open access to JRC Research Infrastructures, (EUFRAT).	2022-12-01	Reference materials	N
																	3011110	)14220220(	Scientific Articles in international refereed journals	High level scientific articles in international refereed journals	2022-12-22	Journal contributions (Scopus)	N
																	3012578	)14220220(	Dissemination and transfer of knowledge to EU member states and international organisations	Providing hands-on training to students and (young) professionals. Contributing to conferences, workshops and meetings such as organised by the INTDS	2022-11-01	Training	N
1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	30145	ARMOR	Accurate Reference Measurements of Radioactivity	ARMOR promotes metrology in the field of radioactivity measurement, through reference measurements, best practices and standardization initiatives in collaboration with EURAMET, national metrology institutes, CCRI of BIPM, ICRM and standardisation organisations. It has very strong links to the JRC Project Nusta4EU, the output of which is largely relying on the experimental activities in ARMOR. This project deals with reference measurement of radioactivity using primary and secondary standardisation methods, various spectrometric methods, as well as low-level methods. • The JRC promotes a common terminology and measurement system for radioactivity (Euratom Treaty, Article 8). The ARMOR project embodies this work, which i.a. includes establishment of the SI-unit Bq on which international equivalence and traceability of ALL SI-traceable radioactivity measurements worldwide are based. Such work requires use of primary methods, i.e. methods that do not require a calibration source. • By performing and contributing to key comparisons JRC supports free trade through the Mutual Recognition Agreement. • An extremely important spin-off of primary measurements is the production of high accuracy nuclear decay data, such as half-lives and emission probabilities. Nuclear spectrometry laboratories require these data to convert count rates in their detectors into SI-traceable activities. Improved data with reliable uncertainty evaluations are much needed in today's society, for example, for the many radionuclides used (or to be used) in nuclear medicine. For this,	JRC.G.2	ENER	JRC	GROW RTD SANTE	2021-01-01	2025-12-31	INS-RS	3000220	1	Scientific Articles in international refereed journals	High level scientific articles in international refereed journals	2022-12-31	Journal contributions (Clarivate)	N
																	3000240	2	Underground science	A report describing the status of underground science and the impact of the work performed in many EU member states.	2022-12-01	Technical Reports	N
																	3000241	3	Radioactive reference measurement	Technical reports describing radioactive reference measurements	2022-11-30	Technical Reports	N

JRC 2021 - 2022 DETAILED WORK PLAN (JPB extract as of 04 06 2021)

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	30164	ActUsLab	Actinide User Laboratory	Safety precautions at Universities in Europe have almost excluded the possibility of working beyond uranium in the periodic table; with JRC's unique facilities being opened to the academic community on the basis of peer-reviewed proposals, Europe's researchers can still be at the cutting edge of this vital field. PAMEC, FMR and HC-KA are an ensemble of state-of-the-art installations designed for basic and applied research on behaviour and properties of actinide and nuclear materials.	JRC.G.I.5	RTD	RTD JRC	RTD	2021-01-01	2022-12-31	CON-AA INS-RS	3001725	AYR21	ActUsLab Yearly summary report 2021	The report describes the global activity and management during a calendar year period : calls for proposals, Access provided (number of operating days), results of implemented proposals (scientific publications)...	2021-12-21	Technical Reports	N
																	3001727	AYR22	Title ActUsLab Yearly summary report 2022	The report describes the global activity and management during a calendar year period : calls for proposals, Access provided (number of operating days), results of implemented proposals (scientific publications)...	2022-12-21	Technical Reports	N
																	3066502	Pub	Publications	This deliverable contains the publications issued from the scientific works performed at the nuclear facility of JRC-Karlsruhe in the frame of the Open Access	2024-06-30	Journal contributions (Clarivate)	N
1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	30165	NuMaDIT	Nuclear Materials Data for Innovative Technologies	There is an ever growing need for innovative materials in societal applications such as energy production, environmental safety or health. Solutions generally emerge from underpinning research targeted towards concrete results and valorising existing research installations as well as know how. By cleverly combining material synthesis, instrumentation for analysis and databases, a high degree of efficiency is achieved. In particular we valorise the unique material properties of actinides in using them as novel materials for hydrogen production, nuclear chronometry and nano-scaled materials with specific properties. Systems are mainly based on thin films and nanomaterials, in which we have an internationally recognized expertise. Our facilities are unique in Europe and the world. Theoretical modelling and regular update of nuclide database supports the experimental work. The project supports the JRC Open Access activity through ActusLAb project including PAMEC, FMR and HC-KA facilities by providing samples requested by the users. Numadit will also collaborate with the SPA project for the americium recovery necessary to prepare the targets as radioisotope power systems for space application. It will share its competences in catalyst preparation to initiate the Hygen project, DECARB portfolio, which is about applications in hydrogen storage and carrier technology. The nanoparticle expertise will be also of use for the RadioMed project, PROTECT portfolio, linked to medical application. Therewith, NuMaDIT contributes strongly to the	JRC.G.I.5	RTD	JRC	ENER RTD	2021-01-01	2022-12-31	INS-RS	3010734	AYR21	Scientific publications and technical reports	The proposed activities lead to the development of novel materials and methods (see context, objectives and methodogies used) which will be reported in journal.	2022-12-31	Journal contributions (Scopus)	N
1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	30185	SPA	Space Power Applications	To strengthen its abilities, the European Space Agency (ESA) has decided to develop a radioisotope power source (RPS) for future independent European space missions. The power source will be based on the decay heat of Am-241, a radioisotope which is available in Europe from the clean-up of reprocessed Plutonium from spent nuclear fuel. Within the project SPA, JRC is supporting the ESA development, and pursuing the development of a chemically stabilized form of Americium oxide, which is now the basis for ESAs design. The focus will be on pellet fabrication and safety encapsulation, and systematic investigations of safety relevant thermal, chemical and mechanical properties. The new project will be conducted in close collaboration with ESA, via partner organisations , such as NNL and University of Leicester, which is leading the design efforts of the European RPS.	JRC.G.I.3	GROW	JRC	ENER JRC RTD	2021-01-01	2024-12-31	INS-RS	3007791	DEL20212	Investigation of lower limit for americium oxide stabilisation	The lower limit of uranium dopant needed to stabilize americium oxide in its cubic form will be investigated. Systematic synthesis studies on high purity americium oxide separated freshly from Pu stocks in Europe will be performed, as well as stability testing under reductive and oxidizing atmospheres.	2021-12-31	Technical Reports	N
																	3007792	DEL20211	Scientific articles	Scientific publications or conference contributions related to studies of the RHU process published during the year 2021	2021-12-31	Journal contributions (Clarivate)	N
1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	30240	A-ToF	Exploratory Research Project - Alpha spectrometry by time-of-flight	The A-TOF project contributes to the Exploratory Research (ER) Programme. The main goal of the proposed ER project A-TOF is designing and constructing an experimental set-up to measure the energy of alpha particles by time-of-flight. The JRC is the world's leading reference laboratory in alpha-particle spectrometry and provider of accurate data associated with radioactive alpha decay. These reference decay data ensure that laboratories worldwide apply a common measurement system for radioactivity, a task set out for the JRC in Article 8 of the Euratom Treaty. At present day, use is made of planar silicon detectors close to the physical limits of what they can achieve with respect to energy resolution and linearity. As a result, decay schemes of important radionuclides lack precision and significant progress can only be made by adopting a more advanced technology. The proposed technique is time-of-flight measurement of the alpha particles emitted in decay, which is expected to improve the energy resolution from 10 keV to about 2 keV. The exploratory research proposal pertains to the design and construction of a time-of-flight detection system dedicated to alpha particles. As a result, complex spectra with interfering peaks can be deconvoluted with better accuracy [4]. In addition, if an absolute energy calibration can be established with sufficient accuracy and linearity over a wide energy range, a systematic study can be performed to	JRC.G.2	RTD	JRC	ENER RTD	2021-01-01	2022-02-28	INS-ER	3000959	plementatio	Progress report on the construction of the A-TOF facility	Progress report on the construction of the A-TOF facility	2022-02-28	Technical Reports	N
																	3000960	Design	Progress report on the design of the A-TOF facility	A report on the theoretical design of the A-TOF facility	2021-04-01	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	30312	ACCESS	Open Access to JRC Infrastructure for nuclear Safety and Security Research	The ACCESS project is part of a global Pilot Action on open access to JRC research infrastructures. More specifically this project is dedicated to the open access of Dir-G nuclear infrastructures for which the Administrative Arrangement N° 35658 has been signed between DG-RTD and DG-JRC in February 2020. The purpose of this Administrative Arrangement is be able to offer third parties, free of charge, access to JRC nuclear research facilities located in Karlsruhe, Geel and Petten, promoting training and mobility activities between academic institutions, research centres and industry, as well as support for maintaining multi-disciplinary nuclear competences and broaden the availability of suitably qualified nuclear researchers, engineers and employees in the EU.	JRC.G.I	RTD	RTD JRC	ENER JRC	2021-01-01	2024-12-31	CON-AA INS-RS	3005915	D1	Intermetiate report on the implementation of Dir-G Open Access	This intermediate report summarizes the Open Access activities performed on the 3 sites (Karlsruhe, Geel and Petten) after 18 months of operation: the document will describe in details the calls for proposals, management meetings, summary of proposal, access provided, results of implemented proposals and associated budget.	2021-12-31	Technical Reports	N
																	3005917	D2	Second intermediate report	This intermediate report summarizes the Open Access activities performed on the 3 sites (Karlsruhe, Geel and Petten) after 36 months of operation: the document will describe in details the calls for proposals, management meetings, summary of proposal, access provided, results of implemented proposals and associated budget.	2023-06-30	Technical Reports	N
																	3005926	D3	Final report of the Open Access activities of Dir-G	This final report summarizes the Open Access activities performed on the 3 sites (Karlsruhe, Geel and Petten) after 18 months of operation: the document will describe in details the calls for proposals, management meetings, summary of proposal, access provided, results of implemented proposals and associated budget.	2024-12-13	Technical Reports	N
																	3005930	D4	Workshop on the Open Acess activities performed at the Dir-G within the frame of a Pilot Project between DG-RTD and DG-JRC	Workshop dedicated to present the results and outcomes of the Pilot Project on the Open Access activities at the Nuclear facilities of Dir-G	2023-09-27	Training	N
1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	30880	microMECH	Novel Micromechanical Testing Methods for the Characterization of Nuclear Materials	The microMECH project contributes to the Exploratory Research (ER) Programme. It proposes to develop and validate a new methodology for mechanical testing of structural materials for nuclear applications, in such a way that the activity of the irradiated material is low enough to allow the characterisation be made without hot cell infrastructure. The tests, accompanied by numerical modelling and in-situ observation of the deformation mechanisms, will allow the assessment of mechanical properties at different levels of irradiation damage and for different ageing conditions of the materials. The project is particularly important for the Long Term Operation of nuclear power plants giving rise to elevated irradiation doses which normally require extremely expensive infrastructures for the assessment of material degradation. The methodology is also expected to facilitate the investigation of materials subjected to very high levels of irradiation coupled to high temperatures and corrosion environments of relevance for future reactor generations	JRC.G.I.4	RTD	JRC JRC	RTD	2021-01-01	2021-12-31	INS-ER INS-UR	3018879	microMECH	Final report	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project.	2021-12-31	Technical Reports	N
1. A European Green Deal	1.4 Nuclear energy	20077	COMPETE	Broadening Nuclear Knowledge and Competence	JRC.G.I.4	31381	Ultimate	Investigation of Ultra-High Temperature Ceramics	The ULTIMATE project contributes to the Exploratory Research (ER) Programme. The main goal of the ER project ULTIMATE is the study of ultra-high temperature ceramics. The development of next generation space vehicles, high-temperature turbines and nuclear reactors will be enabled by materials that can withstand extreme conditions, such as very high temperatures, thermal shocks and corrosive environments.	JRC.G.I.3	RTD	JRC JRC JRC	DEFIS ENER RTD	2021-03-01	2023-02-28	INS-ER INS-RS INS-UR	3090370	1	Final report of the ULTIMATE exploratory Research Project	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project. A mid-term technical report will be produced at the end of year 1.	2023-02-28	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20143	SVC-RAWMAT	Strategic value chains: secure and sustainable raw materials	JRC.D.3	30323	RMIS	Raw Materials Information System	The Raw Materials Information System (RMIS) is a commitment in the 2015 Circular Economy Action Plan (CEAP). The RMIS acts as the EC's reference knowledge platform on non-energy, non-agricultural raw materials from primary to secondary sources, along the entire raw materials value chains and considering the full material life cycle, along the entire raw materials value chains. The RMIS provides the core basis for raw materials knowledge and analyses required to support EU policy, in particular the European Green Deal, the new Circular Economy Action Plan and the new 'Industrial Strategy for Europe'. It also facilitates knowledge needs related to the triennial list of Critical Raw Materials (CRMs) for Europe, the upcoming 2020 Critical Raw Materials Action Plan, the development of the biennial EU Raw Materials Scoreboard , the strengthening of the raw materials knowledge base for Africa. As indicated in the 2015 CEAP, a core focus area for the RMIS is that related to the efficient and sustainable recovery of secondary raw materials (SRMs). In this area, and supporting the forthcoming revision of certain EU Directives on waste, the RMIS facilitates the analysis of options for recovery of SRMs from municipal waste streams, arising e.g. from improved performance of separate collection strategies and recycling / recovery technologies. The RMIS supports EC policy needs through data management and a web interface, in particular addressing knowledge needs identified by the EC related to the secure, sustainable and socially acceptable raw materials along strategic value/supply	JRC.D.3	GROW	ENV JRC	ENV INTPA	2021-01-01	2022-12-31	CON-AA INS-RS	3010538	202102	Further development of Raw Materials' Profiles	Raw Materials' Profiles are a key building block of RMIS. They provide material-specific summaries of selected information and quantitative indicators relevant in the context of e.g. the European Green Deal (COM/2019/640), the new 'Circular Economy Action Plan For a cleaner and more competitive Europe' (COM/2020/98) and the new 'Industrial Strategy for Europe' (COM(2020) 102). Raw materials' profiles provide access to knowledge relative to the supply and value chains of raw materials such as the broad group of materials analysed in the context of the 2020 EC criticality analysis, conflict minerals, linked to e.g. EC Responsible Sourcing Regulation and OECD Risk Portal, base metals, and selected biotic materials. Raw materials' specific information includes sections related to security-of-supply and sustainability. This includes on material stocks and flows, supply chain risks/bottlenecks, resilience, environment particularly climate change, and social considerations	2021-12-31	Sci information systems and databases	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3010539	202103	Further development of EU Country Profiles	Further development of the 'EU Country Profiles' tile in the RMIS, including improvements/update of existing profiles and development of profiles for remaining EU MS. Country profiles provide access to selected country-specific information related to raw materials and their supply and value chains. They include quantitative indicators relevant in the context of e.g. the European Green Deal (COM/2019/640), the new 'Circular Economy Action Plan For a cleaner and more competitive Europe' (COM/2020/98) and the new 'Industrial Strategy for Europe' (COM(2020) 102). Country specific information is structured in relation to related to security-of-supply and sustainability. This includes on material stocks and flows (reserves, urban stocks, trade, production, circularity), supply chain risks/bottlenecks, resilience, environment particularly climate change, and social considerations (responsible sourcing, conflict minerals).	2021-12-31	Sci information systems and databases	N
																	3010540	202104	Further development of the underlying RMIS' knowledge system	All content-related output/development in the RMIS relies on expansion, improvements and maintenance of the RMIS' underlying knowledge management system, in particular the database. Towards this end, all currently fragmented developments in the RMIS shall be brought into one coherent structure or system of databases. This would initially build on data required for the RM Profiles and for the Supply Chain Viewer in the RMIS together with those used e.g. for the EU CRM Assessments (excel spreadsheets and CRM factsheets), MSAs, value chain analysis, etc. Ensuring coherence will be a key focus, particularly how to ensure that linkages are optimized also to provide additional quality assurance, cross-comparison, as well as to fill gaps.	2021-12-31	Sci information systems and databases	N
																	3010541	202201	Analysis of selected environmental and social sustainability aspects of raw materials supply for strategic raw materials value chains (joint JRC-EEA deliverable)	This joint JRC-EEA deliverable aims to compile knowledge related to the environmental and social sustainability of (non-energy, non-agricultural) raw materials supply, with a focus on e.g. critical raw materials, conflict minerals and selected strategic value chains. A key consideration will be the development of lists of materials related to high concerns in the contexts of climate change of responsible sourcing/conflicts in these sectors. This knowledge will be duly included in the RMIS, allowing to enrich scope and content of the RMIS' tile focused on sustainability, and may be used to support the development of selected indicators for next editions of the EU Raw Materials Scorebaord. The proposed cooperation also aims at monitoring the progress of selected EU countries in ensuring a secure and sustainable supply of raw materials.	2022-12-31	Technical Reports	N
																	3010542	202101	2021 RMIS Roadmap & Progress Report	The 2021 edition of the RMIS Roadmap is developed for the RMIS to define a joint common vision, scope, and development options for the years to come. These will be defined through ad-hoc interactions with selected policy DGs, JRC colleagues, ESTAT, EASME, and EIT-RM. The roadmap defines milestones with colleagues/stakeholders and accounting for its focal role for the European Raw Materials Knowledge Base and European policy support needs. These milestones reflect short term and long-term objectives, priorities, as well as the strategies / actions to be followed. This 2021 edition also provides a thorough analysis of potential options for improving the RMIS knowledge management functions/services, including a revamp of the Raw Materials Knowledge Gateway tile. It also include a review of possible steps to improve the RMIS' knowledge system, in particular the database. To this end, all currently fragmented developments in RMIS shall be brought into one coherent database.	2021-12-31	Technical Reports	N
																	3010564	202202	Development of new tile/pilot content for RMIS, with focus on Africa	Available knowledge on raw materials for African countries may be limited and fragmented. Nonetheless, African countries are vital raw materials trade partners for Europe; essential to meeting many EU policy objectivesincluding in relation to environmental and social considerations. This deliverable aims to develop pilot profiles for more coherent and reliable knowledge on raw materials in Africa and its countries. This includes e.g. the development of selected African Country Profilesin relation to sustainable, secure sourcing and circularity of raw materials in Africa.	2022-12-31	Sci information systems and databases	N
																	3010574	202203	RMIS Networking and Cooperation	The RMIS will expand and strengthen its interactions with networks, initiatives and activities related to data, information and expertise exchange with Member States and selected organisations, as outlined in the Project Scope. This includes organization of events, such as the Annual International RMIS Workshop. In the frame of the EU Raw Materials Week that is held in Brussels in November each year, JRC – upon agreement with DG GROW – will support e.g. the organization of the EU Raw Materials Knowledge Base Day. It also includes the development of the bi-annual RMIS Newsletter, as well as other informative material (leaflets, flyers, etc.) Type of deliverable: workshops and events	2022-12-31	Training	N
																	3010590	202204	Assessing the knowledge needs for updates of the EU Raw Materials Scoreboard & the Circular Economy monitoring	The previous editions of the RM Scoreboard provided a broad set of indicators that enabled a multi-criteria assessment of the European raw materials sector. Among these, a cluster of indicators focused on Circular Economy. Towards developing the knowledge base for the next editions of the EU Raw Material Scoreboard, this deliverables proposes options for indicators that could allow for a streamlined monitoring & evaluation of raw materials value chains, especially with respect to aspects related to the circularity of such value chains. These indicators will, in particular, be based on the knowledge already available in the RMIS, e.g. in relation to RM Profiles and value chains analyses. Special focus will be devoted to those value chains identified by the EC as fundamental to achieving the low carbon / digital transition and strategic autonomy of Europe.	2022-12-31	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3100789	202205	Analysis and further development of data and knowledge on secondary raw materials (SRMs) and sustainable management of municipal waste in Europe	The objective of this deliverable is the collection, analysis, harmonization, treatment, management and visualization of data, information and knowledge (into the RMIS) in a structured manner to support the development of an EU harmonised model for separate collection of municipal waste and an improved definition of recycling from an environmental and resource efficiency perspective. Findings from this work will be used to support the forthcoming revision of the overarching Waste Framework Directive (2008/98/EC), as foreseen in the European Green Deal and its Circular Economy Action Plan.	2022-12-31	Sci information systems and databases	N
1. A European Green Deal	1.5 Green and sustainable economy	20143	SVC-RAWMAT	Strategic value chains: secure and sustainable raw materials	JRC.D.3	30325	SureVAL	SUstainable and secure sourcing of Raw materials for future competitive and low carbon European strategic VALue chains	Sustainable and secure sourcing of raw material is crucial to decrease supply chain vulnerability, increase resilience and competitiveness of the EU, as well as to deliver on Green Deal and SDGs. Key value chains e.g. batteries, vehicles, ICT, space/defence and energy intensive industry are at the heart of the new European Industrial Strategy COM(2020)102, of the new Circular Economy Action Plan COM(2020)98, Critical Raw Materials Resilience COM, Critical Raw Materials Resilience and CRM Action Plan: these value chains and related industrial ecosystems are a pre-requisite to the twin low carbon and digital transition and strategic autonomy of Europe and essential to achieve the EGD. According to EGD, the sustainable supply of (critical) raw materials is necessary to these value chains and will be ensured by diversifying supply from primary and secondary sources. Related materials are also strongly associated with critical raw materials and conflict minerals. These policy objectives require robust knowledge and analyses, in line with the commitments of the RMI COM/2008/0699 final and with the upcoming Critical Raw Materials Action Plan. Following the CEAPII and CRMR, knowledge on secondary raw materials will be reinforced and the impact of circularity and resource efficiency on climate change mitigation will be measured in a systematic way along the life cycle. Exchange of primary and secondary raw materials with key trade partners (e.g. Africa, Latin America) will also have to be looked at. Additionally, social and economic assessments will be	JRC.D.3	GROW	ENV JRC	COMP ENV INTPA RTD SG TRADE	2021-01-01	2022-12-31	CON-AA INS-RS	3011438	202101	First concept of a global or regional Waste Battery Monitor	First concept of a global or regional Waste Battery Monitor: tracking stocks and flows of raw materials in batteries. A zoom to a particular non-EU region (e.g. Africa) is planned. This work will increase knowledge on secondary raw materials outside the EU and also feed into global efforts towards Circular Economy (e.g. Global Alliance on Circular Economy and Resource Efficiency (GACERE) and other regional initiatives) and contribute to SDGs (especially SDG 12).	2021-09-30	Technical Reports	N
																	3014207	202102	Further development of data on Secondary Raw Materials: Focus on vehicles	Datasets on (Critical) raw materials (and potentially plastics) contained in end-of-life vehicles in the EU will be prepared. Support to ELV Directive.This will further improve the data and knowledge on secondary raw materials	2021-10-30	Sci information systems and databases	N
																	3014217	202103	Forward-looking methodology on security of supply assessments	A forward-looking methodology to complement the existing security of supply assessments (e.g. criticality assessment). It targets a more robust balance of parameters determining future supply risks and resilience. The methodology will build on current JRC resilience framework, building on e.g. previous methodologies used in the Materials for Dual-Use project and the analysis of future supply-demand scenarios in the DG GROW – JRC report on CRMs for Strategic Value Chains – A foresight study (pending publication). It will better exploit and integrate available data sources in a more streamlined and faster manner. The analysis tool will be constructed and tested while simultaneously analysing the materials stages (mineral commodities, downstream refined products and components) of strategic value chains, like digital technologies, medical, aerospace and e-mobility. Interactions and dependencies between materials, applications, NACE-4 sectors and technologies will be formalised	2021-12-17	Science for Policy reports	N
																	3014289	202201	Material Systems Analysis for evaluating strategic value chains and industrial ecosystems	New Material System Analysis (MSA) will be carried out on a few key raw materials, e.g. Titanium, Molybdenium, Zirconium. As done recently for Battery Raw Materials, a methodological proposal will be formulated for MSAs of specific raw materials to be linked together through specific value chains (e.g. Titanium, Molybdenium for space, Titanium and Zirconium for 3DPrinting) and industrial ecosystems (considering all players operating in the value chain). The proposals will need to rely on robust and appropriate datasets and will be tested on some raw materials, building on revised MSAs. Results of MSAs will also be discussed in the context of analysis of residence of value chains.	2022-09-30	Technical Reports	N
																	3014290	202202	Support to various policy initiatives on raw materials and value chains, including foresight analysis	The project will also give support to mainstream raw materials issues in various policy initiatives on value chains: support to the implementation of the Waste Battery regulation, preparation of specific provisions of the End-of-Life Vehicle Directive, support to standardisation (e.g. related to WEEE treatment and material efficient treatment of Critical Raw Materials), review of the MEErP methodology (concerning analysis of critical raw materials and responsible sourcing / due diligence) to be used in the context of Ecodesign Directive for electr(on)ic equipment and support to competition and innovation policies (e.g., ETIP on batteries). The project will also give contributions to JRC foresight analysis.	2022-12-16	Whole parts of policy documents	N

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																	3014291	202203	Analysis of circularity and security of supply of raw materials in EU value chains	Series of scientific papers discussing: methodological discussions related to criticality assessment and circularity indicators; data and results on raw materials circulation in EU value chains such as batteries (e.g. on MSA of batteries raw materials, on responsible sourcing), vehicles (e.g. analysis of REEE in traction motors; indicators to balance circularity and energy efficiency and GHG emissions in mobility) and/or aerospace (e.g. balancing resource efficiency and LCA impacts). This deliverable could also include a scientific paper on sustainability assessment of hydrogen pathways, in the context of the Fuel Cells and Hydrogen Joint Undertaking (FCH JU). This deliverable will also benefit from the work to be carried out in the coming Collaborative Doctoral Partnership Secure and sustainable supply of raw materials for strategic value chains	2022-12-16	Journal contributions (Clarivate)	N
																	3101090	202204	Feasibility analysis of setting targets on recycled content of plastics in vehicles and assessment of economic and environmental impacts.	Final report with compilation of final findings of all sub-tasks and feasibility analysis of setting targets including possible level for these targets, and assessment of economic and environmental impacts.	2022-01-31	Science for Policy reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20143	SVC-RAWMAT	Strategic value chains: secure and sustainable raw materials	JRC.D.3	30740	RM-EIP II	Supporting the monitoring and evaluation of the European Innovation Partnership (EIP) on Raw Materials	Technical assistance through this administrative arrangement supporting the monitoring and evaluation of the European Innovation Partnership (EIP) on Raw Materials and the EIP Strategic Implementation Plan (SIP) Implementation Document.	JRC.D.3	GROW	GROW	(blank)	2019-01-01	2021-10-01	CON-AA	3007395	2	Summary of support on Circular Economy Action Plan Implementation	Report provides a summary related to: - The development of material efficient treatment standards for WEEE and waste batteries to enhance the recovery of critical raw materials; - The study on equivalent conditions for the treatment of WEEE and the recovery of secondary raw materials; - Implementation of raw materials related Horizon 2020 coordination and support actions, in particular H2020 - CEWASTE;	2021-09-30	Technical Reports	N
																	3007396	3	Draft proposal on a guidance document on EIA for the extraction of non-energy minerals	Develop a draft technical guidance document on Environmental Impact Assessment (EIA) for the extractive sector of non-energy minerals, in support of mainly Article 5 and Annexes III and IV of the EIA Directive (Directive 2011/92/EU) as well as other EIA related relevant assessment and permitting requirements of EU law for the non-energy extractive sector.	2020-06-30	Technical Reports	N
																	3007397	1	Report on new Material System Analyses for the selected CRMs with missing MSAs	The Material Substance Analysis (MSA) data sets investigate the flows of materials through the EU-28 economy in terms of entry into the EU, flows through the economy, stock accumulation, incl. end-of-life management. They contain key material specific data and information. They represent a solid pillar to support (1) development of the list of CRMs, (2) development of the RM scoreboard and (3) monitoring of the circular economy; as well as providing useful information for other activities. The MSAs support the RM policy development, and in the mid-term provide a basis for developing sound sustainable resource management strategies.	2021-06-30	Technical Reports	N
																	3007401	4	RM-EIP Annual Monitoring Report 2020	The Annual Monitoring Reports follow the style and format of the Annual Monitoring Report 2016, i.e. presenting the highlights in a concise and accessible manner. The JRC is responsible for developing and managing annually the survey by handling the software used, EUSurvey, i.e. for reviewing the survey and modifications to the questions where necessary, uploading Commitment leaders' email addresses, downloading the results etc. The interaction with the Commitments (invitation to fill in the survey and sending reminders) will be done, as before, by DG GROW.	2021-05-31	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20143	SVC-RAWMAT	Strategic value chains: secure and sustainable raw materials	JRC.D.3	30866	Screen 2	European Expert Network on Critical Raw Materials	This contribution to a Horizon 2020 Project supports information on Raw Materials related to Security-of-Supply, in particular to information on materials identified on the EC's List of Critical Raw Materials. This list is published every 3 years (e.g. COM/2017/0490) and is reinforced in 2020 by a dedicated Critical Raw Materials Action Plan. Based in the experience and background of SCRREEN, the objective of SCRREEN2 Horizon Project is to continue to develop and animate an Expert Network that provides knowledge in support of decision-making at the EU level in relation to the raw materials and their value chains screened in the Critical Raw Materials assessment and factsheets.	JRC.D.3	GROW	GROW	(blank)	2021-01-01	2023-12-31	CON-IA	3026601	WP1	Networking	The aim of WP1 is to manage the network and its strategy. It will rely on the update and the implementation of the work-plan (Task1) supported by the relevant development of the network (including clustering, Task2) and by the organization of the associated workshops and events (Task2)	2023-12-01	Technical Reports	N
																	3026650	WP2	Data provision	The objectives of WP2 is to: □ Increase the quality of the information entered into the knowledge base and ensure connection and interoperability with RMIS. □ Define and deploy the validation rules for capitalizing the information □ Ensure the capitalizing of the information collected from the experts □ Allow the monitoring of in-use stock of materials and substances and display it.	2023-12-01	Sci information systems and databases	N
																	3026651	WP3	overview of the global market, EU-trade and prices and price volatility	The aim of WP3 is to provide an overview of the global market, EU-trade and prices and price volatility for the materials screened as potential CRM on the current state-of-knowledge. To facilitate dissemination, the results of the work package will be presented as updates of the CRM Factsheets. Input will come from the 29 [SCRREEN2] – Part B Network (dedicated workshops) and additional research. All materials in the scope of the CRM exercise are in the scope of this WP. The selection of which RM to target	2023-12-01	Datasets	N

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																	3026652	WP7	outlook and perspective on issues related to critical raw materials	The aim of WP7 is to provide both outlook and perspective on issues related to critical raw materials. Unlike WP3-WP6, WP7 will produce reports independent of the Raw Material Factsheets. In particular, WP7 aims to: □ Provide an outlook of the development of the market and value chains, including Circular Economy aspects, of the materials screened in relation to them becoming CRMs in the coming years. Aspects to cover are future supply and demand, policy and technology gaps, and innovation potential, with a specific focus on EU strategic industrial value chains.	2022-12-31	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20143	SVC-RAWMAT	Strategic value chains: secure and sustainable raw materials	JRC.D.3	31022	RM-EIP III	Support to the European Innovation Partnership - Raw Materials III	Security of supply of raw materials is essential to European industry. The AAs will support the assessment of raw materials criticality in general, as well as for specific value chains and assessing resilience. They will also faciliate the update and re-focusing of the Raw Materials Scoreboard, in particular to ensure that each chapter focuses on providing indicators related to key policy objectives in relation to the secure and sustainable supply of raw materials. In addition, one of the two AAs will assess strategic value chains and the use of critical raw materials in selected energy intensive sectors such as space, transport, and construction materials.	JRC.D.3	GROW	GROW GROW	ENV INTPA TRADE	2021-01-01	2024-11-29	CON-AA CON-AA	3046226	2	Raw Materials Scoreboard	Revised version of the EC's raw materials scoreboard, reflecting security of supply and sustainability policy prriorities related to raw materials value chains for monitoring.	2024-11-15	Technical Reports	N
																	3046227	3	Future-orientated analysis of raw materials value chains for strategic sectors	Future orientated analyses of security of supply and sustainability considerations of raw materials value chains for strategic sectors.	2024-04-25	Technical Reports	N
																	3046228	1	critical raw materials assessment	Methodological update and assessment of selected critical raw materials in relation to supply chain bottlenecks and risk of potential disruptions, as well as their economic importance.	2024-04-25	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20143	SVC-RAWMAT	Strategic value chains: secure and sustainable raw materials	JRC.D.3	31200	BatSust	Support to Battery Sustainability Regulation	A new Battery Regulation has been proposed by the European Commission in December and due to high ambition of the review (related to the Strategic Action Plan on Batteries), DG ENV (and GROW) have initiated several studies and consultations with the European Council and the European Parliament, as well as other stakeholders. The JRC has technically supported this preparatory work, even contributing to the draft Impact Assessment. Policy DGs now require the support of the JRC for the implementation of the new battery regulation (still under discussion). The support will concern: development of common specifications, harmonized rules and guidance for the implementation of the sustainability requirement of the Batteries Regulation.	JRC.D.3	ENV	ENV	GROW	2021-05-01	2025-12-31	CON-AA	3084723	202101	Analysis of options for calculation rules for separate collection rates	The report will analyse options for calculation rules for separate collection rates , including the approach 'available for collection.'	2021-07-15	Technical Reports	N
																	3084753	202301	Full common methodology for the calculation of collection rate	The full set of deliverables would comprise: 1.A common methodology for the calculation of the weight of batteries placed on the national market in each Member State; 2.A common methodology for the calculation of the quantity of batteries generated in each Member State based on available for collection.	2023-06-30	Whole parts of policy documents	N
																	3084754	202302	Common specifications on performance and durability for primary batteries (non-rechargeable)	The deliverable will present the common specifications to be able to measure a number of parameters and to introduce limit values for those parameters to prevent low-performant / low-quality primary portable batteries. This will be determined following a vast campaign of test carried out in laboratories of contractors.	2023-12-20	Technical Reports	N
																	3084755	202303	Common specifications on performance and durability for rechargeable batteries	The deliverable will present the common specifications to be able to measure a number of parameters and to introduce limit values for key parameters tfor rechargeable portable batteries. Key parameters include: technical parameters that have been selected are the following: •Capacity (in Ah) and capacity fade (in %) •Power (in W) and power fade (in %) •Internal resistance (in □) and internal resistance increase (in %) •Energy round trip efficiency (in %) •An indication of their estimated lifetime under the conditions for which they have been designed. This will be determined following a vast campaign of test carried out at JRC laboratories.	2023-12-20	Contributions to standards	N
																	3084756	202304	Harmonized rules for the calculation of batteries carbon footprint	The harmonised rules will guide battery manufacturers in the calculation of the batter's carbon footprint. The development of a web-based calculator is also envisaged. The starting point for this exercise will be the existing PEF Category Rules for lithium-ion batteries for e-mobility, ICT and cordless power tools.	2023-06-30	Whole parts of policy documents	N
																	3084767	202501	Harmonized rules for the calculation of batteries carbon intensity performance classes	the work will aim at defining carbon intensity performance classes for batteries, for implementation already by the end of 2026.	2025-12-19	Whole parts of policy documents	N
																	3084768	202401	Harmonized rules for the calculation of recycled content	the work will aim at developing the methodology for the calculation of the levels of recycled content in batteries put on the market	2024-12-20	Whole parts of policy documents	N
																	3084769	202305	Harmonized rules for the calculation of recycling efficiencies and recovery of materials	the work includes an in-depth revision of all the existing rules, including developing new rules for lithium batteries. In addition, a methodology for the calculation of levels of recovered materials in recycling processes should be established.	2023-06-30	Technical Reports	N
																	3084770	202306	Guidance on removability and replaceability of portable batteries	The work will aim at developing common specifications allowing assessing whether the obligations on removability and replaceability are duly complied with.	2023-12-20	Technical Reports	N

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																	3084771	202307	Common specifications on safety for stationary battery storage energy systems	the work will develop common specifications in the area of safety for SBESS, considering requirements such as: •vibration; •thermal shock and cycling; •external short circuit protection; •overcharge protection; •over-discharge protection; •over-temperature protection; •overcurrent protection; •thermal propagation; •drop impact; •internal short circuit and thermal abuse, with proper considerations to the risk of toxic gases emitted from non-aqueous electrolytes.	2023-12-20	Contributions to standards	N
																	3100442	202308	Calculation tool and a user manual for the calculation of collection rate	The deliverable will be composed of a calculation tool and a user manual. Based on the formulated calculation methodology and data provided, a calculation tool can be constructed (in Microsoft Excel). The tool will be provided for each Member State and will be accompanied with a compact user manual. The manual will explain the basic functions and instructions for the individual users to compute national amounts and targets. The tool may be constructed in such a way that parameters can be adapted in the future to reflect specific national characteristics, more recent market input data and deviating parameters reflecting specific conditions in individual member states when sufficiently substantiated.	2023-12-20	Whole parts of policy documents	N
1. A European Green Deal	1.5 Green and sustainable economy	20145	Bioeconomy for EGD	Sustainable and circular bioeconomy for the European Green Deal	JRC.D.1	30326	KCB	Knowledge Centre for Bioeconomy coordination & knowledge management	A sustainable and circular bioeconomy will be a key pillar for a transition towards a climate-neutral economy by 2050. The EU Bioeconomy Strategy adopted in 2018 aims at developing the bioeconomy along this direction by strengthening the connection between economy, society and the environment. The Strategy includes an Action Plan, where the Commission commits to 'Enhance the knowledge base on the bioeconomy, to deploy it within safe ecological limits and make it accessible through the Knowledge Centre for Bioeconomy'. The Council adopted on 29 November 2019 its conclusions on the updated Bioeconomy Strategy, emphasising the importance of enhancing the knowledge base for policy making and disseminating it through the Knowledge Centre for Bioeconomy. The complexity of the issues at stake and the increasing abundance of relevant data and information available require a capacity to map, review, analyse, structure and condense the best available knowledge to ensure that policymaking is evidence-based. The availability of reliable data and information across different economic sectors, including the indispensable but fragile primary production sectors at regional, Member State and EU level, can also contribute to both the risk analysis and the rapid response in emergency situations such as the COVID19 global pandemic witnessed in 2020. The Knowledge Centre for Bioeconomy (KCB) is a European Commission initiative that responds to these needs, pulling together the knowledge and expertise	JRC.D.1	RTD	RTD JRC	AGRI CLIMA EAC EMPL ENER ENV GROW INTPA MARE MOVE REGIO SG TRADE	2021-01-01	2027-12-31	CON-AA INS-RS	3001473	202103	Synthesised knowledge on bioeconomy	Products that synthesise and communicate knowledge for policy such as briefs that provide a concise synthesis of the latest scientific evidence in response to specific policy-relevant questions; dynamic online interactive dashboards that structure and communicate information, and infographics that communicate quickly and clearly the key messages and figures	2021-12-31	Science for Policy Briefs	N
																	3001474	202102	Community of Practice on Bioeconomy	A Community of Practice (CoP) that brings together relevant specialists from across different Commission services, complemented with the involvement of external experts on an ad-hoc basis.	2021-12-31	Technical Reports	N
																	3001475	202101	Bioeconomy knowledge library	A continuously enriched online library that gives one-stop access to curated information from different sources: publications, datasets, tools, news articles, events, glossary terms and other information.	2021-12-31	Sci information systems and databases	N
																	3039505	202201	Bioeconomy knowledge library	A continuously enriched online library that gives one-stop access to curated information from different sources: publications, datasets, tools, news articles, events, glossary terms and other information.	2022-12-31	Sci information systems and databases	N
																	3039506	202202	Community of Practice on Bioeconomy	A Community of Practice (CoP) that brings together relevant specialists from across different Commission services, complemented with the involvement of external experts on an ad-hoc basis.	2022-12-31	Technical Reports	N
																	3039507	202203	Synthesised knowledge on bioeconomy	Products that synthesise and communicate knowledge for policy such as briefs that provide a concise synthesis of the latest scientific evidence in response to specific policy-relevant questions; dynamic online interactive dashboards that structure and communicate information, and infographics that communicate quickly and clearly the key messages and figures	2022-12-31	Science for Policy Briefs	N

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1. A European Green Deal	1.5 Green and sustainable economy	20145	Bioeconomy for EGD	Sustainable and circular bioeconomy for the European Green Deal	JRC.D.1	30328	SUSBIOM	Assessment of biomass supply and uses and monitoring the sustainability of the EU Bioeconomy	This project supports the contribution of the sustainable and circular EU bioeconomy to deliver the green transition and climate neutrality as called by the European Green Deal. It addresses the overarching long-term Mandate the JRC has with 12 EC services (AGRI, CLIMA, DEVCO, ENER, ENV, GROW, MARE, MOVE, REGIO, RTD, TRADE and SG). It also addresses two actions of the EU Bioeconomy Strategy led by the JRC (to build a monitoring system to track economic, environmental and social progress towards a sustainable bioeconomy and to enhance the knowledge on the bioeconomy); and two actions of the 2020 Biodiversity strategy (to better understand and monitor the potential climate and biodiversity risks of biomass uses, including a focus on forest biomass for bioenergy). The project further develops the commitment of the JRC to provide data, processed information, models and analysis on EU and global sustainable biomass supply and demand (since 2015) with associated ISG (ISG Biomass). This mandate is to develop a knowledge base on biomass supply, demand and flows at the EU level, covering all sources of biomass (agricultural, forest, marine, freshwater and waste), complemented by BioCircE, which will cover the bio-based industrial side of the bioeconomy. It includes an assessment of the impacts of the production and use of biomass, as well as a modelling component for forward-looking assessments of the impacts of future changes in supply, demand and flows of biomass on land-use dynamics and ecosystem services with medium-term (2050) and long term (2070) perspectives. This will	JRC.D.1	RTD	RTD JRC	AGRI CLIMA ENER ENV GROW MARE SG	2021-01-01	2022-12-31	CON-AA INS-RS	3011369	5	Biomass supply, uses and flows in the EU - assessments and outlook	Consolidated description of the advances and results of the Biomass project reporting the latest EU level assessements regarding biomass supply, uses and flows accross sectors and the results of the model based forward looking scenarios analysis	2022-12-31	Science for Policy reports	N
																	3011370	2	Consolidated report 2021 of the JRC Biomass Study	The report provides a summary of the progress made in the project during 2021 to be presented and discussed at the Biomass Inter-Service Group (ISG)	2021-12-15	Technical Reports	N
																	3071126	4	EU Bioeconomy Monitoring System	Updated EU Bioeconomy monitoring system with governance drivers input indicators included. This new feature will bind together the causal effects of governance on output indicators already included in the EU Bioeconomy Monitoring System. Any other improvements made throughout the year will also be published in this deliverable.	2022-12-31	Sci information systems and databases	N
																	3071127	6	Report on the sustainability of the EU Bioeconomy	Monitoring report on progress towards the sustainability of the EU Bioeconomy using data from the EU Bioeconomy Monitoring System. Analysis is made from the sustainability perspective for all three pillars (economic, social and environmental).	2022-12-31	Science for Policy reports	N
																	3071128	1	EU Bioeconomy Monitoring System	Updated interactive and user-friendly ICT platform showing current situation and past trends in indicators related to the EU Bioeconomy. New holistic and system's level indicators will be included. This new feature will combine independent indicators into composite 'headline' indicators. Any other improvements made throughout the year will also be published in this deliverable.	2021-12-31	Sci information systems and databases	N
																	3071460	3	Technical report on the EU Bioeconomy Monitoring System	Technical report to describe the structure and contents of the EU Bioeconomy Monitoring System. The report will highlight the progress in the monitoring system with respect to the previous years.	2021-12-15	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20145	Bioeconomy for EGD	Sustainable and circular bioeconomy for the European Green Deal	JRC.D.1	30345	BioCircE	Going circular: economic assessment of the bioeconomy contribution	The project focusses on the circular-economic features of the Green Deal related to the sustainable use of biogenic resources. Its established economic, science-based data and tools contribute to the identification of potential solutions for the green recovery (after COVID-19) and long-term sustainability challenges, with specific attention to the modernisation towards a clean and circular industry, the role of waste, bio-based renewables and farming for the future: • Key socio-economic (and biophysical) indicators for EU member states illustrate the potential of the bioeconomy and provide a central pillar of the EU bioeconomy monitoring system. • Bio-based industries with its innovative and circular value chains are analysed with the help of comprehensive datasets, Sankey flow diagrams and user-friendly dashboards. • This information is embedded in scenario analysis with the global economic model MAGNET. It shows the current and future synergies and trade-offs of the European bioeconomy in a context of changing technological, the reduction and use of waste, a dynamic/disruptive trade environment and other policy contexts within a SDGs framework and associated footprints. The project is a key knowledge provider for the KCB and EU Bioeconomy Monitoring System and supports the EU Biomass study. Related to the food system analysis and the need to reduce waste, the project cooperates with portfolio PATH2SUS (20147, in particular the project MMFS) on	JRC.D.4	RTD	RTD JRC	AGRI CLIMA ENER ENV GROW MARE SG	2021-01-01	2023-12-31	CON-AA CON-IA INS-UR	3049094	2	Report (incl. dashboards) for biorefinery and bio-based industry value chains to support the Bioeconomy Strategy action plan with a specific view on the contribution to overcome the COVID-19 crisis.	Emerging bio-based industries with important economic and environmental potential, in particular biorefineries, are continuously mapped, analysed and presented through already existing dashboards. An extension to global coverage is foreseen in cooperation with international organisations. Current and future scientific and technological developments in new genomic techniques (part of the bio-based industry) as well as of new products, will be put in the context of the bioeconomy. A special focus will be on the role of the bio-based industry to support the economic recovery.	2021-09-30	Science for Policy reports	N
																	3049095	3	Report on the contribution of the circular Bioeconomy to the Green Deal	This forward-looking cross-sectoral analysis employs the global economic model MAGNET to quantify bioeconomy scenario analysis with SDG-based indicators. It specifically looks at the five key objectives of the Bioeconomy and the role of waste. The project aims at continuously enhancing the depiction of biobased value chains in the MAGNET model and its underlying database. Considering the lack of bioeconomy data at global scale, the extent of model and database improvement is subject to availability of data. Links to the upcoming BioMAT model with details on specific bio-based value chains are to be established within the BioMonitor project.	2021-12-15	Science for Policy reports	N

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																	3049096	4	Socio-economic indicators (economic growth, jobs) and Biomass flow diagrams (Sankeys) and analysis for the “EU Bioeconomy Monitoring System” and related report; further developments of methods	In this deliverable, indicators and analysis from the economic and social perspective are prepared for the EU Bioeconomy Monitoring System and Monitoring report, and the KCB. Research on regionalisation and inclusion of service sectors in the Bioeconomy indicator framework will continue and result in scientific publications. Furthermore the available information about biomass supply, demand and flows in the EU Bioeconomy is integrated and visualised in tailor-made Sankeys in cooperation with the other D units. The Sankeys, made online available, will also be adapted to bio-based value chains and different indicators, and more longer term, a material flow monitor approach. Furthermore, output of the BioMonitor project will be facilitated.	2022-10-31	Sci information systems and databases	N
																	3049097	5	Report on the contribution of the circular Bioeconomy to the Green Deal	This forward-looking cross-sectoral analysis employs the global economic model MAGNET to quantify bioeconomy scenario analysis with SDG-based indicators. It specifically looks at the five key objectives of the Bioeconomy and the role of waste. The project aims at continuously enhancing the depiction of biobased value chains in the MAGNET model and its underlying database. Considering the lack of bioeconomy data at global scale, the extent of model and database improvement is subject to availability of data. Links to the upcoming BioMAT model with details on specific bio-based value chains are to be established within the BioMonitor project.	2022-09-30	Science for Policy reports	N
																	3049098	1	Socio-economic indicators (economic growth, jobs) and Biomass flow diagrams (Sankeys) and analysis for the “EU Bioeconomy Monitoring System” and related report; further developments of methods	In this deliverable, indicators and analysis from the economic and social perspective are prepared for the EU Bioeconomy Monitoring System and Monitoring report, and the KCB. Research on regionalisation and inclusion of service sectors in the Bioeconomy indicator framework will continue and result in scientific publications. Furthermore the available information about biomass supply, demand and flows in the EU Bioeconomy is integrated and visualised in tailor-made Sankeys in cooperation with the other D units. The Sankeys, made online available, will also be adapted to bio-based value chains and different indicators, and more longer term, a material flow monitor approach. Furthermore, output of the BioMonitor project will be facilitated.	2021-10-31	Sci information systems and databases	N
1. A European Green Deal	1.5 Green and sustainable economy	20145	Bioeconomy for EGD	Sustainable and circular bioeconomy for the European Green Deal	JRC.D.1	30721	Bioclean4you	Bio-based solutions for a toxic- and pathogen-free environment: towards zero pollution	The project will contribute to the European Green Deal which sets out a zero pollution ambition for a toxic and pathogen free environment. The project will contribute to the European Green Deal which sets out a zero pollution ambition for a toxic and pathogen free environment. This ambitious goal is all the more pressing in the current situation (following the emergence of COVID-19 pandemic) that clearly requires both short-term and long-term objectives and vision for a sustainable life of the people and environment. The project vision is translated into well-defined objectives on the short , medium and long term time frames. It provides scientific support based on robust evidences (short and medium term) while on the long term it will develop bio-based solutions to predict, anticipate, and eventually remove and/or reduce, both toxic chemicals and pathogens’ outbreaks. Those anticipatory activities will be focused on water, food production security and climate change sectors. Briefly, Bioclean4you, in the short term and medium term, provides technical support to the Watch List monitoring program under the Water Framework Directive, best practice for toxin-producing bacteria in bathing water, and for Global Food and Nutrition Security , while coordinating, at European level, inter-comparison exercises to: i) harmonise biological-based assay for chemical mixture effects; ii) implementation of fast technique for pathogen detection and iii) develop method for the monitoring of antimicrobial resistance (by targeting resistant genes).In a long term, the goal of this project, under the umbrella of	JRC.D.2	ENV	ENV ENV JRC	CLIMA JRC RTD SANTE	2021-01-01	2022-12-31	CON-AA CON-AA INS-RS	3016394	1	Watch list Program under the Water Framework Directive: data set analysis, development and implementation	The Watch List under the Water Framework Directive (WFD) is a mechanism for obtaining high- quality Union-wide monitoring data for substance of emerging concern to evaluate if they pose a risk and thus whether Environmental Quality Standards (EQS) should be set for them, at EU level. Substances of concerns are selected based on newly systems and database approaches. In the context of risk assessment, JRC will adopt also the cumulative risk assessment to the light of of class of substances and the same Mode of Action. The report will summarise the outcome of the new substances added in 2020 and the selection of new ones. This deliverable will contribute to the Marine Strategy Framework Directive for the descriptor for chemical pollutants, and to the Western Balkans project.	2021-09-30	Technical Reports	N
																	3017852	2	Holistic approach to the chemical and microbiological threats into environment	Environment and human health is constantly under threat due to chemical and microbiological pressures (chemical mixtures, microplastics, pathogens, antimicrobial resistance gene, viruses) and exacerbated by climate change.Development of innovative bio-based methods, harmonisation and then implementation at European level are crucial steps to face with them. This deliverable will provide scientific based evidences, on reliable and robust systems such as effect-based methods for chemical mixture's detection. For the chemical removal, bioremedation (microbiome) will be investigated on a pilot study. Detection of pathogens (bacteria and mosquito carrying viruses), will be developed based on molecular methods.This collection of papers will provide support to the Water Framework Directive (link to the CON-AA - 35159) , Marine Strategy Framework Directive, Drinking Water Directive, Bathing Water Directive as well as to the Global food and Nutrition Security.	2022-09-30	Journal contributions (Clarivate)	N

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																	3021740	3	Mycotoxins-fungal plant disease and climate change: State of art and beyond	Climate change consequences are associated from one side to macro events such as storm waters, droughts, to the micro-events such as increase frequency of cyanobacterial and blooms, survival rate increase of microorganisms and (re)-emerging of pathogens. For the latter little is known on how the pathogens take advantage in extreme conditions such as water stress neither which are the favorable parameters. Fungal plant disease, is a major world wide threat for cereal agriculture, since the fungi produce mycotoxins, a major contaminant of feed and food at global level. In support to the Global Food Security and Bioeconomy action plan, the report will provide an overview of the current state of art for mycotoxin and on innovative bio-based solution e.g.microbiome, as modulator and earlier indicator of fungal pathogen development to anticipate the contamination.	2022-11-30	Technical Reports	N
																	3021741	4	Cornovirus detection and climate data	COVID-19 outbreak was declared a pandemic on March11 2020, which has devastated overall world. JRC established a Task Force to contribute to the emergency, providing a multitask efforts from epidemiology, modelling , economic to the environmental perspectives. Bioclean4you contributes to the environmental box providing knowledge on persistence, stability and innovative technique for the detection in the environment e.g. in air and water. This report will be the summary of the analysis performed, bringing together existing and innovative detection methods with the environmental factors.	2022-03-31	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20145	Bioeconomy for EGD	Sustainable and circular bioeconomy for the European Green Deal	JRC.D.1	30868	THERMO POLIS	THERmal MOnitoring for Urban Climate Adaptation POLIcieS	Expanding urbanization is concentrating the bulk of humankind in cities. As temperatures rise, and the frequency of heat waves increases due to anthropogenic climate change, an ever-larger part of humanity will be exposed to even more intense heat stress due to the urban heat island (UHI) effect. UHI occurs as the physical surface properties of the cities cause temperatures to be considerably higher in their cores than in their rural surroundings. Ultimately this phenomenon will exacerbate the effect of global warming on city dwellers, leading to an increasing need of costly adaptation measures and to potential societal and economic shocks. Strategies for adaptation to such risks can be adopted by city planners through albedo management (e.g. building brighter roofs) or by encouraging evaporative cooling by preserving or expanding green or water elements. Such action could further tackle climate change mitigation by reducing the need for air-conditioning. The implementation and monitoring of adaptation policies is currently limited by the difficulties in characterizing in-depth the thermal environment of cityscapes due to the lack of specific datasets and assessment methods. Thermal remote sensing technology can provide this information, but current instruments cannot individually target all the requirements for urban application. There is a need to explore the feasability of fusing these existing datastreams to prototype a heat stress monitoring system tailored for the urban context.	JRC.D.1	CLIMA	JRC	JRC REGIO	2019-10-01	2022-01-31	INS-ER	3020693	1	Final report	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project.	2021-12-31	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20262	IndustryDecarb	Accelerating the Decarbonisation of European Industry	JRC.C.7	30208	DC EII	Towards a decarbonised and competitive European energy-intensive industry	In line with the European Green Deal (EGD) Roadmap, the project supports the implementation of the EU industrial Strategy and initiatives to stimulate lead markets for climate neutral and circular products, in close cooperation with DG GROW. The project will also, in line with EGD Roadmap, support the proposal for a revision of the Energy Taxation Directive in close cooperation with DG TAXUD and the proposal for a carbon border mechanism for the steel sector. For all these activities, policy DGs need an unbiased assessment of the potential contribution of energy-intensive industries. This is especially the case, for example, when assessing their contribution to the increased de-carbonization ambitions for 2030 and 2050 of the Green Deal in hard-to-abate sectors, like the steel industry, to which the project will put special emphasis. The project also includes the production of insights from scenarios analysis from different institutions, for which JRC's role in extracting unbiased insights cannot be replaced by any other institution. The contribution to the portfolio's objectives comes from the support provided to policy DGs through the deliverables of the project.	JRC.C.7	GROW	GROW JRC	CLIMA ENER RTD	2021-01-01	2027-12-31	CON-AA INS-RS	3006227	202101	Research reports for synthesing knowledge and in support of a decarbonised and competitive industry	In line with European Green Deal roadmap, this deliverable supports the proposal for zero-carbon steel-making processes by carrying out a bottom-up technology assessments of the European steel industry. This deliverable may also encompass analysis for the proposal for a carbon adjustment mechanism on the steel sector. A broader analysis, covering the whole industry, may support the proposal for a revision of the energy taxation directive. Additional reports can further elaborate on ac-hoc requests to take stock of the information from the Energy Geography Labs in support of the on the European industrial strategy.	2021-12-31	Technical Reports	N
																	3006262	202201	Research reports for synthesising knowledge in support of a decarbonised and competitive industry	This deliverable will summarise the efforts to assess options for replacing fossil fuels for industrial heat: focusing on the main energy-intensive industries and addressing the potential for providing low temperature heat in other industries with excess heat. It may also include following up work to assess progress and options of industry decarbonisation with technological options (e.g. CCUS). It will also include efforts on scenario analysis comparison, putting special emphasis on the geopolitical consequences of the deployment of different technologies at global level on the road towards a carbon-neutral Europe by 2050.	2022-08-31	Technical Reports	N
																	3006263	202102	Scientific and technical expertise in support of SET-Plan	This activity includes policy support to the SET-Plan and to the scientific and technical community. With respect to the SET-Plan implementation and monitoring processes, JRC experts will participate in the SET-Plan Temporary Working groups and support, wherever suitable, the monitoring of their relevant implementation Plans. This activity also includes ad-hoc support to policy DG on the relevant files.	2021-10-29	Technical Reports	N

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																	3006264	202202	Scientific and technical expertise in support of SET-Plan	This activity includes policy support to the SET-Plan and to the scientific and technical community. With respect to the SET-Plan implementation and monitoring processes, JRC experts will participate in the SET-Plan Temporary Working groups and support, wherever suitable, the monitoring of their relevant implementation Plans. This activity also includes ad-hoc support to policy DGs on the relevant files	2022-10-28	Technical Reports	N
																	3021180	202103	Research reports for synthesising knowledge from energy scenarios	Benchmark analysis of energy scenarios to assess, for example, the implications on the system, technologies and costs of different renewable roadmaps from institutions such as IRENA and the IEA. This deliverable will encompass the outcomes of a research Framework Agreement between the JRC and IRENA in the context of the EU Green Deal, the need to deliver on the Paris Agreement and on the Sustainable development Goals. The overall objective of this collaboration is to provide insights into the clean energy transition towards climate neutrality.	2021-12-31	Technical Reports	N
																	3054421	202203	Research reports for synthesising knowledge from energy scenarios	Benchmark analysis of energy scenarios to assess, for example, the implications on the system, technologies and costs of different renewable roadmaps from institutions such as IRENA and the IEA. This deliverable will encompass the outcomes of a research Framework Agreement between the JRC and IRENA in the context of the EU Green Deal, the need to deliver on the Paris Agreement and on the Sustainable development Goals. The overall objective of this collaboration is to provide insights into the clean energy transition towards climate neutrality.	2022-12-30	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20262	IndustryDecarb	Accelerating the Decarbonisation of European Industry	JRC.C.7	30209	LC SVC	Low Carbon Strategic Value Chains	As part of the European Green Deal, the EU has pledged to become carbon neutral by 2050. For that it will be necessary to shift the energy system from fossil fuels to renewable sources, and to decarbonise the European industries. To meet such ambitious goals, we have to ensure that production and deployment of low carbon technologies is unhindered and capable of withstanding the increasing demand. This is even more important considering that low carbon technologies have been identifed as strategic value chains for the EU, and as such are crucial for the European industrial and economical developent. As the recent Covid-19 crisis has highlighted, low carbon supply chains face a real risk for disruptions and it is paramount to timely identify and address any existing and potential weakness, ensuring a prompt recovery and the realisation of our green ambitions, and strenghtening the European resilience. This project will analyse the existing industrial supply chains for low carbon technologies, assessing the European positioning on a global scale, and analysing the possible evolution of demands, higlighting potential bottlenecks and opportunities which may materialise in the future. Whenever possible, it will provide recommendations on how to solve potential issues and how to take advantage of upcoming opportunities. The project will also support directly the activities of DG GROW, by providing specific analysis of relevant value chains.	JRC.C.7	GROW	GROW JRC	(blank)	2021-01-01	2027-12-31	CON-AA INS-RS	3001076	INS2	EU manufacturing capacities for low carbon technologies	A report mapping existing EU manufacturing infrastructure related to low carbon technologies. The work will also include available information on upcoming development projects, in an attempt to estimate the future development and potential for growth of the European supply chain infrastructure.	2022-07-01	Science for Policy reports	N
																	3001077	INS3	Supply/demand analysis of processed materials for low carbon technologies	Following the analysis on the future evolution of low carbon technologies supply chains (Deiverable INS 1), we will identify a list of key processed materials and we will assess future supply/demand balances. This will highlight potential bottlenecks or opportunities at this level of the supply chain. Examples of relevant processed materials could be glass fiber or carbon fiber.	2022-12-16	Science for Policy reports	N
																	3001078	INS1	Future evolution of low carbon energy technologies supply chains	A report analysing the current situation and future evolutions in supply chains for low carbon technologies such as wind, solar and energy storage. It will highlight areas of future industrial evolutions, as driven by the foreseen technological advancements and need to deploy renewables.	2021-11-26	Science for Policy reports	N
																	3008743	CON3	Supply chain bottlenecks in strategic sectors	A science for policy report analysing potential supply chains bottlenecks in strategic sectors in the energy, defence and ICT domains. Technologies analysed will include offshore energy technologies, energy storage technologies, dual use technologies and ICT for the digitalisation of the energy sector.	2022-12-16	Science for Policy reports	N
																	3019519	CON1	Methodology for supply chain assessment	Development of an appropriate methodology for supply chain assessment. Particular attention will be paid to the aggregation and visualisation of indcators, to ensure that no detail is lost and that the final, aggregated results reflect correctly the supply risks at different stages of the value chain. The deliverable category should be category 7 - project management and contractual deliverables. Such category is however missing from the drop-down menu.	2021-05-28	Technical Reports	N

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1. A European Green Deal	1.5 Green and sustainable economy	20262	IndustryDecarb	Accelerating the Decarbonisation of European Industry	JRC.C.7	30210	EIGL	Energy & Industry Geography Lab	The European Green Deal is one of the priorities of the new Commission; our new growth strategy. It will boost the efficient use of resources by moving to a clean, circular economy; restore biodiversity and cut pollution. The European Green Deal will make the EU climate neutral by 2050; and the proposed European Climate Law will turn this political commitment into a legal obligation and a trigger for investment. In 2020, the Commission also proposed a new EU industrial strategy and a new Circular Economy Action Plan. The High Level Group on Energy-intensive Industries (HLG EIIs) developed an Industrial Transformation Masterplan for the implementation of EIIs' transition towards a climate-neutral and circular EU economy by 2050. One of the key strategic priorities of the Masterplan is the "Mapping of energy and non-energy infrastructure and supply, underpinned by technologies for industrial transformation in support of climate-neutral industry". The Energy & Industry Geography Lab responds directly to this priority. The project will enable the collection, validation, and visualisation of spatial data related to energy, industrial and other relevant infrastructure (e.g. roads, ports) and the underlying baseline data (e.g. country boarders, land cover). It will support the Commission by providing possibilities for central data management, visual analyses, data exploration, queries, and data export, acting as a geospatial information hub. The Energy & Industry Geography Lab will facilitate assessments related to energy and industrial infrastructure with increased transparency and consistency; and will enable the	JRC.C.7	GROW	GROW JRC	ENER RTD	2021-01-01	2027-12-31	CON-AA INS-RS	3002141	1	GIS and DB services to the unit	The project will provide mapping and GIS services to the unit by collecting, validating and processing data and developing maps. Furthermore, the project will support the unit in data handling, updating, management tasks with the creation of procedures, scripts and/or code as well as automated workflows.	2021-12-30	Technical systems	N
																	3002449	2	Case studies using EIGL	The project will use EIGL in order to perform case studies for the unit or upon external requests. This could include collecting, validating and processing data, and providing of spatial analysis and assessments.	2022-12-31	Science for Policy reports	N
																	3092858	T1	Data collection plan	This report will review available data and identify sourcing for data gaps and describe the data collection for EIGL. Corresponds to deliverable D1.1.1 of the AA	2021-03-31	Technical Reports	N
																	3092859	T2	Data management strategy	The data management strategy describes how EIGL data will be collected, validated and documented. In addition, the data management strategy will include information about how data should be structured, harmonised, and classified. Corresponds to deliverable D1.2.1 of the AA	2021-07-31	Technical Reports	N
																	3092860	5	Stock taking report	The report will take stock of the data included in the platform, the user experience, and user satisfaction, and the needs for further data collection (including needs from other DGs). It summarises the state of play and a detailed planning for the remaining time of the AA (maintenance needs, user interface functionalities). Corresponds to deliverable D1.5.1 of the AA	2022-03-31	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20399	SAPIENCE	Socio-economic analysis in support of EU policy measures for a clean and circular economy	JRC.B.5	30341	FIGARO	Methodological and data support on global input-output accounts and related socio-economic aggregates	Based on the past and current close collaboration with the national statistical offices of the EU countries and some non-EU countries (United States, Canada, Mexico…), Eurostat, the OECD and the United Nations Statistical Division, this Project continues the work of the administrative agreements FIGARO (2015-17) and FIGARO ACT I (2018-2020) with the purpose of extending the official EU Inter-country Supply, Use and Input-Output Tables to include: a) information about foreign/domestic ownership of firms (e.g. multinationals), b) a bigger coverage of industries and countries, c) a further integration with the OECD global inter-country input-output tables, d) the development of EU/euro area inter-country social accounting matrices, e) the development of a system of global value chains indicators using the FIGARO results. This Project also supports Eurostat in the design of a statistical production system for the annual regular publication of the FIGARO tables and their GVC related indicators under the field of National Accounts and Supply, Use and Input-Output Tables, from 2021 onwards and in coordination with the OECD. This Project will also provide all necessary materials and know-how to Eurostat in order to facilitate the integration of the FIGARO tables into the Eurostat statistical production system. Besides, as a continuation of the WPK GALILEI, this Project will support Eurostat in developing high quality indicators for labour productivity for all EU Member States.	JRC.B.7	ESTAT	ESTAT ESTAT	ECFIN GROW TRADE	2021-01-01	2023-06-30	CON-AA CON-AA	3007873	F2	Report on the activities and progress of the Project in 2022	Interim Report	2022-12-31	Technical Reports	N
																	3007874	F1	Report on the activities and progress of the Project in 2021	Interim Report	2021-12-31	Technical Reports	N
																	3008038	F3	Report on the activities and progress of the Project in 2021	Report on the activities and progress of the Project in 2021	2021-12-31	Technical Reports	N

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1. A European Green Deal	1.5 Green and sustainable economy	20399	SAPIENCE	Socio-economic analysis in support of EU policy measures for a clean and circular economy	JRC.B.5	30763	FIDELIO	Modelling socio-economic impacts of industrial policy options in support for a clean and a circular economy	This Project expands the Unit's capacity to conduct studies on industrial competitiveness, growth and jobs, internal market, international trade and global value chains in relation to EU industrial policies supporting a clean and a circular economy. This Project further develops the links between multi-sectorial models and the techno-economic information provided by the JRC.B.5 experts in the field of resource use of materials, waste management, recycling, product policy and other related topics supporting a clean and a circular economy. The model will use the most recent databases coming from Eurostat. The model will be able to conduct studies distinguishing different types of consumption patterns derived from different income levels, age and size of the households. FIDELIO allows analysing the economic and environmental impacts of sustainable production and consumption policies capturing both spillover and rebound effects; policy measures on the demand side (consumption) and on the supply side (production) can lead to impacts in jobs, growth, investment, resource use, air emissions and trade balance, all of which can be quantified through the model. This work supports main policy DGs in improving their impact assessments of policy measures related to the implementation of sustainable production and consumption relevant policies and to the circular economy and/or efficient use of resources, considering the economic, social and environmental effects on other industries, firms, citizens, etc. not directly related to the product or industry affected by the corresponding policy measure. The expected impacts on citizens are the better design and implementation of product	JRC.B.7	GROW	JRC	ECFIN ENV TRADE	2021-01-01	2022-12-31	INS-RS	3008002	D2	Report on the progress of the activities carried out during the course of 2022	Final report on the improvements and functioning of the FIDELIO model, including instructions about how to use the new interface.	2022-12-31	Technical Reports	N
																	3008003	D1	Report on the progress of the activities carried out during the course of 2021	Interim report on the improvements and functioning of the FIDELIO model, including instructions about how to use the new interface.	2021-12-31	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20399	SAPIENCE	Socio-economic analysis in support of EU policy measures for a clean and circular economy	JRC.B.5	30765	APPLEE	Applied Environmental Economics	EU Green Deal, in particular the objective of inducing a transition towards a clean and circular economy. This work package supports and complements the unit's work on environmental policy, in particular in the fields of waste management, environmental product regulation, and industrial pollution. It provides data-driven impact studies, including cost-benefit analysis, and develops expertise on policy instrument design in these areas. This will contribute to synthesize economic and policy insights across different areas of green policy, thus supporting the Commission's ambitions under the EU Green Deal umbrella.	JRC.B.5	ENV	JRC	GROW RTD	2021-01-01	2022-12-31	INS-RS	3010198	APPLEE2	Study on Competitiveness	Report on general insights from supportive economic analysis in the field of environmental policy. Although the exact issue area still needs to be confirmed, it probably concerns market and non-market based regulation of environmentally relevant products, for example solar PV panels, or addressing waste recycling targets and/or waste shipment policies. Different regulatory options (in terms of instrument and level) will be compared in terms of effectiveness and efficiency, with the aim to derive more general lessons on regulatory approaches in the environmental field.	2021-12-31	External study reports	N
																	3010199	APPLEE1	Cost benefit study of regulation for waste oil recycling	Economic analysis of different policy options for dealing with waste oils, with focus on recycling targets. It includes the development of a conceptual framework for an analysis of this type (e.g. definition of system boundaries). The study is motivated by the work under an AA for DG ENV on this issue, against the background of the upcoming revision of the corresponding legislation.	2022-06-01	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20399	SAPIENCE	Socio-economic analysis in support of EU policy measures for a clean and circular economy	JRC.B.5	30766	Trade-SCAN	Trade and Supply Chain Analysis for a clean and circular economy	The Trade-SCAN tool (developed by the JRC in its own initiative) has proven to be successful in providing timely results on the macroeconomic effects of COVID-19 spread in the EU economy at a detailed level in terms of countries and industries. This model has been crucial to derive ad-hoc simulators of the GDP and employment at risk for various (ECFIN based) scenarios on global demand shocks on consumption, travel expenditures of non-residents, investment as well as on intermediate and final gross exports by products and trading partners. DG ECFIN, DG EMPL and DG TRADE used various versions of simulators for different purposes, e.g. Spring Economic Forecast. Other JRC Units in Directorates B, C and D also used these simulators and generated further insights into labour markets, fiscal policy, regional impacts and agricultural markets based on the Trade-SCAN results.This Project continues the development of the Trade-SCAN tool (based on the GLIM model) to include the Eurostat official statistics on global multi-country input-output tables (FIGARO Project) and more updated economic, environment and employment data in order to use it within the context of the Circular Economy Action Plan. Eurostat will also use the Trade-SCAN tool in order to develop a database on Global Value Chains and Trade in Value Added indicators that Eurostat will disseminate on its website. Besides, the Trade-SCAN tool will keep serving to compile unique sets of indicators and statistical books to support evidence-based trade policymaking for DG TRADE. Those indicators illustrate in detail the relationship between exports, employment (by skill, gender and age) and income (by skill, gender	JRC.B.7	TRADE	JRC	ECFIN ENV ESTAT RTD	2021-01-01	2022-12-31	INS-RS	3008030	T2	Preparation of Trade-SCAN to support Eurostat's GVC indicators dissemination	Report on the preparation of Trade-SCAN to support Eurostat's GVC indicators dissemination	2022-12-31	Technical Reports	N
																	3008031	T1	Extension of Trade-SCAN with the Eurostat's FIGARO tables	Report on the extension of Trade-SCAN with the Eurostat's FIGARO Inter-country Supply, Use and Input-Output Tables	2021-12-31	Technical Reports	N

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1. A European Green Deal	1.5 Green and sustainable economy	20426	S&CC	Safe & Clean Construction	JRC.E.4	30402	SAFESUST	Impact of sustainability and energy efficiency requirements on building design and retrofit	In the Union there are about 25 billion square meters of built-up area, of which about 10 billion built before 1960 require substantial maintenance because of their structural condition, changes in environmental conditions and building sector regulations. Particularly relevant is the seismic vulnerability that characterises the building heritage of Member States with medium/ high seismic hazard such as Italy and Greece, where recent seismic events have claimed thousands of victims and caused extensive economic damage, but also in some areas of Member States with lower seismicity, such as Germany, France and Spain. Moreover, the energy performance of a large portion of existing buildings is also unsatisfactory, so that the energy consumed in buildings is at present the biggest sources of CO2 emissions in Europe. An organic action plan is a primary objective for the Union in order to redevelop and modernise the existing building stock. In view of the huge number of constructions involved, the plan must be based on criteria of high efficiency and economic and environmental sustainability. A knowledge tool is needed for assessing the global performance of buildings in terms of structural safety, energy efficiency and environmental impact. The tool will provide a unique performance indicator, expressed in economic/monetary terms, for qualifying the global performance of buildings or building typologies, to be used as an input for strategic decisions at urban and regional scales. The work will contribute to the achievement of the first objective in the portfolio of Safe & Clean construction	JRC.E.4	GROW	JRC	ENER ENV REGIO	2021-01-01	2025-12-31	INS-RS	3007227	2	Review of existing technologies for the energy/environmental upgrading of existing buildings	The study provides an independent expert evaluation of the existing technologies for the energy/environmental upgrading of existing buildings. Technologies are classified in terms of cost, effectiveness, time of disruption and possibility to be combined with measures for seismic upgrading.	2021-12-17	Technical Reports	N
																	3007228	3	A simplified design method for the combined seismic and energy/environmental upgrading of existing buildings	The document describes a novel simplified design method for the combined improvement of seismic and energy/environmental performances of existing buildings. The method is intended to be practically implemented in the design process as a part of the harmonised design codes (Eurocodes).	2022-12-16	Technical Reports	N
																	3007229	1	Review of available technologies for seismic rehabilitation of existing buildings	The document, based on independent expert evaluation, provides a description of the available technical solutions for the seismic rehabilitation of existing buildings. The study will classify technical solutions in terms of cost, effectiveness, time disruption and possibility to be connected with measure for energy/environmental improvement.	2021-12-17	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20426	S&CC	Safe & Clean Construction	JRC.E.4	30404	REEBUILD	Integrated techniques for the seismic strengthening and energy efficiency of existing buildings	The Pilot Project (PP) "Integrated Techniques for the Seismic Strengthening and Energy Efficiency of Existing Buildings" is financed by the European Union (EU) under decision C/2019/3874-final of 28 May 2019, after a proposal by the European Parliament. The new idea for holistic approach to renovation of buildings is behind a future EU Action Plan thus putting the disaster prevention and reduction of risks at the core of planning the use of EU funds. Moreover, the results could -in a long term- support an EU Action Plan to redevelop and modernize the existing building stock (1/3 of the building stock was constructed before the 60's). The JRC involvement is absolutely necessary as it provides a combination of high scientific and technical expertise, knowledge of the European policies and independence from any national and industrial interests. These capabilities are instrumental for specifying the technological options for the intended retrofitting, evaluating their feasibility and efficiency, and providing tools (guidelines and methodologies) to the EU Member States to implement a future Action Plan for integrated (seismic and energy) renovation of their building stock. The project builds up on the JRC expertise matured in the JRC institutional projects SAFESUST, RESURBAN and IRESIST+. These projects provide work effort (RESURBAN until the end of 2020) to REBUILD project during its existence, as the human resources declared under REBUILD are only the four CAs specifically destined to it. After the end of the project in June 2023,	JRC.E.4	ENER	REGIO JRC	CLIMA EAC ECHO ENV GROW REGIO	2021-01-01	2023-06-30	DEL INS-RS	3013019	2	Guidance material on integrated seismic and energy retrofitting of existing buildings	The deliverable will provide additional visibility of the project results, creating basis for implementing further measures at European level and supporting the follow-up Action Plan. Particular attention will be given to creating guidelines for implementing the integrated solutions for seismic and energy retrofitting at National and Regional levels, encompassing the technical guidance for the retrofitting and recommendations for relevant measures (legislation, incentives, guidance and standards), thus supporting the sustainability of the initiative in a medium/long term perspective.	2023-06-16	Technical Reports	N
																	3013020	1	Towards European Action Plan on modernizing the existing building stock	The deliverable defines technical solutions that, at the same time and in the least invasive way, can reduce seismic vulnerability and increase energy efficiency of existing buildings. A simplified method for assessment of the economic advantage of the combined intervention will be proposed. It will be applied in case studies of representative types of European buildings retrofitted with the identified technological options. The seismic risk and the energy performance of existing buildings will be assessed at regional level throughout Europe to identify those regions where interventions are of higher priority. The deliverable encompasses reports communicating the results of the project to policymakers and to technical communities, as well as public communication material bringing the main outcomes to the citizens.	2021-12-16	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.5 Green and sustainable economy	20426	S&CC	Safe & Clean Construction	JRC.E.4	30405	SEAPLAST	Sustainable and Efficient Alternative Plastic Storage	Plastic is an important and ubiquitous material in our economy and daily lives, with its multiple functions it helps tackling a number of the challenges that society is facing. However, while plastics generate important societal benefits there are several drawbacks in the present 'plastic age' and too often the way plastics are currently produced, used and discarded fails to capture the economic benefits of a more 'circular' approach. In fact there are three main methods to treat used plastic wastes: land-filling, incineration, and recycling. However, land-filling requires huge space and incineration produces huge amounts of toxic ashes, dangerous chemicals and carbon dioxide. Therefore, the recycling of plastics waste is definitely the best approach to reduce their environmental impact. At the same time concrete is, after water, the second most used material on Earth and approximately 4.5% of the world human-induced CO2 are generated by manufacturing concrete. The cement production industries are energy intensive and nowadays are considering plastic waste only for energy recovering, because of its high calorific value, by means of incineration. A different reusing of waste plastic in the cement manufacturing process, and more in general in the construction sector is considered an ideal method of disposal. However, given the high hazardous risks related to this combination of materials careful studies of the physico-chemical properties of the plastic/concrete composites are needed to validate this plastic recycling. Finally, in order to further support the integration of recycled plastics in the market, more targeted sectoral interventions have to be explored as	JRC.E.4	JRC	JRC JRC	CLIMA GROW RTD	2020-01-16	2022-04-16	INS-ER INS-RS	3028586	1	The way forward for sustainable and efficient alternative plastic storage	The results of the exploratory research project will be collected in a final report. The following aspects will be covered: comparative analysis of irradiated plastic waste with different dosages for Cement Based Composite (Concrete and mortar) focussing on the fresh state properties of the plastic-enhanced materials selected; description of the possible chemical and physical interaction between irradiated plastic materials and concrete and mortar; morphological and chemical analysis of the plastic/mortar interfaces (SEM, XPS, FTIR, etc.); influence of the plastic waste materials as cement and/or sand substitutes in concrete and mortar on the thermo-mechanical material properties; analysis of the policy perspectives and needs for the use of plastic waste material in construction materials like concrete.	2022-04-16	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20426	S&CC	Safe & Clean Construction	JRC.E.4	30406	BUILDING CYCLE	Closing the life-cycle of buildings for safer and greener constructions	Buildings represent a third of global emissions, and a third of energy and materials consumed worldwide. This figure is even higher in Europe, where buildings are responsible of 40% of energy consumption and 36% of CO2 emissions. Therefore, the development of greener building materials and new technologies for buildings will be key enabler for the success of the environmental targets set by Europe. At the same time, these technologies must provide the highest standards of safety against natural disasters, extreme weather events and other accidents. The European Commission recently launched the European Green Deal, inviting the construction sector to "Building and renovating in an energy and resource efficient way". The EU and the MS are invited to engage in a 'renovation wave' of public and private buildings. It should ensure that the design of new and renovated buildings at all stages is in line with the needs of the circular economy, and lead to climate-proofing of the building stock. A new Circular Economy Action Plan launched a new comprehensive EU Strategy for the Construction and Buildings Sector, in order to achieve a more sustainable built environment. The Strategy will ensure coherence across the relevant policy areas such as climate, energy and resource efficiency, management of construction and demolition waste. The principles of circularity along the entire life cycle of buildings are promoted through: - addressing the sustainability performance of	JRC.E.4	GROW	JRC	CLIMA ENER ENV	2021-01-01	2025-12-31	INS-RS	3031217	BCycle01	Catalogue of building typologies suitable for the BUILDING CYCLE project	Classification of policies and technologies to analise buildings life-cycle. Creation of a catalogue of the ELSA experimental projects portfolio (carried out or to be carried out), together with JRC-Ispra-Site buildings which allows testing the whole life-cycle. This allows to verify the current standards and best practices and to propose and calibrate innovative instruments with a hands-on approach.This allows to calibrate "hands on" the current standard along with proposed tools.	2022-01-15	Technical Reports	N
																	3033658	BCycle02	Real case studies of Craddle-to-Grave LCA analysis of Buildings	Several Real Case Studies selected among the Building Portfolio of JRC-Ispra and experiment performed at European Laboratory for Structural Assessment have been analised. A critical analysis of the results performed using state of the art LCA technique following the Directive and Standards is provided. Implementation of design for deconstruction into LEVEL(s) sustainability indicator framework.	2022-12-17	Science for Policy reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20426	S&CC	Safe & Clean Construction	JRC.E.4	30407	DIGITCON	Digital platform for clean construction and buildings	The construction industry produces 9% of EU's GDP and provides 18 million direct jobs. In the EU there are about 25 billion m2 of built-up area, of which about 10 billion built before 1960 requires substantial maintenance because of its structural condition, changes in environmental conditions (climate change) and building sector regulations. At the same time, the energy performance of European buildings is unsatisfactory: the energy consumed in buildings is one of the biggest sources of CO2 emissions. To achieve the Sustainable Development Goals and implement the European Green Deal, a renovation wave of public and private buildings is put forward. Major renovation is a trigger to address also risk related to intense seismic activity and strengthen the link between disaster risk reduction and mitigation of climate change. Furthermore, reducing buildings vulnerability and increasing at the same time their energy efficiency is of paramount importance for the European economy and for the recovery of the construction sector. Since the redevelopment and modernisation of the European building stock involves huge number of constructions, they need careful planning based on criteria of high efficiency and economic and environmental sustainability. The proposed activity builds on the results of REEBUILD (30404) that supports the definition of a European action plan for the redevelopment and modernisation of the European building stock. The digital platform for clean construction and buildings aims to successfully implement the action plan by tailoring its principals to the particular characteristics of each European region.	JRC.E.4	REGIO	JRC	CLIMA ENER ENV GROW	2021-01-01	2022-12-31	INS-RS	3011439	1	Digital platform for clean construction and buildings	The deliverable will present the structure, content and functionalities of the digital platform. It will also present the methodologies for scenario analysis and the use of the tools implemented in the platform to perform regional impact analysis. Finally, the deliverable will include the comparison of the results of examples of impact analysis to demonstrate the use of the digital platform to support the definition and prioritisation of renovation scenarios at regional scale.	2022-12-16	Sci information systems and databases	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3026600	2	Digital evolution of construction for the European Green Deal	With its vast contribution to carbon emissions, the construction sector represents one of the most urgent and promising opportunities for improvement of the energy and resource efficiency as outlined in the European Green Deal. The deliverable will present how to develop, support and accelerate the information management standards (BIM, digital logbook, building passport), guidance, tools, skillsets and capacity, as well as supporting digital economy, which underpin the use of all digital systems, technologies and associated ways of working across the lifecycle of buildings. Understanding the whole-life performance of structures enable better design, more efficient use of resources, reduction in waste, time and cost savings, improved safety and significantly optimises the maintenance and performance of our new and existing buildings.	2022-12-16	Science for Policy reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20481	EIPPCB	European Integrated Pollution Prevention and Control Bureau	JRC.B.5	30334	EIPPCB	European Integrated Pollution Prevention and Control Bureau	The European IPPC Bureau (EIPPCB) is fulfilling an obligation of the Commission laid down in Article 13(1) of the Industrial Emissions Directive (IED, 2010/75/EU) to "organise an exchange of information between Member States, the industries concerned, non-governmental organisations promoting environmental protection and the Commission" in order to draw up, review and, where necessary, update BAT reference documents, the so-called BREFs. A series of 32 BREFs covering the main EU industrial activities has been drawn up and the IED sets the demanding objective to review each of these BREFs every 8 years. The EIPPCB project aims at setting the technical standards applicable to the main EU industrial activities (about 50 000 industrial installations across the EU) in order to achieve a high level of protection of the environment taken as a whole and to limit imbalances in the Union as regards the level of emissions from industrial activities. For the period 2021-2022, the focus will be on: - continuing the drawing up and review of BREFs and increasing the focus on Circular Economy aspects; - considering/establishing the setting up and running of an Industrial Emissions Innovation Observatory to accompany the necessary industrial transformation under the European Green Deal; - supporting the revision of the Industrial Emissions Directive.	JRC.B.5	ENV	JRC	AGRI CLIMA ENER GROW RTD SANTE	2021-01-01	2025-12-31	INS-RS	3002884	1	Final Draft (FD) of the revised Ferrous Metals Processing (FMP) BREF	Produce the Final Draft (FD) of the revised Ferrous Metals Processing (FMP) BREF in order to receive a formal opinion of the IED Article 13 forum	2021-03-31	Technical Reports	N
																	3002886	2	Draft 1 (D1) of the revised Slaughterhouses and Animal By-Products (SA) BREF	Produce the first official draft (D1) of the revised Slaughterhouses and Animal By-Products (SA) BREF for comments of the Technical Working Group (TWG)	2021-03-31	Technical Reports	N
																	3002889	3	Draft 1 (D1) of the revised Smitheries and Foundries (SF) BREF	Produce the first official draft (D1) of the revised Smitheries and Foundries (SF) BREF for comments of the Technical Working Group (TWG)	2021-10-31	Technical Reports	N
																	3002890	4	Final Draft (FD) of the Waste Gas treatment in the Chemical sector (WGC) BREF	Produce the Final Draft (FD) of the Waste Gas treatment in the Chemical sector (WGC) BREF in order to receive a formal opinion of the IED Article 13 forum	2021-10-31	Technical Reports	N
																	3002895	5	Final Draft (FD) of the revised Textiles (TXT) BREF	Produce the Final Draft (FD) of the revised Textiles (TXT) BREF in order to receive a formal opinion of the IED Article 13 forum	2021-10-31	Technical Reports	N
																	3017660	6	Waste Gas treatment in the Chemical sector (WGC) BREF	Publish the Waste Gas treatment in the Chemical sector (WGC) BREF after taking into account the formal opinion of the Industrial Emissions Directive (IED) Article 15 forum	2022-12-31	Science for Policy reports	N
																	3017661	7	Revised Textiles (TXT) BREF	Publish the revised Textiles (TXT) BREF after taking into account the formal opinion of the Industrial Emissions Directive (IED) Article 15 forum	2022-12-31	Science for Policy reports	N
																	3017662	8	Draft 1 (D1) of the revised Ceramics (CER) BREF	Produce the first official draft (D1) of the revised Ceramics (CER) BREF for comments of the Technical Working Group (TWG)	2022-09-30	Science for Policy reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20483	PB	Product Bureau	JRC.B.5	30929	SupELGPP 2018	Scientific support to the EU Ecolabel and Green Public Procurement "SupELGPP 2018"	JRC B.5 Product Bureau provides research support to DGs ENV, but also GROW and ENER in further developing implementing the key environmental product policies, namely the Energy related Products (Ecodesign) Directive, the Energy Labelling Regulation, the Ecolabel Regulation and the Green Public Procurement Communication. More specifically, SupELGPP 2018 supports the Circular Economy Action Plan through providing environmental, techno-economic and scientific analysis for the formulation of secondary legislation on Ecolabel and GPP. As the work builds on collaboration agreements over 10 years, JRC involvement is considered as essential for the credibility of the process. JRC.B5 has developed unique expertise in the field, and has built a methodology for collaboration with stakeholders (the "Sevilla process").	JRC.B.5	ENV	ENV JRC	CLIMA	2021-01-01	2023-05-31	CON-AA INS-RS	3057689	309292	Draft legal proposal for Ecolabel criteria for cosmetics	For the product group cosmetics: Draft legal proposal for Ecolabel criteria for interservice consultation and regulatory committee voting, together with the accompanying scientific background report.	2021-07-01	Science for Policy reports	N
																	3092968	309291	Ecolabel criteria Hard Covering	For the product group Hard Coverings: Draft legal proposal for Ecolabel criteria for interservice consultation and regulatory committee voting, together with the accompanying scientific background report.	2021-12-31	Science for Policy reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.5 Green and sustainable economy	20483	PB	Product Bureau	JRC.B.5	30940	PPMCriD	Product Policy Method and Criteria Development	JRC B.5 Product Bureau provides research support to DGs ENV, GROW and ENER in further developing implementing the key environmental product policies, amongst them the Energy related Products (Ecodesign) Directive, the Energy Labelling Regulation, the Ecolabel Regulation and the Green Public Procurement Communication. More specifically, PPMCriD supports the Circular Economy Action Plan through providing environmental, techno-economic and scientific analysis for the formulation of secondary legislation on Ecodesign. As the work builds on collaboration agreements over 10 years, JRC involvement is considered as essential for the credibility of the process. JRC.B5 has developed unique expertise in the field, and has built a methodology for collaboration with stakeholders (the "Sevilla process"). A second pillar of the work carried out under PPMCriD is the revision of the Methodology for the Ecodesign of Energy related Products MEErP. MEErP is laid out in the Circular Economy Action Plan as the backbone of the future legislation which should include all different product policy instruments.	JRC.B.5	ENER	ENER GROW JRC	GROW	2019-08-01	2023-07-31	CON-AA CON-AA INS-RS	3046337	304902	Preparatory study on methodological aspects of ecodesign and energy labelling applicable on ICT	Preparatory study on methodological aspects of ecodesign and energy labelling applicable on ICT. The work includes leading the EC's Task Force on ICT, on behalf of DG ENER.	2021-12-31	Science for Policy reports	N
																	3046338	309401	preparatory study cooking appliances	Report describing preparatory work the development of implementing measures of ecodesign and energy labelling on cooking appliances	2022-08-01	Science for Policy reports	N
																	3095529	309403	Revised MEErP report	Revised MEErP report. On the basis of the findings of the final report, the 'Revised MEErP' report will contain a condensed version (i.e. focussing on the results) of the main changes to the current version of the MEErP.	2022-12-31	Science for Policy reports	N
																	3095530	309404	Ecoreport tool	The 'Revised MEErP' report shall be accompanied by the updated EcoReport Tool (Excel format), including data sets and user instructions, and by any other (Excel) tool/supporting information/guidelines developed in the course of the study, and useful for ecodesign preparatory studies' contractors.	2022-12-31	Sci information systems and databases	N
1. A European Green Deal	1.5 Green and sustainable economy	20483	PB	Product Bureau	JRC.B.5	30944	PVs IA 2020	Solar Photovoltaics Panels, Inverters and Systems - Impact Assessment study	JRC B.5 Product Bureau provides research support to DGs ENV, GROW and ENER in further developing implementing the key environmental product policies, namely the Energy related Products (Ecodesign) Directive, the Energy Labelling Regulation, the Ecolabel Regulation and the Green Public Procurement Communication. More specifically, PVsIA 2020 supports the Circular Economy Action Plan through providing environmental, techno-economic and scientific analysis for the formulation of secondary legislation on Ecodesign. As the work builds on collaboration agreements over 10 years, JRC involvement is considered as essential for the credibility of the process. JRC.B5 has developed unique expertise in the field, and has built a methodology for collaboration with stakeholders (the "Sevilla process").	JRC.B.5	GROW	GROW JRC	ENER	2020-08-01	2022-12-31	CON-AA INS-RS	3047104	309441	IA solar photovoltaics	IA study on ecodesign and energy labelling implementing measures for photovoltaic systems, panels, and inverters	2022-12-01	Science for Policy reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20483	PB	Product Bureau	JRC.B.5	30948	Scoring System 2020	Developing and implementing a reparability scoring system for use in Ecodesign to support the transition towards a Circular Economy.	The European Commission, in the COM(2020) 98 COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS, A new Circular Economy Action Plan For a cleaner and more competitive Europe, has committed to prepare by 2021 Legislative and non-legislative measures establishing a new "right to repair". In this context, one of the activities is to develop a scoring system that allows to communicate to consumers the reparability of products.	JRC.B.5	ENV	ENV JRC	GROW	2021-01-01	2023-12-31	CON-AA INS-RS	3040262	309482	Data gathering for Impact assessment for a new horizontal ecodesign/labelling implementing measure introducing the scoring	Report presenting data gathering with the purpose of preparing, as a next step (not included in the work), an Impact assessment for a new horizontal ecodesign/labelling implementing measure introducing the scoring system for several products.	2023-12-31	Science for Policy reports	N
																	3040263	309481	Testing phase of scoring: pilot study 3 products, refinement of the methodology.	Report describing the testing phase of scoring: pilot study 3 products, refinement of the methodology.	2023-12-31	Science for Policy reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20483	PB	Product Bureau	JRC.B.5	30951	SUPERPRODUCT 2020	Preparation of legislative sustainable products initiative	The European Commission, in the COM(2020) 98 COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS, A new Circular Economy Action Plan For a cleaner and more competitive Europe, has committed to: Prepare the methodology under a new overarching legislative proposal on the environmental impact of products. The framework of this proposal shall be tabled in 2021.	JRC.B.5	ENV	ENV	CLIMA ENER GROW JUST	2022-01-01	2023-12-31	CON-AA	3052202	309512	introduction of footprint information and conceptualisation of policy options	Report on introduction of footprint information and conceptualisation of policy options	2022-12-01	Science for Policy reports	N
																	3052203	309513	Assessment of the revision of the scope of the ecodesign directive	Report on assessment of the revision of the scope of the ecodesign directive	2022-12-01	Science for Policy reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3052204	30951	prioritisation of products to be addressed in a work programme.	Report on prioritisation of products to be addressed in a work programme.	2021-01-01	Science for Policy reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20483	PB	Product Bureau	JRC.B.5	31064	ProductPolicySupport	Horizontal institutional supportactivities for product policy, preparation for SPI support	The project supports key elements of the European Commission's Green Deal and Circular Economy Action Plan. It provides scientific foundations for developing and implementing the Ecolabel Regulation EC 66/2010, the Green Public Procurement Communication COM(2008)400, the Ecodesign Directive 2009/125/EC and the Energy Label Regulation EU 2017/1369. This includes scientific analysis on specific product groups, to be defined in co-operation with DG ENV, GROW and ENER, as well as horizontal research on the circularity of products. Furthermore the project provides the basis to support the indicator framework for sustainable buildings LEVEL(s), and contributions to the initiative of the Commission to revise the Batteries Directive, with a focus on portable batteries.	JRC.B.5	ENV	JRC	ENER GROW	2021-01-01	2022-12-31	CON-AA INS-RS	3058065	31064	Battery production in Europe - suppor to the legal framework	This report summarises the contribution of the JRC in support of product policy legislation. This includes supporting activities for the individual policy instruments such as Ecolabel, GPP, Energy Label and Ecodesign, but also preparatory work for a future overarching product legislation and related work on the further development of the LEVEL(s) indicator framework for sustainable buildings.	2022-12-31	Science for Policy reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20485	GREEN-ACT	Green economic activities and the circular economy for materials	JRC.B.5	30352	EoW	Support on end-of-waste criteria and by-products criteria	This project is needed under the Green Deal in order to establish a robust and integrated single market for secondary raw materials and by-products. ENV asks the JRC to support ENV in identifying priority material streams and then the JRC should develop technical proposals for end-of-waste and by-products criteria for specific materials. All currently existing EU end-of-waste regulations were developed by the JRC in the past. JRC involvement is considered as essential for the credibility of the process.	JRC.B.5	ENV	ENV JRC	GROW	2020-12-16	2023-12-15	CON-AA INS-RS	3007213	1	Scoping of work on end-of-waste criteria	Stakeholder Workshop Minutes & Conclusions	2021-12-31	Technical Reports	N
																	3078580	2	Report on end-of-waste or by-products criteria	Final Report with Technical Proposals for end-of-waste or by-products criteria for selected waste/material stream	2023-12-15	Science for Policy reports	N
																	3078625	3	Report on end-of-waste or by-prodcuts criteria	Final Report with further Technical Proposals for end-of-waste or by-products criteria for selected waste/material stream	2024-12-31	Science for Policy reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20485	GREEN-ACT	Green economic activities and the circular economy for materials	JRC.B.5	30364	SSLUDGE	Support to the review of rules on sewage sludge	Under the new Circular Economy Action Plan, the Commission will consider the review of the sewage sludge Directive. The review will address technological progress in waste water treatment technologies and address sensitive issues like the risks related to pharmaceutical substances and microplastics. The JRC has worked on sewage sludge derived products for the Fertilisers Regulation and DG ENV considers JRC support essential for the impact assessment of the sewage sludge Directive revision.	JRC.B.5	ENV	ENV JRC	(blank)	2020-12-16	2023-12-15	CON-AA INS-RS	3007215	1	Impacts of sewage sludge management options	Report related to assessing the risks and impacts of revising the provisions of the sewage sludge directive.	2023-12-15	Science for Policy reports	N
																	3078659	2	Technical Proposals for EoW criteria for sewage sludge	Final Report with Technical Proposals for EoW criteria for sewage sludge and derived products	2023-12-31	Science for Policy reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20485	GREEN-ACT	Green economic activities and the circular economy for materials	JRC.B.5	30372	CollectWaste	Harmonised collection of waste in the EU	The Green Deal sets out that, in order to simplify waste management for citizens and ensure cleaner secondary raw materials for businesses, the Commission will propose an EU model for separate waste collection. DG ENV wants to rely for this on the JRC's competencies in building consensus on best waste management practices.	JRC.B.5	ENV	ENV JRC	(blank)	2020-12-16	2023-12-15	CON-AA INS-RS	3007224	1	How to harmonise separate waste collection systems	Report with proposals or assessments of how to harmonise separate waste collection systems in the EU	2023-12-15	Science for Policy reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20485	GREEN-ACT	Green economic activities and the circular economy for materials	JRC.B.5	30374	QRecycling	High quality recycling	Towards the objectives of the EU Green Deal, the circular economy offers the opportunity for much deeper, and potentially less costly, carbon emission cuts by materials recirculation and materials efficiency than what can be achieved by reducing the emissions from the production of materials alone. Moreover, material recycling is important for reducing carbon emission from waste disposal or incineration. Some types of recycling offer greater overall benefits than others; unlocking the potential of recycling therefore not only means to recycle more, as required by the current legal recycling targets, but also to recycle better. Quantitative evidence is however still weak and there is an urgent need for a solid methodology that can quantify the actual carbon savings and other environmental benefits of material recirculation.	JRC.B.5	ENV	JRC	(blank)	2021-01-01	2025-12-31	INS-RS	3007217	1	How to improve the value of recycling	Assessment report of how to improve the quality and value of recycling	2023-12-31	Science for Policy reports	N
																	3020834	2	Carbon saving potential of plastic recycling	Assessment of the carbon saving potential of of plastic recycling compared to other waste management options	2021-12-31	Science for Policy reports	N
																	3020835	3	Recycling target assessment	Assessment of material-specific recycling targets	2024-12-31	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.5 Green and sustainable economy	20485	GREEN-ACT	Green economic activities and the circular economy for materials	JRC.B.5	30412	SusFinTaxonomy	Support on sustainable finance taxonomy	The 'EU taxonomy' is an EU-wide classification system for sustainable economic activities, with the purpose to facilitate sustainable investment. It is a list of economic activities with technical screening criteria determining in which cases each economic activity is considered environmentally sustainable. The framework for developing and applying the taxonomy is set by the recently adopted Regulation (EU) 2020/852 (the so-called Taxonomy Regulation). An activity is considered environmentally sustainable if it makes a substantial contribution to at least one of the following environmental objectives: 1. Climate change mitigation 2. Climate change adaptation 3. Sustainable use and protection of water and marine resources 4. Transition to a circular economy 5. Pollution prevention and control 6. Protection and restoration of biodiversity and ecosystems while not causing significant harm to any of the other objectives. These two conditions are considered met when an economic activity fulfils a set of activity-specific technical screening criteria. The actual taxonomy is exactly the list of activities with, for each one, its technical screening criteria. Additionally, activities need to meet a general set of minimum social safeguards.	JRC.B.5	FISMA	ENV JRC	CLIMA ENER ENV	2021-01-01	2025-12-31	CON-AA INS-RS	3002376	1	Development of the EU Sustainable Finance Taxonomy – Possible approaches for defining substantial contribution for environmental objectives 3-6	The Taxonomy Regulation defines the uses of the EU Taxonomy and the framework to develop it, but it does not contain the Taxonomy itself. Instead, it empowers the European Commission, advised by the Platform on Sustainable Finance, to develop the actual Taxonomy (i.e. the list of economic activities with technical screening criteria) as Delegated Acts under the regulation. The Taxonomy Regulation sets out that economic activities can be included if, inter alia, they make a substantial contribution to one of the environmental objectives set out for the taxonomy. However, it leaves up to the Delegated Acts to define, by means of technical screening criteria for each economic activity, what a substantial contribution is. This report will provide a robust conceptual framework, methodology and process that can be applied to each economic activity to define what a substantial contribution is for each of taxonomy objectives 3-6, allowing a robust development of the EU Taxonomy.	2021-12-31	Technical Reports	N
																	3020882	2	Input to Commission delegated acts under the taxonomy regulation	Development of technical screening criteria for economic activities that make a substantial contribution to an environmental objective and no significant harm to any of the others. This is the key element of the delegated acts the European Commission needs to adopt under the taxonomy regulation to make it operational. (Timing depending on the programming of the Commission's activities and of the work of the expert group that should provide advice to the Commission, called the Platform on Sustainable Finance)	2022-12-31	Whole parts of policy documents	N
1. A European Green Deal	1.5 Green and sustainable economy	20485	GREEN-ACT	Green economic activities and the circular economy for materials	JRC.B.5	30422	EREK	Technical support on resource efficiency and the circular economy for European companies	The European Resource Efficiency Knowledge Centre (EREK) is an initiative of the European Commission designed to help European companies, especially SMEs, save resources and reduce associated costs. EREK also supports national, regional and local organisations across Europe that work with SMEs to improve their environmental performance, helping them to become more resource efficient. An EREK website will be hosted and maintained under the European Cluster Collaboration Platform (ECCP). In support of EREK, the JRC focusses on the collection, edition and dissemination of technical content on resource efficiency targeted at companies, with a view to achieve maximum impact in the targeted organisations.	JRC.B.5	GROW	GROW	ENV	2019-11-01	2021-12-31	CON-AA	3002623	1	Optimising resource efficiency support tools for SMEs	Report with analysis and proposals for optimising resource efficiency support tools for SMEs	2021-12-31	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20485	GREEN-ACT	Green economic activities and the circular economy for materials	JRC.B.5	30424	BYPRODUCTS CRITERIA	Safety and agronomic efficiency criteria for by-products in EU fertilising products	On 5 June 2019, the European Parliament and the Council adopted Regulation (EU) 2019/1009 laying down rules on the making available on the market of EU fertilising products and amending Regulations (EC) No 1069/2009 and (EC) No 1107/2009 and repealing Regulation (EC) No 2003/2003 ("the Fertilising Products Regulation"). One of the main achievements of this Regulation is that it opens up the single market to fertilising products sourced from secondary raw materials and by-products by harmonising such products at EU level. The Fertilising Products Regulation will apply to by-products in the meaning of Directive 2008/98/EC, resulting from different industries, as component materials for EU fertilising products only if these by-products will comply with requirements related to quality and safety. Article 42(7) of the Fertilising Products Regulation sets the obligation for the Commission to adopt, by 16 July 2022, a delegated act to establish criteria on agronomic efficiency and safety of use of by-products in EU fertilising products.	JRC.B.5	GROW	GROW	ENV	2020-02-01	2022-05-31	CON-AA	3002883	1	Report on by-products criteria	Final report on safety and agronomic efficiency criteria for by-products in EU Fertilising Products	2022-05-31	Science for Policy reports	N
																	3021024	2	Interim report on by-products criteria	Interim report on safety and agronomic efficiency criteria for by-products in EU Fertilising Products	2021-10-31	Technical Reports	N

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1. A European Green Deal	1.5 Green and sustainable economy	20485	GREEN-ACT	Green economic activities and the circular economy for materials	JRC.B.5	30441	WASTE OILS - CDW	Assessments of aspects relative to the management of waste oils and construction & demolition waste	Article 21 of the Waste Framework Directive, as amended in 2018, introduced provisions regarding the environmentally sound management of waste oils. In particular, the Commission is required, by 31 December 2022, to examine information on waste oils provided by Member States with a view to considering the feasibility of adopting measures for the treatment of waste oils including: - Quantitative targets on the regeneration of waste oils - Any further measures to promote the regeneration of waste oils. Article 11(2) of the Waste Framework Directive sets a target for EU countries of a minimum 70% by weight of non-hazardous construction and demolition waste (excluding naturally occurring material defined in category 17 05 04 in the list of waste) undergoing preparing for re-use, recycling and other material recovery, including backfilling operations using waste to substitute other materials, by 2020. Further to that, article 11(6) of the Waste Framework Directive as amended in 2018 requires that the Commission consider the setting of preparing for re-use and recycling targets for construction and demolition waste and its material-specific fractions by 31 December 2024.	JRC.B.5	ENV	ENV	GROW	2020-01-01	2021-12-31	CON-AA	3003270	2	Assessments of aspects relative to the management of construction & demolition waste	Final report on assessments of aspects relative to the management of construction & demolition waste	2021-12-31	Science for Policy reports	N
																	3003271	1	Assessments of aspects relative to the management of waste oils	Final report on the assessments of aspects relative to the management of waste oils	2021-12-31	Science for Policy reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20485	GREEN-ACT	Green economic activities and the circular economy for materials	JRC.B.5	30446	CEBEST	Circular economy best practices and innovation	European businesses should continue to be frontrunners in circular innovations. The European Regional Development Fund, smart specialisation initiatives, LIFE and Horizon Europe, cities and regions need reference information on promising technologies and best practices for complementing private innovation funding and support the whole innovation cycle with the aim to bring solutions to the market.	JRC.B.5	GROW	JRC	CLIMA ENV REGIO RTD	2021-01-01	2025-12-31	INS-RS	3003361	1	Report on best practices for the circular economy	Reference report on best practices for the circular economy (on circular business models, new recycling technologies, etc.)	2022-12-31	Technical Reports	N
																	3021059	2	New technologies for the circular economy	Report on new digital and other technologies for advanced recycling solutions	2021-12-31	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20485	GREEN-ACT	Green economic activities and the circular economy for materials	JRC.B.5	31440	CEAPrecycling	Circular economy actions on recycling	The Waste Framework Directive (2008/98/EC) established that waste legislation and policy of the EU Member States shall apply as a priority order the following waste management hierarchy: reuse, recycling, recovery, and disposal. The Directive assumes that following this order leads to the best overall environmental outcome, yet it opens to life cycle thinking and assessment to verify the preferable environmental option on a case-by-case basis. Recycling of waste is defined as any recovery operation by which waste materials are reprocessed into products, materials or substances whether for the original or other purposes. The Commission regularly receives requests from the industry and Member States to revisit the definition of recycling to allow for more innovative technologies to be considered recycling or contribute to recycling objectives and secure legal certainty for their investments. This, for instance, concerns chemical recycling and other processes that produce fuel but also recover material. Furthermore, the Commission is working on rules for recycled content, for example regarding the use of recycled plastics in cars.	JRC.B.5	ENV	ENV	(blank)	2021-01-01	2023-12-15	CON-AA	3095526	1	Proposals for a revision of the definition of recycling	Final Report with Technical Proposals on a revised definition for recycling	2023-12-15	Science for Policy reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20485	GREEN-ACT	Green economic activities and the circular economy for materials	JRC.B.5	31441	CircularBatteries	Circularity of batteries	In December 2020 the Commission proposed a new Batteries Regulation. This Regulation aims to ensure that batteries placed in the EU market fit into the circular economy and are sustainable and safe throughout their entire life cycle. The proposal contains an obligation for the producers to inform on the level of recycled content materials in new batteries. Therefore, the Commission has to develop a methodology to measure these quantities, to be adopted later, by an implementing act. Furthermore, barriers to an enhanced re-use and recycling of new types of batteries, in particular lithium-based, need to be removed and the identification and classification of relevant waste streams needs to be improved. This implies that the European List of Waste has to be updated through an amendment of the corresponding legislation.	JRC.B.5	ENV	JRC	GROW	2022-01-01	2024-12-31	CON-AA INS-RS	3095572	1	Methodology for the calculation of the levels of recycled content in batteries	Final Report with proposals of a methodology for the calculation of the levels of recycled content in batteries	2024-12-31	Science for Policy reports	N
																	3095580	2	Proposals for the European List of Waste entries relevant to batteries	Final report with proposals for the targeted amendment of the European List of Waste entries relevant to batteries	2024-12-31	Science for Policy reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20535	GREENFINSTRAT	A green financing strategy	JRC.B.1	30513	SUSFIN	Sustainable Finance	Research and policy support work on Sustainable Finance, along the lines of the key actions described in the EC Action Plan on Sustainable Finance.	JRC.B.1	FISMA	JRC	(blank)	2021-01-01	2022-12-31	INS-RS	3003791	1	Research on Sustainable Finance	Series of studies on Sustainable Finance.	2022-12-31	Science for Policy reports	N

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																	3068622	2	Summer School on Sustainable Finance 2021	This is an annual event that brings together researchers in sustainable finance, policymakers and professionals. The first edition was in 2019.	2021-07-15	Science for Policy reports	N
																	3068623	3	Summer School on Sustainable Finance 2022	This is an annual event that brings together researchers in sustainable finance, policymakers and professionals. The first edition was in 2019.	2022-07-15	Science for Policy reports	N
																	3068624	4	Contribution to Project Team on Climate Risk set up by European Systemic Risk Board	The JRC is full member of this Project team, representing the EC together with FISMA.	2021-06-30	Technical Reports	N
																	3068625	5	Support to the Sustainable Finance Platform	Task 3 of the Sustainable Finance Platform focusses on monitoring investment flows towards sustainable economic activities.	2022-09-30	Technical Reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20535	GREENFINSTRAT	A green financing strategy	JRC.B.1	30943	FINEL 2018	Financial Instruments Ecolabel	JRC B.5 Product Bureau provides research support to DGs ENV, GROW and ENER in further developing implementing the key environmental product policies, namely the Energy related Products (Ecodesign) Directive, the Energy Labelling Regulation, the Ecolabel Regulation and the Green Public Procurement Communication. More specifically, FINEL deals with the development of an ecolabel for financial products. Such a label development has been announced by the Commission in the Action Plan: Financing Sustainable Growth (COM(2018) 97). FINEL supports the Circular Economy Action Plan through providing environmental, techno-economic and scientific analysis for the formulation of secondary legislation on Ecolabel. As the work builds on collaboration agreements over 10 years, JRC involvement is considered as essential for the credibility of the process. JRC.B5 has developed unique expertise in the field, and has built a methodology for collaboration with stakeholders (the "Sevilla process").	JRC.B.5	ENV	ENV JRC	ECFIN	2018-09-01	2022-08-31	CON-AA INS-RS	3039790	309431	Ecolabel Regulation proposal for financial products	Draft legislative proposal according to the task and processes set out in annex 1 of the Ecolabel Regulation 66/2010 enabling the Commission to formulate and implement Ecolabel criteria for financial instruments.	2022-08-31	Science for Policy reports	N
1. A European Green Deal	1.5 Green and sustainable economy	20831	RM std	Reference materials for standardisation	JRC.F.6	30684	RMTFE	Reference Materials for a toxic-free environment	The Communication "The European Green deal" emphasizes that "To protect Europe's citizens and ecosystems, the EU needs to better monitor […] pollution from air, water, soil…". The quality of monitoring data is crucial for sound decision taking. Certified Reference materials are important tools to ensure the quality of monitoring data that is based on analytical measurements. Directive 2009/90/EC for example requires water monitoring laboratories in the EU to use reference materials to ensure the reliability and comparability of their monitoring data.	JRC.F.6	ENV	JRC	AGRI SANTE	2021-01-01	2025-12-31	INS-RS	3016072	22RMTFEd	Certified Reference Materials for environmental monitoring	Certified Reference Materials for environmental monitoring will be developed.	2022-12-31	Reference materials	N
																	3069798	22RMTFEd	Scientific publications related to the development of CRMs for environmental monitoring	Scientific publications describing the development and production of Certified Reference Materials for environmental monitoring, including related research, will be drafted	2022-12-31	Journal contributions (Clarivate)	N
1. A European Green Deal	1.5 Green and sustainable economy	20831	RM std	Reference materials for standardisation	JRC.F.6	30686	Health RM	Reference Materials for health	Commission priority 'Promoting the European way of life' strives for equality, offering all Europeans the same opportunities. The Union has to help Europeans take care of their health, ensuring that they can benefit from innovations while limiting the increase of costs. At the same time incidents have threatened civil society by the attempted use of biological toxins, requiring increased vigilance and adequate preparation to reduce risks of man-made disasters. Enabling standardisation in the area of in-vitro diagnostics (IVDs), including the development of certified reference materials (CRMs) improves health status measurements and aids early-on diagnosis of patients. Patient's benefit from the reliable setting of international clinical reference ranges. JRC F.6 develops and produces CRMs in collaboration with the International Federation of Clinical Chemistry and Laboratory Medicine (IFCC). These CRMs are predominantly used by IVD manufacturers to standardise their biomarker assays. Standardisation of the numerous IVD biomarker assays used in health care, is a prerequisite for establishing clinical reference ranges and correct diagnosis. Likewise this also ensures early diagnosis, fosters improved treatment chances and reduces costs. The CRMs help IVD manufacturers to ensure implementation of the European in-vitro diagnostics (IVD) medical device regulation (EU) 2017/746 by establishing traceability of diagnostics measurements as specified in ISO 17511 and ISO 15194. Reliable IVD diagnostics is of relevance for patients, an efficient health care system but is also relevant for the health care economy. It is	JRC.F.6	SANTE	HOME JRC	HOME	2021-01-01	2025-12-31	CON-IA INS-RS	3029085	01	IVD and biotoxin reference materials	Release of newly produced Certified Reference Materials, supporting standardisation efforts in the area of in-vitro diagnostics (implementation of EU legislation (EU) 2017/746) and in the area of biological toxins (supporting CBRN-E action plan 15505/1/09 EU).	2022-12-31	Reference materials	N
																	3069922	02	Scientific publications related to the development of CRMs for clinical diagnostics and the detection of biological toxins	Scientific publications describing the development and production of Certified Reference Materials for clinical diagnostics and the detection of biological toxins, including related research, will be drafted.	2022-12-31	Journal contributions (Clarivate)	N

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1. A European Green Deal	1.5 Green and sustainable economy	20831	RM std	Reference materials for standardisation	JRC.F.6	30869	RMF2F	Reference Materials supporting the farm to fork strategy	One of the priorities in the European Green Deal is designing a fair, healthy and environmentally-friendly food system. Compliance with EU legislation and upcoming strategic plans such as the "Farm to Fork strategy for sustainable food", the development of efficient food production system and the reduction of chemical pesticides will in many cases need to be verified through monitoring and measurements. The availability of (Certified) Reference Materials (C)RMs as measurement standards and quality benchmarks is crucial for supporting food authorities in EU Member States in their efforts to maintain food safe, nutritious and of high quality for the benefit of all citizens.	JRC.F.6	SANTE	JRC	AGRI ENV	2021-01-01	2025-12-31	INS-RS	3017934	22RMF2Fd	Certified Reference Materials supporting the farm to fork strategy	Certified Reference Materials supporting the farm to fork strategy will be developed	2022-12-31	Reference materials	N
																	3069876	22RMF2Fd	Scientific publications related to the development of CRMs supporting the farm to fork strategy	Scientific publications describing the development and production of Certified Reference Materials supporting the farm to fork strategy, including related research, will be drafted	2022-12-31	Journal contributions (Clarivate)	N
1. A European Green Deal	1.5 Green and sustainable economy	20831	RM std	Reference materials for standardisation	JRC.F.6	30883	RMCCE	Reference Materials for a clean and circular economy	One of the priorities in the European Green Deal is the mobilisation of European industry for a clean and circular economy. Mutual recognition of compliance with standards in the global as well as the internal market for goods needs to be effective, as it avoids duplication of compliance checks and enhances trust between trade partners. This is also emphasised in the New Industrial Strategy for Europe. The availability of (Certified) Reference Materials (C)RMs as measurement standards and quality benchmarks is crucial for supporting the competitiveness of European industry and for compliance controls with EU legislation, especially in a circular economy with its focus on re-use and recycling of materials.	JRC.F.6	GROW	JRC	CNECT EMPL ENV SANTE TAXUD	2021-01-01	2025-12-31	INS-RS	3026302	20RMCCEd	Certified Reference Materials for a clean and circular economy	Certified Reference Materials supporting industry will be developed, with a special focus on clean and circular economy	2022-12-31	Reference materials	N
																	3069880	22RMCCEd	Scientific publications related to the development of CRMs for clean and circular economy	Scientific publications describing the development and production of Certified Reference Materials for a clean and circular economy, including related research, will be drafted	2022-12-31	Journal contributions (Clarivate)	N
1. A European Green Deal	1.5 Green and sustainable economy	23060	NEB	New European Bauhaus	JRC.01	31581	NEB	The New European Bauhaus	The New European Bauhaus (NEB) wants to make the Green Deal a cultural, human centred and positive, "tangible" experience, bringing the Green Deal to the people by co-designing and building a beautiful (safer, healthier, making people feel in contact with the nature and with others, ...), sustainable and inclusive future. The NEB) wants to demonstrate on the ground that creativity is in finding affordable, inclusive and attractive solutions for our climate challenges. The New European Bauhaus wants to connect different realities and the JRC, with its holistic portfolio and horizontal role as the EC's science and knowledge service, has been tasked to lead this EC wide initiative. The COVID crisis has shown that many topics are interlinked and that new thinking comes from breaking silos, just as the Bauhaus movement did one hundred years ago. The New European Bauhaus would like to facilitate the exchange of knowledge between people across disciplines and societal sectors, across European localities and citizens, and to create an interdisciplinary project.	JRC.01	RTD	JRC	CLIMA EAC EMPL ENER ENV GROW REGIO SG	2021-01-01	2027-12-31	INS-RS	3107890	022021	Delivery framework	Informed by the findings of the co-design phase, a framework to support the delivery of the New European Bauhaus will be developed based on the input received from the core DGs that involved in the initiative. The financial support will consist on a combination of financial instruments that will capitalise on their existing complementaries to address the common challenges in a more impactful manner.	2021-12-17	Science for Policy reports	N
																	3107891	032021	New European Bauhaus Website and Newsletter	The New European Bauhaus will release Newsletters on regular basis to keep informed the audience regarding the progress made by the initiative. The NEB Website will be the main channel for communication with the external community.	2021-12-17	Technical systems	N
																	3107892	012021	Findings from the co-design phase	A report will summarise the main findings after the conclusion of the co-design process of the New European Bauhaus.	2021-12-17	Science for Policy reports	N
1. A European Green Deal	1.6 Environment	20062	ChemicalsStrategy	Chemicals Strategy for Sustainability	JRC.F.3	30028	Chemicals Policy	Evidence based chemicals policy	The project supports the evolution of scientific assessment approaches used in EU chemical policy towards a simpler and stronger framework. It contributes to the implementation of actions of the chemicals strategy for sustainability. The contribution to the strategy include scientific and technical support for the envisaged work on updating information requirements based on Non Animal Methods (NAMs), the development of new hazard classes and their introduction into CLP (e.g. endocrine disruptors), the combination effects of chemicals (e.g, introduction of a mixture assessment factor, MAF, in REACH), the 'one substance, one assessment' initiative and an indicator framework on chemicals. Building on the evidence collected through the Commission's Better Regulation initiatives (policy evaluations) the intention is to contribute to a harmonised knowledge base on chemicals, maximising the use of NAMs and existing data, considering also related policies such as public health and pharmaceutical products. The project will include the development, maintenance and promotion of IPCHEM, the Information Platform for Chemical Monitoring, which is a reference point for environmental monitoring and human biomonitoring data. These data will support efforts to elucidate the causal factors underlying disease and ecosystem damage, with a view to informing policy interventions. The project will also include the Dir F contribution to the Partnership for the Assessment of Risk from Chemicals (PARC).	JRC.F.3	ENV	JRC	EMPL GROW SANTE	2021-01-01	2025-12-31	INS-RS	3015658	2	Consolidating the evidence base on chemicals throughout the policy cycle	- IPCHEM – IT maintenance and content management. Make harmonised chemical occurrence data available to EU institutions and the public via IPCHEM, through collaboration with DG ENV and the agencies. Such data include environmental, food and feed, indoor air, product and (anonymised or pseudonymised) human biomonitoring data - Maintaining, developing and promoting IT data and knowledge platforms on chemical hazards (e.g. EASIS, OHT 201) - Case studies exploring and applying NAM based data and knowledge on chemicals (e.g. (bio)monitoring, AOP knowledge base, omics) in regulatory contexts. Combining the use of chemical data with other evidence streams (e.g. disease registries, epidemiology) to investigate the causal factors underlying disease and ecosystem damage, with a view to informing policy interventions.	2022-11-30	Technical Reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3015659	1	Evolving the chemicals acquis towards a simpler and better regulatory framework	- Scientific support to the implementation of actions of the Chemical Strategy for Sustainability (one substance one assessment, safe and sustainable by design, generic risk approaches, mixture assessment factor under REACH) - Contribution to revision of information requirements under REACH and PPP regulations - Contribution to GHS and CLP guidance (e.g. severe eye damage/irritation, skin sensitisation, genotoxicity) and to the analysis of options for including EDs in CLP and GHS, as support to ENV/GROW	2022-10-31	Technical Reports	N
1. A European Green Deal	1.6 Environment	20062	ChemicalsStrategy	Chemicals Strategy for Sustainability	JRC.F.3	30029	MiNaPLAST	Micro and nano-plastics: Towards a more reliable assessment of exposure and biological effects	Micro(nano)plastics are persistent pollutants whose rapidly increasing presence in land, water, food and even air may produce harmful but poorly understood effects on the environmental and potentially human health. There has been much debate on what needs to be done to understand and reduce the impact of these pollutants with numerous international calls for action on the issue (UN,WHO,OECD). The EC has responded in key policy documents such as the Green Deal and the European Plastics Strategy and is now driving the development of legislation though restrictions under REACH or as part of the review of legislation such as the Drinking Water Directive (Recast-DWD). Such legislation will have important economic consequence for not only plastic users and manufacturers but also member states, should they be required to adopt costly avoidance or remedial actions on e.g, potable water quality. It is therefore critical that the designers of such legislation have a sound science base to ensure it is targeted, effective and implementable. Unfortunately, this is hindered by the limited knowledge of many key issues, e.g. exposure/uptake levels, environmental distribution, food web interactions and biological effects. It is widely acknowledged that these information gaps come, in part, from the lack of standardized methods to detect microplastics (typically >1µm), the near total absence of methods for small micro nanoplastics (<10µm) and the use of poorly relevant toxicological testing methods. To address these issues this project will do the following. •Contribute to development, harmonisation and standardisation of analytic methods for micro and	JRC.F.2	ENV	JRC JRC JRC JRC	GROW MARE SANTE	2021-01-01	2025-12-31	INS-CAS INS-ER INS-PoC INS-RS	3019482	1	Scientific publication(s) relating to nano and/or microplastics.	Scientific publications relating to detection and characterization methods for micro and nanoplastics, their occurrence in relevant sample types (ie food/water/soil/air) and their interactions with biological systems.	2022-12-31	Journal contributions (Scopus)	N
																	3025448	2	JRC activities supporting EU and international standardization/harmonization of micro and nanoplastics analytics	DescriptionThis report will detail activities contributing to international standardization and wider harmonization of analytical methods for micro and nanoplastics analytics. Activities may include •Participation in international working groups for the development of standards through national/international such as OECD as well as standardization organizations such as ISO/CEN. •Supporting the establishment of expert networks and working groups including organization of workshops to promote method development. •Feasibility study on the establishment of a microplastics materials repository •Organization or participation in inter-laboratory studies	2022-12-31	Technical Reports	N
																	3025449	3	Analytical protocols for recovery and analysis of microplastics from aquatic matrixes: Recommendations and experimental evaluations:	A summary report of protocols and methods which have been developed and tested for the analysis of the water based matrixes such as marine/fluvial and drinking water. The report and associated annexes will be prepared as technical support documents which could be directly used by MS control/monitoring laboratories to help in setting up their own analysis procedures.	2022-02-01	Technical Reports	N
																	3025450	4	Analytical protocols for recovery and analysis of microplastics from air,soil and selected alimentary products: Recommendations and experimental evaluations:	Analytical protocols for recovery and analysis of microplastics from air, soil and selected alimentary products: Recommendations and experimental evaluations:	2023-02-01	Technical Reports	N
																	3109094	SNAP	SNAP PoC: Feasibility report and detection limit for the detection and identification of standard nanoplastics produced in laboratory	SNAP - Searching Nanoplastics in Atmospheric Pollutants Proof of Concept project - Feasibility report and detection limit for the detection and identification of standard nanoplastics produced in laboratory	2022-07-29	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.6 Environment	20062	ChemicalsStrategy	Chemicals Strategy for Sustainability	JRC.F.3	30030	Outreach	Outreach activities to support Research Innovation and Education in EU and Near neighbouring countries including Western Balkans countries	EC's Green Deal aims to transform the European Union by moving towards climate neutrality, zero-pollution and a circular economy. This transformation will require a new model of industry using innovative and clean processes for developing novel advanced materials (AMs) including nanomaterials with new properties and functionalities. AMs will provide adding values to existing products and technologies with high benefits for human health and environment. This process must rely on a sustainable innovation ecosystem based on new technical and scientific skills for the next generation of scientists, control laboratory personnel, regulators and on strong EU Research and Innovation (R&I) collaboration tools supported by sustainable research infrastructures. Likewise, an active interface between research, regulatory science communities and policy makers is needed to provide a robust EU legislation. This active interface must ensure not only a safe but a sustainable innovation in limiting for instance the risk of release of by-products such as nanomaterials, nano and microplastics in the environment. Achieving EC's Green Deal objectives will require not only the contribution of each EU Member State but as well, the involvement of the EU neighbourhood countries associated to the Horizon Europe framework program. This is not without its challenges since Research & Innovation divide between the different EU Member States and some associated countries may results in a disparity of capacity and commitment. Therefore, measures for spreading excellence to favour regional development and European cohesion are	JRC.F.2	GROW	RTD JRC JRC	(blank)	2021-01-01	2025-12-31	CON-IA CON-IA INS-PoC INS-RS	3009974	1	Scientific publications of joint research activities with stakeholders and strategic partners	This deliverable consists in scientific publications related to collaborative scientific activities performed in the frame the Outreach activities i.e. open access of the nanobiotechnology laboratory, Memorandum of understanding and Horizon Europe projects.	2021-11-30	Journal contributions (Clarivate)	N
																	3009985	2	progress report on training and open access activities	The deliverable will summarize the training and open access activities performed with institutions from EU member states, Horizon Europe associated and EU neighbourhood countries, EU micro-regions and with world leader Strategic partners. Activities including dedicated training sessions and summer schools. Institutions include national competent authorities, regulators, academia and research centres.	2021-11-30	Training	N
																	3010804	3	Scientific publications of joint research activities with stakeholders and strategic partners	This deliverable consists in scientific publications related to collaborative scientific activities performed in the frame the Outreach activities i.e. open access of the nanobiotechnology laboratory, Memorandum of understanding and Horizon Europe projects.	2022-12-30	Journal contributions (Clarivate)	N
																	3011382	4	Scientific publications of joint research activities with stakeholders and strategic partners	This deliverable consists in scientific publications related to collaborative scientific activities performed in the frame the Outreach activities i.e. open access to the nanobiotechnology laboratory, Memorandum of understanding and Horizon Europe projects.	2022-11-30	Journal contributions (Clarivate)	N
																	3011383	5	Progress reports on training and capacity building and open access activities	The deliverable will summarize the training and open access activities performed with institutions from EU member states, Horizon Europe associated and EU neighbourhood countries, EU micro-regions and with world leader Strategic partners. Activities including dedicated training sessions and summer schools. Institutions include national competent authorities, regulators, academia and research centres.	2022-11-30	Training	N
																	3012756	6	Scientific publications of joint research activities with stakeholders and strategic partners	This deliverable consists in scientific publications related to collaborative scientific activities performed in the frame the Outreach activities i.e. open nanobiotechnology laboratory, Memorandum of understanding and Horizon Europe projects.	2024-11-30	Journal contributions (Clarivate)	N
																	3012757	7	Progress reports on training and capacity building and open access activities	The deliverable will summarize the training and open access activities performed with institutions from EU member states, Horizon Europe associated and EU neighbourhood countries, EU micro-regions and with world leader Strategic partners. Activities including dedicated training sessions and summer schools. Institutions include national competent authorities, regulators, academia and research centres	2024-11-30	Training	N
																	3012758	8	Scientific publications of joint research activities with stakeholders and strategic partners	This deliverable consists in scientific publications related to collaborative scientific activities performed in the frame the Outreach activities i.e. open access to the nanobiotechnology laboratory, Memorandum of understanding and Horizon Europe projects	2025-11-30	Journal contributions (Clarivate)	N
																	3012759	9	Progress reports on training and capacity building and open access activities	The deliverable will summarize the training and open access activities performed with institutions from EU member states, Horizon Europe associated and EU neighbourhood countries, EU micro-regions and with world leader Strategic partners. Activities including dedicated training sessions and summer schools. Institutions include national competent authorities, regulators, academia and research centres	2025-11-30	Training	N
																	3106652	10	Report on mapping safe-and-sustainable-by-design skills mismatches and competences gaps, in line with the relevant actions of the chemicals strategy	this deliverable will report on the pilot study on mapping the main research institutions from Near neighbouring countries including Western Balkans countries working on safe-and-sustainable-by-design materials by using the JRC Text mining tools.	2022-06-30	Technical Reports	N

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1. A European Green Deal	1.6 Environment	20062	ChemicalsStrategy	Chemicals Strategy for Sustainability	JRC.F.3	30031	ToxFree	Chemical assessment methodology for a toxic-free environment	This project will contribute to the Commission's Strategy for Chemical Sustainability by providing the scientific and technological basis for innovation and competitiveness in the identification and assessment of hazardous chemicals, thereby supporting substitution efforts in a circular economy. The CLP Regulation provides a baseline for identifying chemical hazards, while chemical property data are generated under legislation such as REACH, the Cosmetics, the Plant Protection Products and Biocidal Products regulations. However, the regulatory scope of the chemicals acquis only covers a small percentage of all chemicals to which people and ecosystems are exposed. It is estimated that there are well over 100,000 chemicals on the market, and yet there is little to no information on hazardous properties for 90% of them. There is therefore a need for a better screening of all chemicals to prioritise in-depth assessments on the basis of hazard and/or risk. This necessitates the use of "New Approach Methodologies" (in silico and in vitro methods) based on the latest technologies and underpinned by an understanding of underlying mechanisms of biological action. Priorities should then focus on specific health or environmental concerns, taking vulnerable populations into account. A more in-depth assessment of chemicals of concern can be achieved by applying fit-for-purpose Integrated Approaches to Testing and Assessment (IATA), which combine the use of New Approach Methodologies with other evidence streams. The development of standardised methods and harmonised assessment approaches is essential in maintaining the Single	JRC.F.3	ENV	JRC	GROW SANTE	2021-01-01	2025-12-31	INS-RS	3015860	2	Integrated use of New Approach Methodologies for the regulatory assessment of chemicals	This deliverable is related to activities aimed at developing Integrated Approaches to Testing and Assessment (IATA) with a view to their harmonisation and implementation at international level. These activities will necessitate to closely collaborate with a wide range of networks (e.g. ESAC (EURL ECVAM Scientific Advisory Committee), EU-NETVAL (European Union Network of Laboratories for the Validation of Alternative Methods), PARERE - (EURL ECVAM Network for Preliminary Assessment of Regulatory Relevance), ESTAF (EURL ECVAM Stakeholder Forum)) and stakeholders (e.g. OECD, GHS, WHO, ICH, VICH, EDQM, ICCR, EFSA, ECHA, EMA, CEN,). The outputs will contribute to: - OECD WNT (e.g. IATA on Non-genotoxic Carcinogenicity, IATA on DNT, IATA on fish toxicity, Defined Approaches for skin sensitisation, omics reporting frameworks, good in silico practices), - OECD WPHA (e.g. IATA case studies), - EPAA activities (e.g. PBK modelling, skin sensitisation, carcinogenicity) - Horizon 2020	2021-12-31	Technical Reports	N
																	3015861	1	Validation of New Approach Methodologies for the assessment of chemicals	This is the core business of EURL ECVAM as mandated by Directive 2010/63. An expert group, the EURL ECVAM Scientific Advisory Committee (ESAC), is maintained to give the JRC the essential advice required to fulfil the Union policy concerned. OECD Guidance Document 34 specifies that all test methods should undergo a peer review prior to international regulatory acceptance. Without ESAC's peer reviews of alternative methods, the Union policy concerned could not reach its objectives. Since scientific peer review involves a considerable amount of work, ESAC experts shall be entitled to the payment of a flat fee (fixed daily rate) of a maximum of EUR 450 for each full day of work during a dedicated ESAC working group meeting (maximum of 3 days), including related preparatory work. A maximum yearly budget of EUR 40000 is foreseen for payment of such fees calculated on the basis of four 3-day ESAC WG meetings (composed of 7 members on average).	2022-11-30	Technical Reports	N
1. A European Green Deal	1.6 Environment	20062	ChemicalsStrategy	Chemicals Strategy for Sustainability	JRC.F.3	30032	SESAME	Safe & Sustainable Advanced Materials	The Green Deal aims for a climate-neutral, sustainable and circular economy by investing in environment-friendly new technologies and materials. It drives and guides industrial innovation and the New Industrial Strategy for Europe (NISE) for the design and development of safe and sustainable materials and products: minimising adverse effects on human health and the environment, demand for finite resources, waste production and greenhouse gas emissions, while maximising potential for reuse and recycling. Advanced Materials (AMs), including nanomaterials, with novel or enhanced properties and better performance than conventional ones are key in NISE. SESAME develops a transparent, balanced and science-based framework for safe and sustainable AMs in a circular economy. It fosters developing key enabling technologies, strategically important for Europe's industrial future, as highlighted in NISE: e.g., nanotechnologies, advanced materials & technologies, quantum technologies, biomedicine and medical devices. Within the Horizon Europe programmes for AMs, SESAME implements the goals of the Green Deal in the NISE for AMs by promoting innovation, sustainable growth, EU/global trade, consumer acceptance and protection of human health & the environment. AMs are key in restoring Europe's technological leadership and competitiveness during and after a period of crisis, with a notable socio-economic impact. AMs may raise concerns about safety & sustainability and the ability of current regulations to address them. So, JRC will build on existing expertise and the related	JRC.F.2	ENV	SANTE RTD JRC	CNECT EMPL GROW NEAR RTD SANTE	2021-01-01	2025-12-31	CON-AA CON-IA CON-IA CON-IA CON-IA INS-RS	3013472	1	Methods for Physical, chemical and biological characterisation of nanomaterials	Scientific publications on physical, chemical and biological characterisation of advanced materials including nanomaterials, underpinning the refinement of regulatory practises.	2022-12-15	Journal contributions (Clarivate)	N
																	3013902	2	Nanomaterials in EU Regulation (e-learning course)	Nanomaterials in EU Regulation – basic course This will be a web-based e-learning course, to be developed in collaboration with directorate A, to be hosted on the EU Academy web platform, which should be launched in June 2020 The course is addressed to scientists who need to understand the regulatory approach to NMs in the EU. It will cover the following basic topics oWhat are nanomaterials in a regulatory context oWhy are NMs specifically addressed in legislation oBasic provisions for NMs in specific regulations oBasic safety aspects for NMs in specific legislation E.g. REACH, Cosmetics, Food, Biocides Note: if successful and desired, it can be followed up by an advanced course that goes into more depth for specific regulations.	2021-10-29	Training	N

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																	3017328	3	Advanced (Nano)Materials 2021	Report of contributions, events organised and output of F2 activities on regulatory aspects related to advanced materials (AM) & nanomaterials (NM) in a circular economy: supporting EU & International harmonisation on EHS for AM & NM in EU NCM-46, OECD WNT-33, OECD WPMN-21, ISO and CEN meetings, CARACAL, the ECHA NMEG, EFSA experts group, the COM ISG on NM & AM, other COM WGs (as for the CSS) & other fora for the implementation of REACH & relevant regulations for AM & NM. This will also ensure harmonisation of EU test methods with international guidelines in the Test Method Regulation. It may particularly address descriptors & defining criteria for AM, current use of AMs in specific fields (e.g. smart NM, food, medical devices), the status of safe-(and sustainable)-by-design and regulatory preparedness for for chemicals, in particular AM & NM, and the way to a possible European roadmap towards sustainable and safe AM. It will also address Representative Test Materials in JRC Repository	2021-12-01	Contributions to standards	N
																	3019725	4	Advanced (Nano)Materials 2022	Report of contributions, events organised and output of F2 activities on regulatory aspects related to advanced materials (AM) & nanomaterials (NM) in a circular economy: supporting EU & International harmonisation on EHS for AM & NM in EU NCM-46, OECD WNT-33, OECD WPMN-21, ISO and CEN meetings, EU CARACAL, ECHA NMEG, EFSA experts group, the COM ISG on NM & AM, other COM working groups and other fora for the implementation of REACH and relevant regulations for AM & NM. This will also ensure harmonisation of EU test methods with international guidelines in the Test Method Regulation. It may particularly address descriptors and defining criteria for AM, current use of AMs in specific fields (e.g. smart NM, food, medical devices), the status of safe-(& sustainable)-by-design and regulatory preparedness for chemicals, in particular AM & NM, and the way to a possible European roadmap towards sustainable &safe AM. It will also address Representative Test Materials in JRC Repository	2022-12-15	Contributions to standards	N
																	3020520	5	Nanomaterials in food ingredients and products: training, tools and methods to facilitate implementation of EU food law by Member States	The report will compile the activities, carried out in the frame of the AA Nano in Food with DG SANTE, aiming at supporting the implementation of EU food law relevant to (engineered) nanomaterials Member States Competent authorities and control laboratories have expressed the challenges in the enforcement duties including the limitation on knowledge, standardized methods and analytical capacities . In order to address these needs, a series of activities including networking with experienced food control labs, training sessions to less experienced MS labs , ad-hoc methodological and experimental activities for method development/validation/standardization will be carried out . The report will contain the description of the above activities as well as the feedback from the involved laboratories.	2021-12-23	Technical Reports	N
1. A European Green Deal	1.6 Environment	20062	ChemicalsStrategy	Chemicals Strategy for Sustainability	JRC.F.3	30842	MIMO	Exploratory Research Project MIMO	Micro(nano)-plastics are plastic particles below 5mm in size originating as manufactured primary particles (e.g printing inks, cosmetics etc.) or secondary particles produced by mechanical or chemical degradation of larger plastic components. They are now being found throughout the environment and there is growing concern that they may present a potential risk to human health via contamination of food, water and even air. While there is little doubt that wildlife/fish are harmed by ingestion of larger microplastics there are knowledge gaps in many key areas such as the extent to which smaller nanoplastic particulates interact with lower trophic layers and small microorganisms and cells. These gaps result, in large part, from the technical and throughput limitations of existing methods to detect and quantify particles when their sizes approach the lower resolution limits (<5-10µm) of optical microscopy/spectroscopy methods. In particular the extent to which particles interact or are absorbed by living organism must be better understood. This information is currently lacking or of uncertain quality due to the technical difficulties of detecting and quantifying in a statistically relevant manner the interaction of small organisms or single cell with particles in low micron or sub-micron size ranges. Such information would be valuable to firstly to the scientific community but also to legislators at EU member state or international level in developing evidence-based policies which may have important economic consequences for plastic users and manufacturers or member states should it be deemed necessary to implement costly remedial actions, on for example,	JRC.F.2	ENV	JRC JRC	(blank)	2019-09-16	2021-09-15	INS-ER INS-UR	3014224	1	Final technical report of the Microplastics in Micro-Organisms exploratory Project (MIMO)	The Final technical report will summarize the scientific results of the project and provide a summary of the scientific papers originating from the project. A mid-term technical report will be produced at the end of year 1	2021-12-15	Technical Reports	N

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1. A European Green Deal	1.6 Environment	20062	ChemicalsStrategy	Chemicals Strategy for Sustainability	JRC.F.3	30843	UNO	Uptake of Nanoplastics into Organoids (UNO)	In 2019 the EU scientific advisory bodies Science Advice for Policy by European Academies (SAPEA) and the Group of Chief Scientific Advisors (SAM) have recommended a number of policy actions in order to respond to the growing public concern on micro/nanoplastic pollution. One of the main conclusion highlighted by both advisory bodies is the insufficient evidence base for dietary and airborne plastic particles which does not allow reliable estimations of associated risks and the implementation of suitable risk management measures if necessary. Whereas biological barriers protect humans from the uptake of bigger particle sizes, risks for the internalization of plastic debris into the human circular system can increase with a decrease in size of the particles. The Group of Chief Scientific Advisors therefore asks for improvements of the currently used experimental techniques and the development of high-quality fit-for-purpose risk assessment methodologies adressing this knowledge gap. However, existing toxicological test methods are often not taking the particularities of nanomaterials into account. The translation of findings deriving from animal studies to humans is generally difficult and in vitro studies that have investigated biological effects of nanoplastics were based on maligne cell lines and used physiologically inappropriate concentrations of nanoplastics. Since the JRC has extensive experience in the physical, chemical and biological characterisation of industrial nanomaterials an exploratory research project has been proposed in order to close this methodological gap. Emerging technologies developed	JRC.F.2	ENV	(blank)	RTD	2020-08-01	2022-06-30	INS-ER INS-RS	3024474	1	Uptake of nanoplastics into organoids (Final Report)	The final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project. In addition, it will include developed protocols suitable for the assessment of nanoplastics in vitro	2022-04-30	Technical Reports	N
1. A European Green Deal	1.6 Environment	20062	ChemicalsStrategy	Chemicals Strategy for Sustainability	JRC.F.3	30888	PIRAT	Personalised Immunological Risk Assessment Technologies	The PIRAT project contributes to the Exploratory Research (ER) Programme 2019. The main goal of the proposed ER project is the development of a blood-on-a-chip device which allows the measurement of inter-individual immune responses after exposure to emerging health products. The risk of getting certain diseases and the patient's response to standardised treatment schemes varies from person to person because of differences in human genetic coding, interactions between one's genes and environment over a lifetime as well as the unique signature of the human immune system. Any optimisation of treatment strategies has to take these parameters into account when developing medicines more suitable for different patient groups. In particular, the variations of the human immune systems require specific attention because most of the promising investigational health products e.g. therapeutic proteins and innovative materials contain a potentially immunogenic potential. Already nowadays regulatory bodies are faced with a remaining risk for patients when products entering from the laboratory environment into clinical applications due to the difficulty to extrapolate immune responses from laboratory animals to humans. The inter-individual diversity of the human immune system makes the safety assessments of innovative health products even more challenging. Regulatory bodies are increasingly aware of the situation and released guidance in 2017 in which they recommended the use of methods/tools based on human cells or human derived material	JRC.F.2	SANTE	JRC JRC	SANTE	2019-07-01	2021-06-30	INS-ER INS-RS	3019766	1	Progress and final reports	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project. A mid-term technical report will be produced at the end of year 1	2021-06-30	Technical Reports	N
1. A European Green Deal	1.6 Environment	20062	ChemicalsStrategy	Chemicals Strategy for Sustainability	JRC.F.3	31442	POLLUX	Detection of hazardous environmental POLLUtants using eXosomes	The impact of environmental pollutants on human health is often difficult to assess in particular if the substances occur only in low concentrations, but have the potential to accumulate in tissues/cells overtime and are resistant to further degradation in the body. Standard animal toxicity testing regimes often fail to identify such negative effects since the detection of pollutant related pathologies requires a repeated dosing of laboratory animals with low concentrations over a long period of time. Toxicological in vitro tests might play a vital role in the future but this would require an enlargement of the portfolio of existing in vitro methodologies with test methods that are able to detect and characterise cellular effects of bioaccumulating substances..	JRC.F.2	ENV	(blank)	RTD	2021-07-01	2023-06-30	(blank)	3107593	1	The relevance of exosomes for predictive toxicology of chemicals	The report will evaluate to what extend exosomes can serve as biomarker for in vitro toxicity tests	2023-06-30	Technical Reports	N

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1. A European Green Deal	1.6 Environment	20155	Biodiversity & ES	Towards reverted biodiversity loss & healthy ecosystems	JRC.D.6	30368	GLOBES	Global Observatories for Biodiversity and Ecosystem Services	The JRC developped over the last years the Digital Observatory for Protected Areas (DOPA) which became a global reference information system supporting the EU biodiversity strategy to 2020 and the UN Convention on Biological Diversity (CBD). The system is designed to support EU and UN policy makers in providing them with key indicators about global biodiversity end ecosystems services and further help assess progress towards the global biodiversity strategy. The DOPA is also the sole provider of a number of key indicators for SDGs 14 and 15. The DOPA is built around a set of web services delivering data to its main customers (ENV, DEVCO, UNEP, UNDP, CBD) as well as to other web based tools developed inside and outside JRC. The project will further provide the scientific support requird by the CBD and the IPBES and the technical backbone of other projects at JRC (BIOPAMA project, African platform). As the EC's main component addressing biodiversity globally, the DOPA will serve as the global element of the Knowledge Centre for Biodiversity and a key analytical platform to generate a broad range of environmental indicators at global, country, ecoregion and even site level, in particular protected areas.	JRC.D.6	ENV	JRC	INTPA RTD SANTE	2021-01-01	2027-12-31	INS-RS	3011991	2	Updates of the Digital Observatory for Protected Areas	The reference information generated by the Digital Observatory for Protected Areas (DOPA) and its applications (DOPA Explorer, eConservation) needs to be regularly updated with new indicators and with data from international donors and from international institutions managing reference data such as the World Database on Protected Areas (WDPA), the IUCN Red List of Threatened Species, the Copernicus Global Land Services and the data produced from DOPA's modeling tools. This information needs to be further processed and distributed through web services supporting third parties (e.g. KC Bio, Africa Platform, BIOPAMA2, INCA, ENV, EEA, DEVCO, CBD).	2022-12-31	Sci information systems and databases	N
																	3011992	1	Support to the 15th Conference of the Parties of the UN Convention on Biological Diversity (CBD)	The 15th Conference of the Parties of the UN Convention on Biological Diversity will require from GLOBES to 1) update the country indicators of the Digital Observatory for Protected Areas (DOPA) for the CBD Secretariat; 2) contribute to the Protected Planet Report 2020 published by UNEP; 3) Support to the EU Delegation for and at the COP 15; 4) further develop connectivity indicators and pressure indicators on protected areas.	2021-04-30	Whole parts of policy documents	N
1. A European Green Deal	1.6 Environment	20155	Biodiversity & ES	Towards reverted biodiversity loss & healthy ecosystems	JRC.D.6	30369	KC Biodiversity	EC Knowledge Centre for Biodiversity and Ecosystem Services	The European Green Deal provides a roadmap with actions to boost the efficient use of resources by moving to a clean, circular economy, restore biodiversity and cut pollution. It outlines investments needed and financing tools available, and explains how to ensure a just and inclusive transition. The new EU Biodiversity Strategy to 2030 that is a pillar of the Green Deal includes an Action Plan where the Commission commits to enhance the knowledge base on biodiversity through a new Knowledge Centre for Biodiversity (KC Biodiversity) to be developed in close cooperation with DG RTD but also the European Environment Agency, the Biodiversity Partnership and global partners such as the UNEP WCMC and IUCN. The KC Bio will help track and assess progress of the strategy and foster cooperation to underpin further policy development for the EU and its partners. The Knowledge Centre for Biodiversity and Ecosystem Services (KC Biodiversity) is a European Commission initiative that will thus respond to these needs, by pulling together the knowledge and expertise needed to assess the status of biodiversity and ecosystem services in Europe as well as of the European impact on biodiversity outside its boundaries.	JRC.D.6	ENV	JRC	AGRI CLIMA EEAS ENER GROW INTPA MARE RTD SANTE SG TRADE	2021-01-01	2027-12-31	INS-RS	3011987	2	A Community of Practice (CoP) on biodiversity and ecosystem services	A Community of Practice (CoP) that brings together relevant specialists from across different Commission services, complemented with the involvement of external experts on an ad-hoc basis.	2021-12-31	Technical Reports	N
																	3011988	3	Synthesized knowledge on biodiversity and ecosystem services	Products that synthesise and communicate knowledge for policy such as briefs that provide a concise synthesis of the latest scientific evidence in response to specific policy-relevant questions; dynamic online interactive dashboards that structure and communicate information, and infographics that communicate quickly and clearly the key messages and figures	2021-12-31	Science for Policy Briefs	N
																	3011989	4	Biodiversity and policy interlinkages	A web element of the knowledge centre presenting the interlinkages between the various policy services of the EC and the thematic elements of the biodiversity strategy. The functionality will allow end-users to identify who is responsible for what within the EC to support overal communication and coordination on biodiversity policy issues.	2022-03-31	Sci information systems and databases	N
																	3011990	1	Web entry point to the EC's Biodiversity Knowledge Hub	Development of the web based interface of the KCBio providing a first entry point to the EC to access key information on biodiversity and ecosystems services hosted - withing EC services (JRC, RTD, ENV, DEVCO, ...) - at EEA via its Biodiversity Information System for Europe (BISE) - at UNEP and IUCN for global datasets	2021-06-30	Sci information systems and databases	N

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1. A European Green Deal	1.6 Environment	20155	Biodiversity & ES	Towards reverted biodiversity loss & healthy ecosystems	JRC.D.6	30370	ASPEN	Alien Species Monitoring to Protect European Nature	Alien Species (AS) are organisms unintentionally or deliberately introduced through human activities into regions beyond their natural range. There are more than 14,000 AS recorded in Europe, about 10% of these show an invasive behaviour, have or are expected to have a negative impact on biodiversity, ecosystems, human health and economy. Invasive Alien Species (IAS) are a main cause of biodiversity loss worldwide, a condition that severely affects Europe, where the damages cost over 12 billion euro every year. The project addresses needs of European policies on biodiversity, of which effective implementation is required to achieve the Green Deal targets. In specific, the project contributes to the prevention, control and management of IAS, with focus on supporting the implementation of the EU Regulation 1143/2014 (IAS Regulation). The European Alien Species Information Network (EASIN) is the central platform of the information support system foreseen under Art. 25 of the IAS Regulation, underpinning its overall implementation by providing scientific and spatial data, and systems for compulsory notifications and exchange of information. EASIN aggregates, validates, harmonizes and analyses scientific and spatial data from different sources and databases worldwide, making them available to the Commission services, Member States (MS), stakeholders and the scientific community through advanced web tools and services. This information is vital for underpinning activities and decision making, e.g. adoption of measures to prevent or rapidly react to newly introduced and establishing IAS. The ASPEN project	JRC.D.2	ENV	ENV ENV JRC JRC	AGRI CLIMA GROW INTPA MARE RTD SANTE TRADE	2021-01-01	2024-03-31	CON-AA CON-AA INS-PoC INS-RS	3002896	202301	Progress achieved in EASIN 6 - year 2	Report on work achievement during the project' year 2. The progress reported will also point to additional outputs (milestones) produced in the frame of the project or in complementarity with ASPEN (e.g. baseline distribution of IAS of Union concern, identification of trends in distribution of IAS of Union concern).	2023-03-31	Technical Reports	N
																	3002897	202401	Progress achieved in EASIN 6 - year 3	Report on work achievement during the project' year 3. The progress reported will also point to additional outputs (milestones) produced in the frame of the project in complementarity with ASPEN.	2024-03-31	Technical Reports	N
																	3002898	202201	Progress achieved in EASIN 6 - year 1	Report on work achievement during the project' year 1. The progress reported will also point to additional outputs (milestones) produced complimentary with institutionally funded developments in ASPEN (e.g. Identification of which alien species are expanding in European environments and become invasive).	2022-03-31	Technical Reports	N
																	3005272	202102	EASIN System documentation	Technical description of EASIN and its early warning and rapid response notification system (NOTSYS). The documentation of the system components and structure is intended to an audience of IT professionals. Already included in the current WP under ASPEN WPk Internal ID 969463	2021-03-31	Technical Reports	N
																	3005273	202101	EASIN5 final report (report year 3)	Report of the work accomplished during the third year of the EASIN 5 Administrative Arrangement, including a description of the progress made with the following tasks: 1) data and information added to the EASIN catalogue and geodatabase; 2) new data partnerships; 3) Editorial Board activity; 4) NOTSYS updates; 5) EASIN website updates, and 6) description of the citizen science activity. Already included in the current WP, ASPEN WPk Internal ID 969462	2021-03-31	Technical Reports	N
																	3005276	202103	Citizen science data supporting IAS policy in Europe	Final progress report of the Proof of concept project (2019/ 2020) "Citizen Science data supporting Invasive Alien Species (IAS) policy in Europe". The report will detail the progress made in all work packages. In specific the achievement made on citizen engagement and recommendation developed; documentation of an advanced IT system on a decentralized IAS Europe App setting, and development achieved with the data validation process.	2021-10-22	Technical Reports	N
																	3005280	202104	Alien Species invading European Environments	Scientific analysis based on data aggregated in the EASIN catalogue and geodatabase, in response to needs in the implementation of the IAS Regulation, in particular this could concern: i. Identification of which alien species are expanding and become invasive; ii. review pathways of introduction of new alien species in the European environment, and iii. overview of IAS that are widely spread in European environment and not on the Union list. The analysis content and the time frame will be agreed with DG ENV.	2021-12-15	Science for Policy reports	N
																	3005287	202202	Scientific basis for monitoring IAS spread in Europe	Scientific analysis based on data aggregated in the EASIN catalogue and geodatabase, in response to needs in the implementation of the IAS Regulation, in particular this concerns: i. development of baseline distributions of IAS of Union concern added to the Union list; ii. identification of trends in distribution of IAS of Union concern. The analysis content and the time frame will be agreed with DG ENV.	2022-12-15	Science for Policy reports	N

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1. A European Green Deal	1.6 Environment	20155	Biodiversity & ES	Towards reverted biodiversity loss & healthy ecosystems	JRC.D.6	30426	HealthyES	Healthy Ecosystems	The European Green Deal and the EU biodiversity strategy to 2030 present an ambitious agenda on biodiversity with increasing emphasis on ecosystem restoration. More and more, ecosystems are seen as solutions, not only to protect biodiversity but also to enhance carbon uptake and contribute to climate change mitigation a well as to deliver essential benefits to people, agriculture, and the economy. The UN declared the next decade as the decade of ecosystem restoration. A key objective of the 2030 biodiversity strategy is to set up an EU nature restoration plan. The Healthy Ecosystems project will deliver the knowledge and evidence base to support the implementation of this restoration agenda. It will build on the outcomes of the MAES initiative to provide actionable knowledge on biodiversity and ecosystems, to make a business case for biodiversity, and to enhance the capacity to monitor trends of biodiversity and ecosystems. It will deliver its science-policy support through the knowledge centre for biodiversity and ecosystem services. It will collaborate with the following portfolios: Restoring and protecting our forests (JRC.D.1), WEFE (JRC.D.2), Oceans, Coastal areas and the Blue Economy (JRC.D.2), Sustainable Soil management for the European Green Deal (JRC.D.3), The CAP in the Green Deal: assessing economic, environment and climate farm performance (JRC.D.5), in order to assess the condition of forests, freshwater, marine ecosystems, soil (biodiversity), and agroecosystems, respectively. HealthyES will support the portfolio Improving the environmental footprints of Europe (JRC.D.3) with research on biodiversity footprints.	JRC.D.3	ENV	ENV RTD JRC	ENV RTD ECFIN ESTAT SANTE	RTD	2021-01-01	2024-12-31	CON-AA CON-AA CON-IA CON-IA INS-RS	3005121	2	Ecosystem accounts	A final set of ecosystem accounts ready for applications and policy cases. The objective is to publish the ecosystem service accounts as a standard in One Ecosystem according to the guidance of the SEE EEA	2021-11-30	Journal contributions non-listed	N
																	3005122	3	Ecosystem accounts: Applications and policy support	Policy applications of ecosystem accounts including footprints, bridging with macroeconomic models, integration with sustainable finance, and support to ecosystem accounting standards (ESTAT, FAO and UNSD)	2022-11-30	Technical Reports	N
																	3005123	4	Scientific publications on biodiversity and ecosystems	This deliverable is a placeholder for scientific manuscripts and articles that are the result of the HealthyES project o r from collaborations with the EU research community on biodiversity, ecosystem condition, and ecosystem accounting.	2022-12-31	Journal contributions (Scopus)	N
																	3005124	1	Minimum criteria for ecosystem condition	Report on reference levels and definitions of ecosystem condition, with test cases based on the MAES data and in line with the recommendations of the SEEA EEA . This deliverable will include contributions from D1 on forest ecosytems, D2 on freshwater and marine ecosystems, D3 on soil and urban ecosystems, D5 on agroecosystems. It uses the EU wide ecosystem assessment report as a baseline.	2022-06-30	Technical Reports	N
																	3088009	5	BiodiverCities: progress report	Progress on the different tasks of the project: strand 1:Local engagement of citizens in urban nature and strand 2:Regional embedding and upscaling	2021-01-31	Technical Reports	N
																	3088010	6	BiodiverCities: Final report	Final report with the conclusions on how to engage citizens in urban green planning and how to integrate urban green infrastructure in regional green infrastructure	2022-02-28	Technical Reports	N
																	3088041	7	Europa BON: Terms of Reference for a Biodiversity Monitoring Coordination Centre in Europe and Strategic Research Agenda	Following the co-design an EU biodiversity observation network (WP4) and its demonstration (WP5), a full implementation will require a more permanent facility with its own governance structure, a well-defined mandate and a secure funding stream. This task will assess the feasibility and the opportunities to set up such a permanent Biodiversity Monitoring Coordination Centre (BMCC) in Europe.	2023-12-31	External study reports	N
																	3088088	8	SafeGuard: Model and pan-European maps of emerging plant-pollinator network structure and consequences for pollination services under global change	Model global change effects on a wide range of pollinator species and community assembly processes to assess future distributions, abundance and functional structure (UFZ; UMONS, ULUND, JRC). Our knowledge about large-scale risks of global change is currently limited to a subset of pollinators (butterflies and bumblebees), predominantly obtained from single-species climate-change modelling. We will expand this knowledge to a wide range of pollinator species (>5,700 from T1.1), a harmonised set of multiple pressures (T2.1) and a hierarchical species assemblage modelling framework considering trait and phylogenetic information (T1.4, T2.3). We will use pressures with harmonised historic data and future scenarios for climate and land-use change (based on Shared Socioeconomic Pathways [SSPs], Coupled Model Intercomparison Project [CMIP6], Representative Concentration Pathways [RCPs], Land Use Model Intercomparison Project [LUMIP] and Land-Use Harmonisation [LUH2]).	2024-10-31	External study reports	N

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1. A European Green Deal	1.6 Environment	20155	Biodiversity & ES	Towards reverted biodiversity loss & healthy ecosystems	JRC.D.6	30427	STING	Science and Technology for pollinating insects	STING offers scientific and technical support to the EU Pollinators Initiative. Pollination is one of the key processes in nature which enables the reproduction of plants and therefore contributes to the maintenance of species biodiversity. Despite several measures in place to conserve and protect pollinators, their numbers continue to decline, and the services they provide may already be decreasing significantly. Action is necessary to safeguard biodiversity, agriculture and food security. In June 2018 the Commission adopted a strategy on pollinators which sets strategic objectives and actions to be taken by the EU and its Member States to address the decline of pollinators in the EU and contribute to global conservation efforts. In particular the initiative calls for measures to improve knowledge regarding pollinator decline (including the state of their most important habitats and a project to monitor the presence of pesticides in the environment), tackle the causes of this decline (through conservation and management approaches), and raise awareness, engage citizens and promote collaboration (with guidance and incentives, educational material and community projects). The initiative also pays particular attention to integrating the protection of pollinators within the CAP. Agriculture is obviously the sector that benefits the most from pollinators. Therefore the Commission will develop guidance for managing authorities and farmers to increase the effectiveness of measures to enhance pollinators in the post 2020 CAP. Importantly the Commission will include a pollinator indicator in the performance and monitoring framework of the CAP once finalized and operational. The	JRC.D.3	ENV	ENV ENV	RTD	2019-04-01	2023-12-31	CON-AA CON-AA	3005091	1	Citizen engagement projects and tools	digital inventory of practices, projects with farmers, museums and schools, awareness campaign toolbox and blue print to engage citizens, policy recommendations	2021-12-31	Technical Reports	N
1. A European Green Deal	1.6 Environment	20155	Biodiversity & ES	Towards reverted biodiversity loss & healthy ecosystems	JRC.D.6	30900	INCA-MONIND	Support to Natural Capital Accounting and to Monitoring Indicators for EU Policies	The administrative arrangement sets up JRC science-based work addressing policy aspects which involve statistical activities: In the case of evaluating ecosystem accounts, the task is1. those are needed for developing an integrated system of natural capital and ecosystem services accounting (INCA) The Commission monitoring framework for the circular economy consists of 10 indicators, some with sub-indicators. Two of the indicators are solely available for 2016 and for the EU as an aggregate (not for individual Member States), namely: (1) EU self-sufficiency for raw materials, (2) End-of-life recycling input rates. JRC will support a further development of these monitoring indicators in order to extent the time coverage and the geographical disaggregation by member states. A second line of work will be dedicated to responding to EU policy increasing demand for data on primary and initially processed non-fuel non-agricultural raw materials. A third line of support will estimate food waste. A balancing system shall be developed, in which for each stage of the food chain (agriculture, industry, retail, restauration and households). The approach shall start with determining the amount of food being available for one country, and then estimating coefficients / indicators for the amount of food that is not consumed but ends up as waste, e.g. by the use of other statistics on consumption, by mass balances approaches or any other method. The fourth line of work refers to soil and water ecosystems indicators under the SDG framework. JRC shall develop sound and meaningful indicators on soil degradation and water stress and scarcity based on the current SDG indicators, or develop alternative	JRC.D.3	ESTAT	ESTAT ESTAT	ENV GROW	2021-01-01	2023-03-31	CON-AA CON-AA	3053411	202201	Further development of the INCA shared spatial data platform	Updated INCA information platform with accounts on soil retention, water purification, habitat services, air quality regulation, livestock, and microclimate regulation. Also condition and urban accounts will be added to the site.	2022-06-30	Sci information systems and databases	N
																	3053412	202102	Pilot for indicators for monitoring the circular economy	Decision support and evidence based policy making require a complete set of data in the raw materials policy field with regard to the different raw material categories, to the relevant stages of the value chains, and for all EU member states. Two of the monitoring indicators proposed under the Circular Economy Action Plan (COM(2015) 614), namely: (1) EU self-sufficiency for raw materials, (2) End-of-life recycling input rates were initially developed for and then derived from the raw materials scoreboard (3. Import reliance and 16. Recycling's contribution to meeting materials demand). They have to be updated and designed under a format of a yearly time series and covering as many member states as possible. The EU and the European Commission need more information on non-fuel minerals/raw materials than currently available, both in terms of detail of products covered and variables covered. Work will investigate the info needs and possible sourcing for additional 150 materials.	2021-03-31	Technical Reports	N
																	3053413	202101	Implementation of a fast-track version of the INCA shared spatial data platform	The INCA SSDP (shared spatial data platform) will be connected to the INCA landing page and will be based on two metadata catalogues: – a catalogue with INCA datasets (metadata which describe INCA input and output datasets) – a catalogue with INCA models and tools (a model library which describes the models and tools used to produce INCA outputs based on INCA input data) The development of the landing page will continue with accounts of ecosystem extent, ecosystem condition and ecosystem services as soon as they become available. A model library used for calculating the accounts will be created, including the software (QGIS plugins) and manuals of how to use the software.	2021-02-19	Sci information systems and databases	N
																	3101153	202202	Urban ecosystem accounts and account-ready data	A set of urban ecosystem services accounts at the level of functional urban areas for all EU and EFTA cities and aggregated per Member State. The system of functional urban areas consists of cities (predominantly artificial area and cropland) and its commuting zone is used as ecosystem accounting area. A technical specification for account ready earth observation data for EU ecosystem accounts data.	2022-11-30	Technical Reports	N

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1. A European Green Deal	1.6 Environment	20155	Biodiversity & ES	Towards reverted biodiversity loss & healthy ecosystems	JRC.D.6	31160	HELIOS	A healthy mind in a healthy ecosystem	The HELIOS project contributes to the Exploratory Research (ER) Programme. The main goal of the ER project HELIOS is to explore, in an interdisciplinary way, how the presence of nearby nature and green space as well as the quality of the living environment have an impact on our mental health and well-being, offering insights for planners and policymakers for the design and management of places in times of a health crisis and beyond it. Mental health problems are a widespread health challenge. Two of the most common mental health conditions, depression and anxiety, cost the global economy US$ 1 trillion each year. It goes without saying that the current coronavirus pandemic has induced a considerable degree of fear, worry and concern in the population at large and among certain groups in particular, such as older adults, health care providers and people with underlying health conditions. New measures including quarantine affect or disrupt people's routines or livelihoods.Mental health problems are due to a combination of genetic liability, socioeconomic position and related variables such as educational attainment, ethnicity, and relational conditions as well as external factors, including a person's lifestyle and environment. This research proposal focuses on the relation between environment and mental health. The environment can influence both negatively and positively our mental well-being. There is growing evidence that air pollution, climate change, or other environmental threats may increase the risk to develop and aggravate depression, anxiety or even suicide. On the other hand, exposure to natural vegetation or greenness, cleaner air and water, lowered	JRC.D.3	ENV	JRC JRC	RTD SANTE	2021-04-01	2023-03-31	INS-ER INS-RS	3072144	1	Scientific publications	Scientific journal publications with the impact of the COVID-19 crisis on environmental quality, mental health, and on the relations between these two based on the case studies	2022-12-31	Journal contributions (Scopus)	N
																	3072166	2	HELIOS Policy brief	A workshop report and policy brief summarizing the key outcomes of the project	2022-12-31	Science for Policy Briefs	N
1. A European Green Deal	1.6 Environment	20158	Healthy Soils	Sustainable Soil Management for the European Green Deal	JRC.D.3	30886	ENVSOL	Soils for healthy ecosystems and biodiversity	Soil provides us with a wide range of goods and ecosystem services that make our life on Earth possible. Yet at the same time,soils are affected by ongoing and diverse land degradation processes that impact the suppply and quality of terrestrial ecosystem services and the planet's biodiversity. These are exacerbated by both societal pressures driving increased competition for land, and climate change. Yet, soil is often downplayed in a policy context either from a lack of perspective of its value to society or of a sense that it's too complex to deal with. In this context, this Project addresess soil perspectives and their relationship with land use and management in two key elements of the European Green Deal, namely the Biodiversity and Zero Pollution Strategies, which in turn, contribute to the European Union's commitments to global environmental agreements (CBD, UNCCD, SDG). Both the Green Deal and the discussion on the two stategies make specific references of the need for reduced soil degradation. Specifically, the Project will support DG ENV by 1) delivering and contributing to assessments of soil and land degradation at EU and global levels, making use of opportunities offered by the ongoing implementation of existing legislation and strategies; 2) identify and support opportunities to introduce considerations for the sustainable management of soli into policy and; 3) quantify soil functions and the pressures that they are exposed to.	JRC.D.3	ENV	ENV RTD JRC	AGRI CLIMA ESTAT	2021-01-01	2026-12-31	CON-AA CON-IA CON-IA INS-RS	3025230	ES2	EU Soil Observatory	The EU Soil Observatory (ESO) will streamline soil monitoring and indicator development in the Commission (e.g. LUCAS SOIL) with the national activities of Member States (including the ICAS and European Joint Programme Initiative on Agricultural Soil Management) and ongoing activities of the EEA and UN agencies (e.g. FAO Global and European Soil Partnership) into a single coherent system for monitoring, reporting and verification purposes of policy relevant soil data and indicators. The eventual system will extend the operation of the European Soil Data Centre through the development and population of a soil dashboard indicating state and trends of a broad range of existing and new soil indicators reflecting diverse policy drivers and concerns (compaction, salinization, pollution). A concept and draft system will be presented in 2021, followed by a rolling evolution driven by policy priorities.	2022-12-31	Sci information systems and databases	N
																	3025324	ES1	Soil perspectives for the Biodiversity Strategy	The proposed Biodiversity Strategy under the European Green Deal recognizes soils as one of the most diverse and complex ecosystems in its own right and makes specific reference of the need for healthy soils to ensure vital ecosystem services and other terrestrial ecosystems. The Strategy also recognizes a diverse set of pressures that lead to land and soil degradation, which in turn, threaten biodiversity at all levels. This deliverable will report on the state of soils of Europe to support the implementation of the soil perspectives in the Strategy, such as updating the EU Soil Thematic Strategy and the roadmap towards Land Degradation Neutrality. The deliverable will be delivered with DG ENV, EEA and Member States through the EU Expert Group on Soil Protection, EIONET SOIL and EJP Soils. The deliverable will collaborate strongly with the proposed Knowledge Centre on Biodiversity and the AGSOL Project in the current Portfolio and feed to the 2025 ITPS State of Soil Resources Report	2021-12-31	Whole parts of policy documents	N
																	3047576	ES3	Roadmap for integrated soil monitoring framework for Europe	Building on initial developments under the LUCAS Soil Project, this deliverable will explore systematic links with Member States with the scope to develop a roadmap towards the eventual development and operation of an integrated soil monitoring framework for the EU. The roadmap will assess current situations and how to integrate LUCAS Soil with national activities, applying specific representativity criteria (increase density of points, national analytics, extended soil depth, cross-validate results). The deliverable will feed into the design of the EU Soil Observatory.	2021-12-31	Technical Reports	N

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																	3047577	ES4	Soil Member States factsheets	Member States are currently working on the preparation of the CAP Strategic Plans, which will have to identify the needs for protecting soil and restoring degraded soils (by erosion, compaction, salinization, desertification, etc.). The Commission (ENV) has requested support in the preparing of the soil component of country fiche based on information contained within ESDAC on the distribution and extent of soil threats across the EU.The fiches, once agreed among the relevant Commission services, will be published through the EU Soil Observatory. The deliverable will liaise closely with the AGSOL Project, the EEA/TC Land and Soils and other JRC Units.	2021-12-31	Whole parts of policy documents	N
																	3047578	ES5	Roadmap towards Land Degradation Neutrality	The European Court of Auditors (ECA) has noted that the risk of desertification in the EU was not being effectively and efficiently addressed by the Commission or Member States. While desertification and land degradation are growing threats, steps taken to combat desertification in the EU lack coherence. The ECA recommend the Commission to develop a better understanding of land degradation and desertification in the EU; to assess the need to enhance the EU legal framework for soil; and to step up actions towards delivering the commitment made by the EU and the Member States to achieve land degradation neutrality in the EU by 2030. This deliverable will assess soil degradation and desertification in the EU and contribute to needs of the Commission in light of the ECA recommendations. Close synergies will be sought with UNCCD initiatives, with particular emphasis on implementation of EU measures to ensure that SDG 15.3 targets are achieved for the EU.	2022-12-31	Whole parts of policy documents	N
																	3047579	ES6	Pollution	The European Green Deal is committed to a cross-cutting zero-pollution strategy that will protect citizens' health from environmental degradation and pollution. The Strategy makes specific reference to soil pollution due to hazardous chemicals, industrial emissions, pesticides and endocrine disruptors. Soil pollution is recognized as a major contributor to the loss of both aboveground and belowground biodiversity, with implications on the quality and supply of ecosystem services. This deliverable has two distinct components: a) the first ever major harmonised assessment of pesticide residues in EU soils and b) an assessment of progress in the remediation of contaminated sties. The deliverable will also contribute to the implementation of the Green Deal for the Western Balkans.	2021-12-31	Technical Reports	N
																	3049502	ES7	Soil biodiversity: genetic assessment of EU Soils	Data collected as part of the 2018 LUCAS Survey was analysed to assess its genetic characteristics. This has resulted in one of the largest assessments of its kind anywhere in the world. The results will provide a unique perspective on microbial aspects of soil biodiversity, responsible for regulating most terrestrial ecosystem services. DNA metabarcoding is being used to assess taxonomic composition. The outcomes will be used to develop an initial indicator of soil microbial diversity for the EU, which will be used to assess the impacts of land management practices on soil biodiversity. The outcomes will provide invaluable inputs in to the design of instruments to safeguard soil as a key ecosystem in its own right.	2021-12-31	Journal contributions (Scopus)	N
1. A European Green Deal	1.6 Environment	20158	Healthy Soils	Sustainable Soil Management for the European Green Deal	JRC.D.3	30890	AGSOL	Healthy soils for an environment and climate friendly food system	99% of our food is produced in soils. As such, humans have to preserve this natural resource. Population growth to almost 9.5 billion in 2050, the change of diet with more request for meat, and climate change will all create drive pressures on our agricultural systems to produce more and safer food in the near future. Productive and healthy soils are a cornerstone to face the above-mentioned challenges. Human induced land-use change and the agricultural management practices can be the main drivers for soil conservation and soil health. The strong environmental component in the post-2020 CAP includes soil protection as one of the nine objectives. This project will develop more knowledge on how to better preserve our soils in order to produce more and healthier food and respecting the environment. The policy developments for the post-2020 CAP include a number of impact soil related-indicators (e.g. soil erosion, soil organic carbon, biodiversity, etc.) which will monitor the performance of the policy in relation to the environment and climate. The project will support both DG AGRI in the evaluation of the existing CAP 2014-2020 and DG CLIMA in the implementation of the LULUCF Regulation by developing a range of soil-related impact indicators. Soil is also a massive carbon sink, storing three times as much as the atmosphere (particularly in peatlands). It is well understood that land use, management practices and degradation processes at a local level have a direct impact on soil organic carbon fluxes, thus reducing flexibility elsewhere for meeting carbon budget targets This Project will also evaluate and model SOC dynamics for current land cover/uses driven by policies	JRC.D.3	AGRI	JRC	CLIMA ENV	2021-01-01	2026-12-31	CON-IA CON-IA INS-RS	3032039	AG1	Development of new generation of models for soil erosion, sediment dynamics, phosphorus fluxes and carbon stocks (IACS, COPERNICUS	Development of new generation of models for soil erosion, sediment dynamics, phosphorus fluxes and carbon stocks (IACS, COPERNICUS	2022-12-31	Technical Reports	N
																	3035085	AG2	State of the World's Land and Water Resources	Soil erosion and carbon assessments in Chapter 3 for the State of the World's Land and Water Resources for Food and Agriculture, 2021 Edition - "SOLAW 21" (FAO) for Food and Agriculture, 2021 Edition - "SOLAW 21" (FAO). The chapter will include global data, metadata, process descriptions and some scenario analysis.	2021-12-31	Technical Reports	N

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																	3035086	AG3	Support to soil perspectives of the Common Agricultural Policy (CAP).	Evaluate the 2014-2020 CAP from the soil perspective and provide baseline data for the two impact indicators (soil erosion, soil organic carbon) related to soil for the post-2020 Common Agricultural Policy. The evaluation of the 2014-2020 CAP will take into account the impact of greening, maintenance of grasslands, etc and other policy measures in improving the status of soil health in terms of soil organic carbon and soil loss. In relation to the forthcoming post-2020 CAP, the project will develop the Impact Indicators I.13 (Soil Erosion) and I.11 (Soil organic carbon). Will include support to peatland management and mapping in post-2020 CAP. Outputs of the deliverable will support the implementation of the EU SOIL OBSERVATORY (Portfolio Deliverable).	2022-12-31	Technical Reports	N
																	3035087	AG4	Soil organic carbon dynamics in EU agricultural soils	Soil organic carbon is a key driver of several soil functions. Changing environmental conditions can affect SOC levels. This deliverable will analyse, measure and model soil data for the monitoring, reporting and verification of both SOC dynamics and stocks and factors controlling N2O emissions from soils, in relation to policy drivers such as the CAP, the 2030 Climate and Energy Strategy, and Resource Use Efficiency and for reporting agricultural GHG emissions under the UNFCCC, Kyoto Protocol and Paris Agreement and LULUCF Regulation. Close links to EJP Soil. Deliverable will utilize diverse data streams such as LUCAS, LUISA, Member States data and biogeochemical models.	2022-12-31	Technical Reports	N
																	3044888	AG1b	Development of new generation of models for soil erosion and carbon stocks using latest state of the art (IACS, LUCAS, COPERNICUS)	Development of new generation dynamic models for soil erosion, and soil nutrients using the latest state of the art in data inputs (IACS,LUCAS, COPERNICUS Land Cover). The models should be more process-based compared to the existing RUSLE and CENTURY (source: MIDAS). The objective of these new models is to incorporate the crop distribution dynamics and the management practices associated with policies (e.g. CAP) in relation to improvement of soil health. Those new model developments will allow developing high quality Impact Indicators for policy support in terms of accuracy, timeless and evaluation.	2022-12-31	Journal contributions (Scopus)	N
																	3045149	LS1	Report on the LANDSUPPORT Decision Support Systems performance at EU, country, regional and local scales	Test the LANDSUPPORT tool in terms of (i) its ability to achieve EU policies when applied at EU scale (including 7th Environmental Action Plan; COM 2006/231, Dir 2000/60/EC; Dir 2007/2/EC) and (ii) 2030 SDG's land policies of both EU and UN agenda (SDG 2,3,13,15), with special emphasis to the key SDG15.3, "achieving a land degradation-neutral world" (LDN) and climate change (CC) mitigation goals.	2021-06-30	Technical Reports	N
																	3045216	SC1	Soilcare database	Support in building the Soilcare H2020 project database so that it fulfills the requirements for transfer to the ESDAC. At the end of the project support in transferring data and making them publicly available via ESDAC.	2021-08-28	Technical systems	N
1. A European Green Deal	1.6 Environment	20158	Healthy Soils	Sustainable Soil Management for the European Green Deal	JRC.D.3	30894	LUCAS Soil	Soil condition from LUCAS Survey	The statistical office of the European Union (Eurostat) undertakes a regular survey to monitor the situation of land use, land cover and changes over time across the EU. This survey is known as Land Use and Coverage Area frame Survey (LUCAS). The scope of the survey was extended in 2009 to include a topsoil component (i.e. the uppermost 20 cm of soil) to create a harmonised and comparable dataset of physical, chemical and biological properties of topsoil across the EU to monitor the impact of land related policies on soil condition and to support new policy development. The soil component is carried out on approximately 30 000 locations. The 2018 Survey extended the scope of soil sampling by assessing soil DNA and residues of plant protection products. These analyses require specific methods of soil sampling, preparation and storage of samples. Furthermore, there is considerable interest in the use of LUCAS soil data to assess human and environmental health issues such as pesticide residue, potential cancer drivers, radioactivity and ecosystem disruptors. In parallel, LUCAS SOIL data are used as the primary inputs to a series of models and indicators to assess ecosystems services and land targets within the Sustainable Development Goals and agri-environmental indicators. As a final consideration, the LUCAS soil component now has three time steps (2009, 2015 and 2018) which allows the EU, to assess trends in soil condition, in a systematic manner, in relation to land use and land cover change.	JRC.D.3	ESTAT	ESTAT ESTAT ESTAT JRC	AGRI CLIMA ENV SANTE	2021-01-01	2025-12-31	CON-AA CON-AA DEL INS-RS	3025619	LS2	LUCAS Soil Laboratory analysis	This deliverable will ensure the implementation of one of the critical elements of the LUCAS Programme, namely the provision of laboratory analyses on the soil samples collected during the survey. This will entail market assessments of the diverse services required leading to the development and publication of the technical and administrative documents for a public procurement exercise (as framework contracts).. Three lots are foreseen, addressing core analysis (e.g. organic carbon, nutrients, salinity), genetics (DNA, RNA) and pollutants (e.g. metals, pesticides, PFAS, plastics, etc.) execution of the underpinning laboratory analysis on samples collected during the 2022 survey. Specific attention will be placed to ensure the timely and rapid delivery of data given the increased scope of the survey. The deliverable will report on the development and execution of the process to acquire the services in question.	2022-10-31	Technical Reports	N
																	3025620	LS3	2018 LUCAS Soil Final Database: validation and summary report	This module contains two elements based on the outputs from the laboratory analysis of the 2018 survey. The results will be checked and verified in house for compliance with contractual requirements, consistency and comparability with previous surveys. On internal acceptance, an overview report that describes the state of soil in Europe on the basis of the outcomes of the 2018 Soil Module will be developed and published to accompany the formal release of the dataset on ESDAC.	2022-06-30	Sci information systems and databases	N

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																	3025621	LS1	LUCAS 2022 Soil module coordination	This deliverable will provide the necessary scientific and technical inputs in relation to the planning and coordination of the Soil component of the 2022 survey. This will include statistical evaluation, in conjunction with Commission Services, Member States (e.g. Austria, France and Germany) and European Joint Programming Initiative on Agricultural Soil Management (EJP-SOIL), for the scaling up of the sampling framework to 40,000 sites. The deliverable will also asses possible mechanisms to increase the sampling depth to 30 cm (in line with climate reporting obligations) and closer alignment with ICP Forest Sampling Protocols for woodlands. Methodologies for soil genetic testing and LUCAS Soil Pollution Module will be defined. JRC will establish the necessary logistical framework to allow the survey to function, A user guide will be produced for surveyors, including training of field team coordinators.	2021-03-31	Technical Reports	N
																	3046628	LS4	Changes in EU soil condition: 2009 - 2018	This deliverable will assess the changes in soil condition over the period 2009 - 2018 across the EU terms of key parameters such as organic carbon content and nutrient status, in light of land management practices (both land use and land use change) that are driven by various EU policy instruments. The deliverable will be developed with collaborating DGs (ESTAT, AGRI, ENV and CLIMA) to ensure policy relevance to the outcomes.	2022-12-31	Science for Policy reports	N
1. A European Green Deal	1.6 Environment	20158	Healthy Soils	Sustainable Soil Management for the European Green Deal	JRC.D.3	30927	IACS2SOIL	IACS Data Sharing Soil Pilot	IACS data sharing process, as established by DG AGRI in collaboration with other EC services and the Member States, must be further fine-tuned and widely implemented by the Member States. It has also to evolve according to the new CAP2020, the EU Data Strategy and to answer the concrete use-cases, primarily: •Contribute to the assessment of the soil health and the Zero Pollution Strategy, •LULUCF and related climate assessments •Soil elements within the Biodiversity and the Farm to Fork Strategies. The project is being developed in the context of the CAP 2020, addressing particularly the following elements: •Art 65 of Commission proposal for CAP horizontal regulation – data sharing and keeping, •Climatic and environmental ambition in the CAP, •New delivery model – need to quantify and report, •Under cross-cutting objective, which focuses (among other) on digitalization: data is crucial, •IACS data use rather limited against the huge potential uses The data sharing in this context must be performed under the INSPIRE Directive. Within this framework, DG AGRI set-up a process, with other EC services, aiming at an efficient access to IACS data and an effective reuse of data for a number of identified use-cases. The current INSPIRE infrastructure should evolve taking into account the specificities of the IACS	JRC.D.3	AGRI	AGRI	CLIMA ENV	2021-01-01	2023-03-31	CON-AA	3032560	IACS1	Soil Use Cases	Technical Guidance, including recommendations for web-based services allowing for interactions between agri-data-space and EU Soil Observatory for EU-wide policy dashboards.	2021-12-31	Technical Reports	N
																	3042706	IACS2	Soil Use Cases	Technical Guidance for the soil health use case. This use-case will identify which IACS data are of relevance for investigations and modelling of the soil health related issues such as soil erosion, soil carbon storage or presence of pesticides/antibiotics. This will allow to identify and investigate further potential correlations between agricultural practices and soil health. Technical Guidance on the selected CAP indicators based on the selected IACS data. Technical Guidance on the LULUCF accounting based on the selected IACS data. Recommendations for web-based services allowing for interactions between agri-data-space and EU Soil Observatory for EU-wide policy dashboards.	2022-12-31	Technical Reports	N
1. A European Green Deal	1.6 Environment	20158	Healthy Soils	Sustainable Soil Management for the European Green Deal	JRC.D.3	31540	SOLACE	Understanding the links between SOiL pollution and CancEr	The SOLACE project contributes to the Exploratory Research (ER) Programme. The main goal of the ER project SOLACE is to develop a methodology that moves from measures of concentrations of carcinogenic substances in soil towards the identification of hazards and risk analysis that may help explain eventual potential pathways that cause cancers (i.e. soil-plant-food, erosion by wind and water, etc.). The Project brings together a set of established competences and activities in the JRC in relation to health, soil and food security. These include the: - EU Soil Observatory (EUSO) - Knowledge Centre on Cancer European Cancer Information System (ECIS) - Information Platform for Chemical Monitoring (IPCHEM) - Digital Rural Landscape Laboratory (DRLL)	JRC.D.3	SANTE	JRC JRC	AGRI ENV	2021-07-01	2023-06-30	INS-ER INS-RS	3106473	PATSOLAC	Final Report Soil pollution and cancer	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project. The report will present regional assessments of links between carcinogenic heavy metals and tumour occurrence for the EU based on improved pan-EU datasets soil pollution, increased harmonisation of national cancer datasets, and state of the art crop type mapping. A mid-term technical report will be produced at the end of year 1.	2023-06-30	Technical Reports	N
																	3106476	PATSOLAC	Anthropogenic sources of carcinogenic metals in agricultural soils of the EU	Peer review publication of the assessment of carcinogenic metals in agricultural soils based on analysis of LUCAS soil samples collected from the 2009 and 2018 survey. High policy-relevance to implementation of the Zero Pollution Action Plan and Clean Soil Outlook.	2022-12-31	Journal contributions (Clarivate)	N
																	3106479	PATSOLAC	Development of a composite indicator to assess the cancer risks from selected heavy metals in soils	Peer review publication of the development of a composite indicator to assess the cancer risks from selected heavy metals in soils at sub-regional level. High policy-relevance to implementation of the EU Cancer Plan.	2022-12-31	Journal contributions (Clarivate)	N

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																	3106500	PATSOLAC	Soil-crop-food pathways for carcinogenic soil compounds.	Peer review publication on meta-analysis of soil-crop/food pathways for carcinogenic soil compounds	2022-12-31	Journal contributions (Clarivate)	N
1. A European Green Deal	1.6 Environment	20160	World Forests	Restoring and protecting the world's forests	JRC.D.1	30411	EUForAdapt	Monitoring EU forests status and threats for effective adaptation	European forests provide a set of key ecosystem services that contribute to climate mitigation and human well-being. Nowadays forests are increasingly exposed to climate and other risks because the long life-span of trees limits the possibility of a rapid adaptation to abrupt environmental changes. In addition, increasing demand on forests for economic and ecological services may generate trade-offs: intensification of forest management stimulates the wood-based markets, but could impact negatively the provision of essential ecosystem services, such as carbon sequestration and biodiversity conservation. These trade-offs need to be understood over a range of time scales, as short-term benefits might come at long-term costs. Assessing them is therefore particularly urgent at times when quick economic recovery from the impact of the COVID-19 pandemic is needed, while economic growth needs to be decoupled from the use of natural resources (as foreseen by the Green Deal). In order to cope with these growing pressures on ecosystems, in the context of a sustainable bioeconomy, a timely and accurate monitoring of ecosystem services is essential to design effective forest policies and secure the capacity to meet the increasing societal demands. To this scope, and following the recent Communication to step up EU action to protect and restore the World's forests, the JRC was asked to set up an "EU Observatory on deforestation, forest degradation, changes in the world's forest cover, and associated drivers". The Observatory aims to provide the EC, and a range of stakeholders, with up-to-date analyses of changes in forest cover and emerging threats to forests at EU and	JRC.D.1	ENV	ENV GROW INTPA JRC	AGRI CLIMA	2021-01-01	2027-12-31	CON-AA CON-AA CON-AA CON-IA INS-RS	3003420	D2	Contributions to the MAES activities reporting	The study of forest ecosystem services is a component of the Mapping and Assessing Ecosystem Services (MAES) initiative and supports meet the objectives on the EU Observatory on Deforestation and Forest Degradation as well as those of the Bioeconomy Strategy, a.o. through the action point on the Forest Information System for Europe	2021-12-31	Technical Reports	N
																	3003421	D1	Initial analysis of forest status and climate driven threats for EU forests.	Synthesis of scientific reports and datasets on the status, structure and properties of EU forests and on the biotic and abiotic risks triggered by climate change that may impact the provision of ecosystem services in the framework of the EU Observatory on Deforestation and Forest Degradation.	2021-12-31	Journal contributions (Clarivate)	N
																	3007237	D3	Further analysis of the status and ongoing trends of EU forest resources and the provision of ecosystem services under climate change.	Synthesis of scientific reports on EU forests and related forest services under the pressure of climate change and increasing societal demands. Assessment on emerging hazards and vulnerability of EU forest within the framework of the EU Observatory on Deforestation and Forest Degradation.	2022-12-31	Technical Reports	N
																	3007317	D4	Contributions to the MAES activities reporting	The study of forest ecosystem services is a component of the Mapping and Assessing Ecosystem Services (MAES) initiative and supports meet the objectives on the EU Observatory on Deforestation and Forest Degradation as well as those of the Bioeconomy Strategy, a.o. through the action point on the Forest Information System for Europe	2022-12-31	Technical Reports	N
1. A European Green Deal	1.6 Environment	20160	World Forests	Restoring and protecting the world's forests	JRC.D.1	30413	Obs-3D	EU Observatory on Deforestation, forest Degradation, and associated Drivers	Following the recent Communication to step up EU action to protect and restore the World's forests, the JRC was asked to set up an "EU Observatory on deforestation, forest degradation, changes in the world's forest cover, and associated drivers". The Observatory aims to provide the EC, and a range of stakeholders, with up-to-date analyses of changes in forest cover, trade and emerging threats to forests at a global level, to better understand links between deforestation, forest degradation and trade	JRC.D.1	ENV	CLIMA ENV GROW INTPA JRC	CLIMA INTPA	2021-01-01	2023-12-31	CON-AA CON-AA CON-AA CON-AA INS-RS	3006221	202102	Start of implementation of trade monitoring	The project will monitor trade flows of timber and other bio-based commodities imported to the EU that impact forests in exporting countries, congruent with the observatory requirements.	2021-12-31	Sci information systems and databases	N
																	3006222	202103	Second annual report of Lot2 ("TroFoMo") of the ForMonPol AA with DG CLIMA.	The Second annual report of Lot2 ("TroFoMo") of ForMonPol AA will include the description of (i) the final version of the TroFoMo website with automated reporting tools, (ii) the updated pan-tropical map of moist undisturbed forests at 30 m resolution and (ii) Initial version of the TroFoMo map of remaining moist undisturbed forests at 10m resolution	2021-12-31	Technical Reports	N
																	3006223	202101	Initial deployment of a digital Web platform for the EU Observatory	The deployment of a digital Web information platform is aimed at the analysis and dissemination of data and results for the Observatory. This digital Web platform will include the knowledge base on the state of EU forest resources (from EUForAdapt project) and the knowledge base on the state of global forest resources (deforestation and forest degradation monitoring from Earth Observation data) and on trade flows with the EU. It will also be linked to the Knowledge Centre on Bioeconomy	2021-12-31	Sci information systems and databases	N
																	3006231	202201	Further deployment of a digital Web platform for the EU Observatory	The global scale deforestation and forest degradation monitoring platform will be further deployed, in particular the platform will be continuously maintained, updated and upgraded with latest fine scale Earth Observation data. A linkage will be made with the Land Service of the Copernicus programme for establishing the core component of the operational monitoring of tropical forest areas	2022-12-31	Sci information systems and databases	N
																	3006232	202202	Further implementation of trade monitoring	The project will continue to monitor trade flows of timber and other bio-based commodities that impact global forests, congruent with the observatory requirements.	2022-12-31	Sci information systems and databases	N

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1. A European Green Deal	1.6 Environment	20160	World Forests	Restoring and protecting the world's forests	JRC.D.1	30688	REDDCopernicus	Capacity for Copernicus REDD+ and Forest Monitoring Services	Efforts to monitor and map changes of forest areas using Earth Observation (EO) technologies to support decision making in reversing deforestation/degradation has been increasing in the past decade. This has especially gained momentum due to key developments for example in the United Nations Convention on Climate Change (UNFCCC) policy process related to countries reducing emissions from deforestation and degradation (REDD) which requires an assessment of national historical and projected deforestation/degradation rates and statistics. The advent of the European Copernicus Programme's Sentinel data with their high spatial resolution and revisit time at global, regional and national levels provides an unprecedented volume of data for improved forest monitoring which should be exploited by the European science and EO industry communities.	JRC.D.1	DEFIS	(blank)	CLIMA ENV INTPA	2021-01-01	2022-02-28	CON-IA	3006617	202201	Final report of REDDCopernicus	The key deliverable will consist in the final report of the REDDCopernicus project	2022-02-28	Technical Reports	N
1. A European Green Deal	1.6 Environment	20160	World Forests	Restoring and protecting the world's forests	JRC.D.1	31240	DRYForM	Dry Forest Monitoring	The DryForM (Dry Forest Monitoring) project contributes to the Exploratory Research (ER) Programme. The main goal of the ER project DryForM is to support a major lack of technical expertise in monitoring tropical dry forests from Earth Observation data. Following the recent Communication to step up EU action to protect and restore the World's forests, the JRC was asked to set up an "EU Observatory on deforestation, forest degradation, changes in the world's forest cover, and associated drivers". While the JRC has adequate methods to monitor humid forests, the dry forests, which cover around 40% of the tropical and sub-tropical forests, are not well mapped. This initiative is not covered by our institutional work and requires a concerted research effort to resolve the problem.	JRC.D.1	ENV	JRC	CLIMA DEFIS INTPA	2021-04-01	2023-03-31	INS-ER	3076711	Deliverable1	Final report	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project. A mid-term technical report will be produced at the end of year 1.	2023-03-31	Technical Reports	N
1. A European Green Deal	1.6 Environment	20160	World Forests	Restoring and protecting the world's forests	JRC.D.1	31520	ForBioRes	Assessing forest biodiversity and resilience from space	The ForBioRes project contributes to the Exploratory Research (ER) Programme and deals with the combined assessment of biodiversity and resilience with satellite observations. Forests provide a range of ecosystem functions and services, which are key for the maintenance of environmental sustainability and the wellbeing of human societies. It is now well acknowledged that the preservation of biodiversity can foster ecosystem functioning in forests. However, accelerating rates of environmental change are threatening forest biodiversity, with potentially far-reaching effects, such as a reduced resilience, i.e. the capacity to recover from external perturbations. Promoting resilient forest ecosystems requires a thorough understanding of how forest structure and composition modulate the responses to nature and human-driven disturbances. However, global data on forest biodiversity are largely incomplete. While a detailed dataset on global forest biodiversity is currently lacking, the technological and numerical tools now exist to produce such data. To this end, the project will develop and implement a new analytical framework for quantifying and mapping forest biodiversity using the state-of-the art remote sensing technologies. The dataset produced will used to investigate the link between forest biodiversity and several resilience metrics. The output of the project will not only be instrumental for developing a tool for global biodiversity monitoring, but will also contribute to design of management strategies that can optimize the adaptation of forest ecosystems to future climate conditions.	JRC.D.1	AGRI	JRC JRC	CLIMA ENV	2021-03-01	2023-12-31	INS-ER INS-RS	3106501	ERPAT1	Final report	The report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project.	2023-12-31	Technical Reports	N
1. A European Green Deal	1.6 Environment	20162	CleanWater	Clean water for a healthy planet	JRC.D.2	30541	ONEWATER	One Water for All	Within the context of the 2030 Agenda for Sustainable Development and its dedicated goal on water "Ensure availability and sustainable management of water and sanitation for all" (SDG6), environment ministers from around the world have shared priority concern of the growing global water quality challenge. In this setting, the necessary capacity development for less-favoured populations to safeguard sustainable access to adequate quantities of and acceptable quality water for sustaining livelihoods, human well-being, and socio-economic development, for ensuring protection against water-borne pollution and water-related disasters, and for preserving ecosystems in a climate of peace and political stability must be at the heart of European policies, in particular with regard to the EU Neighbouring Countries, the Mediterranean as whole, Africa and beyond. Reflections of this water quality challenge and its technical, societal, diplomatic, and economic dimensions and opportunities can also be found in the European Green Deal. The World Bank though identified them also as an invisible crisis that is eliminating one-third of potential economic growth in heavily polluted areas while threatening human and environmental well-being. Thus, 673 million people still practise open defecation worldwide and at least 2 billion people use a drinking water source contaminated with feces. Inadequate sanitation is estimated to cause 432,000 diarrhoeal deaths every year and is a major factor in diseases. Children under the age of five living in countries affected by protracted conflict are, on average, nearly 20 times more likely to die from	JRC.D.2	ENV	ENV SANTE JRC	EEAS INTPA NEAR RTD	2021-01-01	2022-12-31	CON-AA DEL INS-RS	3003881	012021	Regional Capacity Development Centre for Water Diplomacy	COVID-19 has shown Europe's limited capacity to react and understand the wider implications of water-driven or -related conflicts at local, regional and transboundary scale in a world where access to clean water is essential for basic protection against effects of a pandemic. Novel concepts trying to understand the root-causes and socio-economic dynamics, e.g. with regard to employment, migration and inequalities as well as innovative diplomacy approaches to overcome these are needed. Capacities in less favoured areas have to be developed urgently. The need for a combined knowledge pool regarding water quality, sanitary needs and hygienic constraints as well as information on the actual state of water is paramount. In collaboration with the UN Global Environment Monitoring System for Water, Regional Capacity Development Centre will be developed as a departure point for a Roadmap of a Knowledge Centre for Water Diplomacy related to the Horizon Europe Cluster Water4All	2021-10-31	Training	N

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																	3084693	022021	Water Reuse and Recovery in the New Circular Economy Action Plan	While the support to the Water Reuse Regulation aims on the implementation in the EU, the use of wastewater, treated or less in other applications such as industrial reuse, landscape irrigation, (managed) aquifer recharge and urban reuses require a sound knowledge base, in particular with regard to the issues of emerging concern, e.g. veterinary medicinal applications, human pharmaceuticals, micro-plastics, pathogens and the respective risk management framework which do not stop at the borders of the EU. Likewise, the issue of irrigational water quality has emerged as topic in the context of the Water Reuse Regulation, and with possible cross-links to the agricultural production in the entire Mediterranean and beyond. To this end, targeted and onsite-approaches will be developed and tested to enhance the respective knowledge base as well as to support the Water Framework Directive but also the priorities set-up out by the Water Declaration of the Union for the Mediterranean.	2021-12-31	Technical Reports	N
																	3084696	032021	The Mediterranean Water Challenge	With the successful creation of the Gateway for the Mediterranean aiming at improving security of water, energy and food, a community of practitioners has been established. In order to continue with the successful work, evaluated case studies, best-practices and assessments require the development of a credible roll out of how the acquired knowledge can be systematically deployed to the region in different circumstances. Through the organization of a cross-sectoral exchange of knowledge on the development, use and demonstration of Nexus methodologies with a special focus on water quality, a conference on best-practices will be organized to stimulate in the Mediterranean region. This activity links the invisible threat of water quality – as defined by the World Bank – to the methodologies and approaches discussed in the WEFE Nexus Project.	2021-12-31	Training	N
																	3084700	012022	Social Engagement Platform for the UN World Water Quality Alliance	JRC is Member of the World Water Quality Alliance (UN WWQA). In this context, JRC D.02's Water Laboratory provides support to specific use case studies conducted in Europe, the Mediterranean and Africa. More specifically, JRC develops with UNEP and key partners a novel approach in water quality assessments known as the "Magic triangle", combining approaches of earth observation, modelling and in-situ observations including citizen sciences. Information and knowledge will be developed through a social engagement platform using the JRC Concept for Applied Water Diplomacy "RENAISSANCE". The activity, which will have multiple sub-deliverables and encompasses inter alia the development and deployment of a Mixed Reality Tool combining features of augmented and virtual reality regarding water quality. The platform will contribute to a vision statement on necessary knowledge pool ion water diplomacy with regard to water quality, supply and sanitation in a Post-COVID19 world.	2022-12-31	Technical systems	N
																	3084705	022022	Water Reuse Extreme	Building on the Guidance documents developed for the Implementation of the Water Reuse regulation, attention has to be focused on the systematic implementation of the related reclaiming technology with a special emphasis on the Mediterranean are needed. At the same moment access to clean water and sanitation is denied to over 2 billion people on this planet, a situation which in particular during the COVID-19 crisis has led to a significant loss of lives and suffering. While a great deal of knowledge has been brought together on technical solutions and improvisation who dirty water can be reused, e.g. under conditions of extreme poverty, little scientific investigations have been conducted to address and enhance basic water purification measures. Further guidance and case studies will therefore be collected and assessed jointly with practitioners from developing agencies and donor organisations to better document innovative approaches to reclaim water even under extreme as well as to improve the available science basis.	2022-12-31	Technical Reports	N
																	3084716	042021	Sentinels4Sewers - Guidance to Operators	This work aims also in developing a different perception of sewers and sewage treatment as integral organs of human settlements thus underpinning the zero-pollution objective set out by the European Recovery Plan and the European Green Deal. The Guidance to Operators aims at developing and proposing the deployment of a systemic Sentinel Mechanisms which based on the information encoded in the pollution load reaching wastewater treatment, facing the challenging task of its removal AND reclamation of water, resources and energy. The JRC - with input from the selected experts – will develop and present a practical guidance to operators of wastewater treatment plants and sewer system illustrating standard operation procedures for sewer sentinels. The drafting of the report will involve representative from health authorities and the WHO as well as representatives of the European Water Sector.	2021-05-31	Technical Reports	N
																	3084730	052021	An EU Sewer Sentinel System for SARS-CoV-2	Untreated wastewater has emerged as a good indicator of the presence of SARS-CoV-2 and its variants in a population. The ability to detect the SARS-CoV-2 in wastewater has been recommended by the EC as a possible way to better quantify and understand its approximate overall presence in the population. Based on the emerging knowledge, JRC is developing a EU Sewage Sentinel System including a Digital Collaboration Platform which will receive and visualise the respective surveillance data from the MS. The activity includes target surveillance exercises on emerging variants of concern, the development of digital visualisation system as well as an interdisciplinary engagement process.	2022-07-31	Technical systems	N

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1. A European Green Deal	1.6 Environment	20162	CleanWater	Clean water for a healthy planet	JRC.D.2	30954	Water4EU	Clean Water for the EU	The European Water Acquis lays down water protection objectives fully reflected in the European Green Deal initiative, particularly relevant to the Zero Pollution Action Plan and the Chemicals Strategy, the Farm-to-fork strategy, Circular Economy Action Plan and the Biodiversity Strategy. The recent fitness check of the Water Framework Directive (WFD) and related legislation concluded that these policies are fit for purpose and have provided a governance framework for integrated water management in the EU, but their objectives were not fully achieved also due to gaps in the effective design and implementation of river basin management plans. The REFIT evaluation of the Urban Wastewater Treatment Directive (UWWTD) has acknowledged the important role of this piece of EU legislation in protecting our waters, and has identified areas where policy could be strengthened, including in chemical pollution, urban runoff management, and resource efficiency. Nutrients and pesticides, although the subject of specific Directives, still represent a threat to water ecosystems in many EU regions, and a significant issue to address more effectively also in the context of the Common Agricultural Policy. Pollutants of emerging concern, including pharmaceuticals and microplastics, and pathogens represent an additional challenge, prompting for effective and adaptive policy responses.	JRC.D.2	ENV	ENV ENV ENV ENV JRC	AGRI SANTE	2021-01-01	2022-12-31	CON-AA CON-AA CON-AA CON-AA INS-RS	3030131	022021	Nutrient targets	This activity aims at developing nutrient targets in surface European surface waters and lakes and evaluate alternative management strategies to reach these nutrient targets. This activity aims at providing support to the WFD, CAP and Nitrates Directives. This activity is carried out with external experts that will develop these targets and spatialize them based on hydro-geomorphologic information. We will used these targets in combination of a water quality model to derive potential agricultural management strategies to reduce the gap between actual concentration and the nutrient targets. In addition, targets for other physico-chemical elements (organic loads, salinity, and acidification status) will be developed for broad types of lakes and rivers. These targets will feed in to the development of indicators for UN SDG 6.3.2. Ambient water quality.	2021-12-31	Technical Reports	N
																	3030132	032021	Support to the Water Framework Directive: Ecological Status and Potential	DescriptionIn the context of the Water Framework Directive Common Implementation Strategy working group ECOSTAT JRC D.2 coordinates the harmonisation of assessment methods for ecological status and potential using biological, physicochemical and hydromorphological indicators. The deliverable summarises the achievements of the current 2019-2021 mandate, including the intercomparison of ecological potential, intercalibration of methods to assess ecological status, guidance on sediment management, harmonised criteria for nutrient targets, common understanding on hydromorphological methods, and environmental flows. It will outline priorities for the upcoming 2022-2025 mandate in the light of the outcomes of the WFD Fitness Check and the priorities identified the Biodiversity Strategy, and the Zero Pollution Strategy.	2021-12-31	Technical Reports	N
																	3030133	012021	Support to the UWWTD: Cost-effectiveness assessment of policy options related to urban wastewater management	The evaluation of the UWWTD has helped shed light on areas where the wastewater treatment sector could contribute to the “zero pollution” agenda, to the achievement of carbon neutrality in the EU, and to a more circular economy. We will develop a series of coordinated studies aimed at assessing costs and effectiveness of different policy options on urban runoff and combined sewer overflows; chemical pollution; energy use and production in wastewater treatment; more stringent requirements on nutrients, small agglomerations, individual appropriate treatment systems and industrial discharges to the sewer network. The studies will be co-designed and developed in close collaboration with DG ENV.C.2 and will directly feed possible urban wastewater policy developments. Specific attention will be devoted to algae, having a potential to absorb a significant share of the excess nutrient loads coming from human activities in Europe with positive broader implications in the EU's bioeconomy.	2021-12-31	Science for Policy reports	N
																	3030178	012022	Support to the Water Framework Directive: Priorities 2022-24	JRC D.2 provides crucial long-term scientific and technical support to the implementation of the Water Framework Directive in the context of the Common Implementation Strategy working groups. Based on consultations with Member States and stakeholder organisations, this deliverable outlines priorities for the upcoming 2022-2024 mandate specifying how JRC will contribute to the different CIS groups in the light of the outcomes of the WFD Fitness Check and the priorities identified in the Biodiversity Strategy, and the Zero Pollution Strategy as well as the aftermath of the COVID-19 crisis.	2022-03-01	Technical Reports	N
																	3030179	022022	Support to the Nitrates Directive	The Nitrates Directive aims at reducing water pollution caused or induced by nitrates from agricultural sources and preventing further such pollution through a number of steps 9ncluding water monitoring, designation of vulnerable areas, establishment of action programme and submission every four years of a progress report to the Commission. In this context we will evaluate the progress reports sent by the Member states and check the compliance with the requirement of the Directive. In particular we will evaluate the actual status and trend of surface and groundwater with respect to nitrate concentration and eutrophication (surface waters). We will further develop and update the Nitrates viewer used by DG ENV to visualize all data reported to the Commission and well as the assessments of compliance checking.	2022-06-30	Technical Reports	N
																	3030180	032022	Assessment of scenarios to achieve EU pesticide targets	A drastic pesticide risk reduction is a key component of the “farm-to-fork” strategy and biodiversity strategy. This should be achieved through existing instruments (such as the National Action Plans under the Directive on Sustainable use of Pesticides) as well as new instruments (such as the plans to be hatched under the new Common Agricultural Policy). Building on a JRC model of pesticide use, fate and transport in soil and water, we will analyse costs (in terms of threats to agricultural production) and effectiveness (in terms of pesticide risk) of scenarios towards the achievement of pesticide targets.	2022-12-31	Science for Policy reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3030346	042022	Learning how to address poor implementation of the Water Acquis	The poor implementation of the EU Water Acquis witnessed in various regions and Member States owes for a large part to cultural, social, political, organizational and behavioral aspects rather than to technical capability and financial limitations. We will set up a EU-wide network of about 5 regional cases (to be chosen on a voluntary basis) where difficulties have emerged in the implementation of the Water Acquis, and we will analyse the reasons for (1) inadequate definition of the objectives; (2) inadequate planning of measures; (3) inadequate implementation of the planned measures. We will then examine possible innovative solutions mobilizing communities, alliances among stakeholders, and cross-sectorial collaboration (particularly with the tourism and recreation, agriculture and energy sectors). The work is supposed to be a close collaboration with local water managers and their constituencies. Models and optimization tools will be used with local data insofar as relevant. The work	2022-07-31	Science for Policy reports	N
																	3030347	052022	Support to the Water Framework Directive: Water Reuse	In the context of the Water Framework Directive Common Implementation Strategy ATG Group Water Reuse JRC D.2 provides the technical input necessary to develop guidance of how address risk management for various applications such as managed aquifer re-charge, urban applications, industrial reuse and others. JRC.D.2. liaises in this context also with European Innovation Partnership, Water Europe and Stakeholder Organisations dealing with water reuse. Based on the respective consultations, this deliverable outlines priorities for the upcoming 2022-2025 mandate and coordinated the work conducted by the JRC on water reuse also in the light of the outcomes of the WFD Fitness Check, the New Circular Economy Action Plan and the priorities identified European Green Deal. The activitiy relates also to the WEFE Nexus Project	2022-07-31	Technical Reports	N
																	3107644	042021	SustHydro Exploratory Research Activity: review paper on the retrofitting of existing hydropower plants to cope with ecological constraints	The review paper will address guidelines for the retrofitting of existing run-of-river and storage hydropower plants (HPs). The guidelines will include best practices, innovative concepts, case studies and new technologies. The aim is to increase the efficiency and the energy output of HPs while minimizing environmental impacts, to improve the ecological performance by mitigating impacts on fish and on ecosystems, to extend the HP life and to increase flexibility by integration with other energy sources (e.g. solar/PV and batteries). This output will be of particular interest considering that about 50% of all hydropower plants worldwide was commissioned over 40 years ago. On top, the Water Framework Directive imposes limitations in the construction of new barriers, i.e. it is reasonable to assume that the need for refurbishments will continue to increase (EUR 29927 EN). This work supports Green Deal aims, with focus on renewable energy, biodiversity preservation, sustainable industry.	2021-06-30	Journal contributions (Clarivate)	N
1. A European Green Deal	1.6 Environment	20164	GEOINT4ECA	Geospatial Intelligence for Environmental Compliance Assurance	JRC.D.1	30762	B-REEL	Brokering GEOINT Related to Existing Environmental Legislation	The EC has committed itself to building up the capacity and use of geospatial intelligence for environmental compliance assurance (COM(2018) 10 final). As part of the EC with comptences in a broad spectrum of geospatial sciences, the JRC has a unique role to help meet this commitemnt. It can namely generate evidence within the Commission using rigorous and cutting-edge methods combining its scientific expertise (in geospatial sciences, Earth Observation including Copernicus, environmental sciences, and big data analytics) with expertise in European environmental policy and reporting. Particularly in times of emergencies, actors and platforms that can quickly, and meaningfully, gather geospatial data, and create intelligence from it, are critical. The current COVID-19 pandemic illustrates their importance for assessing and managing risk, for organizing the response, and for tailoring communicating around it to different stakeholders. As the climate emergency, and all its knock-on effects on our environment, unfolds, geospatial intelligence will be more needed than ever to reach the objectives of the Green Deal with the involvement of the public and of all stakeholders.	JRC.D.1	ENV	ENV ENV JRC	CNECT DEFIS	2021-01-01	2027-01-31	CON-AA CON-AA INS-RS	3008055	D2021	GEOINT broker report	Report on the user and system requirements of a GEOINT broker service that leverages a broad range of geospatial data and knowledge from a variety of sources.	2021-12-31	Science for Policy reports	N
																	3008057	D2022	Synthesis of GEOINT support provided to ECA	Synthesis of GEOINT provided to selected requests for support to environmental compliance assurance along with foresight studies on the integration of new scientific and technological developments in the geosciences into environmental compliance assurances in the protected areas, water, and soil domains.	2022-12-31	Science for Policy reports	N

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1. A European Green Deal	1.6 Environment	20168	SDGs4EU	Mainstreaming SDGs into EU policies	JRC.D.1	30884	Know4SDGs	Methods and indicators to boost SDGs in EU policies	The UN's 2030 Agenda for Sustainable Development signed in 2015 sets out a framework for sustainable development , including a set of 17 Sustainable Development Goals (SDGs) and 169 targets to be achieved by 2030. The EU is committed to implement this agenda, as indicated in the 2016 "Communication on Next steps for a sustainable European future". In the Political Guidelines for the period 2019-2024, President Von der Leyen's attributes a central role to SDGs, makes sustainable development the keystone of national and EU policies and refocuses the EU Semester into an instrument that integrates the 17 SDGs. Further, the sustainable and fair transition towards a climate-neutral economy includes several policy initiatives, with the European Green Deal setting out the initial priority actions, in line also with the UN Sustainable Development Goals (SDGs). The dimensions of sustainable development, as spelled out in the SDGs framework, are numerous and diverse; a systematic and transparent reflection and evaluation of impacts of each policy proposal on the SDGs and their targets, at different spatial and temporal scales, is necessary to support the continuous mainstreaming of SDGs into European policies and to assess their contribution to SDG implementation. Implementing SDGs is difficult to solve and full of complexities and interdependencies, and requires multidisciplinary approaches. Such transversal and holistic approaches are also necessary and can contribute to mitigate many of the root causes of the Covid-19 pandemic and help to prevent future global health emergencies, which have a strong impact on sustainable development and	JRC.D.1	SG	INTPA JRC	EAC ENV ESTAT GROW INTPA JUST RTD	2021-01-01	2027-12-31	CON-AA INS-RS	3032420	02	Solutions, enablers and bottlenecks to SDGs	Assessment of potential solutions, transformation pathways and enabling methodologies for SDGs achievement, as well as barrier to their implementation. This work entails cooperation with several units across JRC e.g. on smart specialisation, urban strategies, sustainable finance etc.	2022-06-30	Science for Policy reports	N
																	3032421	03	Enhance communication and engagement on SDGs	Development of suitable web-based tools to engage with the public on issues related to sustainability development in line with the European Green Deal and the emerging strategies for its implementation. The aim is to raise awareness about SDG framework among the citizens, and engage them by proposing actions to adapt their lifestyle to achieve the SDGs, considering the environmental, and to certain extent social and economic impacts of their choices in everyday life.	2021-12-20	Technical systems	N
																	3032422	04	EU Semester and SDGs	Contribute to the alignment of the EU Semester with SDGs, through: i) development of suitable environmental indicators and assessment of related externalities; ii) analysis of the Annual Sustainable Growth Strategy and the Country Reports with respect to SDGs, including assessment of how COVID-19 and related recovery plan have an influence on SDGs achievement in Member States	2021-12-20	Technical Reports	N
																	3032423	05	Environmental and social life cycle assessment to evaluate the Sustainable Development Goals.	Description: Guidance document focusing on the linkage between the Life Cycle Assessment (LCA) and Social LCA (S-LCA) methods and the Sustainable Development Goals (SDGs). LCA and S-LCA evaluates the environmental and social impacts of products and services, respectively, by considering the entire life cycle and supply chains. Each method addresses particular impact indicators and this report will evaluate how the different indicators can cover the goals and targets of the SDGs framework. A case study on EU consumption (Consumer footprint) will be developed.	2022-12-20	Technical Reports	N
																	3032424	06	Addressing the environmental dimension of SDG11: city-scale footprints in the EU.	Description: Guidance document focusing on the implementation of the Life Cycle Assessment (LCA)-based Consumer Footprint indicator at the city scale. The Consumer Footprint assesses the environmental impacts of the consumption of citizens at EU and at Member states scale. The report will provide methodological details for the calculation of consumer footprint at city scale and some testing on case studies.	2022-12-20	Technical Reports	N
																	3032425	07	Risk, Vulnerability and Resilience in relation to SDGs	Analysis of risks, vulnerability and resilience of environmental and socio-economic systems and impact on sustainable development and SDG implementation in the context of disruptive structural changes resulting from major events such as pandemic crisis of COVID-19 or climate-related event.. Impact assessment of SDG implementation of resilience and vulnerability on different levels (individual level, community level, regional and national level.	2022-09-30	Science for Policy reports	N
																	3032426	08	Transversal Initiative and CoP	Coordination of SDGs activities across the JRC through the management of the SDGs Transversal initiative and its Connected Space, development and maintenance of the KNOWnSDGs on-line platform and implementation of SDGs Community of Practice to increase the knowledge base on SDGs and to further mainstream the Agenda 2030 into JRC activities	2022-12-31	Technical Reports	N
																	3032427	01	Tools to mainstream SDGs in EU policies and monitor their achievement	Development of methods, indicators and tools to support a systematic assessment of EU policies and analyse impacts with qualitative and quantitative assessments in different steps of the policy cycle. Different tools will be developed, with different scope and targets: i) identification of the links between a policy and SDGs, mapping of key interactions across SDGs, and between SDGs and targets; ii) improve and facilitate the use of models to support the policy cycle and evaluate the impact of policy options on one or multiple SDGs targets, providing guidance tool to define the appropriate models and methods suited for specific policy questions iii) contribution to the definition of monitoring and evaluation indicators necessary to capture progress towards SDGs using different approaches (e.g. environmental, economic, territorial and supply chain (LCA) modelling, Earth Observation etc.)	2021-12-31	Technical Reports	N

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																	3099611	09	Electronic tools for SDGs and interlinkages	Creation of an electronic tool, customised for the development cooperation community, to link EU interventions (programmes and projects) to the SDGs (goals and targets) and to EU political priorities, and to assess possible interlinkages. A web-based version of the tool will be made available through JRC KnowSDGs platform. Following this initial web version, a stand-alone application (which doesn't require internet connection) will be also developed and made available to intervention managers in EU delegations	2021-12-31	Sci information systems and databases	N
1. A European Green Deal	1.6 Environment	20170	ENVFOOT	Improving Europe's environmental footprint	JRC.D.3	30780	LCA4policy	Life cycle assessment for policy support	The transition towards sustainable economy and achieving the SDGs require integrated assessment methodologies for ensuring reduction of environmental burdens associated to innovation and solutions, adopting systemic thinking. Life Cycle Thinking (LCT) and Assessment (LCA) help avoiding the shifting of burdens from one stage to another (e.g. from mining to end of life), from one environmental issue to another (e.g. from climate change to the use of more toxic substances), or from inside the EU to third countries. LCT and LCA are also mentioned in better regulation, as tool to promote system thinking. This project will support the development and use of life cycle based methods for policy support by developing methods, indicators and monitoring approaches and will mainstream environmental and sustainability issues into a broader range of policy areas addressing the objectives of the EU Green Deal , such as: the new Circular Economy Action Plan, the Bioeconomy strategy, the Zero Pollution Strategy, Chemical Strategy, the Biodiversity Strategy and Farm to Fork Strategy. LCA4Policy focuses on the assessment of sustainability solutions at various levels: micro scale (e.g. products and services), meso scale (e.g. industrial sectors like plastics) or macro scale (e.g. EU wide policy options focus on specific systems e.g. food systems), and assessing not only the current status but also evaluating future scenarios with foresight approaches. The project comprises a number of AAs with different DGs: ENV - AA Consumption Footprint links micro level LCA and life cycle-based indicators with macro level EU policy goals related to	JRC.D.3	ENV	ENV ESTAT ESTAT ESTAT SANTE	ESTAT INTPA RTD SANTE SG	2021-01-01	2023-12-31	CON-AA CON-AA CON-AA CON-AA CON-AA INS-RS	3010097	1Consumpt	Key results of the consumer and consumption footprint (Del 6)	Final calculation and time-related update of the consumer and consumption footprints. Illustration of the use of the indicators in the context of e.g. SDG, monitoring of circular economy, resource efficiency policies, biodiversity and planetary boundaries assessment. The science for policy report is coupled with a 4-pages final management report.	2021-04-12	Science for Policy reports	N
																	3010221	1Consumpt	Calculation of consumption footprint indicators (Del 2)	Calculation and time-related update of the consumption footprint indicators at country scale.	2021-01-12	Technical Reports	N
																	3010222	1Consumpt	Calculation and testing of consumer footprint indicators (Del 3)	Calculation of consumer footprint indicators, including: development of a PEF-based basket of products, testing of different normalisation references, calculation of planetary boundaries, assessment of environmental impacts on biodiversity and on marine litter, interpretation of results in light of the new toxicity related impact categories.	2021-01-12	Technical Reports	N
																	3010223	1Consumpt	Governance of the indicators (Del 4)	Technical report on the options and outlook regarding the future governance of the Consumption and Consumer footprint indicators.	2021-03-12	Technical Reports	N
																	3010224	1Consumpt	Dissemination of results (Del 5)	Technical report summarising the activities done in the project towards a wider dissemination of the consumer and consumption footprint results.	2021-03-12	Technical Reports	N
																	3017969	2021LAFO2	Final report of land footprinting model (Del 1.3)	Final report on the activities undertaken including future work: further improvements, potential simplifcations, leassons learned, complemented with: an improved and updated model, checked and where needed updated land use coefficients, and updated model documentation.	2021-12-31	Technical Reports	N
																	3017970	2021LAFO1	Proof of concept model for land footprinting (Del 1.2)	Proof-of-concept model for land footprinting, which consists of: a technical report with the required data inputs including land use coefficients and the model documentation, and a dataset with land footprints, estimated with the model for one year.	2021-05-31	Technical Reports	N
																	3026146	1INST22	Assessment of consumption patterns evolutions with LCA: the food system example	Environmental policies over time have identified the consumption stage as affecting the overall environmental footprint of products. Assessing the evolution of consumption patterns is of upmost importance to assess the impacts and to define proper policies and intervention. The food system is taken as example, since environmental and human health implications are intertwined and consumers behaviour is influencing the choice of products and their end of life (e.g. food waste). A combination of approaches is needed , namely agricultural modelling (food production), material flow analysis (food production and consumption estimate), nutritional and behavioural study (food quality and quantity and nutritional aspects), foresight exercise (to identify future patterns and trends).The objective is to depict the evolution of food consumption in Europe, the environmental impacts associated to that and to identify future trends and appropriate indicators to measure them over time	2022-12-31	Technical Reports	N
																	3044741	Food2021	Environmental impacts of the EU food system with focus on food waste.	Based on the quantification of food flows and food waste already developed by JRC, an assessment of the environmental impacts of the EU food system identifying hotspots to support the implementation of measures to improve the efficiency of the food system will be developed.	2021-12-20	Journal contributions (Scopus)	N
																	3044742	odwaste202	Scoping study on food losses in primary production (Del 1)	A study will be developed to quantify food losses at the primary production.	2022-12-20	Technical Reports	N
																	3044743	odwaste202	Evaluation of existing food waste prevention actions across the EU (Del 2)	An exercise focused on the collection and evaluation of existing food waste prevention actions will be developed. This exercise will be a follow up of the first screening exercise carried out in the previous AA with DG Sante.	2022-12-20	Technical Reports	N
																	3044744	Scale2021	Sector specific recommendations on a self-monitoring approach for food businesses (Del 1)	Development of a unified approach for accelerating self-monitoring and self-reporting of food loss and waste on business level and related side flows and their associated impacts (social, environmental, and economic impacts)	2021-12-20	Technical Reports	N

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																	3044745	Scale2022	Assessment of food waste prevention innovations (Del 2)	Report describing the framework for assessing innovations in food waste prevention, including the methods for their assessment and experiences. For early stage innovations, a prospective approach will be taken to envisage performance when upscaled considering technological and socio-economic developments.	2022-12-20	Technical Reports	N
																	3044746	Inst12021	Training on Life Cycle Thinking and Life Cycle Assessment in policy-making	Training focusing on the use of Life Cycle Thinking and Life Cycle Assessment in policy-making. The training will illustrate the Product Environmental Footprint/Organisation Environmental Footprint as an LCA-based method developed by the European Commission to harmonize the implementation of LCA in the EU and promoting the creation of a Single Green Market. The training material will be updated considering the last updates of the PEF/OEF process, as well as feedback and expressed needs from participants in the last sessions.	2021-12-20	Training	N
																	3044747	Inst12022	Training on Life Cycle Thinking and Life Cycle Assessment in policy-making	Training focusing on the use of Life Cycle Thinking and Life Cycle Assessment in policy-making. The training will display state-of-the-art implementation of LCT and LCA in the context of policy-making and the potential uses that officers from the European Commission can implement. The training material will be updated considering the last methodological updates, as well as feedback and expressed needs from participants in the last sessions.	2022-12-20	Training	N
																	3044748	Inst22021	Feasibility of Consumption and Consumer Footprint on the use of the monitoring of the CEAP and the bioeconomy.	Guidance on the use of the Life Cycle Assessment (LCA)-based Consumer Footprint indicator for monitoring the Circular Economy Action Plan (CEAP). The guidance will detail the methodological aspects and implementation of the indicator for the purpose of monitoring CEAP and of the Bioeconomy. The work will focus on the modelling aspects of production and consumption and the implications on monitoring indicators, including the 16 categories of environmental impacts that could be assessed with environmental footprint (climate change, land use, toxicity related impact etc).	2021-12-20	Science for Policy reports	N
																	3044749	Inst22022	Life Cycle Thinking for improving the sustainability of the construction sector from a macro-scale perspective	This technical report will evaluate how Life Cycle Thinking approaches can be employed for improving the sustainability of the EU construction section from a macro-scale perspective. By employing the Consumer Footprint indicator focused on the area of consumption of housing, the report will detail and measure the environmental impact benefits resulting from the implementation of sustainability strategies in the construction sector. This work considers strategic collaborations within JRC (Unit JRC.E4).	2022-12-20	Journal contributions (Scopus)	N
																	3044750	Inst32022	Estimation of the EU Chemical Footprint	In the context of the Zero Pollution Strategy, there is a need to quantify the current emissions of contaminants and resulting environmental impacts in the EU. The estimation of the EU chemical footprint entails a life cycle perspective, considering all the resources use and emissions to environment taking place along the supply-chain of products. The assessment will consider a production perspective (Domestic Footprint) and a consumption perspective (Consumer Footprint).	2022-12-20	Technical Reports	N
																	3044751	Inst42022	Life Cycle Assessment for foresight and scenario analysis	For the establishment of policies and strategies, setting long-term objectives and targets, assessing the implications and comparing potential options are essential. Towards having such a holistic picture, there is a need to combine a life cycle perspective considering the entire life cycle of goods and services, from the extraction of resources to the end of life management, and the assessment of future-oriented scenarios. In this context, this report will illustrate the potential use of LCA for foresight approaches and scenario analysis in the context of policy-making.	2022-12-20	Technical Reports	N
																	3044752	Food2022	Assessing environmental impacts of emerging technologies for food waste valorisation	Specific modelling challenges faced in performing life cycle assessment of emerging technologies for food waste valorisation will be addressed.	2022-12-20	Journal contributions (Scopus)	N

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1. A European Green Deal	1.6 Environment	20170	ENVFOOT	Improving Europe's environmental footprint	JRC.D.3	30781	EnvFootPrint	Environmental footprint of products and organisations	This project focus on further development of Product and Organisation Environmental Footprint (PEF/OEF), the approaches to systematically and transparently reporting impacts of supply chain, adopting more than 16 different environmental impact categories. It consists of AAs with DG ENV and an institutional part that allows for strong synergies with the circular economy and helps implement OEF/PEF to EU policies, especially for support to green claims and the sustainable product policy initiative, the possible revision of the construction product regulation, Battery Directive, EU Ecolabel, Ecodesign Directive etc. The AA "Technical support for the Environmental Footprint and the Life Cycle Data Network (EF4)" has - in line with Recommendation 2013/179/EU - the overall objective to further improve the PEF and the OEF methods by updating environmental modelling and environmental data related to Life Cycle Impact Assessment (LCIA) methods and to further develop the European Platform on Life Cycle Assessment (EPLCA). This project ensures continued support to DG ENV for the Environmental Footprint including method development for environmental assessments, e.g. related to the use of natural resources, and related data activities with a focus on the Life Cycle Data Network (LCDN) and the Global LCA Data Access Network (GLAD). The institutional part provides also the basis for the AA with DG ENV and creates significant synergies with it, e.g. exploring innovative OEF/PEF applications. The AA is mainly dealing with environmental Life Cycle Impact Assessment (LCIA) related method development and environmental life cycle data activities in the frame of	JRC.D.3	ENV	ENV GROW JRC	CLIMA DEFIS ENER ESTAT GROW INTPA JUST RTD	2021-01-01	2023-12-31	CON-AA CON-AA INS-RS	3021453	2021EF42	Guidance document on how to use LCA in the implementation of the Better Regulation Package (Del 5)	This report is a guidance document, which are based on the EF method to support the implementation of the LCA aspects for policy support, based on what is reported in the Better Regulation Toolbox, which is listing LCA as an approach to support the impact assessment of policies (tool n°64). This will bring the more micro-level based EF assessments more into the policy options comparison context, which often needs to assess also macro-level and scenario building aspects. The guidance will include a checklist to assess whether a policy proposal may benefit from adopting LCA for assessing the environmental effects in different policy options. It will include a review of existing policies and asses potential deviations or alignment, learnings, or benefits for EF. This work stream will focus mainly on the areas waste, agriculture, and ETS.	2021-07-31	Science for Policy reports	N
																	3021454	2021EF43	Report on suggested changes to EF impact assessment categories and characterisation factors (Del 2)	The report will evaluate and update the methods and related data used for characterisation and normalisation in the Environmental Footprint, focusing on improving the inclusion of aspects of greenhouse gas emissions and removals from land use, land use change and forestry – LULUCF, introducing characterisation factors (CFs) for emissions from aviation (including GHG emissions), providing changed/updated/added characterisation and normalisation factors for the EF, and following the recommendations of the UNEP Life Cycle Initiative on LCIA.	2021-09-30	Technical Reports	N
																	3021455	2021EF44	Report on monetisation in the Environmental Footprint (Del 6)	The report includes the development of an EF based method for the monetisation of environmental impacts, with the aim of bringing together aspects related to all three pillars of sustainability, i.e. environmental, social and economical aspects, when identifying the best overall options. This guidance document will include suggestions on how to conduct a monetisation (i.e. accounting of externalities associated to environmental impacts) of the environmental impacts considered in the EF, e.g. by reviewing current approaches to monetisation and their level of coverage of existing midpoint impact categories in the EF; by assessing studies addressing monetisation of specific environmental impacts and conducting assessment of externalities within and beyond LCA (for example by looking into the work developed in the area of natural capital accounting). The report will also include testing of the guidance.	2021-11-30	Technical Reports	N
																	3021456	2021EF5	Guidance on EF compliant data (Del 4)	This is the final report of the Data Working Group (DWG) of the Environmental Footprint Technical Advisory Board (EF TAB), which will include clear format specifications, evaluation and checking tools to enable the utilisation of an extended data format that allows the exchange of disaggregated models.	2021-11-30	Technical Reports	N
																	3021457	2022EF51	Update of the Environmental Footprint (Del 1)	This report includes an update of the impact assessment methods of the Environmental Footprint with the state of the art of life cycle impact assessment models. This report results is an output of a supposed AA to be signed for further work on the Environmental Footprint.	2022-12-20	Technical Reports	N
																	3021458	2021EF41	Report on the potential inclusion of PROSCALE as additional environmental information in the EF context (Del 3)	This report includes the evaluation of the toxicity assessment method PROSCALE for potential inclusion as additional environmental information in the EF. The assessment will review and evaluate the PROSCALE method in light of becoming a source of potential additional environmental information for toxicity aspects related to the formulation and use of products, including testing and evaluating potential conflicting messages that could occur in comparison with a full life cycle impact assessment performed by means of the USEtox model.	2021-03-31	Technical Reports	N
																	3025906	INST1	Coherence of environmental footprint assessment of environmental emission and impacts	Since 2010, significant efforts have been made by JRC to support the selection of appropriate models for emission and impact estimate along supply chains, leading to the selection of 16 models and impact indicators of the Product and Organisation Environmental Footprint (EC Recc 2013/196 and its updates). However, these models have been often developed specifically for supply chain assessment. Several initiative of the green deal now mention impacts at product levels to be considered (e.g. the sustainable product policy initiative, the farm2fork, the zero pollution, etc) and it is upmost to ensure coherence between supply chain and territorial oriented modelling of the same emissions. The report will explore the coherence and the possible improvement of supply chain emissions and impact modelling with specific reference to agricultural systems (emissions of nutrients and greenhouse gases, water consumption and availability, land use estimate) and industrial system (e.g.emission of GHG)	2022-01-31	Technical Reports	N
																	3030053	CAtools202	European Platform on Life Cycle Assessment	The deliverable covers the maintenance of the European Platform on Life Cycle Assessment (LCA) and the LCA tools developed by the JRC and already available for public use. It will also cover the development of new tools not specifically foreseen under AAs with policy DGs.	2021-12-20	Sci information systems and databases	N

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																	3030054	CAtools202	European Platform on Life Cycle Assessment	The deliverable covers the maintenance of the European Platform on Life Cycle Assessment (LCA) and the LCA tools developed by the JRC and already available for public use. It will also cover the development of new tools not specifically foreseen under AAs with policy DGs.	2022-12-20	Sci information systems and databases	N
																	3040831	INST2	PEF to support the Construction Products regulations	In April 2020, options for the review of the Construction Products Regulation (CPR) has been proposed by DG GROW, aiming at the operationalisation of environmental aspects by introducing a harmonised method for assessing and communicating construction products' environmental performance. The option mention that the harmonised method would be based on an existing Life Cycle Assessment method, such as the Commission's Product Environmental Footprint or EN 15804, and provide for the development of harmonised Product Category Rules and the use of common datasets in order to ensure fairness and comparability. JRC D.3 and E.4 will cooperate in the analysis of the key aspects to facilitate the use of PEF in this context, from inventory data, to modelling aspects, to communication of results, to coherence with other methods and indicators used to evaluate building products, including exploratory researches on new materials and processes in the construction sector.	2022-12-31	Technical Reports	N
1. A European Green Deal	1.6 Environment	20170	ENVFOOT	Improving Europe's environmental footprint	JRC.D.3	30867	PlasticFootprint	Environmental impact of plastics	The Plastic Strategy (COM(2018) 28 Final) outlines some of the main benefits plastics bring to society, but also list challenges to tackle about how plastics are produced, consumed and discarded. It addresses: alternatives to fossil feedstock, more sustainable production ways, more sustainable design of plastic products, and also more sustainable consumption and use patterns of plastics. A key concern is to keep plastics within a circular economy as long as possible and to avoid their littering at their end of life. A number of different policies focused on specific aspects of the life cycle of a plastic, from the industrial and innovation related policies which foster material advancement, to the New Circular economy (COM(2020)98 final) which aims a circular use of plastic, to the bioeconomy in which the development of alternative bio-based materials is advocated, to the Marine Strategy Framework Directive (2008/56/EC) which provides means for protection of the seas against marine litter, to the Zero Pollution ambitions, which include reduction of littering in all compartments (water, soil etc). This WPK includes an AA with DG GROW on the Life Cycle Assessment of plastics, and institutional activities on plastic footprinting and marine litter adopting LCA. In the LCA part of this project, we aim to (a) develop a strategy to assess potential impacts of littering and microplastics in LCA, addressing physical and chemical impacts, (b) identify a model to calculate the share of produced plastic products which is littered, allowing for product specific quantifications as a basis for product related environmental impact assessments, (c) conduct a feasibility study to determine if a new impact category	JRC.D.3	GROW	ENV GROW GROW JRC	ENV RTD	2021-01-01	2022-12-31	CON-AA CON-AA CON-AA INS-RS	3017980	D62022	Environmental impacts and benefits of chemical recycling	Report on the life-cycle environmental impacts and benefits of chemical recycling in comparison with mechanical recycling and energy recovery.	2022-06-22	Technical Reports	N
																	3021056	D72022	Plastic material flow accounting	In support to the Circular Plastic Alliance, the JRC will develop a plastic material flow assessment of the EU system.	2022-08-31	Technical Reports	N
																	3021341	20221	Life cycle impact assessment recommendations for marine impacts due to plastic littering	Literature review of the state-of-the-art on the inclusion of plastic marine littering generation and potential environmental impacts in life cycle assessment (LCA), at both the inventory and impact assessment (fate, exposure, effect) levels. The review will consider both macroplastics and microplastics emissions from unintended and intended sources. Most recent advancements on fragmentation, biodegradability, and potential additive release to the marine environment will be considered.	2022-12-20	Technical Reports	N
																	3021342	20211	Environmental assessment of fossil-based and bio-based feedstock alternatives for plastic articles production based on the Production Environmental Footprint	Scientific article on the main findings of the AA Plastics LCA (Jypsy 34854) on selected case studies (e.g. beverage bottles, food packaging film and printer housing panels). The paper will highlight, as far as possible, how the results obtained can support specific aspects of the European Plastics Strategy and the European Bio-Economy Strategy.	2021-12-20	Journal contributions (Scopus)	N
																	3021343	20222	EU Plastic footprint and potential plastic emissions to the marine environment	Estimate of the environmental footprint and of the potential contribution of plastic emissions to the marine environment of the EU Plastic consumption (by polymer type, economic sector, and product category) with most updated available data. The modelling of the plastic footprint will be based on the framework defined in the AA Consumption Footprint (Jypsy 34994), while the estimate of the potential plastic emissions to the marine environment will be based on the AA Plastics LCA (Jypsy 34854) considering a life cycle perspective.	2021-12-20	Technical Reports	N
1. A European Green Deal	1.6 Environment	20170	ENVFOOT	Improving Europe's environmental footprint	JRC.D.3	30904	PlanetBIO	Prospective LCA for Novel and Emerging Technologies for BIO-based products	The PLANET BIO project contributes to the Exploratory Research (ER) Programme. The main goal of the ER project PLANET BIO is to develop an innovative robust framework – based on life cycle assessment- for the environmental assessment of emerging technologies for biobased products, as essential decision support for policy makers and investors. By comprehensively assessing new technologies and their potential upscale, considering alternative development scenarios, the framework will help to foster ecoinnovation, to minimise impacts and to unveil trade-off, towards a sustainable circular bioeconomy.	JRC.D.3	RTD	(blank)	AGRI ENV GROW	2020-03-01	2022-02-28	INS-ER	3020803	Del1	Final report	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project.	2022-02-28	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.6 Environment	20185	WEFE Nexus	Water, Energy, Food and Ecosystem NEXUS	JRC.D.2	30942	WEFE 2050	Water Energy Food Ecosystem Nexus 2050	Within the scope of the European Green Deal - which aims to pave the way for Europe becoming the first climate-neutral continent by 2050 – WEFE 2050 aims to investigate which Water-Energy-Food-Ecosystem pathways are feasible to reach these objectives, for Europe, Africa and with special focus on the Mediterranean. Combining innovations in research and from local case studies with state-of-the-art modelling tools, assessments will be made of projected climate change impact combined with socio-economic changes – including post Covid-19 effects, planned measures and policy ambitions. This project is needed to quantify the effects of the planned EU sectorial policies such as the Common Agricultural Policy (CAP), the Water Framework Directive (WFD), the Marine Strategy Framework Directive (MSFD), the Biodiversity Strategy, the EU Long Term Strategy 2050, the EU Climate Law, the EU Adaptation Strategy etc. for the various sectors – agriculture, energy, environment. WEFE will investigate effects of these policies and explore additional innovative measures aiming at nutrient reduction, water efficiency, while aiming for “a fair, healthy and environmentally-friendly food system” and preserve and restore ecosystems and their biodiversity. In order to reach the EU’s commitment to global climate action under the Paris Agreement, it is needed to examine if changes in ambition level in the various policies might be needed, while taking into account the interests of the agricultural and energy sector, public and industrial water requirements, and the environment. This project will take stock of experiences, proposed measures and good practices from WEFE sub projects	JRC.D.2	ENV	ENV ENV ENV JRC	AGRI CLIMA INTPA NEAR RTD	2021-01-01	2022-12-31	CON-AA CON-AA CON-AA CON-IA INS-RS	3025768	022021	Improvements to the LISFLOOD-EPIC water resources model	This deliverable contains essential model maintenance and update work to include e.g. water temperature functions in LISFLOOD, further develop the sustainable groundwater abstraction component, usage of more detailed e-flow thresholds, and the embedding of a new hydropower-energy module for improved simulation of the water and energy component. In addition, LISFLOOD setups are developed for higher spatial and temporal resolution. For Europe, we are moving from 5km to 1arcminute (~2km). For the global and African setup we are moving from 6 arcminutes (~11km) to 3 arcminutes (~5.5km). The time resolution will go from 24 hours to 6 hours, which will be beneficial for flood and urban runoff computations.	2021-12-31	Technical systems	N
																	3025769	012026	Water Exploitation Index for monitoring and policy assessment	The widely accepted Water Exploitation Index (WEI+) will be calculated on a continuous basis, together with all the underlying data on surface and groundwater resources, abstractions, and consumption. Sectorial WEI+ for agriculture, energy cooling and the public sector will be assessed to evaluate the share of these sectors in the WEI and monitor changes. This work is a deliverable to the CAP monitoring and the SDG reporting, and is done in collaboration with EEA and Estat. The EEA will be supplied with raw water resources model output to calculate WEI+ within the EEA water-accounting system.	2021-06-30	Technical Reports	N
																	3025770	012020	Flagship report “Pathways on Water-Energy-Food-Ecosystems towards reaching the objectives of the Green Deal in Europe”	Report describing the consequence of an EU reference scenario until 2050, consisting of existing policies and reference or most-likely projections on demography, agriculture (CAPRI), economy and land use (LUISA). Next several different pathways will be examined examining alternative policy options and uncertainties in climate (Euro-Cordex) projections. Intermediate evaluations for 2025, 2030, 2035, 2040 and 2045 will be presented as well.	2022-12-31	Science for Policy reports	N
																	3025803	012027	Sustainable irrigation through sustainable groundwater abstraction and irrigation water pricing	Assessing the maximum sustainable groundwater abstraction amounts per European region, based on groundwater resources and depletion estimates. Comparison of the sustainable levels of abstraction with the current level of abstractions, and evaluating the biophysical (LISFLOOD-EPIC) and economic impacts (CAPRI) of applying these abstraction limitations on the various WEFE sectors. Effects of irrigation water ricing will also be further examined.	2022-12-31	Technical Reports	N
																	3025804	032022	Open WEFE portal	Establishing an ‘Open WEFE’ portal, including LISFLOOD open source, with innovations on LISFLOOD-EPIC and energy components, increased spatial and temporal resolution; This cross-cutting deliverable would serve to engage with end users (public authorities, wider scientific community, etc.) through sharing of data, tools and knowledge. This project could include the sharing of all WEFE outputs publicly where possible (could be done through the JRC Data Catalogue, Climate ADAPT platform, etc.) as well as tools where possible (e.g. OS LISFLOOD, etc)	2022-12-31	Technical systems	N
																	3026728	042022	Assessment of food supply-chain measures to keep the EU water footprint of consumption within the planetary boundary for water	The Farm to Fork Strategy on sustainable food along the whole value chain, aims at designing a fair, healthy and environmentally-friendly food system. The Commission will help consumers choose healthy and sustainable diets and reduce food waste and will explore new ways to give consumers better information, on details such as the environmental footprint of food. This deliverable will quantify the contribution of specific food supply-chain measures (healthy diet, food waste reduction, trade considerations) to the EU water footprint of consumption, and analyse how this water footprint can be kept within the planetary boundary for water.	2022-12-31	Technical Reports	N
																	3028449	032021	Ecosystem services, poverty & inequalities	This activity will explore the linkages between poverty and inequalities and environmental pressures at the global scale, integrating environmental datasets and models of the JRC and socioeconomic datasets and models of the World Bank. It will involve the use of machine learning techniques. The research stems from the collaboration between JRC and the World Bank started in the Exploratory Activity WEFE Inequalities. It will analyses poverty and inequalities through the lens of the Water-Energy-Food-Ecosystem Nexus, looking at the people access to ecosystem services, and considering environmental and health impacts under current conditions and future changes. The deliverable result will feed also into ONEWATER's Social Engagement Platform.	2021-12-31	Journal contributions (Clarivate)	N

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																	3028450	022020	Restoration targets for aquatic ecosystems	Understanding the connection between multiple pressures, conditions and ecosystem services is necessary to develop restoration targets for aquatic ecosystems that protect ecosystems biodiversity and functioning and ensure the sustainable use of water resources. This activity will evaluate possible restoration targets for aquatic ecosystems, considering the guidelines from the WFD CIS and analysing the relationship between multiple pressures and ecosystems condition. The spatial data model of the model GREEN will be used to relate water pressures indicators and data from Copernicus and the Global Surface Water Explorer, to the information on the ecological status of aquatic ecosystems available in WISE. Targets of restoration will be analysed also in light of future climate changes to assess the resilience of water resources and ecosystem services. Targets of nutrients export to the sea will be explored using optimization tools to allocate reductions to different sectors.	2022-12-31	Technical Reports	N
																	3028553	012022	Green deal scenarios for nutrient pollution reduction and water efficiency: BLUE2	The Green Deal with its Zero Pollution Strategy and Farm to Fork Strategy call for a drastic reduction of nutrient pollution in the environment and the design of “a fair, healthy and environmentally-friendly food system”. The WFD and the MSFD require coherence of measures considering all human activities in the land-water continuum that affect freshwater and marine ecosystems. Building on the Blue2 project experience, this activity will assess the effect of new ambitious scenarios of nutrient reduction in agriculture and waste water treatment to reach the zero-pollution ambitions, and water efficiency measures, with a focus on the impacts on EU freshwater and marine ecosystems. The models GREEN, SWAT and LISFLOOD-EPIC will be applied at the European scale to run the scenarios. Among other aspects, the scenarios will evaluate changes in human diet, balance of crop and livestock production, increase connection of local production and consumption and extension of organic farming	2022-12-31	Technical Reports	N
																	3028555	012021	Knowledge Hub for Water	The availability of scientific knowledge is key to integrate environmental and agricultural policy objectives, as required by the Green Deal through the Zero Pollution and the Farm to Fork Strategy. The vision is to develop a flexible web platform including scientific knowledge and data tools supporting both the water policies and their integration with other sectoral policies, with a specific focus on the environmental impacts of the agricultural policy, using water as an integrative element. Policy makers and implementers at the EU, national and regional level will find an easy entry point and visualization of relevant scientific information, by using map viewers, dash boards, story maps, and ad hoc synthesis.Collaboration between JRC, DG ENV and DG AGRI. The Knowledge Hub will collect relevant outcome of the JRC assessments to support the implementation and integration of EU water, agricultural and other sectoral policies.	2022-12-31	Sci information systems and databases	N
																	3035350	012023	WEFE NEXUS 2050 outlook Africa	The report will contain an analysis of a future water-energy-food-ecosystem outlook for Africa until 2050/2063, taking into account the impact of the Covid-19 outbreak, climate change scenarios (Cordex-Africa), and - Covid-modified - projections of GDP, population, land use (LUISA), agriculture (MAGNET), and energy market (JRC-C). The analysis will aim to include the most likely pathway until 2050/2063 – taking into account the objectives of Agenda 2063 for Africa - and alternative pathways based on variations of policy measures and uncertainties in the climate and socio-economic projections. Changes in demands for water for agriculture, drinking, sanitation, livestock, industry and energy will be used. Several indicators on water availability and shortages, energy, agriculture and environment will be assessed using LISFLOOD-EPIC. Interdepencies and trade-offs between the energy, agriculture and environment will be included. The analysis will take stock of results from WEFE-Africa.	2022-12-31	Technical Reports	N
																	3037506	032021	Water resources for healthy diets in African countries	A recently published FAO and WHO report defines sustainable healthy diets as “dietary patterns that promote all dimensions of individuals’ health and wellbeing; have low environmental pressure and impact; are accessible, affordable, safe and equitable; and are culturally acceptable”. Water is an essential resource to provide such diets. This work will quantify the water resources for a healthy diet in African countries, under different LISFLOOD-EPIC yield and climate scenario’s. Crop yields are typically low in Africa, and producing more “crop per drop” by increasing yields, will substantially reduce the amount of water required for a healthy diet in Africa.	2021-12-31	Journal contributions (Clarivate)	N
																	3045293	202101	Proposal for a FAIR data framework for JRC(.D)	To help implementing the ‘FAIR’ data principles of Findability, Accessibility, Interoperability, and Reusability across JRC(.D) a proposal will be made for a framework of well-defined data categories and respective requirements regarding quality and metadata. This will be devised in accordance with the European Data Strategy and building on initiatives such as INSPIRE and further standardising efforts underway in GEO-GEOSS, CEOS and OGC. The implementation proposal should as a minimum cover the most relevant data types in the WEFE Nexus and connect to the portfolios of relevant Copernicus Services as major data sources. To further facilitate interoperability and reusability of respective data sets, guidelines and best practices for data representation and encoding will be elaborated. Accessibility will be enabled via the JRC Big Data Platform (JEODPP) and other cloud solutions and the framework structure will be developed in close cooperation with the CC on Text and Data Mining (I.3)	2021-11-30	Technical Reports	N

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																	3046974	202102	Reference data	The aim is to develop a catalog of state-of-the-art datasets that are to be preferred for usage in JRC analysis and models, and could be identified as reference data sets. Data are envisaged to encompass multiple sectors including topography (DEMs), land use including forestry and agriculture, soils, demography, observed meteorological data, economic data etc. The aim is to stimulate using the best possible data, to streamline data-usage between JRC groups, and help (new) JRC staff easily to find data and a contact person. Current JRC platforms will be mostly used (JEODPP, DataM and JRCbox, JRC data portal).	2021-06-30	Sci information systems and databases	N
																	3046975	012025	Multi-model baseline conditions	The aim of this deliverable is to establish multi-model baselines i.e common references for usage by all the various JRC modelling groups. These baselines serve to have a common starting point for JRC models, e.g. reference conditions in 2010 or 2015 on multiple sectors: land use, economy, demography, agricuture, forestry, topography, meteorology and hydrography.	2021-06-30	Sci information systems and databases	N
																	3046976	202104	Reference sectorial projections	Bringing together knowledge on reference sectorial projections that serve as preferred usage for JRC groups, e.g. EURO-CORDEX climate projections, energy reference scenario 2010-2050, LUISA 2010-2050 land use projections, 2020-2030 CAPRI projections, GDP and Population projections until 2050 or beyond. Derived projections on e.g. available projected water resources can be added as well for third party usage. The projections should be made available on the common JRC-platforms JEODPP, DataM & JRCbox, and be collectively available for all JRC staff	2021-12-31	Sci information systems and databases	N
																	3081626	012024	WEFE Cyprus conference	Water-Energy-Food-Ecosystem Conference on Cyprus organised together With Union for the Mediterranean (UfM).	2021-05-31	Training	N
1. A European Green Deal	1.6 Environment	20268	Zero Air Pollution	Ensuring zero air pollution with carbon-neutral ambition	JRC.C.5	30301	P-AIR	Pressure on air – foresight	The "European green deal" states the ambition of moving towards a Europe with zero-pollution in several environmental matrices, including air, putting forward cross-cutting strategy to protect citizen' health. Air pollution in particular is known to originate from human activities taking place in several economic sectors including transport, agriculture, energy and so on. Sectors impacting the EU air quality are undergoing or are planned to undergo substantial structural changes driven by policies pursuing goals other than air quality control. Consequently, negative pressures on air quality due to these structural changes are generally not addressed. As recently noticed by the European Court of Auditors: "Some EU policies do not yet sufficiently well reflect the importance of improving air quality", and in particular "climate and energy, transport industry, and agriculture are EU polices with a direct impact on air quality, and choices made to implement them can be detrimental to clean air." The project "Pressure on air" aims at addressing existing and incoming sectorial EU policies through the lenses of their impact to air quality to foresee their effects on air quality.	JRC.C.5	ENV	JRC	CLIMA	2021-01-01	2026-12-01	INS-RS	3006671	31	Tool for fast screening mitigation policies from air quality perspective	The deliverable consists in a computational online tool that will allow Covenant of Mayors (CoM) signatories to track and evaluate in a simple way the impact on air quality progresses of their climate mitigation policies, without increasing reporting requests. A preliminary version of the tool is planned for mid-2020 and will be provided to the CoM community in order to allow the final release to be customized around the feedback collected by signatories.	2021-11-30	Technical systems	N
																	3006672	32	Workshops on joint management of climate and air quality policies in the Covenant of Mayors	Recurrent (yearly) workshops across the CoM community dedicated to the discussion of the interplay between mitigation and air quality. The workshops will involve both the signatories more advanced in the joint management of mitigation and AQ policies, with participation of experts. Workshops summaries and main findings will be disseminated through the CoM community with the goal of creating a specific “Community of Practices”	2022-06-30	Science for Policy Briefs	N
																	3006673	33	Guidelines on joint management of climate and air quality policies in the Covenant of Mayors	Experiences collected, both through the tool (Del 3.1) and in the CoP (3.2) will be used to feed a living and continuously updated best practices document to be made available to the whole CoM community on properly tuning mitigation and air control policies at the urban level.	2022-03-30	Science for Policy reports	N
																	3006674	41	State and measurement feasibility of pollutants of emerging concern.	The report will collect and organize the current knowledge on data availability, monitoring networks and advantages and disadvantages of the current measurement methodologies for a group of pollutants more and more posing concerns the European citizens. Whenever possible, depending on the depth and robustness of available knowledge, recommendations in view of the revision of AQD could be also formulated. A preliminary list of "pollutants of emerging concern" follows. The list will be further refined after the publication of WHO new guidelines on air pollution, expected for mid-2021 and following continuous iterations with DC ENV. A provisional pollutants list contains: Black Carbon, Ultra Fine Particles, Ammonia, Markers for biomass burning (e.g. Levoglucosan), Methane	2021-11-30	Science for Policy reports	N
																	3006675	42	Proof of concept for measurement chain(s)	To be canceled	2022-10-31	Validated methods, reference methods and measurements	N
																	3006676	51	Foresight expert workshops.	Expert workshops focusing on the zero-pollution paradigm and on the problem of minimizing pollution across environmental matrices, sectors and supply chain steps. The experts, both internal and external, will be in particular asked to provide their view on the upcoming and/or neglected challenges involving air quality in Europe, providing foresight views. The workshops will continuously feed the development of deliverables11 and the first one will also contribute to the feasibility study detailed in deliverable 41.	2022-11-30	Science for Policy reports	N

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																	3006677	1	Investigating emerging and relevant challenges in European air quality	The Science for policy report “Pressures on Air” identified “challenges”, i.e., present or upcoming changes or issues in sectors known to be relevant emitters of air pollutants that are likely to impact on the European air quality. The list includes both technological, systemic and societal changes, e.g., the shift to electric mobility, the raising number of “prosumers” and energy communities, the appearance of energy poverty in consequences of economic crises and others. A robust quantification of the actual impacts of most of these challenges, both in terms of emissions and citizens' health is generally missing or limited in scope in the literature. This deliverable will address a set of issues identified in the report or others, suggested by the experts involved in deliverable 5. Analyses will be performed using results of sectorial models and data from literature, based on the SHERPA and FASST tools and will be provided as basis to infer policy suggestions	2022-11-30	Science for Policy reports	N
1. A European Green Deal	1.6 Environment	20268	Zero Air Pollution	Ensuring zero air pollution with carbon-neutral ambition	JRC.C.5	30305	PROV-MO	Strengthening provisions on monitoring, modelling and action plans	Clean air is essential to our health and to the environment. Although emissions of air pollutants have been reduced over the past two decades, air quality remains a major concern in many parts of Europe, especially in urban areas. Poor air quality continues to cause serious impacts on health, and 9 out of 10 European citizens are still exposed to air pollution levels well above those suggested by the World Health Organization guidelines. The European Union has set itself the explicit goal to achieve levels of air quality that do not give rise to significant negative impacts on, and risks to, human health and the environment. Ambient air quality legislation sets standards in this regard, such as Directive 2008/50/EC on ambient air quality and cleaner air for Europe. For the effective and efficient implementation of air policies, a continuous update and improvement of the underpinning air quality and air pollution knowledge base, including strengthened qualitative and quantitative assessment through combined use of measurements and modelling, remains critical.	JRC.C.5	ENV	ENV ENV RTD RTD JRC	CLIMA GROW	2021-01-01	2027-12-31	CON-AA CON-AA CON-IA CON-IA INS-RS	3010423	202102	Provisions for new measurement techniques	Develop and validate provisions for new measurement techniques regarding currently regulated air pollutants, for example nitrogen dioxide, by laser based, sensor based and passive sampling techniques. Align possibly with findings of the ACTRIS research network and the EMEP monitoring network.	2021-12-17	Technical Reports	N
																	3010424	202101	Local/ regional Air Quality Model inter-comparison platform (FAIRMODE - Forum for Air Quality Modelling)	The overall scope of this work is to address the issue of the sensitivity of model responses to emission changes. This is recognised as an important issue in the FAIRMODE (Forum for Air Quality Modelling) modelling network to ensure robust policy making, especially when air quality plans must be designed. To support this goal, a dedicated inter-comparison platform will be developed to provide the necessary information. The focus of this benchmarking platform is on the urban and regional (i.e. sub-national) scales with a zoom on specific EU cities and regions. Both episodes and long term averaged concentration for O3, particulate matter and NO2 will be considered.	2021-12-17	Technical systems	N
																	3010535	202103	Quality Assurance of EU Measurements	Based on the mandate of the Air Quality Directive 2008/50/EC given to JRC, organisation of inter-laboratory comparisons of regulated air pollutants and corresponding evaluation reports, with a special view on providing feedback to National Reference Laboratories on specific issues regarding the possible improvement of measurement and assessment techniques.	2021-12-17	Technical Reports	N
																	3010536	202104	SARS-COV-2019 impacts on air pollutants in Europe	An analysis of the effect of the SARS-COV-19 pandemic on pollutants will be performed. A comparison of several cases with a European perspective will be carried out, e.g. IT, ES, FR and DE. This study will combine modelling and measurements and can serve as validation study to check the performance of models.	2021-12-17	Journal contributions (Scopus)	N
																	3010537	202105	Guidance for use of sensors and sensor systems	The outcome of the Administrative Arrangement AQSens will be summaried in two guidance documents (aiming at experts and general public) and one final report describing the AA research and outcome. Technical details: The expert guidance document shall contain a description of the functionality of: • Platform for data integration based on international standards and open source software; • Computation tools in order to facilitate the build-up of calibration models based on the outcome of laboratory tests or field experiments. • Standard Operational Procedures for the calibration of sensor systems and QA/QC strategies regarding number of replicates sensors, routine checks of Arrangement between sensor data and reference measurements from existing air quality monitoring stations and advised period of re-calibration of sensors. • Guidance on the use of sensors in combination with models. • Design of sensor system network. The general public guidance document shall contain general informatio	2021-05-31	Technical Reports	N

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																	3010543	202106	Interim Report for AA AQMM - Support to air pollution modelling and monitoring approaches, including standardisation and harmonisation	The deliverable for the AA AQMM includes: · A brochure updating on the state-of-play of low-cost sensors · A SHERPA update covering additional air pollutants, in particular ground level ozone · An updated version of the JRC 'catalogue of air quality measures' · A report on the modelled bottom-up composition air quality maps · A report that assesses the co-benefits and/or counter-effects of measures addressing air pollution and climate change, making use of, inter alia, SHERPA and EDGAR. · Draft input papers to inform on additional methodological guidance and lessons learnt on specific topics (siting of monitoring station; modelling of air quality and related reporting; source apportionment and source allocation methods; quantification of the effect of air quality measures included in air quality plans) · Training workshop geared towards regional and/or local authorities, focused on using customisable SHERPA and SHERPA-City tools	2021-12-31	Technical Reports	N
																	3010544	202201	Best Air Quality Modelling Practice	FAIRMODE (Forum for Air Quality Modelling) - Best modelling practices for regional and local air quality plans, from measures to impacts. In this deliverable we will involve a selected group of regional / local authorities, to elaborate recommendations to support local, regional and national authorities in quantifying emission changes from an available set of measures and in quantifying their impacts in terms of concentration. The result will be a scientific publication, putting together and harmonising existing approaches in Europe.	2022-12-16	Journal contributions (Scopus)	N
																	3010545	202202	Paving the way to join the European Research Infrastructure Consortium (ERIC) addressing air pollution and radiative forcing by non-well-mixed greenhouse gases and aerosols	Preparing for European Research Infrastructure Consortium (ERIC) - ACTRIS Research Network labelling of the European Commission's Atmospheric Observatory at JRC Ispra, which includes implementing ACTRIS' guidelines on measurements and data provision, in line with JRC strategy 2030 (association to European Strategy Forum on Research Infrastructures). (This deliverable is partially funded by ACTRIS IMP project under H2020, IA35426)	2022-12-16	Technical systems	N
																	3010546	202203	Analysis of EU quality assurance programmes	The Air Quality Directive requires the JRC to organise quality assurance programmes within the EU. Impacts and benefits of the JRC organised EU quality assurance programmes shall be analysed. An evaluation on how National Reference Laboratories experience feeds back into their networks routine monitoring is performed.	2022-12-16	Technical Reports	N
																	3010547	202204	Trend analysis of Air Pollutants	A Science for Policy report based on scientific studies on long term trends in air pollution metrics, coupled with trends in emissions and model results, showing the impact of air pollution and climate change in support to the UNECE Air Convention and to international assessments in Europe.	2022-12-16	Science for Policy reports	N
																	3010548	202206	Final Report AA AQMM-Support to air pollution modelling and monitoring approaches, including standardisation and harmonisation	The deliverable for the AA AQMM includes: · A brochure updating on the state-of-play of low-cost sensors · Training workshop geared towards regional and/or local authorities, focused on using customisable SHERPA and SHERPA-City tools · Final report	2022-12-16	Technical Reports	N
																	3018416	202205	Analysis of air quality scenarios at national – international scale	Multi-policy – multi-impact retrospective and foresight analyses on different scales (from national to global) derived from our modelling tools and based on socio-economic scenarios developed by the Integrated Assessment Modelling community, including energy scenarios with a focus on policy-relevant research questions formulated in the frame of the UNECE task forces.	2022-11-30	Journal contributions (Clarivate)	N
1. A European Green Deal	1.6 Environment	20268	Zero Air Pollution	Ensuring zero air pollution with carbon-neutral ambition	JRC.C.5	30366	IPPA	Impacts of policy and technology pathways on air quality	The project supports two key EU policies: the 'EU Green Deal', one of the key activities of the new Commission, and the possible future revision of the Air Quality Policies. To support both objectives, IPPA develops toolboxes that allow performing impact assessments to analyse the effect of policy measures (either related to the Green Deal or the aforementioned Air Quality Policies) on air quality and health. With this, IPPA can provide independent and timely support to ad-hoc requests from various commission services. The project contributes to the achievement of the project portfolio's objectives, with its support to the analysis of planned sectoral policies and its assessment of the coherence among various policies with the overall objective of improving air quality. Emissions are essential to inform policy making but also as essential input to modelled impact assessment. EDGAR is a widely recognised global emission inventory used by several communities: GEIA (Global Emission InitiAtive), the UNECE HTAP (United Nations Hemispheric Task Force for Air Pollutants), CAMS (Copernicus Atmospheric Services) and FAIRMODE (EU network for air quality modellers) among others. IPPA maintains and further develops EDGAR with a focus on its air quality related components. IPPA includes the Administrative Arrangement EFA (EDGAR For Agriculture) that supports the implementation of the National Emission Ceiling Directive with a focus on technologies to reduce air pollutant emissions from the agricultural sector. Results of EFA will be incorporated in EDGAR.	JRC.C.5	ENV	ENV JRC	AGRI CLIMA ENER MOVE REGIO	2021-01-01	2027-12-31	CON-AA INS-RS	3002147	D2	2021 Urban PM2.5 atlas	Science for policy report that includes an analysis of the key sectors and geographical areas responsible for air pollution in 150 cities in Europe. Developing from the 2017 edition, the results will rely on an improved and more accurate SHERPA modelling approach, and will be based on updated emission estimate.	2021-11-30	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3002148	D3	From abatement measures to costs: A modelling platform	The IPPA modelling platform is extended, adding the cost dimension. The platform will support the Commission and national and local authorities with air quality impact assessments. With this extension, the design and assessment of abatement measures will be completed including costs (health related costs, but also abatement measures costs, when data are available).	2022-11-30	Technical systems	N
																	3002149	D4	Assessment, coherence and fairness of selected Green Deal policies	To evaluate the impacts of Green Deal strategies on air quality, the modelling platform developed in IPPA will be applied. The assessed Green Deal policies will be selected in consultation with DG-ENV, and the full path from abatement measures, to emissions, concentrations, impacts and costs will be followed. A key aspect of the assessment of those policies will be on their 'coherence and fairness', with a focus on the transport, residential and agricultural sectors	2022-11-30	Science for Policy reports	N
																	3002150	D1	From abatement measures to impacts on air quality and health: A modelling platform	To support the Commission (with its Green Deal and Air quality policies revision objectives), but also national and local authorities with air quality impact assessments, IPPA will further develop its platform to cover the entire pathway from abatement measures to impacts on air quality and health. The platform will allow to design and test the impact of abatement measures, by first converting these measures into emissions (through the EDGAR emission inventory), then to concentrations (through the SHERPA model) and finally to health impacts (using the FASST model approach).	2021-11-30	Technical systems	N
																	3005859	D5	Update of EDGAR Global air pollutant emission inventory	To perform updates of Air Pollutants EDGAR emissions until most recent year (at least 2018), including updates in activity data, emission factors and technologies for key sectors. New spatial proxies will be also developed to distribute emissions over global grid maps. This work feeds both international and European activities, as well as IPPA modelling platform, as EDGAR is a key input for the proposed 'measures to costs' assessment.	2022-11-30	Sci information systems and databases	N
																	3005860	EFAD1	AA EFA database on activity data and technologies	Creation and population of a database on activity data, technologies and input parameters needed to compute emission factors.	2021-02-28	Sci information systems and databases	N
																	3005861	EFAD2	AA EFA prototype tool to compute emission factors for agricultural activities	In this deliverable the EFA Prototype tool will be developed, tested and validated, in collaboration with DG-ENV and Member States.	2021-09-30	Technical systems	N
																	3005869	EFAD3	AA EFA Final tool to compute emission factors for agricultural activities	Present and assess value added of various solutions for ensuring efficient follow-up to the prototype tool. The final tool with the user manual will be made available online, possibly hosted in a web-based interactive technical platform to be directly used by Member States, allowing them to insert their input information. The EFA final tool will be available and online	2022-02-28	Technical systems	N
																	3010233	EFAD4	AA EFA Final Report	A final report for this AA, documenting all relevant activities carried out and assessing progress to the objectives as stated under this Administrative Agreement. In particular it will include all the relevant information and methodologies used to develop the tool to compute air pollutant emissions from agriculture. This deliverable is foreseen by the end of the AA.	2022-02-28	Technical Reports	N
																	3011918	EFA	AA EFA Edgar For Agriculture	The general objective of this Administrative Arrangement is to support the development of robust agricultural air pollutants emissions inventory data at Member State level as requested by the Directive (EU) 2016/2284. Its specific objective is to develop a tool to compute more accurate and specific emission factors and activity data (AD) for agricultural activities, with the possibility to include specific information at Member State level, collected through dialogue with Member States, in collaboration with DG ENV. In practice the AA is implemented following these steps: - Creation and population of a database on activity data, technologies and input parameters needed to compute emission factors (28/02/2021). - EFA Prototype tool development, testing and validation (30/09/2021). - EFA Final tool release (28/02/2022). - EFA Final Report (28/02/2022).	2022-02-28	Technical systems	N
1. A European Green Deal	1.6 Environment	20268	Zero Air Pollution	Ensuring zero air pollution with carbon-neutral ambition	JRC.C.5	30367	Econ Clean Air	Economic Analysis for Clean Air	The Green Deal sets out the ambition for the EU to become the first climate neutral continent in the world. While climate neutrality implies net zero greenhouse gas emissions, it also offers a unique opportunity to provide the EU citizens with clean air to breathe. This is explicitly acknowledged by the goal of "zero pollution ambition for a toxic-free environment". The debate around the design and tracking of air pollution control policies across the EU typically relies on a multidisciplinary set of modelling tools, including energy, atmospheric chemistry and economic models. This project evolves around the economics aspects of clean air, and aims to provide input for DG ENV's recurring Clean Air Outlook.	JRC.C.6	ENV	JRC	CLIMA	2021-01-01	2022-12-31	INS-RS	3010096	PR1	Clean Air Outlook 2	This report provides an overview of both the methodological advances as well as the policy applications	2021-12-31	Whole parts of policy documents	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.7 Oceans and fisheries	20166	BlueSeaEco	Oceans, Coastal Areas and the Blue Economy	JRC.D.2	30512	SuFiA	Sustainable Fisheries and Aquaculture	The European Union Common Fisheries Policy (CFP) was introduced in the 1970s to manage a key common natural living resource, - marine fish. Acknowledging that fish stocks are renewable, but vulnerable to overexploitation, the CFP objectives aim to ensure that wild capture fisheries and aquaculture are environmentally, economically and socially sustainable, while providing healthy food for EU citizens. The CFP basic regulation (EU) 1380/2013 insists on the provision of best available scientific advice. The JRC has a clear mandate, a key role and a successful record of supporting the CFP scientific advice provision process. This advice is being published as JRC Science for Policy Reports and has to be taken into account by the European Commission. In 2017, Commissioner Karmenu Vella lauded the collaboration between JRC, DG MARE and the Scientific, Technical and Economic Committee for Fisheries (STECF, Commission Decision 2016/C 74/05) as being quintessential to the CFP. This is confirmed by continuous excellent impact assessment (PRIME) results and the JRC Excellence Award for long-term policy support in 2019. SuFiA will focus on innovative research, and advance state-of-the-art analytical and modelling approaches to address the biological, environmental, technical and socio-economic dimensions of wild capture fisheries and aquaculture. This will underpin the provision of sound scientific advice to fisheries and aquaculture management and policymaking and foster scientific progress in this field, as well as training and capacity building. SuFiA is supported by institutional resources and the Administrative Arrangement FishMan with DG	JRC.D.2	MARE	MARE MARE RTD	ENV RTD	2021-01-01	2022-12-31	CON-AA CON-AA CON-IA CON-IA INS-RS	3036578	305122021	Fisheries and Aquaculture Genetic and Genomics in support of the Common Fisheries Policy	In line with its Key Orientations, and the requirements for best available scientific advice enshrined by the Common Fisheries Policy (CFP) basic Regulation (EU) 1380/2013, the JRC will assess how to best integrate state-of-the-art genetic and genomic technology and approaches in fisheries and aquaculture management. Issues that will be addressed include genetic fish abundance estimates, the EU landing obligation, stock delineation and traceability. This includes a close collaboration with the International Council for the Exploration of the Sea (ICES), - The JRC is member of the ICES Working Group on Applied Genetics for Fisheries and Aquaculture.	2021-11-30	Journal contributions non-listed	N
																	3036579	305122021	Capacity Building for Fisheries Research and Modelling	The JRC will provide training and advice to fisheries scientists of EU Member States and Third Countries, for the JRC in-house fisheries modelling framework Assessment for All (a4a), Management Strategy Evaluation (MSE) and the Fisheries Library based on R (FLR). To maximise the impact, courses will mainly be based on case studies that address acute fisheries management needs. Moreover the established collaboration with the General Fisheries Commission for the Mediterranean (GFCM), - a FAO Body -, on capacity building for fisheries scientific advice in the Mediterranean, wil be continued.	2021-12-16	Training	N
																	3036580	305122021	Innovation, Modelling Technology Development and Research for Sustainable Fisheries and Aquaculture Management	The JRC will carry out research and technology development to foster novel and innovative analytical and modelling approaches to fisheries and aquaculture management that underpins the sustainable and profitable exploitation of marine living resources. These activities will support the multiannual management plans for fisheries foreseen under the remit of the Common Fisheries Policy (CFP), and the ecosystem based approach to fisheries and aquaculture management. Results will be disseminated through scientific peer-reviewed publications, conferences and workshops.	2021-12-23	Journal contributions (Clarivate)	N
																	3036581	305122021	Monitoring the Common Fisheries Policy 2020	Article 50 of the Common Fisheries Policy (CFP; Regulation (EU) No 1380/2013 of the European Parliament and of the Council of 11 December 2013) stipulates: "The Commission shall report annually to the European Parliament and to the Council on the progress on achieving Maximum Sustainable Yield and on the situation of fish stocks, as early as possible following the adoption of the yearly Council Regulation fixing the fishing opportunities available in Union waters and, in certain non-Union waters, to Union vessels". The JRC will carry out the analysis needed to report on progress in achieving the Maximum Sustainable Yield objectives in line with the Common Fisheries Policy.	2021-06-30	Science for Policy reports	N
																	3036771	305122021	Scientific Advice to the Common Fisheries Policy	According to the basic Regulation (EU) No 1380/2013, the Common Fisheries Policy (CFP) must be based on "best available scientific advice". The JRC will continue its succesful collaboration with the Scientific, Technical and Economic Committee for Fisheries (STECF; Commission Decision C(2016) 1084) and its Partner DG MARE to create scientific advice that responds effectively to the CFP cycle needs. This includes the compilation, processing and analysis of Member State data on fisheries and aquaculture, collected under the Data Collection Framework Regulation (DCF) and EU Multiannual Planning (EU-MAP). CFP relevant scientific advice is published as 20 to 25 JRC Science for Policy Reports per year.	2021-12-23	Science for Policy reports	N
																	3060692	305122022	Monitoring the Common Fisheries Policy 2020	Article 50 of the Common Fisheries Policy (CFP; Regulation (EU) No 1380/2013 of the European Parliament and of the Council of 11 December 2013) stipulates: "The Commission shall report annually to the European Parliament and to the Council on the progress on achieving Maximum Sustainable Yield and on the situation of fish stocks, as early as possible following the adoption of the yearly Council Regulation fixing the fishing opportunities available in Union waters and, in certain non-Union waters, to Union vessels". The JRC will carry out the analysis needed to report on progress in achieving the Maximum Sustainable Yield objectives in line with the Common Fisheries Policy.	2022-06-30	Science for Policy reports	N
																	3060693	305122022	Fisheries and Aquaculture Genetic and Genomics in support of the Common Fisheries Policy	In line with its Key Orientations, and the requirements for best available scientific advice enshrined by the Common Fisheries Policy (CFP) basic Regulation (EU) 1380/2013, the JRC will assess how to best integrate state-of-the-art genetic and genomic technology and approaches in fisheries and aquaculture management. Issues that will be addressed include genetic fish abundance estimates, the EU landing obligation, stock delineation and traceability. This includes a close collaboration with the International Council for the Exploration of the Sea (ICES), - The JRC is member of the ICES Working Group on Applied Genetics for Fisheries and Aquaculture.	2022-11-30	Journal contributions non-listed	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3060694	305122022	Capacity Building for Fisheries Research and Modelling	The JRC will provide training and advice to fisheries scientists of EU Member States and Third Countries, for the JRC in-house fisheries modelling framework Assessment for All (a4a), Management Strategy Evaluation (MSE) and the Fisheries Library based on R (FLR). To maximise the impact, courses will mainly be based on case studies that address acute fisheries management needs. Moreover the established collaboration with the General Fisheries Commission for the Mediterranean (GFCM), - a FAO Body -, on capacity building for fisheries scientific advice in the Mediterranean, wil be continued.	2022-12-30	Training	N
																	3060695	305122022	Innovation, Modelling Technology Development and Research for Sustainable Fisheries and Aquaculture Management	The JRC will carry out research and technology development to foster novel and innovative analytical and modelling approaches to fisheries and aquaculture management that underpins the sustainable and profitable exploitation of marine living resources. These activities will support the multiannual management plans for fisheries foreseen under the remit of the Common Fisheries Policy (CFP), and the ecosystem based approach to fisheries and aquaculture management. Results will be disseminated through scientific peer-reviewed publications, conferences and workshops.	2022-12-30	Journal contributions (Clarivate)	N
																	3060696	305122022	Scientific Advice to the Common Fisheries Policy	According to the basic Regulation (EU) No 1380/2013, the Common Fisheries Policy (CFP) must be based on "best available scientific advice". The JRC will continue its succesful collaboration with the Scientific, Technical and Economic Committee for Fisheries (STECF; Commission Decision C(2016) 1084) and its Partner DG MARE to create scientific advice that responds effectively to the CFP cycle needs. This includes the compilation, processing and analysis of Member State data on fisheries and aquaculture, collected under the Data Collection Framework Regulation (DCF) and EU Multiannual Planning (EU-MAP). CFP relevant scientific advice is published as 20 to 25 JRC Science for Policy Reports per year.	2022-12-30	Science for Policy reports	N
1. A European Green Deal	1.7 Oceans and fisheries	20166	BlueSeaEco	Oceans, Coastal Areas and the Blue Economy	JRC.D.2	30770	Blue Economy	The Blue Economy	In 2020, the European Commission publishes the third edition of the European Union Blue Economy Report, a comprehensive analysis and widely acclaimed and referenced compendium. The project Blue Economy will build on this success to continue an impactful cooperation with DG MARE and other European Commission Directorate Generals (DGs) and stakeholders. The scale of opportunities arising from ocean research, innovation and applications is guesswork, but certainly huge. A World Wildlife Fund (WWF) study estimated that ocean assets, such as fisheries, aquaculture, shipping, energy and tourism, produce an annual value of $2.5 trillion and observed in 2015: "If the ocean were a country it would be the seventh largest economy on the planet.". A study of the Organisation for Economic Cooperation and Development (OECD) confirms that notion. These observations also reveal to what extent the marine realm remains unknown and undervalued with respect to its importance for humanity. This is perhaps most evident when considering their role for the Earths' Climate and Climate Change. - Oceans constitute the biggest carbon sink on Earth. The EU Blue Growth strategy acknowledges that the marine realm is a driver for the European economy and has great potential for innovation and growth. A robust scientific knowledge base must underpin the Blue Economy strategy to make the best of ocean resources and services, without diminishing benefits to future generations, and taking into account economic and social prosperity along with the environment. This is particularly relevant in the aftermath of the coronavirus	JRC.D.2	MARE	MARE MARE MARE RTD	CLIMA ENV GROW RTD	2021-01-01	2022-12-31	CON-AA CON-AA CON-AA CON-IA INS-RS	3038635	307702021	The Annual Economic Report on the EU Fishing Fleet	Under the remit of the Common Fisheries Policy (CFP) basic Regulation (EU) 1380/2013, the need for "best available scientific advice" is legally enshrined and that includes (socio-)economic performance analysis. The JRC compiles fisheries, aquaculture and processing sector economic data collected by the EU Member States under the remit of the EU Data Collection Framework (DCF) Regulation and EU Multiannual Planning (EU-MAP). It processes and analysis this data together with the Scientific, Techjnical and Economic Committee for Fisheries (STECF, Commission Decision C(2016) 1084) in response to identified CFP advice needs. This CFP Scientific Advice is published as JRC Science for Policy Reports.	2021-09-30	Science for Policy reports	N
																	3038636	307702021	Innovation and Research for a sustainable European Blue Economy	The JRC will carry out research to foster novel and innovative approaches and modelling applied to socio-economic analysis that underpins a sustainable Blue Economy to ensure prosperity for EU citizens. These activities will support the European Union Blue Growth Strategy, the Green Deal and a Stronger Europe in the World.	2021-12-23	Journal contributions (Clarivate)	N
																	3038637	307702021	Annual Economic Report on the Blue Economy 2021	The Blue Economy encompasses all sectorial and cross-sectorial economic activities related to oceans, seas and coasts. The Annual Economic Report of the EU Blue Economy supports the Blue Growth Strategy, the Green Deal, a Stronger Europe and the zero carbon ambition. The report covers the following established sectors: Living resources (fisheries, aquaculture, fish processing and marketing and distribution), marine extraction of oil and gas, ports, warehousing and water projects, shipbuilding and repair, maritime transport, and coastal tourism . In addition, the report also covers the following emerging sectors: Biotechnology, deep-sea mining, defence and security, desalination, environmental protection and marine ecosystem services, multiuse platforms, renewable energy and research & education. The intention is to enhance the robustness and scope of the data and methodologies to continuously improve the quality and value of the report for policy makers and stakeholders.	2021-06-25	Whole parts of policy documents	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3060716	307702022	Annual Economic Report on the Blue Economy 2022	The Blue Economy encompasses all sectorial and cross-sectorial economic activities related to oceans, seas and coasts. The Annual Economic Report of the EU Blue Economy supports the Blue Growth Strategy, the Green Deal, a Stronger Europe and the zero carbon ambition. The report covers the following established sectors: Living resources (fisheries, aquaculture, fish processing and marketing and distribution), marine extraction of oil and gas, ports, warehousing and water projects, shipbuilding and repair, maritime transport, and coastal tourism . In addition, the report also covers the following emerging sectors: Biotechnology, deep-sea mining, defence and security, desalination, environmental protection and marine ecosystem services, multiuse platforms, renewable energy and research & education. The intention is to enhance the robustness and scope of the data and methodologies to continuously improve the quality and value of the report for policy makers and stakeholders.	2022-06-30	Whole parts of policy documents	N
																	3060717	307702022	Innovation and Research for a sustainable European Blue Economy	The JRC will carry out research to foster novel and innovative approaches and modelling applied to socio-economic analysis that underpins a sustainable Blue Economy to ensure prosperity for EU citizens. These activities will support the European Union Blue Growth Strategy, the Green Deal and a Stronger Europe in the World.	2022-12-30	Journal contributions (Clarivate)	N
																	3060718	30720222	The Annual Economic Report on the EU Fishing Fleet	Under the remit of the Common Fisheries Policy (CFP) basic Regulation (EU) 1380/2013, the need for "best available scientific advice" is legally enshrined and that includes (socio-)economic performance analysis. The JRC compiles fisheries, aquaculture and processing sector economic data collected by the EU Member States under the remit of the EU Data Collection Framework (DCF) Regulation and EU Multiannual Planning (EU-MAP). It processes and analysis this data together with the Scientific, Techjnical and Economic Committee for Fisheries (STECF, Commission Decision C(2016) 1084) in response to identified CFP advice needs. This CFP Scientific Advice is published as JRC Science for Policy Reports.	2022-09-30	Science for Policy reports	N
1. A European Green Deal	1.7 Oceans and fisheries	20166	BlueSeaEco	Oceans, Coastal Areas and the Blue Economy	JRC.D.2	30845	BLUESEA	Monitoring, Modelling and Assessment of the Environmental Status of Marine and Coastal Waters	Marine systems are highly complex and still remain to a vast extent unexplored and unknown. And yet oceans and seas, along with coastal areas, play a crucial role for the global climate, the water cycle and sustain essentially our society, while fully bearing the impact of increasing anthropogenic pressures. This project will adopt a holistic systems approach to address key challenges identified under the European Green Deal, including the zero pollution ambition for a toxic-free environment, the EU's climate ambition, the preservation of ecosystems and biodiversity, the Farm (ocean) to Fork approach and a Sustainable Blue Economy. Furthermore, the longstanding experience in EU marine environmental policies is an asset for supporting the achievement of the UN Sustainable Development Goal 14 (Life below Water) and will contribute to identify future challenges and upcoming opportunities. Through this project JRC will continue to lend essential support to the implementation of the Marine Strategy Framework Directive (MSFD). In particular, the integration and harmonisation of monitoring and assessment of the state of our marine environment across all descriptors of Good Environmental Status (GES) will be pursued. Moreover, links to and harmonisation with, related EU legislation and policies will be enhanced. Relevant examples include the Common Fisheries Policy (CFP), the Water Framework Directive (WFD), the Biodiversity Strategy and the Invasive Alien Species (IAS) Regulation. Links will strengthened to JRC projects underpinning the Blue Economy. The institutional work is supported by two	JRC.D.2	ENV	ENV ENV JRC	CLIMA DEFIS MARE NEAR RTD SANTE	2021-01-01	2022-12-31	CON-AA CON-AA INS-RS	3022176	012021	Marine Modelling Framework (MMF2.0)	Delivery of a new version of the Marine Modelling Framework (MMF2.0) that is suitable for simulating the major European Regional Seas falling under EU legislation. Existing hydrodynamic and biogeochemical model components will be continuously updated and further developed. The new developments will comprise the inclusion of modelling tools for simulating the fate of litter, the distribution of hazardous substances, and the impact from pressures on the food web, as well as for providing estimates on economic aspects of ecosystem services.	2021-12-17	Journal contributions (Clarivate)	N
																	3022178	012022	Comprehensive analysis of simulated impact from measures on the marine ecosystem (institutional)	Delivery of a comprehensive analysis/evaluation based on the simulations performed by the Marine Modelling Framework (MMF2.0) for the Mediterranean Sea and the Black Sea. This deliverable will specifically analyse and assess the consequences of different policy and climate scenarios (e.g., MSFD, CFP and IPCC scenarios) on the ecosystem status, comprising hydrodynamics, biogeochemistry and food web. The results produced by the MMF2.0 shall allow evaluating how political decisions and program of measures (regarding nutrients, fisheries, hazardous substances and plastic litter) could affect the Good Environmental Status of the marine ecosystems downstream and identify gaps/limitations that need to be addressed by the current regulations to ensure the sustainable use of our oceans.	2022-12-16	Journal contributions (Clarivate)	N
																	3035545	022021	Support to the MSFD implementation of biodiversity and pollution related descriptors (institutional)	Delivery of the results from the comprehensive support to the MSFD implementation process comprising several biodiversity and pollution related descriptors (D1, D2, D3, D4, D5, D6, D8 and D9), under the institutional work programme, covering reports on the analysis and potential improvement of links between monitoring, assessments and measures of MS. Support to the development of baselines, threshold values and integration rules, including where needed across descriptors. Deliverable summarising the review of Member States reports to the Commission in fulfilment of the MSFD requirements.	2021-12-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3035546	022022	Support to the MSFD review, assessment and implementation (AA MSFD 20220-2022)	Delivery of comprehensive reports on the methodology, the process and the achieved results in establishing baselines, thresholds and trends for the descriptors defined under AA MSFD 2020-22, done in close collaboration with all relevant stakeholders, through expert networks and technical groups. Deliverable summarising the review of Member States reports to the Commission in fulfilment of the MSFD requirements. Report on the evaluation of the MSFD review process, supporting the Art.23 revision foreseen for 2023.	2022-12-31	Technical Reports	N
																	3035547	032022	Support to the MSFD review, assessment and implementation (institutional)	Delivery of comprehensive reports on the methodology, the process and the achieved results in establishing baselines, thresholds and trends for biodiversity and pollution related descriptors not covered by the MSFD-AA, done in close collaboration with all relevant stakeholders, through expert networks and technical groups. Deliverable summarising the review of Member States reports to the Commission in fulfilment of the MSFD requirements covering all descriptors. Report on the evaluation of the MSFD review process, supporting the Art.23 revision foreseen for 2023.	2022-12-31	Technical Reports	N
																	3035548	042022	Comprehensive analysis of simulated impact from measures on the marine ecosystem (AA BLUE2 2020-2023)	. Delivery of a comprehensive analysis/evaluation based on the simulations performed by the Marine Modelling Framework (MMF2.0) for the Baltic Sea, North Western European Shelf, the Iberian Sea and Bay of Biscay as defined in the AA BLUE2 2020-2023. This deliverable will specifically analyse and assess the consequences of different policy and climate scenarios (e.g., MSFD, CFP and IPCC scenarios) on the ecosystem status, comprising hydrodynamics, biogeochemistry and food web. The results produced by the MMF2.0 shall allow evaluating how political decisions and program of measures (regarding nutrients, fisheries, hazardous substances and plastic litter) could affect the Good Environmental Status of the marine ecosystems downstream and identify gaps/limitations that need to be addressed by the current regulations to ensure the sustainable use of our oceans.	2022-12-31	Technical Reports	N
1. A European Green Deal	1.7 Oceans and fisheries	20166	BlueSeaEco	Oceans, Coastal Areas and the Blue Economy	JRC.D.2	30952	MALIP	Marine Litter and Plastics	Marine Litter has been identified as a major challenge, threatening marine wildlife and causing socioeconomic harm and is Descriptor 10 of the MSFD (2008/56/EU) for Good Environmental Status of the EU Seas. Specifications are given under in the MSFD Commission Decision (2017/484/EC). While the public and policy interest has grown, measures against marine are being implemented also in the frame of the EU Plastics Strategy (SWD(2018) 16 final). The quantitative assessment of litter quantities is needed in order to prioritise measures and to evaluate their effectiveness. Through this project JRC will provide support to the implementation of the Marine Strategy Framework Directive (MSFD), such harmonisation and assessment of MSFD (Descriptor D10) and related policies. In particular, the integration and harmonisation of monitoring and assessment of the state of the marine environment for Descriptor D10. Provisions against marine litter are closely related to other MSFD Descriptors such as Biological Diversity (D1), Invasive Species (D2), Fisheries (D3), Seafloor (D6), Contaminants (D8+D9) and others. Approaches against marine litter are related to the European Green Deal, including the zero pollution ambition for a toxic-free environment, the EU's climate ambition, the preservation of ecosystems and biodiversity, the Farm (ocean) to Fork approach and a Sustainable Blue Economy. UN Sustainable Development Goal 14 (Life below Water) provides for a significant reduction of	JRC.D.2	ENV	ENV ENV JRC	MARE NEAR RTD	2021-01-01	2022-12-31	CON-AA CON-AA INS-RS	3031391	012021	Monitoring and assessment of marine litter	Delivery of the results from the comprehensive support to the MSFD implementation process on Descriptor D10, covering reports on the analysis and potential improvement of links between monitoring, assessments and measures of MS. Support to the development of baselines, threshold values, and integration rules, including where needed across descriptors. Deliverable summarising the review of Member States reports to the Commission in fulfilment of the MSFD requirements. Report on the development and provision of tools, sampling approaches and analytical measurements, in order to enable large-scale comparable marine litter assessments including collaborations beyond EU.	2021-12-31	Technical Reports	N
																	3034920	022021	Marine Modelling Framework MMF2.0 for litter	Delivery of a new version of the Marine Modelling Framework (MMF2.0) that is suitable for simulating the major European Regional Seas falling under EU legislation. Existing hydrodynamic and biogeochemical model components will be continuously updated and further developed. The new developments will comprise the inclusion of modelling tools for simulating the fate of litter.	2021-12-31	Sci information systems and databases	N
																	3034921	012022	MSFD review, monitoring and assessment of marine litter	Delivery of comprehensive reports on the methodology, the process and the achieved results in establishing baselines, thresholds and trends for descriptor D10, done in close collaboration with all relevant stakeholders, through the MSFD Technical Group. Report on the evaluation of the MSFD review process, supporting the Art.23 revision foreseen for 2023. Deliverable summarising the review of Member States reports to the Commission in fulfilment of the MSFD requirements. Report on supporting MSFD comparable assessments with EU neighbouring countries and marine policy frameworks, such as the Mediterranean Action Plan, the Black Sea Commission , the Arctic Council and at global level.	2022-12-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3034922	022022	Modelling of marine litter	Delivery of a comprehensive analysis/evaluation based on the simulations performed by the Marine Modelling Framework (MMF2.0) for the major European regional seas falling under EU legislation. This deliverable will specifically analyse and assess the consequences of different policy and climate scenarios (e.g., MSFD, CFP and IPCC scenarios) on the ecosystem status, comprising hydrodynamics, biogeochemistry and food web. The results produced by the MMF2.0 shall allow evaluating how political decisions and programs against plastic litter could affect the Good Environmental Status of the marine ecosystems downstream and identify gaps/limitations that need to be addressed by the current regulations to ensure the sustainable use of our oceans.	2022-12-31	Sci information systems and databases	N
1. A European Green Deal	1.7 Oceans and fisheries	20166	BlueSeaEco	Oceans, Coastal Areas and the Blue Economy	JRC.D.2	31140	PLASTIC-WEB	Tracing microplastics up the EU marine food webs: implications for marine biodiversity and EU ecosystem services	The PLASTIC-WEB project contributes to the Exploratory Research (ER) Programme. The main goal of the ER project PLASTIC-WEB is to study the impact of the plastic pollution up to the marine food webs. For more than 50 years, global production and consumption of plastics have continued to rise. Around 70% of all litter in the sea is plastic that breaks down into ever smaller pieces, rather than decomposing. Therefore, plastics in the ocean and in the marine food web have become a serious global environmental problem. Additional to the well-known direct and deadly effect on wildlife, aquatic plastic pollution can induce chemical contamination of the food chain. However, there is still a huge knowledge gap on the impact of microplastic on the environment and human health as described by the EU Commissions scientific advice mechanisms (SAPEA, 2019; SAM, 2019). For example, microplastic can accumulate hazardous chemicals such as POPs like PBDEs, PAHs and PCBs and can potentially transfer these compounds into animal fatty tissue. Once present in fat tissue, enrichment across the marinefood chain might occur. The tiny plastics fragments are also a source of chemical contamination, when their additives or monomers are enriched in plastics-ingesting animals and are a serious concern both for environmental and human health. Even if highly needed, currently no models are available to provide policy makers with information on the accumulation of microplastics in the food web. This exploratory research project aims at filling this gap by linking/coupling different model types together and working/collaborating with top experts in	JRC.D.2	ENV	JRC	MARE RTD SANTE	2021-04-01	2023-03-31	INS-ER	3071601	2	Ecotracer module	Development of Ecotracer module to quantify temporally and spatially the accumulation of microplastic throughout the Mediterranean and Black Sea food webs (from plankton to marine mammals/seabirds)	2022-09-30	Journal contributions (Clarivate)	N
																	3071602	3	Plastic pollution and ecological status of the European southern seas	Evaluation of the ecological status of the European southern seas in relation to plastic pollution and potential implication/impact on biodiversity and ecosystem services.	2023-01-31	Journal contributions (Clarivate)	N
																	3071603	4	PLASTIC-WEB areas	Identify and quantify main impacted areas where the interaction between marine biodiversity and plastic is more pronounced.	2023-02-28	Journal contributions (Clarivate)	N
																	3071604	1	PLASTIC-WEB database	Creation of a database with input data needed for model construction (e.g. plastic concentration, plastic consumption rates per functional group)	2022-01-31	Journal contributions (Clarivate)	N
																	3076203	5	Reporting	Writing a report or a peer-reviewed publication	2023-02-28	Journal contributions (Clarivate)	N
1. A European Green Deal	1.8 Agriculture and food systems	20040	FSSH	Food Safety, Sustainability and Health	JRC.F.4	30034	KCFFQ	Knowledge Centre for Food Fraud & Quality	Prevention of fraud in the agri-food chain and promotion of authentic products is a major element to assure the commercial success of European high-value agri-food products on the internal as well as on international markets. Food fraud does not respect physical borders; therefore, the fight against food fraud calls for an international approach involving cooperation and consultation among all stakeholders at all levels of the food chain. This has been recognised by including the fight against food fraud in the Farm-to-Fork strategy, which is part of the New Green Deal initiative.The European Commission Knowledge Centre for Food Fraud and Quality, which was created as one of several initiatives taken by the European Commission to strengthen the fight against food fraud, will provide scientific insight for the policy making of Commission services dealing with food fraud and the creation of expert networks with the competent authorities of the EU Member States. Fraud goes in some instances beyond the mere economic profit and interfaces with criminal networks. Consequently, the project will interface with law enforcement agencies such as Europol/Interpol and OLAF to support their programmes to crack down on agri-food crime by providing forensic labortory evidence. Quality related characteristics of food are higly valued by consumers and promoting them provides businesses opportunities for produocers and retailers. Consumers in several Member States expressed concerns that the conceived quality of branded products offered on their markets is not the equivalent to the same products offered on other markets in the EU. Therefore, the project will	JRC.F.4	SANTE	AGRI RTD SANTE JRC	AGRI JUST OLAF	2021-01-01	2025-12-31	CON-AA CON-AA CON-AA INS-RS	3002594	2	Support to Tobacco Products Directive (tobacco/e-cigarettes)	A progress report on the developments in the field of standardisation of e-cigarettes taken into consideration the activities of the CEN TC 437 will be issued.	2021-12-31	Technical Reports	N
																	3002595	3	Annual reports of activities of the network of Member States experts for monitoring water the content in poultrymeat	The JRC will set the agenda for the annual NRL meeting, collect and evalute the monitoring data submitted by the Member States and will, if appropriate, also be involved in the preparation and evaluation of a collaborative trial for the validation of methods to determine the water and protein contents in poultrymeat. The JRC is explicitly requested to chair the meeting by Commission Regulation (EC) No 543/2008. Annual reports will be prepared for 2021 and 2022.	2022-12-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3002596	4	Operation of the European Reference Centre for Control in the Wine Sector (ERC-CWS)	Commission Delegated Regulation (EU) 2018/2731 and Commission Implementing Regulation (EU) 2018/2742 requires wine producing Member States to generate isotopic measurement data on authentic wine samples and the JRC to collect the data and curate the European Wine Database. Next to this obligation, the project will organise a PT scheme to assess the measurement capabilities of the nominated national laboratories, issue harmonised guidelines for interpreting isotopic measurement data to assist national authorities in cross-border control activities, and develop metabolomics based approaches to authenticate wines. Annual report will be prepared summarising activities of the 2021 and 2022 work programme.	2022-12-31	Technical Reports	N
																	3002597	5	Operation of the Knowledge Centre for Food Fraud and Quality	Annual reports of the activities of the Knowledge Centre for Food Fraud and Quality, including the outcome of a workshop with Member States' competent authorities and COM services to identify knowledge gaps and identify and prioritize needs for diagnostic tests, infrastructures, best practice guidance, and technical assistance.	2022-12-31	Technical Reports	N
																	3002598	6	Summary of risk assessments of New Psychoactive Substances (NPS) 2021	A summary of the risk assessment conducted on NPS in 2019 by the extended scientific committee of EMCDDA will be edited. The risk assessment reports are the base for further decision for ban of certain substances by the EU institutions (Commission, Council).The JRC delegate is the scientist representative from the Commission participating in the EMCDDA meetings for risk assessment of new substances. The report will present elements regarding the implementation of the legislative package on NPS adopted in November 2017 (DIRECTIVE (EU) 2017/2103 and Regulation (EU) 2017/2101 of the European Parliament and of the Council)	2021-12-31	Technical Reports	N
																	3013519	7	JRC Food Fraud Report	The Knowledge Centre for Food Fraud and Quality produces monthly reports of food fraud cases reported in the media by using MedISys and distributes the information to COM services, the competent authorities in the Member States and relevant food chain stakeholders. The monthly reports will be compiled and published as an annual overview in 2021 and 2022.	2022-01-31	Technical Reports	N
																	3013520	8	Observatory to support cross-boarder comparisons of quality related characteristics of branded goods	The feasibility for establishing a monitoring system to collect quality related data on certain products on a permanent basis in order to perform comparisons across countries will be studied. The feasibility study will explore existing ICT solutions for the on-line collection of product content data, evaluate their strength and weaknesses, and propose options for the creation of a permanent mechanism for recurrently surveying specific sectors of the Internal Market that can be used by Member States' competent authorities and other food chain stakeholders to flag potential cases of product differentiation for follow-up investigations.	2021-11-30	Technical Reports	N
																	3013521	9	Scientific publications	The research outcomes of the project will be published in peer-reviewed journals	2022-12-31	Journal contributions (Scopus)	N
																	3107424	10	Combat Agri-Food Fraud Report	The report will summarise the outcome of different work streams dealt with in the projec, viz. i) support to the technical implementation of an EU Coordinated Control Plan for undeclared extension of honey with sugar syrups; ii) harmonisation of methods for the detection of beeswax with paraffin/stearin; iii) harmonisation of methods for the detection of non-authorised treatment of tuna fish; iv) design principles for an information system for detecting fraud in the supply chain.	2023-12-01	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20040	FSSH	Food Safety, Sustainability and Health	JRC.F.4	30035	SUST-EAT4HEALTH	Sustainable diets for healthy people, societies and planet	In 2020 the European Commission has published its Farm to Fork (F2F) Strategy, a key pillar of the European Green Deal (EGD). The EGD and F2F strategy mark a paradigm shift, moving from agriculture and food production to sustainable food systems, embracing not only sustainable production but also sustainable consumption aiming at healthy people, healthy societies and a healthy planet. This project, SUST-EAT4HEALTH, focusses on food consumption. It provides - with a food systems approach - knowledge and tools for policies that promote healthy and sustainable food preferences and helps enabling citizens to increase control over, and improve their and our planet's health. Knowledge of what works to improve the healthiness and sustainability of diets in the EU and tools, such as methods and data to assess the current situation, monitoring the effectiveness of existing policies or assessing the impact of policy options, are key to implementing effective policies. Achieving healthier and more sustainable diets is key in the aim to transition to a sustainable food system in the EU that creates co-benefits for health. Only a simultaneous transition to sustainable practices of all elements of a food system from production to consumption can create the positive feedback loops and mechanisms necessary to achieve the ambitious targets in the F2F strategy and EGD, respectively. The JRC has built expertise and capacities as well as partnerships inside (SANTE.C & SANTE.E, AGRI, CNECT, EAC) and outside (MS, WHO, UNICEF, FAO, scientific community) over many years in supporting healthy food preferences and diets with concepts that	JRC.F.1	SANTE	SANTE SANTE JRC	AGRI CNECT JUST	2021-01-01	2022-12-31	CON-AA CON-AA CON-AA INS-RS	3003110	1	Web-based food explorer	This will be a web application that allows exploring and accessing food information data collected across EU MS with public funds. It will be a tool used for JRC assessments in support of policy making, including impact assessments	2022-12-31	Sci information systems and databases	N
																	3010566	2	Health Promotion and Disease prevention Knowledge gateway briefs	Web-based technical reports providing reliable, independent and up-to date information on topics related to the Farm to Fork strategy including on promotion of health and well-being, as well as on the prevention of non-communicable diseases like cardiovascular disease, diabetes and cancer.	2022-12-31	Technical Reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3010567	3	Knowledge for Farm to Fork Actions related to food consumption	Upon agreement with partner DGs, in particular DG SANTE, literature reviews, data analyses, impact evaluations and assessments of policy options providing knowledge to support policy formulation and adaptation of F2F actions, such as on front-of-pack nutrition labelling schemes, setting nutrient profiles, composition of baby foods or maximum levels of certain nutrients in foods.	2022-12-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20040	FSSH	Food Safety, Sustainability and Health	JRC.F.4	30036	FS	Food Safety	The success of the Farm-to-Fork Strategy relies, among others, on food and feed safety (FFS) warranted at all times. The EU needs sustainable food systems at the highest safety standards. New risks in food production and FFS-related crises will continue to emerge, posing a threat to the fulfillment of those strategic objectives and increasing the need for scientific data, methodologies, expertise and scientific advice on new and complex food safety questions. This project builds on the competences the JRC has to address rapidly-evolving situations of concern in the food chain. It is particularly focused on safety aspects arising from food contact materials (FCMs) use. Those are critical components in the food chain to ensure food safety (processing equipment, transport and preservation packaging, kitchenware, etc.), involving many materials (paper and board, recyclable and compostable plastics, ceramics, etc.). However, a potential transfer of substances of concern from FCMs into food may occur at various food chain stages and their safe use shall be assessed. This food safety project is also addressing new topics of concern in the context of the F2F strategy, namely the use of eco-friendly recycled plastics for food contact applications, the reliable food allergens information to consumers and insects used as more sustainable protein source for feed and food. The project operates in a wide regulatory context that comprises, among others, the General Food Law (Regulation (EC) No 178/2002), the legislation on Official Controls (Regulation 2017/625 (EU)) including the hosting and operation of the EU Reference	JRC.F.5	SANTE	SANTE SANTE JRC	(blank)	2021-01-01	2025-12-31	CON-AA CON-AA INS-RS	3023542	FCM2	Food Contact Materials activities in 2022	The deliverable provides for 2022 a comprehensive overview of all activities carried out by the European Union Reference Laboratory for Food Contact Materials according the tasks legally mandated by the relevant Regulations. The deliverable includes information on analytical methods used and/or developed, preparation, execution and follow-up of comparative (proficiency) testing studies, support to the network of NRLs, organisation of the annual NRLs workshop, trainings set-up and provided by the EURL FCM, and the scientific and technical support provided to the Commission and other stakeholders. This broad deliverable also groups under this chapeau all possible scientifc outputs, typically of cat. 2.2.x, generated by the FCM activities and registered in PUBSY.	2022-12-31	Technical Reports	N
																	3023543	FCM1	Food Contact Materials activities in 2021	The deliverable provides for 2021 a comprehensive overview of all activities carried out by the European Union Reference Laboratory for Food Contact Materials according the tasks legally mandated by the relevant Regulations. The deliverable includes information on analytical methods used and/or developed, preparation, execution and follow-up of comparative (proficiency) testing studies, support to the network of NRLs, organisation of the annual NRLs workshop, trainings set-up and provided by the EURL-FCM, and the scientific and technical support provided to the Commission and other stakeholders. This broad deliverable also groups under this chapeau all possible scientifc outputs, typically of cat. 2.2.x, generated by the FCM activities and registered in PUBSY.	2021-12-31	Technical Reports	N
																	3023555	=SACT2021	Report on activities carried out in 2021 on allergens detection and measurement, safe use of recycled plastics for food contact applications and the safe use of insects in feed or food	Non-public comprehensive overview of the support provided to the Commission / DG SANTE in 2021, related to i) the deployment by the JRC of a robust allergens detection and measurement methodology, ii) the identification of potential sources of incidental contamination and robust methods for monitoring contaminants in plastic recycling for the safe use of recycled plastics for food contact applications, and iii) the development of an analytical methodologies / strategy to monitor potential contaminants in 'food-grade' insects used in feed or food. This broad deliverable also groups under this chapeau all possible scientifc outputs, typically of cat. 2.2.x, generated by the allergens, plastic recycling and insects activities and registered in PUBSY.	2021-12-31	Technical Reports	N
																	3023556	=SACT2022	Report on activities carried out in 2022 on allergens detection and measurement, safe use of recycled plastics for food contact applications and the safe use of insects in feed or food	Non-public comprehensive overview of the support provided to the Commission / DG SANTE in 2022, related to i) allergens detection and measurement methodologies, ii) the identification of potential sources of incidental contamination and robust methods for monitoring contaminants in plastic recycling for the safe use of recycled plastics for food contact applications, and iii) the development of an analytical methodologies / strategy to monitor potential contaminants in 'food-grade' insects used in feed or food. This broad deliverable also groups under this chapeau all possible scientifc outputs, typically of cat. 2.2.x, generated by the allergens, plastic recycling and insects activities and registered in PUBSY.	2022-12-31	Technical Reports	N
																	3023598	SEMER2021	Report on food safety emergency-related activities carried out in 2021	Non-public comprehensive overview of possible support provided in 2021 to the Commission / DG SANTE, related to emergency actions in response to food or feed crises requiring the expertise and know-how of the JRC in analytical methods and performance evaluation thereof or of national laboratories handling such crises.	2021-12-31	Technical Reports	N
																	3023599	SEMER2022	Report on food safety emergency-related activities carried out in 2022	Non-public comprehensive overview of possible support provided in 2022 to the Commission / DG SANTE, related to emergency actions in response to food or feed crises requiring the expertise and know-how of the JRC in analytical methods and performance evaluation thereof or of national laboratories handling such crises.	2022-12-31	Technical Reports	N

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1. A European Green Deal	1.8 Agriculture and food systems	20040	FSSH	Food Safety, Sustainability and Health	JRC.F.4	30037	MA	Market Authorisations	Feed additives (FAs) are widely used in the animal husbandry sector and must be authorised before marketing in the EU. The authorisation process requires the availability of a suitable analytical method to control a given FA on the market. The EU has set up a comprehensive legal framework regulating products derived from GMOs ('genetically modified food and feed' – GMFF). It relies on an evidence-based authorisation of GMFF products and a uniform implementation of safety and labelling legislation across all Member States. EU-wide harmonised approaches for compliance checking of products originating within the EU or arriving from third countries at EU borders are thus essential. Consequently, reliable measurement methods and competent control laboratories are required for a trustworthy food and feed chain and working of the F2F Strategy. To support the assurance of market compliance and the proper authorisation of FAs and GMFF, the JRC hosts and operates two EU Reference Laboratories, one for GMFF and one for FAs. Thanks to these EURL operations, the JRC enhances its science knowledge in the GMO and FA analyses areas and underpins pre-normative research and international standardisation developments. Still in the context of the F2F strategy, given the extensive scientific experience of the JRC in the GMO area, the Commission services are asking for help in responding to requests, among others from the Council, to assess the detectability and traceability of organisms of agronomic interest created using new	JRC.F.5	SANTE	ENV SANTE SANTE SANTE SANTE JRC	ENV	2021-01-01	2025-12-31	CON-AA CON-AA CON-AA CON-AA CON-AA INS-RS	3022032	DCM2	Support to DG ENV in 2022 on the evaluation of Drinking Water Contact Materials	Deliverable "Summary progress report" in Annex I of the AA. Non-public report about the support provided to DG ENV in 2022: i) input given on methodologies for testing and accepting starting substances, compositions and materials / products, ii) JRC proposals on technical aspects to be included in implementing / delegated acts, iv) scientific/technical input to standardisation mandates and JRC collaborations with standardisation bodies for DCMs.	2022-12-31	Technical Reports	N
																	3022033	DCM1	Support to DG ENV in 2021 on the evaluation of Drinking Water Contact Materials	Deliverable "Summary progress report" in Annex I of the AA. Non-public report about the support provided to DG ENV in 2021: i) input given on methodologies for testing and accepting starting substances, compositions and materials / products, ii) first proposals on technical aspects to be included in implementing / delegated acts, iii) report on current and draft standards relevant to DCMs, and iv) scientific/technical input to standardisation mandates and JRC collaborations with standardisation bodies for DCMs.	2021-12-31	Technical Reports	N
																	3022267	FA1	Feed additives activities in 2021	Comprehensive overview for the year 2021 for the feed additives activities, comprised of the two components, namely regarding "authorisation" and "control" activities. The part regarding "authorisation" covers all method evaluation reports, the workshop and ad-hoc support to DG SANTE and/or EFSA. The part regarding "control" includes reports on the results of the proficiency test and/or trainings, the annual reports and ad-hoc support to DG SANTE. This broad deliverable also groups under this chapeau all possible scientifc outputs, typically of cat. 2.2.x, generated by the FA activities and registered in PUBSY.	2021-12-31	Technical Reports	N
																	3022268	FA2	Feed additives activities in 2022	Comprehensive overview for the year 2022 for the feed additives activities, comprised of the two components, namely regarding "authorisation" and "control" activities. The part regarding "authorisation" covers all method evaluation reports, the workshop and ad-hoc support to DG SANTE and/or EFSA. The part regarding "control" includes reports on the results of the proficiency test and/or trainings, the annual reports and ad-hoc support to DG SANTE. This broad deliverable also groups under this chapeau all possible scientifc outputs, typically of cat. 2.2.x, generated by the FA activities and registered in PUBSY.	2022-12-31	Technical Reports	N
																	3022273	GMO1	Report on the EURL GMFF activities fulfilling its legal mandates in 2021	The document provides for the year 2021 a comprehensive overview of all activities carried out by the European Union Reference Laboratory for GMO Food and Feed according to the tasks mandated by Regulation (EC) No 1829/2003 (for GMO authorisations) and Regulation (EU) 2017/625 (for GMO official control). The deliverable includes information on method validation, preparation and execution of comparative (proficiency) testing studies, steering and managing the European Network of GMO Laboratories (ENGL), support to National Reference Laboratories, scientific and technical support to the Commission (e.g. in case of unauthorised products on the market). The deliverable emphasises the EURL GMFF actions resulting in a clear policy impact and contributing to the functioning of the EU legal framework on GM food and feed products. This broad deliverable also groups under this chapeau all possible scientifc outputs, typically of cat. 2.2.x, generated by the GMO activities and registered in PUBSY	2021-12-31	Technical Reports	N
																	3022280	GMO2	Report on the EURL GMFF activities fulfilling its legal mandates in 2022	The document provides for the year 2022 a comprehensive overview of all activities carried out by the European Union Reference Laboratory for GMO Food and Feed according to the tasks mandated by Regulation (EC) No 1829/2003 (for GMO authorisations) and Regulation (EU) 2017/625 (for GMO official control). The deliverable includes information on method validation, preparation and execution of comparative (proficiency) testing studies, steering and managing the European Network of GMO Laboratories (ENGL), support to National Reference Laboratories, scientific and technical support to the Commission (e.g. in case of unauthorised products on the market). The deliverable emphasises the EURL GMFF actions resulting in a clear policy impact and contributing to the functioning of the EU legal framework on GM food and feed products. This broad deliverable also groups under this chapeau all possible scientifc outputs, typically of cat. 2.2.x, generated by the GMO activities and registered in PUBSY	2022-12-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3022281	NGT	Report on JRC response to support request from Council and Commission on new genomic techniques	Report describing the work done by the unit in responding to the special request for scientific support (Council Decision (EU) 2019/1904 and SANTE requests) in the area of new biotechnology / genomic techniques.	2021-06-30	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20040	FSSH	Food Safety, Sustainability and Health	JRC.F.4	30038	SafetyF2F	Safe and sustainable food	The Farm to Fork Strategy aims at a fair, healthy and environmentally-friendly food system. Food safety is a prerequisite inherently included in a sustainable food system. The aim of this project is to contribute to the evolution and establishment of an EU legal framework that supports sustainable food systems while ensuring food safety. We will explore how the safety assessment of chemicals can be integrated with food sustainability assessment. This comprises the need to reduce the use of hazardous pesticides while preserving the longevity of food quality and considering the economic viability of food production. We will e.g. contribute to the improvement of indicators to measure progress in reaching the targets of sustainable pesticide use, in reducing the use and risks of pesticides to human health and the environment. Chemicals of concern in the food chain may include residues of plant protection products and veterinary medicines, biocidal products (anti-microbials), as well as contaminants inadvertently introduced during food processing, packaging and distribution. In addition, naturally occurring toxins (e.g. algal toxins, mycotoxins) may pose health threats to fishstock, livestock and humans. Due to the combined exposures of chemicals in food, chemicals of concern should be considered alongside intentionally added chemicals such as food and feed additives. We will therefore investigate how the risk assessment of such food-relevant chemicals can be optimised to cover food production, food processing and food distribution, taking cost-benefit considerations into account. In this context, costs and benefits should reflect a broad range of sustainability considerations, including the protection	JRC.F.3	SANTE	JRC	AGRI ENV GROW	2021-01-01	2025-12-31	INS-RS	3015123	2	Implications for the risk management of chemicals within the context of sustainable food systems	Analysis of the costs and benefits of chemical risk management measures along the food chain, with a view to informing a holistic assessment of food sustainability	2022-07-31	Science for Policy reports	N
																	3015124	1	Developing the chemical safety-food sustainability nexus for coherent EU legislation	Identification of the societal, environmental and economic factors underpinning food sustainability, and assessment of how well they can be quantified	2022-10-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20040	FSSH	Food Safety, Sustainability and Health	JRC.F.4	30891	MAHONEY	Combination of mapping landscape suitability for honeybees and advanced chemical analysis of honey to target geographical regions vulnerable to honey fraud	The MAHONEY project contributes to the Exploratory Research (ER) Programme. The main goal of the ER project MAHONEY is to test a novel and innovative approach to help detect fraud in honey in the European market. It will combine high-resolution mapping of honeybee habitat suitability with advanced chemical analysis of honey, to identify areas of production which are potentially more vulnerable to honey fraud. The proposal is exploratory and goes beyond traditional intra-field/discipline approaches by combining JRC knowledge and competences; it is a good example of 'thinking out of the box'. The starting scientific hypothesis should be reformulated in the sense the hypothesis should contemplate all possible correlations between the suitability of the environment for honey production and the number of fraud incidents. Recognising this, the project has a clear potential impact on societal and policy challenges as the outcome may contribute to the definition of a more efficient strategy for sampling for inspection.	JRC.F.4	SANTE	JRC	AGRI ENV SANTE	2019-01-16	2021-03-31	INS-ER	3030072	HD1	Outcomes of the projects including honeybee habitat maps, modelling of the landscapes suitability, results of analytical measurements, frauds detected and conclusions.	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project.	2021-03-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20147	PATH2SUS	The agri-food sector in a resilient economy and transition towards sustainable food systems	JRC.D.4	30353	FSsquare	Food System and Sustainability in the Economy	The project will focus on aspects related to the sustainability of the CAP and the strategic national plans of the MS in particular determining links and policy coherence, modelling capacity on climate adaptation, assessing growth and employment actions in rural areas. This will be complemented by ex-ante policy impact, 'what if' scenarios using macroeconomic, and identification of MS policy options impact at EU. It will deal with the evaluation in a holistic manner (i.e. with a CGE model) in terms of impact of the CAP on the whole economy (including production, markets and trade effects) and in the EU wherever possible identifying the individual contribution of MS.	JRC.D.4	AGRI	JRC	CLIMA EAC ENV INTPA JRC RTD	2021-01-01	2023-12-31	INS-RS	3047088	00	to be deleted	to be deleted	2021-10-31	Technical Reports	N
																	3047089	1	Scenario analysis of key CAP objectives and Member States' Strategic Plans in a systemic modelling approach	This report describes various scenario analyses of key CAP objectives and Member States' Strategic Plans in a global, multi-region, multi-sector modelling approach. The MAGNET model will be further developed to depict the food system with all its sustainability dimensions and key policies and strategies (e.g. Green Deal, F2F, BD, CEAP, Bioeconomy). This enables to deliver a holistic perspective of the food system and its drivers and to identify the impact on environmental, economic, social indicators.	2021-12-31	Science for Policy reports	N
																	3047090	0	to be deleted	to be deleted	2021-06-30	Technical Reports	N
																	3047332	2	Scenario analysis of key CAP objectives and Member States' Strategic Plans in a systemic modelling approach	This report describes various scenario analyses of key CAP objectives and Member States' Strategic Plans in a global, multi-region, multi-sector modelling approach. The MAGNET model will be further developed to depict the food system with all its sustainability dimensions and key policies and strategies (e.g. Green Deal, F2F, BD, CEAP, Bioeconomy). This enables to deliver a holistic perspective of the food system and its drivers and to identify the impact on environmental, economic, social indicators.	2022-12-31	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.8 Agriculture and food systems	20147	PATH2SUS	The agri-food sector in a resilient economy and transition towards sustainable food systems	JRC.D.4	30357	AGRIREGIO	Territorial aspects of agriculture in the EU	The AgriRegio project will provide specific policy assessments with the CAPRI and AgMemod models in policy areas such as biomass, water and soil, focusing on the impacts on natural resources with a regional spatial resolution. Economic analysis will cover EU and international impacts of the national implementation proposals of the Common Agricultural Policy (strategic Plans), including specific targets such as reduction of pesticides, antibiotics, fertilizers and greener farmers' practices including organic agriculture). The impacts of multiple EU policy initiatives (the Common Agriculture Policy, Biodiversity Strategy, Farm to Fork Strategy, Climate Neutrality, etc.) under the responsibility of different line DGs (AGRI, CLIMA, ENV, SANTE, etc.) are analysed through quantitative modelling approaches. The starting point is the elaboration of a harmonized baseline for the agricultural markets across the models in use. A focus area of the aimed agricultural policy analysis is the impact of such policies on natural resources, including land, water and soil. The quantitative analysis of agricultural policy impacts on natural resources requires a modelling tool with high spatial resolution of the EU agriculture. Within the iMAP modelling platform of the JRC, the CAPRI model plays a pivotal role for economic and environmental analysis at the regional (NUTS 2) level, while the AgMemod model works at the country level. This project will provide specific policy assessments with these models in relevant policy areas such as biomass, water and soil. Moreover, taking advantage of model linkages between CAPRI and other	JRC.D.4	AGRI	JRC	CLIMA ENV	2021-01-01	2022-12-31	INS-UR	3002094	2	Model ad-hoc versions	The CAPRI and AgMemod core models are to be customized in order to perform ad-hoc policy support (sceanrio analysis) on agricultural and/or environmental policies, with a focus on the sustainability of natural resources (domains such as water, erosion and biomass). In addition the necessary model developments, database updates and improved links between iMAP modelling tools will be performed. The customized model versions will be applied for policy support (scenario analysis) for DG AGRI. The scenarios will be related to the impacts of the Common Agricultural Policy post 2020 and Green Deal policy initiatives on EU agriculture.	2022-12-31	Technical Reports	N
																	3002095	1	Model ad-hoc versions	The CAPRI and AgMemod core models are to be customized in order to perform ad-hoc policy support (sceanrio analysis) on agricultural and/or environmental policies, with a focus on the sustainability of natural resources (domains such as water, erosion and biomass). In addition the necessary model developments, database updates and improved links between iMAP modelling tools will be performed. The customized model versions will be applied for policy support (scenario analysis) for DG AGRI. The scenarios will be related to the impacts of the Common Agricultural Policy post 2020 and Green Deal policy initiatives on EU agriculture.	2021-12-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20147	PATH2SUS	The agri-food sector in a resilient economy and transition towards sustainable food systems	JRC.D.4	30358	AgriMarkets	Perspectives and resource challenges for global agricultural markets	The Aglink-Cosimo and CAPRI models are key models for the analysis of perspectives and resource challenges for global agricultural markets. On the one side, Aglink-Cosimo is a global recursive-dynamic model developed by the OECD and the FAO in joint collaboration. The EU Commission is an official model user, and provides the OECD on a yearly basis a hard view on the most-likely developments of EU agricultural markets. On the other side, the CAPRI model is used by the JRC in the context of the AgMIP project (Agricultural Model Inter-comparison and Improvement Project). The AgMIP project is involved in assessing the state of global agricultural modelling and to understand climate impacts on the agricultural sector. In this project work is proposed to enhance the current analysis.	JRC.D.4	AGRI	JRC	JRC	2021-01-01	2022-12-31	INS-UR	3013420	2	AGMIP Project	Analysis of climate change impacts in agriculture in a long-term horizon. This work implies working together with the international community working on climate change adaptation, most notably the AGMIP consortium. The JRC contribution to this project is analysis for different long-term scenarios (with and without climate change, with and without stringent mitigation policies) with the CAPRI model.	2021-08-31	Sci information systems and databases	N
																	3013421	1	EU Market Outlook and scenario analysis	The Aglink-Cosimo model is further developed in order to assess the EU-Outlook work by performing scenario analysis, both from a deterministic and stochastic view point. This includes going into new areas of work such as (non-exhaustive list): environmental indicators, medium to long term analysis of agricultural markets, dietary patterns and weather anomalies.	2021-12-31	Sci information systems and databases	N
1. A European Green Deal	1.8 Agriculture and food systems	20147	PATH2SUS	The agri-food sector in a resilient economy and transition towards sustainable food systems	JRC.D.4	30359	AgriFarm	Agricultural policy impact analyses at micro and regional level	The main objectives of this project are to provide policy support in areas of farm and disaggregated regional level economic and environmental impacts of agricultural and related policies in the EU. This project responds to the scientific policy support needs required to deliver an in-depth understanding of policy effects and economic developments at detailed micro level in the agri-food sector. The scientific policy support is linked in particular to the CAP reform process and the Commission's European Green Deal, the European Commission Green Agenda for the Western Balkans (WBs), and the Instrument for Pre-accession Assistance in Rural Development (IPARD). This project is part of the yearly policy support provided to DG AGRI based on the iMAP4AGRI administrative arrangements.	JRC.D.4	AGRI	AGRI JRC	(blank)	2021-01-01	2022-12-31	CON-AA CON-IA INS-RS	3001883	1	CAP policy impact analyses at farm/regional level	Farm level CAP policy impact analyses. Report related to analysing impacts of selected CAP measures at farm level, through the IFM-CAP model or other quantitative tools. This deliverable is part of the regular policy support provided to DG AGRI based on the iMAP4Agri administrative arrangement.	2021-12-31	Whole parts of policy documents	N
																	3001897	2	Study of the adoption of GHG mitigation technologies by EU livestock farmers	The objectives of the study are four: (1) Assess at EU level the implementation of the different technologies and agricultural practices that can contribute to improve the productivity in the EU livestock sector and reduce GHG emissions at the same time. (2) Select a couple of case studies in the EU based on a combination of agricultural practice-technology/animal/EU region based on criteria defined for that purpose. (3) Survey of EU livestock farmers in the two case studies to calculate the current and potential adoption of the selected technologies-agricultural practices in the EU assessing both the drivers and barriers. (4) To empirically quantify the impact on farm economics and productivity as well as on the GHG emissions reduction.	2021-12-31	Technical Reports	N
																	3001906	3	CAP policy impact analyses at farm/regional level	Farm level CAP policy impact analyses. Report related to analysing impacts of selected CAP measures at farm level, through the IFM-CAP model or other quantitative tools. This deliverable is part of the regular policy support provided to DG AGRI based on the iMAP4Agri administrative arrangement.	2022-12-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3087606	4	Agricultural policy reforms and EU approximation process in the Western Balkans	Report on evaluation of policy reforms and approximation process with the EU acquis in agriculture and rural development in the Western Balkans and scientific policy support to improve the implementation of IPARD programmes	2021-12-31	Technical Reports	N
																	3087607	5	Research, innovation and technology transfer capacities and the functioning of agri-food sector in the Western Balkans	Report on research, innovation and technology transfer capacities in the agro-food sector in the Western Balkan countries. Evaluation of the functioning of agri-food sector and its implications for economic and environment sustainability.	2022-12-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20147	PATH2SUS	The agri-food sector in a resilient economy and transition towards sustainable food systems	JRC.D.4	30360	iMAP4AGRI 21-22	integrated Modelling platform for Agro-economic and resource Policy analysis	The JRC Agro-Economic Modelling Platform iMAP has developed into a cornerstone of the JRC economic and environmental modelling capacity. Since nine years it receives key funding from DG Agriculture and Rural Development. The iMAP administrative arrangements take account of DG AGRI being an important user of quantitative economic analysis based on modelling tools, both for its market analysis and for its domestic and trade policy analysis. The use of models has now become an indispensable tool in the preparation and negotiation of policy decisions (e.g. Common Agricultural Policy (CAP) reform, bilateral/multilateral negotiations, environmental and rural development analysis, climate change discussions etc.). Validated economic models are crucial for providing a scientific basis for the evaluation and further design of EU policies. Databases provide the necessary input to ensure the reliability and consistency of modelling tools employed for agricultural policy analysis. The 11th edition of the AA with DG AGRI (now called iMAP4agri) will cover two years, allowing for a better planning and execution of the agreed work programme. With an expected total budget of 5.4 Mio Euros, it provides 12 FTEs and about 1 Mio Euros specific credits per year. The main objective of iMAP4agri is to further contribute to the Agro-Economic Modelling Platform to support the conception, management, evaluation and analysis of the CAP.	JRC.D.4	AGRI	AGRI	CLIMA ENV JUST SANTE	2021-01-01	2022-12-31	CON-AA CON-AA	3001826	D2	Annual review of Activities 2021	This report will summarize the activities undertaken funded by the AA during 2021	2021-12-31	Technical Reports	N
																	3001827	D1	Interim report #1 Annual Report of activities	This report will summarize the activities undertaken funded by the AA during 2020	2021-12-31	Technical Reports	N
																	3013133	D3	Interim report 1b - activities under ammendment #3 to iMAP4AGRI AA	This report will cover the activities undertaken to respond to the ammendment #3 of the iMAP4AGRI AA about to be signed	2021-12-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20147	PATH2SUS	The agri-food sector in a resilient economy and transition towards sustainable food systems	JRC.D.4	30362	MMFS	Modelling Mitigation in Food Systems	The project 'Modelling Mitigation in Food Systems' will provide assessment of possible mitigation actions in the EU Food System and their effects on all food system sustainability pillars. The term 'mitigation' is used here in a broad sense and covers not only mitigation of climate change or other environmental threats, but also mitigation of nutrition and health aspects. The project will also address wider aspects, such as animal welfare. It will enhance our understanding of mitigation in food system from a technological (in particular agriculture, but also beyond agricultural production), economic, and consumer perspective. The model(s) will provide sustainability scores for ex ante and ex post simulations to reach environmental and health targets, including uptake of mitigation technologies and assessing effects of behavioral changes. It will provide quantitative results in support of actions under the Farm to Fork Strategy, and the Circular Economy Action Plan. The project will give support to international institutions such as the UN-ECE Convention on Long Range Transboundary Air Pollution on the role of Nitrogen in a zero pollution and circular economy. Specifically, the project will contribute to activities and reports under the Task Force on Reactive Nitrogen and its Expert Panels, as well as to projects running under the International Nitrogen Initiative. Support will also be given in the preparation of the UN Food System Summit (end 2021). The project will align with the existing knowledge centre on Global Food and Nutrition Security to promote the EU standards of food system sustainability, thus contributing to a stronger Europe in the world.	JRC.D.5	SANTE	JRC	ENV	2021-01-01	2022-12-31	INS-RS	3022125	2021MMFS	Activity report on 'Modelling Mitigation in Food Systems'	This report will summarize all activities underpinning the scientific basis of a holistic food system assessment, the development of the CAPRI model, as well as results on quantitative assessments of EU food system policies. It will also include support given to international institutions on sustainable food system and food system-environment.	2021-12-31	Technical Reports	N
																	3022128	2022MMFS	Knowledge for dietary guidelines and a food labelling framework in support of transitioning to healthy and sustainability diets	Internal report and/or publications reporting on work in support of Member States in updating dietary guidelines for healthy and sustainable diets as well as in will supporting the F2F strategy action towards proposing an EU food sustainability labelling framework.	2022-12-31	Technical Reports	N
																	3022148	2022MMFS	Activity report on 'Modelling Mitigation in Food Systems'	This report will summarize all activities underpinning the scientific basis of a holistic food system assessment, the development of the CAPRI model, as well as results on quantitative assessments of EU food system policies. It will also include support given to international institutions on sustainable food system and food system-environment	2022-12-21	Technical Reports	N

JRC 2021 - 2022 DETAILED WORK PLAN (JPB extract as of 04 06 2021)

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.8 Agriculture and food systems	20147	PATH2SUS	The agri-food sector in a resilient economy and transition towards sustainable food systems	JRC.D.4	31081	Food Chain	Economic analyses of food supply chains	This project will contribute with the scientific support in areas related to EU policies that focus towards ensuring a fairer functioning of supply chain particularly to address its sustainability and possible market inefficiencies with a particular focus on vulnerable actors such as farmers, small operators, or consumers. The scientific policy support in this project is linked in particular to the CAP post-2020 and the Commission's Farm to Fork Strategy. Collaboration with the knowledge centre for food fraud and quality is envisaged. This project is a part of the yearly policy support provided to DG AGRI based on the iMAP4Agri Administrative Arrangements.	JRC.D.4	AGRI	JRC	AGRI GROW	2021-01-01	2027-12-31	INS-RS	3068420	1	Economic analyses of unfair trading practices, market transparency and farmers' cooperation	Economic analyses of unfair trading practices, market transparency of food value chains and farmers' cooperation. This deliverable is part of the yearly policy support provided to DG AGRI based on the iMAP4Agri administrative arrangement.	2021-12-31	Technical Reports	N
																	3068422	2	The efficiency and sustainability of EU food supply chains	The aim of this deliverable is to conduct economic analyses in the framework of the farm to fork strategy by focusing on the assessment of the efficiency and sustainability of EU food supply chains	2022-12-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20147	PATH2SUS	The agri-food sector in a resilient economy and transition towards sustainable food systems	JRC.D.4	31082	DualFood Econ	Economic assessment of the dual quality of food products in the Single Market	Tests conducted in several Member States have confirmed the presence of differences in composition of seemingly identical, branded food products (DC-SIP) − dual food quality − in home market when compared to products sold in different Member State. The European Parliament and the European Council stressed the importance of tackling the DC-SIP issue and requested the European Commission to investigate these practices and to find a solution at European level. As a response to this request, JRC developed and applied a harmonised methodology in 2018/2019 with the objective to bring further evidence on whether the composition of various branded food products differed among Member States. Further, European Commission undertook changes to regulatory framework to address DC-SIP. In April 2018, the European Commission tabled a proposal for the amendment of the Unfair Commercial Practices Directive 2005/29/EC aimed at introducing more specific rules on the DC-SIP issue. The European Parliament and the Council adopted these amendments on 27 November 2019. Acknowledging that the DC-SIP problem may lead to distortion of consumer choices and may affect the functioning of the single market, the objective of this project is to provide economic analysis of DC-SIP. Collaboration with the knowledge centre for food fraud and quality is envisaged. This project is part of the policy support provided to DG GROW based on the DualFoodEcon2 Administrative Arrangement.	JRC.D.4	GROW	GROW JRC	GROW JUST	2021-01-01	2027-12-31	CON-AA INS-RS	3068427	2	Brand owners' responses to UCPD directive	Analyses of the potential brand owners' responses to the Unfair Commercial Practices Directive 2005/29/EC (UCPD).	2022-12-31	Technical Reports	N
																	3068428	1	Consumers' perception of differences in packaging	Analyses of the consumers' perception of differences in packaging of seemingly identical branded food products	2021-12-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20149	CAP in GD	Assessing the CAP's environmental, climate and health performance	JRC.D.5	30490	ES4AGRI	Ecosystems Services in Agricultural land	The decline of biodiversity in farmland (pollinator insects, butterflies, birds) is reported by several sources, coupled to a loss of ecosystems functionality. Moreover, degrading condition of agroecosystems is linked to the loss of regulating ecosystem services (e.g. mitigation of soil erosion, pollination, natural pest control, soil fertility) supporting agricultural production. The Mid-Term Review of the EU Biodiversity Strategy to 2020 states that there has been no significant progress towards Target 3 on agriculture (maximise areas under agricultural management covered by biodiversity-related measures under the CAP, contributing to enhance sustainable management), while the Evaluation of the impact of the CAP on habitats, landscapes and biodiversity comes to the conclusion that the CAP has not been sufficient to counteract the pressures on biodiversity from agriculture, either in semi-natural habitats or on more intensively managed farmland. Streamlining of cross-policy efforts is needed, to better target and improving the efficiency of measures on the ground. This is now recognised by the European Green Deal, which sets Restoring biodiversity as a main objective, by identifying Biodiversity and Farm to Fork Strategies as key policy areas. In line with the Green Deal goals, the new Common Agricultural Policy 2021-2027 sets as one of its nine objectives the preservation of landscapes and biodiversity. Moreover, streamlining across policies (agricultural, environmental, climate) is necessary to improve their effectiveness in reaching environmental targets. The JRC is in a unique position to analyse biodiversity targets across policies, to	JRC.D.5	ENV	JRC	AGRI CLIMA ENV ESTAT SANTE	2021-01-01	2022-12-31	CON-IA CON-IA INS-RS	3040143	2	Ecosystem services in agricultural modelling	The deliverable is a report describing criteria to embed in economic and/or environmental modeling positive outcomes deriving from harnessing biodiversity and ecosystem services in agricultural land. The first part of the deliverable will describe the most appropriate solution between embedding the modeling in an agricultural economic model (e.g. CAPRI) vs building a stand-alone environmental model. The second part will analyse how information available in the HealtyES project (natural capital accounting) and from literature meta-analysis can be used to model positive outcomes of ecosystem services (e.g. pollination,natural pest control, improvement of soil health). Results will be fed into EC tools used for CAP impact assessment and for the Agricultural Outlook.	2022-09-30	Technical Reports	N
																	3040144	3	Digital tool for CAP and biodiversity	Report describing: the architecture of a digital tool (e.g. web platform) allowing access to the knowledge base on biodiversity and ecosystem services for the CAP; inventory of statistics, indicators, geospatial data, legal obligations embedded in the CAP and other environmental legislation. The web platform will be organized according to the needs of AGRI in the process of evaluating CAP strategic plans.	2022-05-31	Technical Reports	N
																	3040174	4	Availability of landscape features data	Report on the inventory of landscape features data layers currently available at MS level, and of legal requirements for landscape features in the MS. This deliverable directly feeds the process of building CAP impact indicator I.20 "Share of landscape features".	2022-06-30	Technical Reports	N
																	3040239	5	EU agroecosystems in the Knowledge Centre on Biodiversity and Ecosystem Services	Input on agroecosystems (data, scientific papers, reports) to the Knowledge Centre on Biodiversity and Ecosystem Services	2022-10-31	Technical Reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.8 Agriculture and food systems	20151	Agri-CC-Resilience	Enhancing Agriculture's Climate resilience	JRC.D.5	30488	AGRI4CAST	Crop Production Monitoring and Forecasting	Implementing the Common Agricultural Policy, the Commission has a need for up-to-date, independent, and accurate information on crop growing conditions and forecasts of crop yield in the European Union and the main neighbouring producing regions. AGRI4CAST provides DG AGRI with timely, independent, and high-quality information and forecasts of crop development, agricultural yields and production in Europe and its neighbourhood, thus directly implementing Article 22 of REG(2013)1306 on Monitoring Agricultural Resources (MARS). The new CAP proposal post-2020 includes a corresponding Article 23 of COM(2018)393 final, moving the quantitative crop yield forecasts even closer the new area-based monitoring. The information, provided in form of monthly JRC MARS Bulletins, is used at first place for decision making in agricultural markets, early payments, crop balance sheets, and other aspects of the CAP. The information produced also contributes to the Agricultural Market Information System (AMIS), a G20 Initiative hosted by FAO, and thus to the transparency of global commodity markets. In this context, JRC directly provides data to the AMIS Crop Monitor based on the Group of Earth Observation's Global Agricultural Monitoring Flagship Initiative (GEOGLAM), as well as to the MED-AMIN initiative, corresponding to AMIS for the Mediterranean region. At the same time, the JRC MARS Bulletins are published on the internet and well received by private sector stakeholders in agro-industry, insurance, academics and the general public. In addition, AGRI4CAST provides ad-hoc support upon specific requests from DG AGRI, through very rapid (a few	JRC.D.5	AGRI	AGRI JRC	ENER ESTAT	2021-01-01	2027-12-31	DEL INS-RS	3017196	D202101	JRC MARS Bulletins	JRC MARS Bulletins are produced monthly on specific dates agreed upon beforehand with DG AGRI to best meet their needs in using the information provided. The content varies along the growing season and contains elements such as Area of Concern, Agro-Weather Review, Weather Forecast, Country Analysis, Pasture Analysis, Rice Analysis, Atlas Maps, Sowing Conditions, Harvest Conditions, Frost Kill Analysis, Yield Forecast Tables. The bulletins are provided directly to DG AGRI and published on the JRC Science Hub for the general public. Crops considered in the analysis for the quantitative yield forecasts are soft wheat and durum wheat, winter and spring barley, rye, triticale, grain maize, green maize, rice, rapeseed, soybean, peas, field beans, sunflower, potato, sugar beet, and pasture. During the most important months, forecast updates can be provided between the bulletins, and the bulletin can be presented to Member State representatives.	2021-12-20	Science for Policy reports	N
																	3017669	D202102	Ad-hoc support in crisis situations	Provision of ad-hoc reports with specialist analyses conducted upon specific requests of DG AGRI, providing detailed information on specific regions or Member States with immediate agricultural concerns, e.g. due to extreme weather conditions, requiring a very rapid (few days) response for decision-making at DG AGRI.	2021-12-31	Science for Policy reports	N
																	3017670	D202103	International cooperation and stakeholder support	Providing regularly timely information on crop conditions and production outlooks to the GEOGLAM Crop Monitor and the monthly AMIS Crop Monitor reports; supporting the Mediterranean Agricultural Markets Information Network (MED-AMIN) as an intergovernmental initiative by providing scientific assistance in quality assurance of MED-AMIN analyses, in enhancing the initiative's technical capacities through R&D transfer and a comparative study reports, and joint identification and review of hotspot areas in the Mediterranean region; giving the general public access to data and information on crop growing conditions in Europe through the operation (incl. maintenance and enhancement) of the AGRI4CAST Resource Portal, documented in annual data dissemination reports, of the JRC MARS Explorer web page with near real-time crop growing information, requesting customer feedback through questionnaires, and of the MARS Wiki providing transparent background information.	2021-12-31	Technical Reports	N
																	3019095	D202104	Improved MARS Crop Yield Forecasting System	Several improvements of the MARS Crop Yield Forecasting System will be implemented: A new version of the MARS Viewer, including internal training for agricultural analysts and updated viewer documentation (user guide, software doc). Seasonal meteorological forecast products will be implemented and evaluated within the operational workflow of the crop monitoring analysis and bulletin generation (technical report). The processing of the Pasture Productivity Index will be deployed on the JEODPP platform, making use of Copernicus S2 data as well as S1 data for the detection of grass-cutting regimes. Spatially explicit irrigation information will be included in the bulletin process, forecast improvements will be evaluated (scientific report). Implemented crop growth modelling system with increased spatial resolution (10 km) based on new soil and meteorological base data, enhanced with a new multi-layer soil water model. Annual report monitoring and assessing the yield forecast performance.	2021-12-31	Technical systems	N
																	3019096	D202105	R&D in crop monitoring and modelling	Analysis of fAPAR data derived from MODIS or Sentinel 3 data and regional agricultural statistics, possibly coupled with meteorological data, to explore for which seasons, regions, and crops linear regression could provide meaningful crop yield predictions (scientific paper). Evaluation of the latest high-resolution ERA5+ products for use within the MARS Crop Yield Forecasting System as well as in high-resolution scenario analysis (scientific paper).). Biomass database update, publication, and exploitation from remote sensing point of view and/or modelling perspective (database). Statistical models to forecast crop yields at sub-national level will be developed, tested, and assessed (scientific paper). Research outcomes of MARS modelling infrastructure in scenario mode with or without coupling to other models e.g. CAPRI (links to INTEGRATE, WEFE-Nexus, Biomass).	2021-12-31	Journal contributions (Clarivate)	N
																	3019097	D202106	Copernicus Sentinel 2 exploitation for agricultural monitoring	R&D in remote sensing to define, test, and implement suitable methodologies and products for operational agricultural crop monitoring: Extended analysis of the detection of winter and summer crops based on vegetation index with focus on the near real-time temporal domain. The extension will provide information at which moment in the season such information could become reliable and how it could improve seasonal monitoring (scientific publication). Enlarging the findings for near real-time detection of winter and summer crops to Sentinel 2, including a near real-time anomaly analysis making use of the JEODPP facility, and providing a toolbox for analysis (software, technical report).	2021-12-31	Journal contributions (Clarivate)	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3019098	D202201	JRC MARS Bulletins	JRC MARS Bulletins are produced monthly on specific dates agreed upon beforehand with DG AGRI to best meet their needs in using the information provided. The content varies along the growing season and contains elements such as Area of Concern, Agro-Weather Review, Weather Forecast, Country Analysis, Pasture Analysis, Rice Analysis, Atlas Maps, Sowing Conditions, Harvest Conditions, Frost Kill Analysis, Yield Forecast Tables. The bulletins are provided directly to DG AGRI and published on the JRC Science Hub for the general public. Crops considered in the analysis for the quantitative yield forecasts are soft wheat and durum wheat, winter and spring barley, rye, triticale, grain maize, green maize, rice, rapeseed, soybean, peas, field beans, sunflower, potato, sugar beet, and pasture. During the most important months, forecast updates can be provided between the bulletins, and the bulletin can be presented to Member State representatives.	2022-12-20	Science for Policy reports	N
																	3019099	D202202	Ad-hoc support in crisis situations	Provision of ad-hoc reports with specialist analyses conducted upon specific requests of DG AGRI, providing detailed information on specific regions or Member States with immediate agricultural concerns, e.g. due to extreme weather conditions, requiring a very rapid (few days) response for decision-making at DG AGRI.	2022-12-31	Science for Policy reports	N
																	3019100	D202203	International cooperation and stakeholder support	Providing regularly timely information on crop growing conditions and production outlooks to the GEOGLAM Crop Monitor and the monthly AMIS Crop Monitor reports; supporting the Mediterranean Agricultural Markets Information Network (MED-AMIN) as an intergovernmental initiative by providing scientific assistance in quality assurance of MED-AMIN analyses and in enhancing the initiative's technical capacities; giving the general public access to data and information on crop conditions in Europe through the operation (incl. maintenance and enhancement) of the AGRI4CAST Resource Portal, documented in annual data dissemination reports, of the JRC MARS Explorer web page with near real-time crop growing information, and of the MARS Wiki providing transparent background information. Customer feedback will be collected through surveys and questionnaires.	2022-12-31	Technical Reports	N
																	3019101	D202204	Improved MARS Crop Yield Forecasting System	The following improvements of the MARS Crop Yield Forecasting System will be implemented: MARS System development towards technical integration of the Bulletin production process with the MARS Explorer, including training for analysts (system, software). Identification of the findings on winter and summer crops detection that could enter into the fully operational MARS System, which type of information could be extracted, which new operational products could be obtained, how they could be interpreted by non-remote sensing analysts (technical report). Implementation of operational regional yield forecasting case-studies within the statistical forecasting software CoBo (software, technical documentation). Report on a quantified pasture productivity assessment, based on a combination of remote sensing, crop modelling and seasonal forecasting data and methods (scientific paper). Annual report monitoring and assessing the yield forecast performance of AGRI4CAST.	2022-12-31	Technical Reports	N
																	3019102	D202205	R&D in crop monitoring and modelling	Evaluation of the improved crop growth modelling system tested for operational use within the MARS System as well as for climate change scenario analyses, taking into account multiple stress factors such as drought, heat stress, excess water, ozone (scientific publication). Investigation of the use and better performance of crop-specific models as compared to generic crop growth models currently in use, e.g. for soybean or rapeseed (scientific paper). Evaluation of options to make improved use of field-level information (S2, LPIS/IACS) in model-based assessments at regional to EU-level (scientific paper). Research outcomes of MARS modelling infrastructure in scenario mode with or without coupling to other models e.g. CAPRI (links to INTEGRATE, WEFE-Nexus, Biomass). Country-specific reports that provide a synthesis of trends in production and husbandry of key crops (technical reports).	2022-12-31	Journal contributions (Clarivate)	N
																	3019103	D202206	Copernicus Sentinel 2 exploitation for agricultural monitoring	R&D in remote sensing to define, test, and implement suitable methodologies and products for operational agricultural crop monitoring: Assessment of the retrieval of crop-specific signals from Sentinel 2 data in the light of crop data availability from field sources (e.g. LPIS, IACS, LUCAS), targeting first the EU region with largest time series of crop specific data (scientific publication). Investigation on scalable smoothing algorithms applied to MODIS and Sentinel 2 satellite data in near real-time mode (scientific publication).	2022-12-31	Journal contributions (Clarivate)	N
1. A European Green Deal	1.8 Agriculture and food systems	20151	Agri-CC-Resilience	Enhancing Agriculture's Climate resilience	JRC.D.5	30489	Agri4climate+	Farming sector Climate Resilience	Within the Portfolio Agri-CC-Resilience, Agri4climate+ provides analysis of climate change impacts on agriculture from seasonal to decadal time scales, information on strategies to strengthen the climate resilience of agriculture, evaluates adaptation options, and helps understanding the risks and opportunities for agriculture in a changing climate of the EU's ambitious proposed legislation to make the EU the worlds' first climate neutral continent by 2050.	JRC.D.5	AGRI	JRC JRC JRC	RTD	2021-01-01	2027-12-25	CON-IA CON-IA INS-RS INS-UR	3004182	2021D1	Climate Assessment for Bulletin and Outlook	Development and contribution of climate information to Bulletin and Outlook activities. Based on in-house modelling and data analysis, and information from international and collaborative initiatives (e.g. C3S, AgMIP etc), a regular contribution (e.g. a special climate issue of the MARS bulletin) will provide targetted agro-climatic information to DG AGRI and multiple stakeholders from seasonal, to interannual and decadal timescales. The activity will involve scoping, stakeholder consultation, prototyping and rolling out a service over a timescale of 2-3 years.	2021-11-30	Technical systems	N
																	3092740	D1	Climate risks and processes	Assessments of current and future climate risks and impacts (especially linked to extremes and at different spatio-temporal scales) on food security. Explore the predictability and large-scale processes linked to the onset of the rainy season as well as the connection to increased risks of extreme events such as droughts. Investigation of relationships between large scale processes and crop yield variations/agriculturally-relevant metrics and the physical mechanisms that underpin them	2022-06-30	Journal contributions (Scopus)	N

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																	3092741	D2	Climate Service	Design and implementation of the climate services in the case studies regions of Africa. Improvement of the ASAP and APHLIS tools as well as of the crop modelling tools.	2023-06-30	Technical Reports	N
																	3092742	D3	Final report	Final report of the FOCUS-Africa project describing all the case studies, the proposed and developed climate services and how they will help in designing climate change adaptation strategies and contribute to food security and sustainable development in the whole of Africa.	2023-12-31	Science for Policy Briefs	N
1. A European Green Deal	1.8 Agriculture and food systems	20151	Agri-CC-Resilience	Enhancing Agriculture's Climate resilience	JRC.D.5	30540	Plant Health 2	Economic, environmental, and social impacts of animal and plant diseases in a changing climate	The Plant Health Law (2031/2016) foresees the implementation of numerous delegated acts by the Commission one of which is the identification of a list of Priority Pests (Article 6). The Single Market Programme 21-27 provides for co-financing by the European Commission of Surveillance measures to assess and control the spread of different plant and health diseases in the territory of the Union. This project focuses on the analysis of the impacts of the economic, environmental and social impacts of animal and plant diseases. In particular part of the work, that funded by the AA with DG SANTE will provide direct applied research for the implementation of the legal requirements of the two pieces of legislation mentioned above. Regarding the analysis of potential impact of pests, the work undertaken during 2018 and 2019 led to the adoption of the 2019/1702 establishing the list of priority pests. This list was based on the analysis of the impacts of 28 pests pre-selected by the EC and MS. This analysis has now to be extended to the full list of Union Quarantine Pests currently under adoption which will imply simplifying the current methodology as it will have to be applied to over 200 pests. As far as co-financing of surveillance activities the project will develop unit-costs for plant and animal health surveillance activities in order to improve (in the case of animal health) and simplify (in the case of plant health) the current guidelines (COMMISSION DECISION of 23.4.2018 authorising the use of unit costs under the annual and multiannual programmes for the eradication, control and surveillance of animal	JRC.D.4	SANTE	SANTE JRC	AGRI ENV	2021-01-01	2024-02-29	CON-AA INS-UR	3005949	D2	Outcome of the preliminary ranking of UQP using the I2P2-Simplified Methodology	This report will describe the simplified composite indicator for pest impact ranking and its application to the full list of Union Quarantine Pests to identify the most relevant pests that have to be analyzed using the full fledged I2P2 indicator used for the establishment of the Priorit Pest List under COMMISSION DELEGATED REGULATION (EU) 2019/1702	2021-06-30	Technical Reports	N
																	3005950	D3	Adaptation measures for pest control in a changing climate	This report will present the main pest control measures available for one or more plant diseases, their adequacy for the different regions in the EU and the attitudes of farmers for and willing to uptake. In particular it will try to identify existing measures already applied in some areas of the EU and how these could be applied in others when the climatic conditions of the latter shift towards those of the former.	2022-12-31	Technical Reports	N
																	3005951	D1	Methodologies for unit cost calculations for animal and plant health surveillance programmes	This report will describe the methodology and data sources used for the calculation of unit costs for the co-financing by the EC of surveillance activities carried out by MS for Animal and Plant Health diseases.	2021-12-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20151	Agri-CC-Resilience	Enhancing Agriculture's Climate resilience	JRC.D.5	31280	Rural Refocus	Generating massive in-situ crop data with computer vision and crowd-sourced street-level imagery	The Rural Refocus project contributes to the Exploratory Research (ER) Programme. In Rural Refocus we hope to unearth a novel source of ground-truth and in-situ data, with methodologies that can easily be applied to other sectors. Over 47% of the European Union (EU) territory is covered by agricultural land and each year about 42 billion is spend on agricultural subsidies under the Common Agricultural Policy (CAP). About 70 million parcels are subject to support measures under the CAP. Through these measures, agriculture in Europe will become more and more oriented to environmental and climatic performance. To design measures, and to evaluate, and monitor compliance, and in line with transforming the evaluation of CAP compliance from a control to a monitoring context, tools and models are required that are operational and functional at the farm or parcel level.	JRC.D.5	AGRI	JRC	DEFIS	2019-11-01	2021-11-15	INS-ER	3081170	Del1	Final reporting Rural Refocus	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project.	2021-11-01	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20151	Agri-CC-Resilience	Enhancing Agriculture's Climate resilience	JRC.D.5	31541	AIACS	AI-enhanced agro-climate service	The AIACS project contributes to the Exploratory Research (ER) Programme. The main goal of the ER project AIACS is to develop an innovative AI-enhanced climate service prototype able to digest, analyse and interpret all available data and information to, then, monitor and predict unfavourable climate conditions and extremes.	JRC.D.5	AGRI	JRC JRC	CLIMA CNECT	2021-10-01	2023-12-31	INS-ER INS-RS	3106507	ERPAT1	Final report	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project. A mid-term technical report will be produced at the end of year 1.	2023-12-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20172	DIGI-CAP	Incentivising digital technology uptake in the farming sector	JRC.D.5	30440	GTCAP	Geodata and technologies for the Common Agricultural Policy	A new CAP delivery model has been proposed to operate a shift from a compliance-based to a performance-based or results-based governance system to reach higher environmental and climate goals (COM(2018) 392 final). This new approach encompasses a change in the role and design of the CAP-dependent Integrated Administration and Control System (IACS). In parallel, this governing this performance implies data interoperability with other thematic domains (e.g. Earth observation, agricultural statistics, environment ,climate, etc.). GTCAP has been a key stakeholder in IACS development over the last 25 years to ensure policy compliance and validation. GTCAP is called upon to work on that transition.	JRC.D.5	AGRI	AGRI CLIMA AGRI JRC	CLIMA	2021-01-01	2027-12-31	CON-AA CON-AA DEL INS-RS	3037814	20221	Towards the legally required "Area Monitoring System"	Compilation of the scientific developments, the readiness and suitability of the technology required to set up an area monitoring system based on Sentinel satellite data and any complementary data capture methods.	2022-12-31	Technical Reports	N
																	3037913	20222	Methodologies to identify and manage farming practices that deliver environmental and climate performance	Compilation of the technical and scientific developments and their readiness for the uptake of new technologies to manage performance enhancing farming practices	2022-12-31	Technical Reports	N
																	3038069	20223	Smarter technologies for farm information capturing and management	Compilation report describing the state of advance, the suitability and readiness of the wide range of handheld technologies and other appropriate methods. Including the use of artificial intelligence techniques, to capture, automatically generate and process, and exchange farm information data	2022-12-31	Technical Reports	N

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																	3082689	20224	Technical aspects of IACS spatial data interoperability	The second part of the IACS spatial data sharing guidelines will involve interoperability solutions with INSPIRE. Examples of semantic mapping and elements of harmonised codelists will be introduced based on the results of pilot projects and a wide consultation with the stakeholders. If needed, Part 1 of the technical guideline (data discovery) delivered in 2020 will be also updated.	2022-12-31	Technical Reports	N
																	3082743	20225	Rural land characterization adapted to policies' needs	Work on methods to obtain spatially explicit characterizations of rural land phenomena to address needs for land management, monitoring and reporting of the CAP and other policies (such as LULUCF). This will be based on the use of Sentinel data and novelty techniques like artificial intelligence vision. These characterizations are critical for an appropriate design of performance measures and corresponding implementation choices (e.g. controls).	2022-12-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20172	DIGI-CAP	Incentivising digital technology uptake in the farming sector	JRC.D.5	30495	Digital Lab	Digital Rural Landscape Lab	The Common Agricultural Policy (CAP) aims to contribute to tackle climate change, improve the sustainable management of natural resources, and preserve biodiversity and landscapes.The CAP payments farmers receive will focus more on environment and climate performance of farm practices. Thus - farmers have to implement and provide evidence for practices that contribute to e.g. biodiversity and/or climate mitigation and the impact of those practices need to be evaluated. The Digital Rural Landscape Lab aims to develop innovative digital approaches that can contribute to better evidence provision and monitoring at parcel and landscape level in the context of the CAP and rural landscape	JRC.D.5	AGRI	JRC	ENV ESTAT	2021-01-01	2027-12-31	INS-UR	3006247	Del1	Citizen science and deep learning for crop and plant species monitoring	Deliverable reporting on outcomes of the collaboration with Pl@ntNet, specifically on improvements in the Pl@ntNet deep learning algorithms based on LUCAS crop pictures and the performance and uptake of the dedicated micro-project on 'European crops' which will allow for citizen science and crowd sourcing of crops and crop locations across the European Union.	2021-12-01	Journal contributions (Clarivate)	N
																	3006248	D1	Rural Refocus	Deliverable on the activities of the ER Rural Refocus 1.To explore the capacity of crowdsourced geotagged street-level imagery to provide relevant and timely information along the growing season on crop type (e.g. maize, wheat, grassland) and crop phenology (e.g. emergence, tillering). 2.To create a LUCAS based digital library of reference image datasets that can be used to train computer vision algorithms 3.To develop computationally intensive machine learning algorithms to recognize and classify digital photographs according to crop type, phenology, and later landscape elements and farm activity.	2021-11-01	Journal contributions (Clarivate)	N
																	3073465	Del2	Sourcing and using in-situ data to train algorithms for Earth Observation based products	In-situ data sources such as LUCAS (e.g. from the LUCAS Copernicus module) or from farmers declarations (i.e. GSAA) will be used to train algorithms using Copernicus Sentinel-1 and 2 observations and ortho-photo imagery to map crops and landscape features at country or continental scales.	2021-12-01	Journal contributions (Clarivate)	N
																	3073466	Del3	Computer vision for crop and agri-environmental monitoring	Deliverable reporting on the institutional follow up activities of the ER project Rural Refocus (which will finish 1/11/2021) related to further develop computationally intensive machine learning algorithms to recognize and classify digital photographs and ortho-photo imagery according to crop type, phenology, and landscape elements and farm activity, and the applications of these algorithms in a CAP policy relevant context, e.g. for evidence provision of management practices.	2022-12-01	Science for Policy reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20172	DIGI-CAP	Incentivising digital technology uptake in the farming sector	JRC.D.5	31221	FFGRCC	Flora Fauna Green Rural Corridor Connect - Localizing and modelling wildflower-pollinator interactions in rural landscapes with citizen science and deep learning	The outcomes of this proposed ER project holds relevance for the 'twin digital and ecological transition' as mentioned in the European Green Deal (EGD) and can feed innovative policy implementation and monitoring for the new Common Agricultural Policy (CAP) for the period 2021-2027. European agricultural policy is key for biodiversity and green infrastructures. The 2019 Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) report concluded that nature's decline is unprecedented and that species extinction rates are accelerating (IPBES, 2019). Restoring biodiversity is therefore a key policy objective. The EU 2030 biodiversity strategy will be ambitious and require extensive support in assessing and monitoring impact of policies. Championing the 'twin ecological and digital transition' as mentioned in the European Green Deal (EGD) requires the JRC to continue developing critical mass in new digital approaches and tools in fields such as biodiversity.	JRC.D.5	AGRI	JRC	ENV	2021-05-01	2023-04-30	INS-ER	3078261	Del2	FFGRC scientific publication	Spatially refined European flora biodiversity map based on crowdsourced information and LUCAS landscape pictures. The spatial resolution will be improved because of the precision in the spatial geo-location of the 5M LUCAS pictures.	2022-12-01	Journal contributions (Clarivate)	N
																	3078262	Del1	FFGRCC first year report	Reporting on progress towards a spatially refined European flora biodiversity map based on crowdsourced information and LUCAS landscape pictures.	2021-12-15	Technical Reports	N

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1. A European Green Deal	1.9 Research and innovation for the Green Deal	20174	Copernicus 2.0	Scientific and Technical Support to the Copernicus Programme and it's Evolution	JRC.D.6	30542	CLEO	Copernicus Land Observation Quality Assurance & CoCO2 & CCVS	CLEO contributes to the JRC contractual obligations for the long-term support to the overall Copernicus fitness for purpose linked to (EU)N0377/2014 regulation. This project encompasses research and development of methodologies for assessing the quality assurance and quality control of Earth Observation and ground-based land products. Both products and retrieval algorithms will be scrutinized to achieve improvements in accordance with (new) user requirement targets.Fitness for purpose of the Copernicus data records should be ensured, meaning that the expected users' quality requests must be verified in order to establish the fundamental priorities for Copernicus 2.0 implementation. Evaluation on the overall performance of Copernicus Land Service is foreseen, mainly with regard to users' information needs and high level requirements and translate findings into recommendations into programmatic and technical requirements. In addition, two competitive projects are foreseen: 1) The Copernicus CO2 service (CoCO2) project will deliver the prototype systems for a new European anthropogenic CO2 emissions monitoring and verification support capacity that can be implemented within the Copernicus programme as a (pre-)operational service element and 2) the Copernicus Cal/Val Solution (CCVS) CSA. The Sentinel missions provide core remote sensing data products which are in turn used by the Copernicus Services to provide added-value products and services to final users. Calibration and Validation activities play a major role to ensure, monitor and document the quality of the Copernicus data	JRC.D.6	DEFIS	RTD RTD JRC	AGRI CLIMA ENV INTPA	2021-01-01	2027-12-31	CON-IA CON-IA INS-RS	3004457	202102	Quality of Sentinel 3 land products	Remote sensing products contribute to the continuous monitoring of the earth's surface. Within the European Union's Copernicus program, Sentinel missions were launched with the specific objective of monitoring essential climatic variables (ECV) identified by the Global Climate Observing System (GCOS). These variables include the fraction of photosynthetically active radiation absorbed (FAPAR), which is provided as Level 2 land product by the Sentinel-3 OLCI instruments at 300 m and 1.2 km, for each daily acquisition. Sentinel-3A and its twin Sentinel-3B were launched respectively in February 2016 and April 2018. We propose to benchmark the Sentinel-3A and Sentinel-3B values against MERIS climatology, JRC FAPAR MODIS and Sentinel-2 Multispectral Instrument (MSI) JRC FAPAR reference products over various local sites. Direct comparison against ground-based data from Ground-Based Observations for Validation (GBOV) of Copernicus Global Land Products will be ensured during the project.	2021-12-31	Journal contributions (Scopus)	N
																	3004458	202201	Publication of RAMI-V results	As an open-access, and on-going activity, RAdiation transfer Model Intercomparison (RAMI) operates in successive phases each one aiming at re-assessing the capability, performance and agreement of the latest generation of radiation transfer (RT) models. This in turn leads to model enhancements and further developments that benefit to the RT modelling research community as a whole. RAMI-V focuses on Sentinel area with specific scenarios for mimicking Sentinel-3 Ocean Land Color Imager (OLCI) and Sentinel-2 MultiSpectral Instrument (MSI) instruments with additional new virtual scenes such as crops.	2022-12-31	Journal contributions (Clarivate)	N
																	3004885	202101	Copernicus 2.0 Evolution QA/QC and GBOV	Design of the Copernicus Land Service Quality Assurance/Quality Control service component and Support to Ground-Based Observations for Validation (GBOV) of Copernicus Global Land Products component. The new Copernicus Land service QA/QC for Copernicus 2.0 will be designed through a common procurement through all various Land service component. The QA/QC will consider and will be built on common references and general international principles.	2021-12-31	Technical Reports	N
																	3010357	202202	Use of Copernicus products for policy	Make use of Copernicus products for policy domain such as Common Agricultural Policy (CAP), Green Deal and Climate Change policy. Analysis of COPERNICUS products at either regional or global level in various domains will be proposed to answer policy requests. Potential impact on the Coronavirus lockdown on vegetation condition status is one example.	2022-12-31	Journal contributions (Clarivate)	N
																	3041963	202212	Global CO2 emission gridmaps,	Global CO2 emission gridmaps, as community effort of the especially established GEIA working group compiled with the state-of-the art regionally consented data. These emission gridmaps serve as common starting point for discussing bottom-up and top-down CO2 emission inventories." Type: scientific article, not sensitive (Rationale for this all is: scientifically supporting the Copernicus programme with the establishment of an operational anthropogenic CO2 emissions monitoring and verification support capacity)	2022-03-31	Science for Policy reports	N
																	3042118	202211	Uptake by the DG CLIMA Working Group 1	Regular reporting of JRC contribution in particular to the uptake by the DG CLIMA Working Group 1 - Climate Change Committee (Inventory agencies of the EU MS) of state-of-the-art CO2 inventories bottom-up) (with TNO) and top-down (with ECMWF) and the outcome of the reconciliation exercise.	2022-12-31	Science for Policy reports	N
																	3074519	202120	Optical Missions and Atmospheric composition Cal/Val requirements	This task addresses requirements for:optical sensors (Sentinel-2 MSI, Sentinel-3 OLCI, SLSTR and SYN products, CHIME, LSTM) and for atmospheric composition missions (Sentinel-5P, Sentinel-4, Sentinel-5, and CO2M).	2021-06-30	Technical Reports	N
																	3074520	202121	Systematic ground-based measurements sites and network	The document will be based on a dedicated survey of instrumented sites and networks (including drifters) acquiring measurements in a systematic manner, in Europe and worldwide with identification of: spatial distribution, ownership, resourcing, and sustainability, data policy, availability, and depth of archive, quality management, frequency of measurements, temporal consistency and continuity, description of instrumentation, metrological traceability and availability of uncertainty evaluation. Perspectives on methods and emerging technologies with the involvement in present Copernicus Cal/Val activities with identification of planned developments and emerging technologies in instrumentation.	2021-06-30	Technical Reports	N

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																	3074521	202222	Coperniucs FRM and super sites	The goals are to define a core network of measurement sites (existing or to be developed) answering cal/val requirements for Sentinel missions - define location, measurements and instrumentation of each site and to ildentify rationalization and optimization pathways: e.g. use of common instrumentation, protocols, and standard across sites; cross-Sentinel use of generic measurements; “supersite” approaches to minimize maintenance costs. Also a minimum set of requirements for a “Copernicus” label for measurement sites, addressing measurement protocols, documentation, availability, data policy to define a certification process.	2022-06-30	Technical Reports	N
																	3074522	202221	Performance Analysis and Impact on Level 3, Draft version	This deliverable will present the qualitative assessment of the proposed solution through actual uncertainties or quality information of Copernicus Level 3 (and Level-4 where appropriate) and quantitative assessment on water altimetry products, on terrestrial Essential Climate Variables and selected atmosphere data products. In addition, a quantitative assessment of the uncertainties of vicarious calibration methods based on the PICS using RadCalNet as a test case will be done.	2022-06-30	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20172	DIGI-CAP	Incentivising digital technology uptake in the farming sector	JRC.D.5	30546	EO4CGL+	Earth Observation For Copernicus Global Land and support to Copernicus Programme	The Copernicus Programme within proposed Space Regulation (COM/2018/447 final - 2018/0236 (COD)), defined as “Europe’s eyes on Earth”, is expected to deliver accurate and reliable Earth Observation data, information and services integrating other data sources, supplied on a long-term sustainable basis, to support the formulation, implementation and monitoring of the Union and its Member States' policies and actions based on user requirements, within the larger framework of promoting the role of the Union global actor in the space sector (art. 4). In line with the expectation that the Commission continues relying on JRC’s scientific and technical advice for the implementation of the Programme’s services (preamble 61a), this project will ensure the continued (48) implementation and enhanced continuation of the Global Land component of the Land service (Art. 50). The project will therefore contribute directly to the Portfolio ‘Copernicus 2.0’ by generating the services and products, based on and oriented towards user requirements and fit for the digital age, to support the European Green Deal and contribute to a Europe that is stronger in the world. The project, being a direct continuation of the WP17-20 900-SPACE-CIS, will specifically design, organize, evolve and implement the Global Land component (CGLS) of the Copernicus 2.0 Land service. In accordance to the Space Regulation art. 50, activities will realize ‘(a) environmental monitoring, reporting and compliance assurance services covering: land monitoring and agriculture to provide information on land cover, land use and land use change, …, urban	JRC.D.6	DEFIS	DEFIS	AGRI CLIMA EEAS ENV GROW INTPA JRC	2021-01-01	2022-12-31	DEL INS-RS	3030993	202101	Continuation and consolidation of the Global Land Service within Copernicus 2.0	Description: Implementation of the Global Land component of the Copernicus Land Service in line with the cross delegation arrangement between DG DEFIS and JRC in support of Art. 50 of the proposed Space Regulation COM/2018/447 final - 2018/0236 (COD), in continuation of Art.9 of Reg. (EU)No377/2014. This includes (i) liaison with EEA on co-leading the Land service, (ii) ad hoc support to DG DEFIS, (iii) fostering synergies between the Copernicus services and with ESA, (iv) liaison with Horizon Europe. Quarterly reports are delivered.	2022-12-15	Datasets	N
																	3031016	202102	Ensuring enhanced continuation of the Global Land Service	Supporting the Commission on appropriate evolution of the Copernicus programme in line with Art. 29 of the proposed Space Regulation COM/2018/447 final - 2018/0236 (COD) and evolution of the service portfolio. This includes (i) design and implementation of S1 and S3 Analysis Ready Data, (ii) consolidation of land characterisation products to provide common basis for all land cover products and integration of biophysical products, (iii) prototyping and ramping-up to pre-operational stages of sectoral products and services (focused on biodiversity, forestry (REDD+), urban (GHSL), agriculture, inland water, arctic, land degradation, epidemiological (including SARS-COV-2) relation with and caused impact on environment and anthropogenic conditions, Hot Spot alert products, contributing to geospatial intelligence for environmental compliance, (iv) design and implementation of cloudification of the service, conform and contributing to Destination Earth (COM(2020) 66 final). Quarterly reports	2022-12-15	Datasets	N
																	3031017	202103	CGLS support to key partners	Supporting and addressing the evolving needs of the Commission and international partners for monitoring of targets set under Global Conventions and land management decision making. This includes (i) evolvement of the water and land condition products for resp. SDG 2, 6, 11 and 15, (ii) products in support to GMES&Africa and international partners (FAO, WFP, GGIM, UNConventions), (iii) evolvement and provision of analytical tools, e.g. Convergence of Evidence of World Atlas of Desertification (iv)contribution and support the Commission Knowledge Centres, specifically the KCEO. Quarterly reports, products and related documentation are delivered.	2022-12-15	Science for Policy reports	N
																	3031018	202104	EO policy support	(i) support the Commission’s role on the governance of Copernicus and international cooperation to promote the role of the EY as global actor in the space sector (COM/2018/447 final - 2018/0236 (COD) - 6a), including advice to EU’s space dialogues with space agencies and EO users outside the EU, (ii) input and support to CEOS, GEO (initiatives on SDG, LDN, Water), WMO, GCOS, WHO and feedback to the Copernicus programme on appropriate international engagements, (iii) contribution to the Africa platform with dedicated products, ….	2022-12-15	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.8 Agriculture and food systems	20172	DIGI-CAP	Incentivising digital technology uptake in the farming sector	JRC.D.5	30550	COLORS	Copernicus Ocean Long-term Observations for Remote Sensing applications	The importance of the global ocean for climate variability and of healthy marine ecosystems for the blue economy is recognized by the “European Green Deal” policy priority area and at international level with the pursuit of the Sustainable Development Goal (SDG) 14 (Life below Water) and the United Nations Decade of Ocean Science for Sustainable Development (2021-2030). In that context and in a “Europe fit for the Digital Age”, an optimal use of satellite-based observations of seas and oceans is required for a comprehensive monitoring and an improved understanding of the oceans. Along with other international initiatives, the EU Copernicus programme aims at contributing to that purpose with “accurate and reliable data” (reiterated among the objectives of the new Space Programme Regulation) from its associated space missions, as well as with products generated by the Copernicus Marine Environment Monitoring Service (CMEMS) and the marine component of the Copernicus Climate Change Service (C3S). COLORS, contributing to the portfolio “Copernicus 2.0”, responds to the role of JRC as “scientific and technical support for the implementation of Copernicus” (Copernicus Regulation, 377/2014; Space Programme Regulation). The specific objectives of COLORS are thus to increase accuracy, ensure traceability, and assess the fitness-for-purpose of Copernicus Earth Observations (EO) data relevant for marine ecosystems in support of policy making and research activities, as well as for the Copernicus CMEMS and C3S. Their fulfilment will ensure an optimal value of EO data as assets for research and decision-making, and thus maximize the	JRC.D.2	DEFIS	DEFIS JRC	(blank)	2021-01-01	2022-12-31	CON-IA DEL INS-RS	3001620	202203	Guideline for in situ to satellite data comparison (METEOC-4)	Within the METEOC-4 project, this activity will consolidate the protocols associated with the validation of ocean colour data with field observations. As validation results are a crucial element to estimate and verify uncertainty estimates for OC products, this activity will review and likely revise the various issues associated with the validation process, some being strictly related to either field or satellite data, and others to their comparison.	2022-05-31	Journal contributions (Clarivate)	N
																	3004484	202301	Estimating Uncertainties for ocean-colour multi-mission climate data records (METEOC-4)	Within the METEOC-4 project and with a focus on climate science, this activity will look further into uncertainty budgets for the multi-mission satellite products of spectral remote sensing reflectance, concentration of chlorophyll-a Chla, inherent optical properties (IOPs) or advanced products such as primary production. Building on the experience from previous projects, uncertainty propagation tools, radiative transfer modelling and comparisons between sensor-specific time series will be used to separate random, locally-systematic and systematic error components associated with the atmospheric correction process and allow their propagation to the final gridded products. In the case of primary production, uncertainty propagation techniques applied to a wavelength- and vertically-resolved model will be used to quantify how the uncertainties on input products such as chlorophyll concentration or photosynthetically available radiation impact rates of carbon fixation.	2023-06-30	Journal contributions (Clarivate)	N
																	3004485	202202	Fitness-for-purpose of Copernicus EO Marine Data	The deliverable will summarize results on the investigation of the accuracy and fitness-for-purpose of the ocean colour environmental and climate data records derived from Copernicus and third-party missions and services. The deliverable will present achievements on: i) the development of methods to derive and verify uncertainty budgets associated with EO data products using validation results, bio-optical and radiative transfer modelling and uncertainty propagation techniques, with applications to water reflectance and derived products; ii) the development of methods to generate and analyse multi-satellite series of Essential Climate Variables and investigation of their fitness for climate research, taking into account inter-mission differences and uncertainties of EO data. Global products will be considered with a focus on European seas. Findings will be of relevance for the Copernicus Marine Environment Monitoring Service and Climate Change Service. Partly funded with codelegation.	2022-12-15	Journal contributions (Clarivate)	N
																	3004494	202102	Fitness-for-purpose of Copernicus EO Marine Data	The deliverable will document results investigating the uncertainties of the ocean colour environmental and climate data records derived from Copernicus and third-party missions and services. Specifically, the deliverable will summarize achievements on: i) the development of methods to derive uncertainty budgets associated with EO data products using validation results, bio-optical and radiative transfer modelling and uncertainty propagation techniques, with a focus on the water reflectance; ii) the analysis of multi-satellite series of Essential Climate Variables, taking into account inter-mission differences and uncertainties of EO data. Global products will be considered with a focus on European seas. Findings will be of relevance for the Copernicus Marine Environment Monitoring Service and Climate Change Service. Activities partially supported through the Co/Cross Delegation with DG-DEFIS.	2021-12-15	Journal contributions (Clarivate)	N
																	3004495	202201	Reference measurements to assess EO data products	The deliverable will comprise reference data and their analysis for the validation of ongoing ocean colour data products with specific focus on Copernicus Sentinel-3A and -3B missions. The data collection will result from i) autonomous systems operated in coastal regions and included in the Ocean Color component of the Aerosol Robotic Network (AERONET-OC), and ii) targeted oceanographic campaigns performed in collaboration with European partners. The activity will rely on JRC state-of-the-art laboratories ensuring instrument calibration/characterization and comprehensive quantification of measurement uncertainties through the application of stringent protocols and international inter-comparison of methods. Activities partially supported through the Co/Cross Delegation with DG-DEFIS.	2022-12-15	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3004496	202101	Reference measurements to assess EO data products	The deliverable will comprise reference data and their analysis for the validation of ongoing ocean colour data products with specific focus on Copernicus Sentinel-3A and -3B missions. The data collection will result from i) autonomous systems operated in coastal regions and included in the Ocean Color component of the Aerosol Robotic Network (AERONET-OC), and ii) targeted oceanographic campaigns performed in collaboration with European partners. The activity will rely on JRC state-of-the-art laboratories ensuring instrument calibration/characterization and comprehensive quantification of measurement uncertainties through the application of stringent protocols and international inter-comparison of methods. Activities partially supported through the Co/Cross Delegation with DG-DEFIS.	2021-12-15	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20172	DIGI-CAP	Incentivising digital technology uptake in the farming sector	JRC.D.5	30620	KC EO & CopernicusAA	Knowledge Centre on Earth Observation & Scientific and Technical Support to Copernicus	The Joint Research Centre has over 30 years' research in Earth Observation science and applications, and played a pivotal role in the genesis of the Copernicus Programme (then Global Monitoring of Environment and Security - GMES) in 1998. Since its inception, the GMES/Copernicus Programme has been user-driven with a strong emphasis on the needs of EU policy, and this is a prime reason JRC remains intimately involved in its implementation. The Programme's evolution is based on responding to new requirements from EU Policy needs (and other stakeholders) in a way which is defensible, traceable and technically sound. The subsequent investments in space infrastructure, ground segment implementation and the Services should all be traceable back to these requirements; the requirements and their definition are therefore, literally, worth billions of Euros. The JRC has long been regarded as a centre of excellence in developing earth observation products, applications and services, and has unique, globally recognised, know-how in translating policy users' needs into requirements for space applications across a broad range of sectors, and indeed delivering on these applications. Wide-ranging thematic expertise is complemented by a solid foundation in Earth Observation Science and Technology. It is this combination that makes the JRC's competence-base so remarkable. This project fundamentally builds on these long-standing and unique competences.	JRC.D.6	DEFIS	DEFIS DEFIS JRC	AGRI CLIMA CNECT ECHO EEAS ENER ENV ESTAT HOME IAS INTPA MARE MOVE REGIO RTD SG	2021-01-01	2027-12-31	CON-AA CON-AA INS-RS	3013509	opernicus2y	Annual Report for Copernicus 2 AA Year 4	Annual Report for Copernicus 2 AA Year 4	2021-11-30	Technical Reports	N
																	3031741	3	Report assessing R&D needs for evolution of Copernicus	This will be the first report addressing the second pillar of the Knowledge Centre on Earth Observation work on assessing R&D Needs for the Evolution of the Copernicus Programme. This first report will etablish best practices to been adopted in future assessements and will bring both enviornmental dimansion and a securtity dimension which will be addressed through dedicted activities in PRJ 20174 (R&D4CSS).	2021-12-31	Technical Reports	N
																	3031742	2	Knowledge Centre on Earth Observation Report on Uptake of Copernicus in EU Policy	This we be the first report from the Knowledge Centre on Earth Observation looking at uptake of Copernicus products and services. I will be a deep dive in a specific thematic area (to be agreed with DEFIS) and will look into priority areas e.g. COVID-19, Green Deal, Climate Action, Polor/Arctic, Biodiversity, Oceans, Security	2021-07-31	Technical Reports	N
																	3031830	4	Flagship report on EO and SDGs	This is proposed as a Flagship Report for 2021 "Europe's eyes on Earth driving the monitoring of Sustainable Development Goals for the Green Deal" •The EU's Copernicus programme provides a unique opportunity to objectively, synoptically, transparently and continuously monitoring indicators for the SDGs •Europe has established strong international leadership and partnerships Space dialogues and collaboration via CEOS, GEO •It provide an objective evidence-based framework through standardised reference data for EU policy making Report will be undertaken with various relavant Policy DGs as well as with UNEP.	2021-12-31	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.8 Agriculture and food systems	20401	Green S4	Smart Specialisation and place-based innovation for transformation towards greener & smarter regions	JRC.B.7	30725	S4 Platform	Smart Specialisation Platform for Sustainability	Smart Specialisation is a key methodology for place-based transformative innovation for sustainability that can play a decisive part towards achieving the "European Green Deal" priority. Its central role in the EU cohesion policy has been even reinforced in the post-2020 draft regulations, towards a more integrated vision of support for sustainable transitions in EU territories – not only via research and innovation, but also business support, technology and skills – and a more genuine territorial focus. The Just Transition Fund will support more vulnerable regions adjusting their industrial activity and skill profiles to a climate-neutral and circular economy, and the S3P can help to implement properly the Just Transition Fund. Throughout 2014-2020, Cohesion Policy has guided the investment of over EUR 450 billion (including national co-financing) to help achieve the EU-wide goals of jobs and growth and reduce territorial, economic and social disparities. Smart Specialisation has been an integral part and an ex ante conditionality of Cohesion Policy, which led EU Member States and regions to develop over 120 Smart Specialisation strategies, driving research and innovation investments of over EUR 40 billion provided by the EU (EUR 68 billion including national co-financing). Over the next programming period for 2021-2027, Smart Specialisation is expected to continue to play a major role towards regional development and cohesion in general and a sustainable, smart and inclusive Europe by promoting innovation-driven and sustainable	JRC.B.7	REGIO	REGIO	AGRI ENER GROW RTD	2021-04-01	2022-12-31	CON-AA	3011721	S3P1111	Final report	Final report	2022-12-31	Technical Reports	N
																	3011722	S3P00000	Interim Report	Interim Report	2021-12-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20401	Green S4	Smart Specialisation and place-based innovation for transformation towards greener & smarter regions	JRC.B.7	30727	S4P MARE	S4P Blue Growth	The activity will contribute to the JRC-DG MARE Administrative Arrangement project "Oceans, Coastal Regions and the Blue Economy" through the topics related to the Smart Specialisation linkages to the Emerging Blue Growth Sectors and territorial aspects of collaboration across Europe. In addition, it will support the recovery in the coastal territories of Europe. It will also contribute to some SDGs, especially to Clean Water & Sanitation (6), Affordable & Clean Energy (7), Industry, Economy and Innovation (9), Sustainable Cities and Communities (11), Responsible Consumption and Production (12), Climate Action (13) and Life Below Water (14).	JRC.B.7	MARE	MARE JRC	ENER ENV REGIO RTD	2021-01-01	2022-12-31	CON-AA INS-RS	3010089	S3PMARE2	Contribution to the Annual Report on the EU Blue Economy 2021	Like 2019 and 2020, the analytical work and the most important findings of our work on the selected emerging sectors of the blue growth will be integrated into the joint DG MARE/JRC report, which is the key yearly report dealing with blue economy activities in Europe. It has a high visibility across the EU and beyond and is presented at the European Maritime Days - important yearly conference of the blue economy community stakeholders.	2021-05-12	Science for Policy reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20401	Green S4	Smart Specialisation and place-based innovation for transformation towards greener & smarter regions	JRC.B.7	30729	S4 Sustain	S4 for sustainable transformation	Smart Specialisation is a key methodology for place-based transformative innovation for sustainability that can play a decisive part towards achieving the "European Green Deal" priority. Its central role in the EU cohesion policy has been even reinforced in the post-2020 draft regulations, towards a more integrated vision of support for sustainable transitions in EU territories – not only via research and innovation, but also business support, technology and skills – and a more genuine territorial focus. The Just Transition Fund will support more vulnerable regions adjusting their industrial activity and skill profiles to a climate-neutral and circular economy.	JRC.B.7	REGIO	JRC	GROW REGIO RTD	2021-01-01	2022-12-31	INS-RS	3011908	SUSTAIN83	Smarter conference III	Smarter conference III: bi-annual science for policy conference on Smart Specialisation and territorial development. Its second edition was organised in September 2018 in Seville.	2022-12-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20411	INNO4GD	Innovation for Europe's Green Deal, focus on R&I and Investments for a Green and Competitive Economy	JRC.B.7	30203	ERIC4GD	Energy Research, Innovation and Competitiveness for the Green Deal	The project includes established activities monitoring the EU energy innovation landscape (public and private R&I investments, patents and related competitiveness metrics, such as trade) in support of the 5th Research Innovation and Competitiveness (RIC) dimension of the Energy Union Governance, the Strategic Energy Technology (SET) Plan, Mission Innovation and the development and implementation of a monitoring framework for the competitiveness of the EU energy sector. The project produces, collects, consolidates, assesses and validates key performance indicators on RIC in energy technology, ensuring diligent, transparent and intelligent use of available knowledge in support of the Energy Union and the SET plan, offering analysis and support on governance issues, indicators and reports on EU energy innovation trends. The work is both unique and necessary, as there is no other comprehensive source available to provide this knowledge to stakeholders. The sensitive information, the need for trust, confidentiality, impartiality and effective governance necessitate the involvement of the Commission. The requirement for competence on energy issues means that the JRC is best placed to undertake this role, as it has positioned itself as a reference in RIC for the energy, mobility and energy intensive industry sectors –which are key in the delivery of the Green Deal objectives on decarbonisation, clean, affordable and secure energy. The project will contribute to the European Green Deal through evidence on the RIC of the low-carbon energy technologies and industries required for the sustainable transition, ensuring transparency and facilitating	JRC.C.7	ENER	CLIMA GROW JRC	CLIMA ESTAT GROW RTD	2021-01-01	2027-12-31	CON-AA CON-AA INS-RS	3011471	021PATLAI	2021 Patent analysis on energy and supportive and related technologies for the Green Deal	Patent data and analysis on sectors and value chains related to and affected by energy, energy efficiency, resources, transport and energy intensive industry. Annual update of Indicator 10 for the Circular Economy Monitoring Framework (EUROSTAT). Patent analysis on transport for the TRIMIS project (DG MOVE). Patent analysis on dual use technologies and materials (collaboration with DS-E7-LANDSC project on R&D aspects).	2021-12-31	Technical Reports	N
																	3011472	022PATLAI	2022 Patent analysis on energy and supportive and related technologies for the Green Deal	Patent data and analysis on sectors and value chains related to and affected by energy, energy efficiency, resources, transport and energy intensive industry. Annual update of Indicator 10 for the Circular Economy Monitoring Framework (EUROSTAT). Patent analysis on transport for the TRIMIS project (DG MOVE). Patent analysis on dual use technologies and materials (collaboration with DS-E7-LANDSC project on R&D aspects).	2022-12-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3011473	22COMPE	2022 Competitiveness indicators for low-carbon Energy Value Chains	Assessment of competitiveness indicators and indices in the context of the low-carbon energy industry and strategic value chains that are affected by energy technology, energy efficiency and resource issues (e.g. R&D inputs and outputs, trade, foreign direct investments, gross value added, number and positioning of companies etc). Collaboration with the GLORIA 2021 project and the EU R&D Investment Scoreboard on the EU industrial performance on clean energy technologies. Input to Mission Innovation in the context of remaining activities of the Mission Innovation Tracking Progress (from the first phase of MI (eg. benchmarking global private R&D efforts in low-carbon energy technologies), Input to partner DG studies on EUs global leadership in renewables and low carbon industries. Support to the industry strategy on competitiveness in the area of low-carbon energy and transport, energy efficiency and decarbonisation of industries	2022-12-31	Technical Reports	N
																	3011474	21COMPE	2021 Competitiveness indicators for low-carbon Energy Value Chains	Assessment of competitiveness indicators and indices in the context of the low-carbon energy industry and strategic value chains that are affected by energy technology, energy efficiency and resource issues (e.g. R&D inputs and outputs, trade, foreign direct investments, gross value added, number and positioning of companies etc). Collaboration with the GLORIA 2021 project and the EU R&D Investment Scoreboard on the EU industrial performance on clean energy technologies. Input to Mission Innovation in the context of remaining activities of the Mission Innovation Tracking Progress (from the first phase of MI (eg. benchmarking global private R&D efforts in low-carbon energy technologies), Input to partner DG studies on EUs global leadership in renewables and low carbon industries. Support to the industry strategy on competitiveness in the area of low-carbon energy and transport, energy efficiency and decarbonisation of industries	2021-12-31	Whole parts of policy documents	N
																	3037742	22RECCO	The role of the Recovery Plan in Clean Transition and Competitiveness	The role of key investments and projects made in the context of the Recovery Plan, in facilitating the transition to climate neutrality and strengthening the EU resilience and competitiveness through technological leadership. Links with territorial development and smart specialisation in energy.	2022-12-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20411	INNO4GD	Innovation for Europe's Green Deal, focus on R&I and Investments for a Green and Competitive Economy	JRC.B.7	30204	FORGED	Foresight for the European Green Deal	Anticipation is high on the EU policy agenda, as evidenced by the importance given to better policies and Impact Assessment. EU policymaking is also increasingly attentive to citizen wellbeing, now and in the future. This calls for systematic examination of information to identify potential threats, risks, emerging issues and opportunities. Within this frame, this project will contribute to JRC efforts on information gathering and sense making, technology watch and emergence. This project will focus on foresight relevant to the European Green Deal.	JRC.C.7	RTD	JRC	AGRI CLIMA ENER ENV MOVE RTD SG	2021-01-01	2022-12-31	INS-RS	3012237	2022	Annual reports on horizon scanning, technology foresight and fact sheets stemming from these	These reports will succinctly identify, discuss and communicate to relevant policy makers emerging issues (risks and opportunities) that might have policy and societal implications for Europe, with a focus on the context of the European Green Deal. Furthermore, capacity on quantitative approaches will be strengthened, using e.g. text mining and network analysis to detect patterns and follow trends in news and scientific publications. The main objective here is to document and showcase how patterns in publication activity can be used to monitor the development of emerging energy technologies. A possible outcome could be for policymakers to (visually) compare the evolution of publication activity for different established and/or emerging energy technologies.	2022-10-31	Science for Policy Briefs	N
																	3018159	2021	Annual reports on horizon scanning, technology foresight and fact sheets stemming from these	These reports will succinctly identify, discuss and communicate to relevant policy makers emerging issues (risks and opportunities) that might have policy and societal implications for Europe, with a focus on the context of the European Green Deal. Furthermore, capacity on quantitative approaches will be strengthened, using e.g. text mining and network analysis to detect patterns and follow trends in news and scientific publications. The main objective here is to document and showcase how patterns in publication activity can be used to monitor the development of emerging energy technologies. A possible outcome could be for policymakers to (visually) compare the evolution of publication activity for different established and/or emerging energy technologies.	2021-10-31	Science for Policy Briefs	N
1. A European Green Deal	1.8 Agriculture and food systems	20411	INNO4GD	Innovation for Europe's Green Deal, focus on R&I and Investments for a Green and Competitive Economy	JRC.B.7	30205	SETIS	Strategic Energy Technologies Information System	Becoming the world's first climate-neutral continent by 2050 is the greatest challenge and opportunity of our times. To achieve this, the European Commission presented the European Green Deal, the most ambitious package of measures that should enable European citizens and businesses to benefit from sustainable green transition. The European Strategic Energy Technology (SET)-Plan aims to transform energy production and use in the EU with the goal of achieving EU worldwide leadership and cost reduction in the production of energy technological solutions capable of delivering EU 2020 and 2050 targets. SETIS is the monitoring and reporting scheme that supports the development and implementation of the European R&I Agenda. It will also contribute to the alignment of the SET-Plan, working jointly with DG ENER and DG RTD, with the objectives of the European Green Deal and the Recovery Plan	JRC.C.7	ENER	JRC	RTD	2021-01-01	2022-12-31	INS-RS	3001462	2	Update of the SETIS website	Maintain and further develop the SETIS web portal by improving functionality and adding content.	2021-12-31	Sci information systems and databases	N
																	3001463	1	SET-Plan progress report	Analyse and produce annual reports on the actions carried out by the SET Plan, addressing in particular the execution of implementation plans of the 10 SET Plan Actions as agreed with the Member States and the industrial and academic stakeholders. JRC experts will participate in the SET-Plan Temporary Working groups and support, wherever suitable, the monitoring of their relevant implementation Plans. This activity also includes ad-hoc support to policy DG on the relevant files.	2021-12-31	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3032227	3	SET-Plan progress report	Analyse and produce annual reports on the actions carried out by the SET Plan, addressing in particular the execution of implementation plans of the 10 SET Plan Actions as agreed with the Member States and the industrial and academic stakeholders. JRC experts will participate in the SET-Plan Temporary Working groups and support, wherever suitable, the monitoring of their relevant implementation Plans. This activity also includes ad-hoc support to policy DG on the relevant files.	2022-12-31	Science for Policy reports	N
																	3032228	4	Update of the SETIS website	Maintain and further develop the SETIS web portal by improving functionality and adding content.	2022-12-31	Sci information systems and databases	N
1. A European Green Deal	1.8 Agriculture and food systems	20411	INNO4GD	Innovation for Europe's Green Deal, focus on R&I and Investments for a Green and Competitive Economy	JRC.B.7	30206	TRIMIS	Transport Research and Innovation Monitoring and Information System	TRIMIS is the European Commission's knowledge hub on transport research and innovation. It is an open-access tool for mapping technology trends and research and innovation capacities in the transport field. The JRC is in charge of developing and managing TRIMIS since its launch in 2017 in the framework of a long-term strategic partnership with DG MOVE. TRIMIS is financed through an Adminstrative Arrangement with DG MOVE. The continuation of TRIMIS after 2021 is included in the Horizon 2020 Transport Work Programme with a budget of EUR 2 million.	JRC.C.4	MOVE	MOVE	ENV GROW RTD	2021-01-01	2024-01-31	CON-AA	3019579	2	Monitoring of transport R&I performance and objectives, assessing future transport technologies	TRIMIS will be further established as a dynamic policy support tool, by closely following and keeping track of developments in transport and by identifying new technologies. It will continue to provide support to transport policies by monitoring R&I initiatives in relevant thematic areas. To perform this task, assessments will be carried out based on the transport R&I database (including progress monitoring of R&I projects) and a Horizon scanning exercise. The analysis will be based on an up-to-date inventory of Future and Emerging Transport Technologies. STRIA roadmap Factsheets will be continuously updated, and progress reports based on R&I objectives and agreed Key Performance Indicators (KPIs) will be developed. The Transport R&I Scoreboard will continuously updated. TRIMIS will provide support to the definition of Horizon Europe's evaluation framework as well as its dissemination and exploitation strategies, based on the KPIs developed.	2024-01-31	Science for Policy reports	N
																	3019580	1	TRIMIS portal and transport R&I database	The TRIMIS portal has been continuously updated since its launch in September 2017 with new functionalities, data visualisations and a new design. The portal will continue to be regularly updated with new functionalities and data visualisations to ensure that it continues to meet stakeholder expectations and provides added value. The TRIMIS database of projects and programmes was developed for the portal released in 2017 and was further extended over subsequent years with increasing the number of projects and programmes and by extending it to cover transport technologies, partner organisations, etc. It will be further updated by implementing an improved structure, adding new projects/programmes, technologies and expanding to patents.	2024-01-31	Sci information systems and databases	N
																	3019626	3	Monitoring of transport innovation capacities at EU and Member State level	This deliverable provides for the continuous monitoring of transport R&D investments, financial and human resources and socio-economic aspects. Capacity maps addressing R&I roadmaps will be created, as well as specific country profiles for all Member States. Estimates of the current corporate and public research and development (R&D) investments in transport technologies in the EU will also be reported. The existing dataset on transport investments, financial and human resources will be regularly updated.	2024-01-31	Science for Policy reports	N
																	3019627	4	Communication and stakeholder engagement	The aim of this deliverable is to keep stakeholders, who use and contribute with information to TRIMIS closely involved in the process, through implementing the TRIMIS digital engagement strategy. TRIMIS Newsletters and TRIMIS research Digests will be published with an updated design. TRIMIS will be promoted on social media, including LinkedIn and Twitter. TRIMIS will also be promoted at major transport stakeholder events. Usage and stakeholder satisfaction will be monitored.	2024-01-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20411	INNO4GD	Innovation for Europe's Green Deal, focus on R&I and Investments for a Green and Competitive Economy	JRC.B.7	30609	GLORIA 2021	Global Industrial Research & Innovation Analyses 2020-21	This GLORIA (GLObal Industrial Research & Innovation Analyses) project will cover the project operations mainly during the years 2020-2021. It continues the 15-year old collaboration with DG RTD for the monitoring and evaluation of global corporate R&D investments, develops the tools and analysis in the project, increases collaboration and co-creation, and thus achieves increased relevance towards the new policy agenda. The project covers general R&I competitiveness monitoring and analyses towards the Green Deal via the EU R&D Investment Scoreboards and related activities. GLORIA 2020-2021 will benefit from the co-creation and co-implementation with DG RTD as key success factor for the project. This project covers the Administrative Arrangement with DG RTD F.	JRC.B.7	RTD	RTD	CNECT ENER GROW MOVE	2020-07-01	2022-12-31	CON-AA INS-RS	3034087	2	2021 EU Industrial R&D Investment Scoreboard	2021 EU Industrial R&D Investment Scoreboard report	2021-12-31	Science for Policy reports	N
																	3034088	1	Report on the results of the 2021 Survey	Summary report of the 2021 R&D Survey	2021-12-31	Science for Policy reports	N
																	3035117	4	Annual Report on research results and publications issued in 2021	Annual Report summarising research results and publications issued in 2021	2022-02-28	Science for Policy reports	N
																	3071089	3	Annual Report on research results and publications issued in 2020	Annual Report on research results and publications issued in 2020	2021-02-28	Technical Reports	N
																	3071090	5	Summary and recommendations of the studies regarding tool developments	Summary and recommendations of the studies regarding tool developments	2022-07-31	Technical Reports	N
																	3071096	6	Summary of the February/March 2021 GLORIA workshop	Summary of the February/March 2021 GLORIA workshop	2021-07-31	Technical Reports	N
																	3071097	7	Summary of the September/October 2021 GLORIA workshop	Summary of the September/October 2021 GLORIA workshop	2022-02-28	Technical Reports	N
																	3071098	8	Summary of the February/March 2022 GLORIA workshop	Summary of the February/March 2022 GLORIA workshop	2022-07-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3071099	9	Final review statement by independent experts	Review statement by independent experts	2022-11-30	Technical Reports	N
																	3073796	10	The 2020 EU Industrial R&D Investment Scoreboard	The 2020 Scoreboard report	2020-12-31	Technical Reports	N
																	3073797	11	Report on the results of the 2020 Survey	Summary report on the 2020 Survey	2020-12-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20411	INNO4GD	Innovation for Europe's Green Deal, focus on R&I and Investments for a Green and Competitive Economy	JRC.B.7	30611	INNO4GD STRATEGY	Industrial Innovation Strategy and Coordination	This project will connect the work of its mother project portfolio "20411-INNO4GD" across the JRC to allow for better thematic collaboration and a more structured information exchange. It shall also allow for a strategic positioning of the activities and critical introspection. This relies on the work of the project portfolio mapped to the needs of EU policy and other stakeholders. It will also closely interact with its sister project "30685 - Place-based and Digital Innovation for Europe's Green Deal" in the JRC.B portfolio "20631 - DIG-GREEN-TRAN Places and actors of the Digital and Green Transitions".	JRC.B.7	GROW	JRC	ENER MOVE RTD	2021-01-01	2022-12-31	INS-RS	3015151	2	CONCORDi 2021 proceedings	Proceedings of the 2021 CONCORDi conference	2022-04-30	Science for Policy reports	N
																	3015152	1	INNO4GD STRATEGY synthesis report	Synthesis report summarising the main activities undertaken	2022-12-31	Science for Policy reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20411	INNO4GD	Innovation for Europe's Green Deal, focus on R&I and Investments for a Green and Competitive Economy	JRC.B.7	30612	COMPLEX	Economic Complexity for industrial competitiveness and innovation	Economic Complexity is a novel method to analyse and forecast economic development, based on the dynamics of technologies and knowledge. Unlike traditional models, Economic Complexity uses bottom-up approaches recently developed in complex systems and big data analysis to discover hidden links describing economics as an evolutionary process of interconnected ecosystems and actors. The resulting connections between the technological, scientific or production activities are established with regard to their geo-localisation at the highest possible granularity. Further, Economic Complexity uses the network characteristics over time allowing for what-if scenarios, disruptive events and future projections. These enable the method to easily scale into technological and knowledge-related developments in terms of global to regional level, dynamics of specific knowledge and technologies and variations of these in time. Further, because Economic Complexity is able to compare single cases to the universe, these are especially suited for providing value-added to analyse policy-relevant issues in economic growth and competitiveness or industrial and innovation policy and their links to the territorial dimension.	JRC.B.7	GROW	JRC	ENER MOVE REGIO RTD	2021-01-01	2022-12-31	INS-RS	3064990	Deliverable3	Synthesis report	The report will summarise the main activities and achievements from the project.	2022-12-31	Technical Reports	N
1. A European Green Deal	1.8 Agriculture and food systems	20673	EU E&N	A European future for the EU enlargement and neighbourhood region, including more global outreach	JRC.B.3	30730	S3 AFRICA	Smart Specialisation Strategies with Africa	The EU is committed to strengthen its partnerships with Africa, its natural neighbour, in order to build a more sustainable future for all. As the most important trade partners and ODA donors, the EU and Member States are expected to deepen cooperation based around shared interests and values, so that both sides can achieve their common goals, and tackle together the common challenges of the 21st century. Bringing the EU-Africa relations to the next level thus implies that respective and common challenges are identified and tackled in order to bring Peace and Prosperity to our People and Planet with more balanced Partnerships (the 5 'P' of the UN 2030 Agenda for Sustainable Development). In line with Agenda 2030, the New Consensus explicitly mentions that the EU and its Member States will continue investing in Science, Technology and Innovation (STI) in and for developing countries, including for the enhancement of national innovation systems and for enabling environments for the digital economy and entrepreneurship. The importance of STI for achieving sustainable development is also highlighted in Agenda 2063 of the AU, the AU's STI Strategy for Africa and African development plans. In the latest decade, several African countries have designed STI strategies and funds to support STI-led development. This adds to the initiatives from the African Science Granting Councils and the Regional Economic Communities. Nevertheless, the impacts of STI on the society, especially on vulnerable socio-economic and -geographical groups are still on hold. Consequently,	JRC.B.3	INTPA	JRC JRC	EEAS INTPA	2021-01-01	2022-12-31	INS-ER INS-RS	3030328	30730	Smart Specialisation for sustainable industrial and territorial development in Rwanda	The science for policy report is based on the ongoing international Smart Specialisation cooperation with Rwanda. The report provides an evidence-based analysis of the challenges and opportunities for launching a Smart Specialisation roadmap in Rwanda. It provides a baseline Smart Specialisation mapping (SWOT type, qualitative, etc.) and offers options and recommendations for elaborating and implenting a smart specialisation strategy for sustainable territorial and industrial development. It should also provide guidelines and inspiration for other sub-saharan African economies. The scientific and policy analyses rely on the joint contribution of the JRC, Rwanda researchers and science for policy officers and senior S3 academic experts from the EU. The report also builds upon the prior scientific works and cooperation outcomes on Smart Specialisation in Africa led by JRC B3 (2017-2020).	2021-02-28	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
1. A European Green Deal	1.8 Agriculture and food systems	20673	EU E&N	A European future for the EU enlargement and neighbourhood region, including more global outreach	JRC.B.3	30732	S3 WORLD	S4P Worldwide	Recent experiences of Smart Specialisation (S3) have confirmed that this approach is not only valuable at European level, but also at a global scale, in particular thanks to its malleability and potential for application in all territories, be it developed or developing countries, or economies in transition, thereby avoiding "one size fits all" policies. There are diferent experiences worldwide. Over the past years, Latin America has been one of the most dynamic geographical zones outside the EU to advance on innovation policies inspired by the concept of Smart Specialisation developed in the EU. In 2017, JRC has analysed tendencies of Smart Specialisation in six Latin American countries (Mexico, Brazil, Colombia, Peru, Chile and Argentina) . This work confirmed that the Smart Specialisation concept, currently implemented in the EU, is being widely considered by several countries and regions of Latin America. Furthermore, cooperation frameworks between the EU and Latin America on Smart Specialisation have increased, thereby leading to a common regional innovation language among stakeholders from both continents. So far, collaboration with Latin America on S3-related topics has taken place in the context of various projects and frameworks, notably the EU-Community of Latin American and Caribbean States (EU-CELAC), the International Urban Cooperation (IUC) Programme, sectorial dialogues, INNOV-AL and INNOVACT. Overall, "Made in EU" Smart Specialisation embeds a strong added value for Latin America from at least four angles: (i) first, Latin America can benefit from the European methodology on Smart Specialisation and	JRC.B.3	INTPA	INTPA	EEAS GROW REGIO RTD	2021-01-01	2022-12-31	CON-AA	3011504	LatAm1279	Final report	Final report highlighting key achievements and future avenues for action	2021-12-31	Technical Reports	N
																	3011505	LatAm1193	Interim report taking stock of progress	Interim report taking stock of progress	2021-01-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20380	CORSA	Wireless Communications and Radio Spectrum	JRC.E.2	30306	Specman	Spectrum Management and Regulation	A harmonised EU Spectrum policy is one of the main elements of the Digital Single Market and Digital Europe. Spectrum decisions have a direct long-term impact on not only the fast growing digital communications based on mobile broadband and 5G networks but also the emerging digitalised infrastructures such as intelligent transport systems, Internet of Things, Industry 4.0, Smart Grid and eHealth. Since 2012, JRC has supported CNECT in spectrum regulation. JRC studies have helped in resolving technical issues on spectrum sharing and harmonization in the EU, including the spectrum for 5G and next generation of wireless networks (WiFi) in 5Ghz and 6GHz bands. JRC has provided expertise in the context of EC mandates and European standards, to Conference of European Postal and Telecommunications Administrations (CEPT) and European Telecommunications Standards Institute (ETSI). Apart from creating the Commission's Radio Spectrum Inventory on the allocation and use of radio waves in the EU, the JRC assisted DG CNECT in the area of Broadband infrastructure mapping and mobile roaming (Roam like Home) through measurements of network performance and user experience with its mobile app NetBravo. Currently, JRC is providing advice to CNECT, CEPT and ETSI in the context of EMF in 5G networks and a technology neutral basis for spectrum sharing in cooperative intelligent transport systems (C-ITS).	JRC.E.2	CNECT	CNECT JRC	(blank)	2021-01-01	2023-12-31	CON-AA INS-UR	3039815	2	Geolocation database as spectrum sharing tool for WAS/RLANs	Input to the Commission on development of a geolocation database as spectrum sharing tool for WAS/RLANs in suitable bands for the operation of WAS/RLANs with focus on the bands 5 GHz, 6 GHz and 60 GHz (57-71 GHz) (and their relevant sub-bands)	2021-05-31	Sci information systems and databases	N
																	3039816	3	Assessing and measuring EMF exposure levels in 5G networks	Focus on aggregate EMF limits caused by small cells taking into account active antenna systems, including MIMO, Massive MIMO and beamforming systems.	2021-12-31	Technical Reports	N
																	3039817	1	Spectrum sharing studies in relation to the EC mandates to CEPT	(a) Input to CEPT and ETSI on coexistence studies between C-ITS communication technologies in the 5.9 GHz band; (b) Input to CEPT on Mandate to amend 5 GHz RLAN Decision 2005/513/EC (c) Input to CEPT on Follow-up Mandate on 5G spectrum above 24 GHz (d) Input to CEPT on Mandate on MCA (Mobile Communications on board Aircraft)	2021-05-31	Technical Reports	N
																	3039887	4	Dynamic spectrum sharing including artificial intelligence	Facilitation of dynamic sharing methods including artificial intelligence (AI) in spectrum management - The JRC could provide scientific and technical input to CEPT and ETSI in the context of existing and future work items of the above body on this topic. JRC would design and implement an initial version of a spectrum sharing RF emulator testbed (similar to the DARPA's Colosseum RF emulator) and make it available to EU stakeholders to test and validate ML/AI techniques for spectrum sharing.	2022-05-31	Technical systems	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20380	CORSA	Wireless Communications and Radio Spectrum	JRC.E.2	30682	TANGO	Technology Assessment of Next-Generation Vehicular Communications	Vehicular communications are a key enabler of Connected, Cooperative and Automated Mobility (CCAM). These technologies allow drivers and vulnerable road users to extend their perception range beyond the human eye limit. Current vehicular communications standards, such as ITS-G5 and LTE-V2X, target basic safety services (also known as day-1 services), such as emergency brake alert, collision warning, road hazard alert, blind spot detection, etc. By contrast, next-generation vehicular communications (namely, 802.11bd and NR-V2X) aim at enabling advanced use cases such as increased situational awareness, sensor sharing, coordinated driving/intention sharing, real-time infrastructure updates, etc.	JRC.E.2	CNECT	JRC	GROW MOVE RTD	2021-01-01	2023-12-31	INS-RS	3006713	MIDTERM	Midterm activity report	The midterm activity report will summarise all technical activities and results obtained by the project's mid-point (June 2022)	2022-06-30	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3006714	Final	Final activity report	The final activity report will summarise all technical activities and results obtained by the end of the project's third year (2023)	2023-12-31	Technical Reports	N
																	3006715	5GAA	Technical contributions to 5GAA Working Groups 3 and 4	This deliverable will encompass all technical contributions to work items in the framework of the 5GAA Working Group 3 (Evaluation, Testbeds and Pilots) and WG4 (Standards and Spectrum). In particular, the JRC will contribute to ongoing discussions in 5GAA WG3 on radio spectrum needs for advanced C-ITS use cases. The main goal is to assess whether requests for new C-ITS spectrum from industry associations (e.g., 5GAA and ACEA-CLEPA) are consistent with actual service needs, and to feed back our findings to the policy DGs working on such files (e.g., DG CNECT, DG MOVE).	2023-12-31	Technical Reports	N
																	3006716	ETSI	Technical contributions to ETSI TC ERM TG37 on the topic of ITS-G5/LTE-V2X coexistence	This deliverable will encompass all technical contributions to ETSI TC ERM TG37 on the topic of ITS-G5 and LTE-V2X coexistence, with a particular focus on the simulation and experimental evaluation of the coexistence mechanisms proposed in ETSI TR 103 766. In particular, the JRC will contribute to ongoing discussions in ETSI TC ERM TG37 on the performance evaluation of coexistence mechanisms by sharing experimentation results with the group's experts. The final objective of this group's Work Item is to define an ETSI Technical Specification for one or various coexistence methods in the 5.9 GHz band. This method(s) will eventually become an integral requirement of EN 302 571 – the Harmonised European Standard for radiocommunications equipment operating in the 5.9 GHz band.	2021-12-31	Contributions to standards	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20380	CORSA	Wireless Communications and Radio Spectrum	JRC.E.2	30785	Safer5G	5G Network Assessment in terms of Safety, Security and Performance	5G networks are expected to be fully developed in Europe by 2025. However their deployment is faced with two challenges, i.e. safety for public health and security. In addition, 5G network performance needs to be assessed in the broader EU policy context of ultra-broadband and roaming. The JRC has already started receiving questions from the public and the European Parliament on 5G safety, in terms of human exposure to electromagnetic fields (EMFs). Since it uses new technologies and higher frequencies, it is being perceived as a new source of health risk. To unlock this debate, it is essential to investigate how to measure the EMF of 5G networks so that exposure is assessed in terms of the baseline of international guidelines (ICNIRP) and the legislation. Assessment is currently done using worst case scenarios and methods that aren't suitable for the 5G technology. A flexible model based on realistic operating parameters needs to be developed. As 5G deployment gathers pace, questions on its safety will increase in the future and evidence-based support to DGs (SANTE,CNECT) will be needed. 2019 saw a Commission's decision for Member States to provide a roadmap for 5G security assessment in their territories. However this is only the first step to addresss this political and technical challenge. Security has always been important in wireless networks. As 5G networks are software-based, telecom network functions are defined in software running on servers, creating a sophisticated cyber-physical system. New use cases (automotive, health, industry), critical to the economy and safety, will introduce new challenges in	JRC.E.2	CNECT	JRC	SANTE	2021-01-01	2023-12-31	INS-RS	3016182	D1	Technical report on the assessment of 5G networks	This report will provide a general overview of 5G networks in Europe, in terms of performance, safety and security. It will include information collected from netBravo application (which will be updated for 5G networks), roaming tests and measurement campaigns in Europe. The report will also identify the most critical aspects of the security security mechanisms in 5G networks to support future regulation and policy. The report will also include a feasibility assessment of Quantum Key Distribution for secure communications. Data on safety, performance and security of the networks and the relevant policy of the member states will be also provided.	2023-12-31	Technical Reports	N
																	3016197	D2	5G testbed for safety and security	A 5G testbed will be deployed in the JRC site. Its purpose will be twofold. It will be used so that electromagnetic fields from 5G networks can be properly assessed. Impact from MIMO, beamforming antennas will be examined for active and passive users. Millimeter wave frequency exposure will be also investigated. Input will be provided to standardization organizations and to the European Commission for the development of the updated guidelines on EMFs. In addition, the testbed will be used for the assessment of the security mechanisms of the 5G networks so that technical competence will be achieved within the CORSA team, which will enable JRC to contribute to policy and standardization within Europe. The Quantum Key Distribution system will be integrated in the 5G test network so that 5G security enhancement with QKD can be tested.	2022-12-31	Science for Policy reports	N
																	3016222	D3	Development of a communication link with the public - transparency to citizens	A lot of concern has been raised in the public about health impact of 5G networks and some municipalities have even blocked its deployment. Goal of this deliverable will be the development of a neutral communication link with the public so that exposure levels can be explained in a simple way. This link will guarantee the safety of the citizens while enabling the use of technology innovation. It will consist of mapping exercises of the level of EMFs in Europe. In addition, exposure from user equipment will be assessed using simulations software and practical instructions on reducing this exposure will be given. Mobile applications for EMF assessment and personal EMF monitoring devices will be evaluated in the anechoic chamber so that the public will not be misinformed of the levels of exposure.	2021-12-31	Science for Policy reports	N

JRC 2021 - 2022 DETAILED WORK PLAN (JPB extract as of 04 06 2021)

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2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20380	CORSA	Wireless Communications and Radio Spectrum	JRC.E.2	31020	EMEX-5G	Electromagnetic Exposure in 5G Networks for Health and Safety	Public concerns in the past two decades about the effect of electromagnetic radiation from mobile masts on health are well known. Scientific studies and legislative measures at the European level aim to minimise the risks to health due to EMF exposure. EU Directive 2013/35/EU deals with the minimum health and safety requirements regarding the exposure of workers to the risks arising from physical agents including electromagnetic fields (EMF). As the next generation of mobile communications technologies ('5G') are being developed, tested and integrated for the roll out of 5G networks in the early 2020s, regulators are once again faced with new challenges posed by the innovative 5G radio access networks, including the EMF exposure to health. Current EU and national legislations on the safe limits of EMF exposure to humans are based on the received value of non-ionising radiation due to radio frequency waves. The methodology to calculate the received exposure by a subject is based on the assumption of a uniform (isotropic) and predictable radiation pattern from the transmitting antenna. The transmitting antennas in the 5G mobile networks will be technologically very different from the current ones. They will direct radio waves towards the users through focussed beams rather than emitting isotropically. It means that the assumptions used in current models and simulations in assessing the amount of electromagnetic exposure to humans will not be valid any more. Expected impacts and outlook: (1) The results will inform DG SANCO on the implementation of the EMF Directive and its further revision in view of the future 5G deployment. (2) It will	JRC.E.2	CNECT	JRC	SANTE	2019-09-01	2021-08-31	INS-ER	3062855	1	Final report on Electromagnetic expsoure of 5G Networks on Health and SafetyFinal report on Electromagnetic expsoure of 5G Networks on Health and Safety	The final deliverable will be based on the following intermediate activities and related reports: 1. Overview of the current scientific debate on the subject (M1-M6) 2. Evaluation of current EMF exposure models in the context of 5G technologies and use cases (M6-M12) 3. Elaboration of Ispra site-based 5G deployment scenario as a reference test environment (M6-M12) 4. Development of an improved exposure model (M12-M18) 5. Simulation results for the Ispra site model. Methodology (M13-M21) 6. Field measurements and model validation (M18-M24).	2021-08-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20401	Green S4	Smart Specialisation and place-based innovation for transformation towards greener & smarter regions	JRC.B.7	30728	DigInnova	Digital Innovation	Until recently, digital technologies were considered as an innovative means to increase business efficiency and to expand to new markets. The 2020 crisis showed, however, that they are critical for the very existence of businesses irrespectively of their size and location. Considering that only 20% of European SMEs are highly digitised, the global lockdown exposed their weaknesses and forced many of them into bankruptcy. Against this background, digital transformation of European firms is not only a matter of achieving productivity gains and keeping up with global competition, but it is essential for the resilience of the European economy to external shocks. The Digital Europe Programme (DIGITAL) is the newest policy framework to support the digital transformation of the European industry, and its spread across Europe. One of the main aims of this new Program is to support the creation of a pan-European network of Digital Innovation Hubs (DIHs). DIHs are regional one-stop-shops providing technological expertise and experimentation facilities for the digital transformation of the industry, as well as facilitating access to finance. They are open to private businesses (notably small and medium size enterprises) and public administration and serve as access points to digital capacities including, among others, high performance computing, artificial intelligence and cybersecurity. Due to their proximity to local businesses, they help to adapt technological offerings to their specific needs and reinforce regional/national innovation strategies such as Smart Specialisation priorities of the regions in which they operate.	JRC.B.6	CNECT	CNECT CNECT JRC	GROW REGIO	2021-01-01	2023-12-31	CON-AA CON-AA INS-RS	3007696	DI3	Digital innovation stakeholders interaction	In order to better understand the needs of digital innovators, the deliverable includes interactions with stakeholders supporting digital innovation at the European, national and regional level.	2023-06-30	Science for Policy Briefs	N
																	3007698	S3PDIH34	DIH Survey (3rd edition)	Following the previous editions of the EU Survey on DIHs run among DIH managers and regional decision makers in 2019 and 2021, a 3rd edition is envisaged in 2023 (to be prepared in the 4st quarter of 2022)	2023-03-31	Technical Reports	N
																	3007699	S3PDIH35	Targeted Policy Support	The support activities will aim to enhance the territorial dimension and visibility of the DIHs initiative (including EDIHs under DEP) in line with Smart Specialisation Strategies (S3) in the new programming period (2021-2027)	2023-06-30	Science for Policy Briefs	N
																	3061299	DI1	Assessing the scope and effectiveness of policies supporting digital innovation	The deliverable will analyse and assess the scope and effectiveness of policies supporting digital innovation. It will look at such initiatives as the DIHs/EDIHs and try to assess the accuracy of their offerings for a successful digital transformation of businesses.	2021-12-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20415	AI & DT	Artificial Intelligence and Digital Transformation	JRC.B.6	30514	AI Watch	Artificial Intelligence Knowledge Service	In 2018, the European Commission published two communications on Artificial Intelligence (AI): in April, presenting a European strategy for AI, and in December on a Coordinated Plan on AI with EU Member States. The Coordinated Plan foresees the creation of AI Watch, the Commission "Knowledge Service to Monitor the Development, Uptake and Impact of Artificial Intelligence for Europe". The AI Watch project responds to the requirements of the Coordinated Plan for AI to monitor the development, uptake and impact of AI for Europe. The project will also contribute to the periodic revisions of the Coordinated Plan (e.g., foreseen in 2020 by COM(2020)65final: White Paper on Artificial Intelligence).	JRC.B.6	CNECT	CNECT CNECT JRC	DIGIT GROW	2019-01-01	2027-12-31	CON-AA CON-AA INS-RS	3004977	ıWatch202	AI Watch 2022	Report summarising on the scientific and policy highlights in 2022 of AI Watch. This is a tentative deliverable, provided that the AA with DG CNECT is extended beyond 2021. This report will summarise the main highlights from the different reports published by the project in 2022.	2022-12-20	Science for Policy reports	N
																	3004978	ıWatch202	AI Watch 2021	Report summarising on the scientific and policy highlights in 2021 of AI Watch. This report will summarise the main highlights from the different reports published by the project in 2021 (e.g. on the European AI industrial, technological and research ecosystem, EU Member States' national initiatives on AI, the evolution of uptake of AI applications across the economy, of AI technology, of the European market shares in robotics, the use and impact of AI in public services, the AI index, standardisation activities on AI, and other AI-related aspects such as education and skills.)	2021-12-20	Science for Policy reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20415	AI & DT	Artificial Intelligence and Digital Transformation	JRC.B.6	30515	IDITES	The Impact of Digital Transformation on the Economy and Society	The project directly addresses two of the streams of action of the EC: (i) A technology that works for people, and (ii) A fair and competitive economy. In such framework, it directly studies emerging technologies and their ecosystems, also analysing how such technologies drive further innovation and change, and how they impact on economy and society. It also studies the role of innovation and SMEs (this way also contributing to the Industrial Strategy for Europe), focusing as well on education and skills (feeding into the Digital Education Action plan and Skills agenda). It addresses economic and social analysis also with respect to regional variations across Europe. The project founds direct reference in the Mission letter of VC Vestager: "Over the next five years, Europe must focus on maintaining our digital leadership where we have it, catching up where we lag behind and moving first on new-generation technologies. This must cut across all of our work, from industry to innovation." (Mission letter of Margarethe Vestager, Executive Vice-President for a Europe fit for the Digital Age). In this perspective, it aims at providing insights on how the digital transformation can strengthen the European industry and innovation capacity, and address societal challenges while preserving our European values. It builds on a decade's experience in supporting policy-relevant initiatives such as the Digital Economy and Society Index (DESI) by providing scientifically robust measurements of digital transformation, going beyond the ICT sector to target emerging technological domains suitable to have high transformational potential on both the economy and citizens' life. The	JRC.B.6	CNECT	CNECT CNECT CNECT	(blank)	2021-01-01	2023-12-31	CON-AA CON-AA CON-AA INS-RS	3005281	D2	IDITES Scientific and Policy Highlights 2022	Scientific and policy highlights based on the PREDICT statistical product and on other project's outcomes. Comparable statistics on ICT R&D, indicators and analysis describing techno-economic segments driving digital transformation of economy and society	2022-11-30	Technical Reports	N
																	3005282	D1	IDITES Scientific and Policy Highlights 2021	Scientific and policy highlights based on the PREDICT statistical product and on other project's outcomes. Comparable statistics on ICT R&D, indicators and analysis describing techno-economic segments driving digital transformation of economy and society.	2021-11-30	Technical Reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20415	AI & DT	Artificial Intelligence and Digital Transformation	JRC.B.6	30516	INNPULSE	Innovation of Public Services and Digital Transformation of Governance	Like other technological revolutions before, the digital has transformed our working environment, our social interactions, and in fact almost all aspects of our lives – also on a global scale. However, never has a revolution taken place so fast, so effectively and empowered so many citizens to take part in activities around the world without physical presence. For the EC, and for the JRC in particular, this translates to the overarching research/policy challenge "How can a deep understanding of digital transformation help policy-makers address the challenges facing EU society over the next decades?" Digital technologies are also transforming the way public services are delivered and helping to generate new ways of interacting between governments, businesses and citizens. The increasing drive to digitalisation first evolved in translation of existing services to e-government models. Over recent years, the pace of change has been immense, fuelled by an increasing reliance on technologies, transformation in the role of the public sector and increased expectations of businesses and citizens on how governments should interact with them. These technological 'disruptions' in the role of government and methods of public service delivery are very closely linked with the rise in importance of data as a basis for decision making, transactional activity and spread of knowledge. The outbreak caused by the COVID-19 crisis showed - more than ever - the importance of digital technologies to sustain governance processes and the need to	JRC.B.6	CNECT	DIGIT JRC	DIGIT GROW JRC	2021-01-01	2023-12-31	CON-AA CON-IA INS-RS	3005218	DTGPSI202	Digital Transformation of Governance and the Public Sector – Scientific and policy highlights 2021	Report of the project activities of the first year, including: •Detailed research roadmap •Scientific publications on digital transformation of governance and implications for the public sector •Overview of models for policy co-design, co-development, and co-delivery in a digital society •First set of pilot studies •Scientific publications	2021-12-15	Technical Reports	N
																	3005221	DTGPSI202	Digital Transformation of Governance and the Public Sector – Scientific and policy highlights 2022	Report of the project activities of the second year, including: •Scientific publications on digital transformation of governance and implications for the public sector •Second set of pilot studies •Overview and assessment of possible future scenarios for digital governance and the provision of innovative public services •Reflections on the project for future planning	2022-12-15	Science for Policy reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20415	AI & DT	Artificial Intelligence and Digital Transformation	JRC.B.6	30517	HUMAINT	HUman behaviour and MAchine INTelligence: Understanding the impact of artificial intelligence on human behaviour	This HUMAINT project addresses the key concepts addressed at COM(2020)65final: White paper on Artificial Intelligence, including explainability and transparency of AI, diversity, non-discrimination and fairness of AI algorithms, human-AI interaction and oversight, wellbeing, the impact of AI on jobs and skills, and the influence of AI on European culture and creativity. We will consider Artificial Intelligence as well as automated systems. The project will perform studies in sectors with different characteristics and societal impact, including criminal justice, healthcare, transport, children and music and creativity.	JRC.B.6	JUST	JRC JRC	CNECT	2021-01-01	2023-12-31	INS-CDP INS-RS	3005166	2	Science and policy highlights 2021	This deliverable summarizes the main project achievements in 2021 related to the topics of the project: machine learning algorithms for decision making, the occupational impact of AI, the role of social robots on human development, and the use of AI for music creation and listening. The deliverable highlights the main policy challenges and insights provided by the project, and will be supported by a series of scientific publications and technical reports.	2021-12-31	Science for Policy reports	N
																	3005167	3	Science and policy highlights 2022	This deliverable summarizes the main project achievements in 2022 related to the topics of the project: machine learning algorithms for decision making, the occupational impact of AI, the role of social robots on human development, and the use of AI for music creation and listening. The deliverable highlights the main policy challenges and insights provided by the project, and will be supported by a series of scientific publications and technical reports.	2022-12-31	Science for Policy reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3005168	1	Scientific Output	This deliverable reports on most relevant HUMAINT scientific output and complementary material. This includes peer-reviewed publications at international conferences and journals related to the main research topics of our research: machine learning algorithms for decision making, the occupational impact of AI, the role of social robots on human development, and the use of AI for music creation and listening. We will report in this deliverable on the scientific advancements of the project.	2022-12-31	Journal contributions (Scopus)	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20421	D+P ECONOMY	Data and Platform Economy	JRC.B.6	30349	DATA-REG	Data economy and regulation	The Data Economy is rapidly emerging and impacting many areas, from the economy to policy. It is a frontier research domain that remains somewhat unsettled and still lacks a comprehensive vision of the interaction between data, markets, agents, institutions, productivity, governments, innovation and welfare. The portfolio aims at providing solid insights around these issues, as well as robust evidence on its evolution and impact. The portfolio also aims at supporting the European Data Strategy.	JRC.B.6	CNECT	CNECT CNECT JRC	(blank)	2021-01-01	2024-12-31	CON-AA CON-AA INS-RS	3001626	DATAREG0	Implementing the EU Data Strategy - Scientific highlights	Scientific publications related to the implementation of the data strategy.	2022-11-30	Journal contributions (Clarivate)	N
																	3001627	DATAREG0	Evolution of the European Data Economy	Analysis on how the data economy has evolved as a result of the regulatory measures under the data strategy. This report will summarise the findings developed in the project to support impact assessments for and evaluations of policy initiatives under the Data Strategy.	2022-12-15	Science for Policy reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20421	D+P ECONOMY	Data and Platform Economy	JRC.B.6	30518	ENABLED	Data ecosystems and enablers	The European Strategy for Data (COM(2020)66 final) outlines an ambitious agenda for the establishment of a single market for data in Europe. A data-agile approach is envisaged which involves the collaboration of multiple actors (incl. public, private and citizens) on data-related matters. Within this context, there are many outstanding technical and organisational questions that are critically important for the successful implementation of the strategy. Concrete approaches that bring together a multitude of emerging technologies, data sources, standards, licenses and actors should be thoroughly investigated. In addition, multiple data ecosystems are already emerging in Europe on different levels (city, regional, national) and in different contexts. They can act as use cases for the better understanding of a data-agile economy. The JRC is well equipped to investigate those fragmented use cases in order to better understand the socio-economic impact of emerging data ecosystems along with the different actors, roles, barriers, enablers, and interactions with a European dimension in mind.	JRC.B.6	CNECT	CNECT CNECT DIGIT ENV GROW	DEFIS DIGIT ENV	2021-01-01	2024-12-31	CON-AA CON-AA CON-AA CON-AA CON-AA INS-RS	3004868	OLD	Data spaces sandbox	Obsolete deliverable	2021-12-31	Technical systems	N
																	3004951	ENABLED2	Data Ecosystems Enabling Toolbox	The deliverable will encompass different aspects related to the successful establishment and operation of data spaces. This will be done in a horizontal manner, independent from a particular use case or application domain. Both the national and sub-national (regional and local) will be targeted. The toolbox will also include best practices and guidelines on the design, security, legal and organisational aspects of the use of emerging technologies (such as APIs and IoT) that enable data ecosystems. Different scenarios and architectural approaches will also be evaluated. Where applicable, references and overview of GitHub repositories containing source code and technical documentation will be included for further reuse. Approaches such as a self-assessment tool for organisations to evaluate their data-readiness will be analysed, and if feasible further developed.	2022-06-30	Technical Reports	N
																	3004970	ENABLED0	Support for the establishment of the European Green Deal data space	Multiple aspects related to the establishment of the European Green Deal data space will be elaborated, in particular related to the successful scoping and implementation of the (i) GreenData4all and modernising the reference architecture and technological stack of the INSPIRE Directive, and (ii) the Destination Earth initiatives will be included in this deliverable. A summary of concrete activities for improving the access and usability of particular datasets will be covered. In addition, the deliverable will address (i) cross-cutting issues specific to the Green Deal data space derived from work on Deliverables ENABLE01 and ENABLE02, but also (ii) a summary of the lessons learned from the work on the European Green Deal data space that can be reused in other domains.	2022-12-31	Technical Reports	N
																	3010180	ENABLED0	Data ecosystem enablers – scientific highlights & policy recommendations	This deliverable will include a broad spectrum of scientific highlights and policy recommendations based on the experiments and studies carried out in the project, covering actors, relationships, barriers, enablers and opportunities, including at technical level and incentive aspects, at regional/city, national and European level. This deliverable will summarise the policy-related findings from the different strands of activities, including relevant publications and JRC technical reports. Particular emphasis will also be put on work on the support to improving the accessibility and usability of High-Value datasets as defined by the Open Data Directive.	2022-11-30	Science for Policy reports	N
																	3094818	4	ER-PDT Trusted Personal Digital Twins in a Transformed Society	The deliverable will consist of a science-for-policy report based on the outcomes of two expert workshops. It will develop policy recommendations, based on a summary of the state-of-play, possible future trends and issues.	2022-03-31	Science for Policy reports	N

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2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20421	D+P ECONOMY	Data and Platform Economy	JRC.B.6	30629	PLATFORM-REG	Platform economy and regulation	Online platforms are firms that use digital technology to enable interactions between users and generate value out of them. They are playing an ever more central role in social and economic life. They lower transaction costs in the market, generate strong economic benefits for users and operators, and create new markets that were not feasible prior to the digital era. Online platforms are strong drivers of innovation and play an important role in Europe's digital society and economy. At the same time they may also induce various types of market failures, including market power and monopolistic behaviour, externalities inside and outside the platform, asymmetric information between platform operators and users, equity concerns in the distribution of the welfare that they generate and regulatory failures when existing regulation is no longer adapted to the behaviour of these new firms. In addition, they collect data on these interactions that constitute an essential driver of platform dynamics. The Commission (2019-2024) has committed to upgrade the Union's liability and safety rules for digital platforms, services and products, with a new Digital Services Act. Currently, the team manages an AA (DSA) with CNECT F2 in order to assist them in the preparation of evidence to support the activities of the production of the Impact Assessment Report that will support the legislative action already in the fourth quarter of 2020. This project focuses specifically on the interaction between platforms and the regulatory setting in the EU, and the possible need for changes in these regulations.	JRC.B.6	CNECT	CNECT CNECT CNECT JRC	(blank)	2021-01-01	2025-12-31	CON-AA CON-AA CON-AA INS-RS	3005820	ATFORMRE	Evolution of the competitive landscape of online platforms	This deliverable will provide an overview of the main changes in the market structure where online platforms operate in Europe and will assess the competitive landscape.	2022-12-15	Science for Policy reports	N
																	3018042	ATFORMRE	The European online platform economy	Scientific publications related to the Digital Services Act, market power of online platforms, e-commerce and geo-blocking	2022-12-01	Journal contributions (Clarivate)	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20428	CITYSCAPES	Smart Cities, Complexity, and Analysis Platforms for Engineering Systems	JRC.E.4	30375	DIGIPLATS	Smart City Digital Platforms	Within the priority 'A Europe fit for the digital age', the EU's digital strategy aims to make digital transformation work for people and businesses, while strategically contributing to achieve Green Deal goals. The action 'European data strategy' aims to make the EU a leader in a data-driven society. Data are at the core of digital transformation and, as indicated in the European strategy, ensuring access to ever-growing volume of data and the ability to use it are essential for innovation and growth. Data-driven innovation can bring major and concrete benefits to the citizens and to the European economy, from enabling better policymaking to upgrading public services. It is crucial to identify and invest in the digital technologies that will strengthen European strategic autonomy and industrial future. The role of Smart Cities within the European Data Strategy is therefore crucial but technology implementation and adoption face challenges of systems integration, data and standards harmonization, interoperability, and analysis strategies to fully exploit the data potential. Data-driven innovation can lead to major benefits to the European citizens but the role of the Commission is fundamental and needed in ensuring a fair and effective cross-sectors development. Moreover, as highlighted in the Council conclusions COM/2017/0479 final and COM(2017) 376 final, the competitiveness of the EU economy depends directly on its ability to continuously adapt and innovate by investing in new technologies, digitalising its industrial	JRC.E.4	CNECT	JRC	DIGIT	2021-01-01	2022-12-31	INS-RS	3002143	DCP01	Smart City Platform	The SMART City platform testbed system will be implemented considering innovation of the IT Architecture and novel solutions towards improved performance and high data streams to solve the challenge of integration of large numbers of sensors. The platform will be based on the EC CEF Context Broker for cross-sector adoption and will offer the possibility to integrate JRC–wide heterogeneous sensor networks for the rapid implementation of dedicated solutions to specific issues under investigation in the JRC Units concerned. Moreover, in the Project we will develop the specific case of the integration of SMART infrastructures (e.g. bridges) for the support to the European policy towards the monitoring and the maintenance of critical transportation structures.	2021-12-31	Technical systems	N
																	3010016	DCP02	The role of the EC Context Broker for the integration of critical infrastructures into SMART Cities	The deliverable investigates the challenges for the integration of SMART Infrastructures into SMART City systems and the integration of AI solutions for Urban Intelligence. The work will investigate the challenges of systems and data interoperability along with the integration of IoT devices for heterogeneous applications (e.g. the integration of infrastructural monitoring systems and the orchestration of city management strategies) along with the study of the integration of critical infrastructures (e.g. bridges). SMART City systems usually deal with slow pace data whereas the monitoring of critical structures such as bridges face high data acquisition rates not directly compatible with the actual IT architectures. The next generation SMART Cities will need to cover all the components vital to the functioning of the urban space and the requirements in terms of data standards, IT architecture and interoperability will be addressed for the definition of standards.	2022-12-31	Technical Reports	N

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2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20428	CITYSCAPES	Smart Cities, Complexity, and Analysis Platforms for Engineering Systems	JRC.E.4	30665	DYNAMOMO	Monitoring and Modelling Dynamical Complexity in the Urban Environment	According to the UN, Europe's level of urbanisation is expected to increase to approximately 83.7% in 2050. This poses extreme challenges to the European Urban environments in terms of efficiency, digitalisation and green economy. Smart Cities are therefore crucial for the progress of European urban environments along with a clear understanding of urban dynamics and the analysis of big data from ubiquitous urban sensors. The adoption of technology and innovation is essential to provide citizens with efficient, healthy and secure environments whereas the availability and accessibility of big data can boost SMEs efficiency and innovation both in terms of digital transformation and green economy. Local data from sensors can provide vital information for the functioning of modern cities, providing that full interoperability is ensured and strategies for data analysis are adopted to manage data flows within the SMART city context. This Project will address the data analysis challenges of transforming the built environment into the SMART City paradigm with cooperation of smart city urban platforms as proposed by the EU Declaration "Join, Boost, Sustain" concerning the joining forces to boost sustainable digital transformation in cities and communities in the EU. The next phase of SMART Cities will require the integration and orchestration of a significantly larger number of IoT devices, including privately operated sensor networks and crowd-sourced data. The specific case of AI-based decision-management for civil infrastructure monitoring, smart buildings, and city administration will be examined in order to highlight IT	JRC.E.4	CNECT	JRC	REGIO	2021-01-01	2022-12-31	INS-RS	3017798	01	Support to the Urban Agenda for the EU - Security in Public Spaces.	The activity sees the direct involvement into the Partnership of the Urban Agenda for the EU - Security in Public Spaces. Support and contribution will be provided to the defined Action for the development of Indicators for SMART and Safe Cities. The Project Team contributed already to the Urban Agenda Objectives preparatory meetings, and further direct involvement is planned for the whole duration of the Partnership.	2022-12-31	Technical Reports	N
																	3020951	02	Complex techno-social systems	The work consists of the development of mathematical and computational methods to model complex techno-social systems like citizens and SMART Cities interactions to achieve prediction and predictability of urban dynamics (e.g. disease-spreading due to aggregation in public spaces).	2022-12-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20428	CITYSCAPES	Smart Cities, Complexity, and Analysis Platforms for Engineering Systems	JRC.E.4	30667	FORECOUNT	FOREcasting European COnstructions and Urban Networks Technologies	To exploit the potential for increasing material efficiency and reducing climate impacts, the Commission will launch a new comprehensive Strategy for a Sustainable Built Environment (COM(2020) 98 final) . This Strategy will ensure coherence across the relevant policy areas such as climate, energy and resource efficiency, management of construction and demolition waste, accessibility, digitalisation and skills. Moreover, building on the single market and the potential of digital technologies, the circular economy can strengthen the EU's industrial base and foster business creation and entrepreneurship among SMEs. Innovative models based on a closer relationship with customers, mass customisation, the sharing and collaborative economy, and powered by digital technologies, such as the Internet of Things, Big Data, blockchain and artificial intelligence, will not only accelerate circularity but also the dematerialisation of our economy and make Europe less dependent on primary materials. Current SMART City systems are therefore crucial in the EC strategy and mainly address those sectors—especially the ICT industry— that can immediately benefit from the availability of up-to-date information, such as urban mobility, or digital public services. However, the management of urban systems is a complex task that must consider how the complexity of the built environment shapes the city and influences its day-to-day functioning. The construction sector has a key role in the urban development and the urban dynamics. It is therefore pivotal to ensure strict integration of the construction and maintenance processes within the SMART City model. This sector is	JRC.E.4	GROW	JRC	CNECT	2021-01-01	2022-12-31	INS-RS	3007141	D01	The Role of Innovative Technologies for the new Challenges in the European Construction Sector	The Construction sector lags in terms of innovation and ICT adoption. Now the COVID-19 crisis has introduced imponderable challenges to the European construction industry. This deliverable will highlight the needs and challenges of innovative technologies for the European Construction sector, including production and construction methods. These technologies could be a palliative for the repercussions of the COVID-19 pandemic. The research activity will be based on the bibliometric analysis of scientific publications and EU-funded projects (CORDIS) in the field of Smart Cities and Digital along with the analysis of patent networks to map the current and future technological trend (Technology Forecasting) and identify temporal dynamics that can lead to disruptive changes and provide insights on policy needs to support specific transitions. The deliverable will consolidate the continuous monitoring and support to DG GROW with foresight analysis and identification of emerging technologies.	2022-12-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20436	DALS	Learning and skills in the digital age	JRC.B.4	30632	LLDA-3	Learning for Life in the Digital Age - 3	The purpose of this project is to provide scientific and policy support on modernising and innovating Education and Training (E&T) in Europe with the aim to improve learning outcomes and provide wider and more inclusive access to education for the digital age. This project consists mainly of JRC B4 further work on SELFIE, the online, free and customisable application that schools in EU and beyond can use to self-reflect on their level of digital capacity. The project is needed to support schools improving their use of digital technologies for more effective leaning and teaching. This has now even become more relevant with schools having to shift to digital and online learning as a result of the Covid-19 crisis. SELFIE was officially launched as part of the 2018 Digital Education Action Plan on 25 October 2018. It is developed by JRC, in collaboration with and co-funded by DG EAC. It is also hosted on the JRC IT infrastructure. SELFIE will be maintained and extended as one of the actions of the new Digital Education Action plan to be released in June 2020. It is a contribution to the EC priority on Europe fit for the digital age. In addition to SELFIE, this AA with DG EAC C1 also foresees a study on computational thinking and overall policy support to the ET2020 DELTA WG on Digital Learning.	JRC.B.4	EAC	EAC	EMPL	2021-01-01	2021-12-31	CON-AA	3005910	1	Final report on qualitative analysis of SELFIE impact	A qualitative study to analyse the impact of SELFIE in schools that have used the tool, to explore ways to improve the tool and the support materials and get insights into how the tool can be used in the most effective way to support the digital transformation of schools.	2021-12-01	Science for Policy reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3005912	2	Computational Thinking in School Education in Europe	In 2016, the JRC report “An analysis of educational approaches to developing Computational Thinking” provided a comprehensive overview of research findings and grass root and policy initiatives for developing Computational Thinking in compulsory education in Europe. Since the publication of this report, however, many changes have been happening on curricula in Europe. The report will provide an update on how computer science and computational thinking are addressed in curricula.	2021-12-01	Science for Policy reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20436	DALS	Learning and skills in the digital age	JRC.B.4	30634	DALS-INST	Digital Age Learning & Skills - Institutional	Institutional project supporting competitive work for DG EAC and exploring new avenues for research on digital age learning and skills. Since most of the project portfolios under the DALS project cover competitive work, it is important to leave room for institutional work to tackle JRC priorities and new emerging policy relevant issues such as the implications of the Corona-virus on education. It will also cater for additional institutional work to support the implementation of the new Digital Education Action Plan.	JRC.B.4	EAC	JRC	EMPL	2021-01-01	2022-12-31	INS-RS	3022304	1	Impact of COVID-19 shift to digital and online learning in primary and secundary education	Report on lessons learnt from the unexpected, obligatory shift from classroom to online learning, with a focus on barriers and opportunities, from the perspective of students, teachers, headmasters and possibly also parents.	2021-06-30	Whole parts of policy documents	N
																	3094764	2	Challenges and opportunities for Digital Age Learning and Skills	Summarise results from recent JRC studies and analysis on challenges and opportunities for Digital Age Learning and Skills, as a contribution to the debate following the new Digital Education Action plan	2021-12-15	Science for Policy Briefs	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20436	DALS	Learning and skills in the digital age	JRC.B.4	30635	DigComp Edu	DigComEdu Self-Reflection tool for Teachers in compulsory education	To provide scientific and policy support on addressing digital competence requirements for teachers in obligatory schooling. The framework describes what it means for educators of all sectors to be digitally competent. It contains 6 areas and 22 competences. The aim is that, by incorporating digital tools into their teaching practice, teachers get more digitally competent and learners benefit the most having digitally competent teachers.	JRC.B.4	EAC	EAC EAC	EMPL	2021-01-01	2022-12-31	CON-AA CON-AA CON-AA	3022289	1	DigCompEdu self-reflection tool for teachers	A report with the final version of the DigCompEdu self-reflection tool including analysis of psychometrics	2021-10-29	Science for Policy reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20436	DALS	Learning and skills in the digital age	JRC.B.4	30638	SELFIE WBL	SELFIE Work Based Learning	This project focuses on extending SELFIE (schools-go-digital) to work-based learning (WBL) systems in Vocational Education and Training. VET-WBL has different characteristics compared to traditional schools, for instance, the involvement of companies. The work covered in this project will contribute to the European Commission's reflections on the future of policy cooperation in the field of education and training, and notably for the VET and adult education sectors.	JRC.B.4	EMPL	EAC EAC	EAC	2021-01-01	2022-12-31	CON-AA CON-AA	3022478	1	SELFIE for VET Work-based Learning	The report will contain the final version of the SELFIE for VET-WBL, including analysis from the piloting, maintenance activities, summary report on stakeholder engagement, communication and promotional activities for SELFIE WBL.	2021-06-30	Technical Reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20436	DALS	Learning and skills in the digital age	JRC.B.4	30922	LLDA-4	Learning for Life in the Digital Age - 4	The purpose of this project is to provide scientific and policy support on modernising and innovating Education and Training (E&T) in Europe with the aim to improve learning outcomes and provide wider and more inclusive access to education for the digital age. This project consists of the continuation of the work related to SELFIE, the free online self-reflection tool for schools' digital capacity and possibly, of new emerging issues related to digital age learning and skills. It represents the continuity of the structural partnership with DG EAC with yearly financial contributions for ongoing and new JRC work. AAs are signed yearly with a duration of 2 years, hence the numbering (LLDA-3, LLDA-4, etc.)	JRC.B.4	EAC	EAC EAC EAC	CNECT EMPL	2021-01-01	2022-12-31	CON-AA CON-AA CON-AA	3057712	1	Improving schools' digital capacity. Results from the SELFIE tool	The report refers to the research outputs that come from the analysis of SELFIE data and from SELFIE related research activities focusing for example on the deployment of the tool for the digital transformation of schools as well as on the use of SELFIE data for school.	2021-12-15	Science for Policy reports	N
																	3094757	2	Improving schools' digital capacity. Results from the SELFIE tool.	The report refers to the research outputs that come from the analysis of SELFIE data and from SELFIE related research activities focusing for example on the deployment of the tool for the digital transformation of schools as well as on the use of SELFIE data for school.	2022-12-15	Science for Policy reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20836	CSPI	Cyber Security, Privacy and Digital Identities	JRC.E.3	30846	CyberSec _Horizon	Horizontal Cybersecurity Research and Policy Support	As described in the project-portfolio context, cybersecurity is one of the key enablers of the “Europe Fit for the Digital Age” Commission priority, coordinated by EVP Vestager. The policy agenda of the next 5 years (see sec-gen presentation of February 2020), already identified as future key milestones the revision of the Network and Information System security directive and the implementation of the future regulation for the creation of the European Cybersecurity Research and Competence Centre and network. At the same time, from an industrial and Sovereignty perspective, the policy debate around Strategic Autonomy will require an extensive analysis of the actual strength of the European Cybersecurity industry and of viable policy option to guarantee European Autonomy in the cybersecurity context. Still in the industrial development context, the Strategic forum for Important Projects of Common Interest, under the cybersecurity area, makes specific reference to the JRC to support the development of a cybersecure Internet governance model. This project, within the context of the cybersecurity port-folio, will answer to these policy needs on a side conducting cutting edge research in the field in order to be in the position to perform foresight analysis and intercept in advance future needs, on the other will provide consultancy support to the policy DGs for all the mentioned policy packages, and acting as initial incubator for future cybersecurity policy support initiatives (see for example the policy package on	JRC.E.3	CNECT	CNECT CNECT CNECT JRC	DEFIS ENER GROW HOME JUST	2021-01-01	2023-12-31	CON-AA CON-AA CON-IA INS-RS	3021136	02	European Cybersecurity Taxonomy 2021	In december 2019 JRC published the first European Cybersecurity Taxonomy. This taxonomy edorsed by more that 150 European research centres describes and categorises the cybersecurity research domains and knowledge fields. To support the development of a full understanding of the cybersecurity landscape in Europe, under a Strategic autonomy perspective, this deliverable will expand the taxonomy to embrace also the aspects of market products and services.	2021-01-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3021137	01	European Cyber Security Atlas	This deliverable foresees the deployment of the European Cybersecurity Atlas, a knowledge management tool which will be at the core of the future European Cybersecurity Research and Competence Centre and Network Through this tool the Commission will be able to map the Cybersecurity R&D competencies in Europe, spot weaknesses and synergies, and identify proper actions on the basis of the evidences provided by the atlas.	2021-12-31	Sci information systems and databases	N
																	3021196	03	European Cybersecurity Strategic Autonomy - A first Snapshot	This report will analyse, leveraging on the experience built for the 5G strategic autonomy report, the European cybersecurity R&D value-chain, providing a first picture of the level of independency of Europe for what concerns cybersecurity.	2021-12-31	Science for Policy reports	N
																	3021197	04	European Cybersecurity Market Observatory	Following a request of DG-CNECT (a.a. under definition), this deliverable foresees the conception and creation of a Cybersecurity Market Observatory, providing insight on the strenghtnesses and weaknesses of the European Cybersecurity market and industry. This deliverable has to be seen as synergic with the Atlas and Strategic autonomy deliverables	2022-12-31	Science for Policy reports	N
																	3021198	05	Cybersecurity Scientific Production and Foresight	Under this deliverable will be registered all the scientific papers resulting form the research activites produced in the project in the fields mentioned in the "scope description". Moreover, under this deliverable will also be registered all the foresight studies produced to identify new raising cyber-threat trends and issues.	2021-12-31	Journal contributions (Scopus)	N
																	3056734	06	Postquantum Cryptography-State of the art and policy needs	It is not far in time the moment in which quantum computer will be available to Nation funded institutions for more than simple computations. It's advent will put an end to the robustness of the actual generation of cryptographic algorithms. The scientific community is looking with hope to the quantum cryptography to be able to fight against quantum threats. However quantum cryptography will remain, for long time, a solution available to very dedicated systems, and will not be accessible to citizens and daily-use IT services. Hence the interest toward the so called post-quantum cryptography, a branch of cybersecurity research investigating on the identification of traditional crypto algorithms resilient to quantum attacks. This will probably be the path that will be followed when usable quantum computer will become a reality, to protect general purpose digital services. This deliverable, in preparation to future policy requests, aims at investigating on this specific area of research	2021-12-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20836	CSPI	Cyber Security, Privacy and Digital Identities	JRC.E.3	30847	CRAID	Cybersecurity Research on AI and Data protection	With the recent sudden increase in the update of digital technologies by government, industry and society, accelerated as a result of the CoVID19 pandemic, Cybersecurity and Data Protection have acquired an unprecedented relevance. This greater dependence on online technologies has resulted in higher cybersecurity and data protection risks. Artificial Intelligence (AI) is one of the key enabler technologies leading this on-going Digital Transformation of industry and society. However, as it is the case with any new disruptive technology, AI comes with new challenges in terms of cybersecurity and data protection implications that need to be properly addressed.	JRC.E.3	CNECT	JRC	JUST	2021-01-01	2023-12-31	INS-RS	3032715	3001	Analysis of the interplay between AI and Cybersecurity	This deliverable will provide a targeted and continuing survey of the interplay between AI and cybersecurity. This includes extending existing mappings with latest developments, collaborating in monitoring efforts such as the AI observatory, short-and long term scientific policy support, case studies on technical issues of importance, and future challenges for the security of digital systems. This deliverable will continuously benefit from and contribute to other activities and fields in the unit.	2021-12-17	Technical Reports	N
																	3032794	3002	Towards a certification framework of the robustness of AI-based software	This deliverable will group the project outcomes contributing to the design and the development of a certification framework of AI-based software. This would consolidate existing approaches to build strong linkages between research and policy-making, through the development of academic works extending the understanding on techniques related to the assessment of the robustness and the explainability of AI models, the establishment of relevant connections between these methodologies and regulatory requirements of trustworthy AI, and targeted analysis on existing and future digital systems such as automated decision-making systems or autonomous vehicles, that could be pursued in collaboration with ENISA.	2022-09-01	Science for Policy reports	N
																	3032795	3003	Analysis of the implications of AI on Data Protection	This deliverable will discuss issues in terms of data protection brought by AI systems. In particular, a focus will be on how the provisions of the GDPR regarding the protection of personal data and the right to explanation and contestation can be implemented for AI-powered decision-making systems, and how it impacts the collection and dissemination of open data for AI research. A different aspect is to explore how data protection considerations have cybersecurity implications for the protection of data in trained AI models.	2022-12-09	Technical Reports	N
																	3033449	3004	Digital communications privacy in interpersonal communication over Internet	This deliverable will present the efforts contributing to the development and promotion of best practices to ensure the protection of privacy in interpersonal communications services and applications (text, audio and video). It will describe the development of a dashboard of privacy indicators for interpersonal communication services and applications (text, video and audio). This deliverable will also include the exploitation of results, at scientific and policy level, and data gathered by the MECSA service, which will be maintained and enhanced to support new emerging standards.	2021-11-30	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3033450	3005	Towards a European collaborative platform to mitigate data breaches impacts	This deliverable will describe the security analysis, design and development of a European collaborative platform to support stakeholders (DPAs, data controllers and data subjects) in addressing the challenge that massive cross-border data breaches pose in terms of both data protection and cybersecurity. The platform will seek to facilitate communication between data controllers and individuals. It aims to empower individuals affected by data breaches events to take effective action to mitigate their potential negative effects. The initiative can also facilitate the communication of data breach notification to data subjects as foreseen in the GDPR.	2022-12-16	Technical Reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20836	CSPI	Cyber Security, Privacy and Digital Identities	JRC.E.3	30848	Dig_ID	Digital Identity	This project aims at providing support to the Commission activities on document security and identity management to combat document and identity fraud and to support the "citizen mobility" challenge identified by COM(2014)144. Both streams are related to means available to manage identity and documents authentication and to the security measures which can be applied of such documents in order to prevent identity theft and fraud. The first initiative is associated to the action plan to "present measures to enhance electronic document security and ID management and to strengthen the fight against document fraud" (as called for in COM(2016) 205 of 6.4.2016), while the second initiative is associated to the use of EIDAS and digital ID cards and residence documents. In both cases, the focus is on identity management and the need to mitigate the risk of document and identity fraud. In both cases, the same underpinning technology is used: public key cryptography and PKIs. This technology is at the core of the three AAs foreseen in this project, i.e. the operation and evolutionary development of the EU Laissez-Passer PKI, the Schengen Master List and the eMRTD conformity testing. In addition to the AAs, the contribution of this project to the two mentioned identity management related policy streams will move in five main directions: (1) Participation to the Commission inter-service steering groups which will follow the first steps of the two initiatives (2) Organisation of interoperability test events and associated workshop to assess the current status of security features implementations in electronic travel	JRC.E.3	HOME	HR JRC	HR		2021-01-01	2023-12-31	CON-AA CON-AA INS-RS	3032872	SML	Schengen Masterlist	Certified list of trusted certificates	2021-12-31	Technical systems	N
																	3032873	ASDTC	Report on the study on new technologies for document security and identity management	The report will provide the results of the study of new technolohies for identity management related to document security and the use of document ritravel credentials	2021-12-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20836	CSPI	Cyber Security, Privacy and Digital Identities	JRC.E.3	30849	Cyber_ENER	Cybersecurity and digital technologies in the Energy Sector	Cybersecurity, as part of the Priority 3 of the new Commission (Europe fit for the digital Age), is addressed in two directions: horizzontally, to cover the broad development of cybersecurity industry, research and awareness, and vertically to cover the specific needs of industrial sectors. This project is the continuation of the activities triggered in 2015 to support the Energy Union Package (COM (2015) 80 FINAL) and the DSM package (COM(2015) 192): (1) Analysing technological means to facilitate the energy transition through smart grids and smart home applications, under a cyber-security and privacy perspective (2) Studying the application of blockchain technologies to create a seamless internal energy market that benefits citizens. The Project will support DG-ENER and ACER in the definition of the Energy Network Code for Cyber-Security through: (1) The participation in the editorial team of the EG2 and EG1 of the EC Smart-Grid Task Force (2) Expanding the experimental and research activities in the Energy Cyber-Security Domain. Moreover, the project will answer to a specific request of the European Parliament (800k funds) concerning the use of blockchain technologies to boost a digitally secure energy market as part of the "European Reconstruction Plan" post Covid. The project addresses addresses, from a cybersecurity perspective, the sub-priorities of the "green deal" concerning digitalisation of Energy Communities, citizen empowerment, electrification and smart.energy and Energy System Resilience, integration and security.	JRC.E.3	ENER	ENER	CNECT DIGIT ENV MOVE	2021-01-01	2023-12-31	CON-AA INS-RS	3022801	01	Energy Cybersecurity and Blockchain infrastructures	This deliverable summarises the outcomes of the administrative arrangement between jrc and ener concerning the study on the secure use of blockchain technologies in the energy infrastructures	2021-06-15	Science for Policy reports	N
																	3022803	02	Support to the Energy Cybersecurity Network Code Design	This deliverable summarises the outputs delivered by jrc to support the design of the first European Energy cybersecurity network code, in collaboration with DG-ENER, ACER and the MS Energy Regulators	2021-12-31	Technical Reports	N
																	3022804	03	Scientific Research in Energy Cybersecurity	Under this deliverable will be grouped all the research activities and scientific outputs produced during 2021 and 2022 concerning the field of Energy cybersecurity.	2022-12-31	Journal contributions (Scopus)	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20836	CSPI	Cyber Security, Privacy and Digital Identities	JRC.E.3	30864	Cybersec_DL	Cybersecurity & Distributed Ledgers	Distributed ledger technologies and blockchain are at the cented of the European policy debate. On a side their use promises to radically improve the way in which digital services will be delivered to EU Citizens; on the other side, a de-regulated use of distributed ledger technologies could threaten the stability of the economical sovereignty of MS and European Uniont at large. Several policy initiatives (see the policy context section), point at the need for investigation on the security and safety aspects of distributed ledger technologies. Moreover EU wide initiatives as the setting-up of the European Blockchain Service infrastructure (subscribed by the majority the MS), call for studies related to the safety, security, scalability and viability of blockchain technologies. This project, relying on the long-standing activity of the European Blockchain Testing Facility aims at investigating on the different cybersecurity and feasibility aspect of distributed ledgers technologies. The research outputs of this project aims at concretely support the policy needs of DG-Taxud, DG-CNECT and Fisma.	JRC.E.3	CNECT	TAXUD TAXUD	DIGIT FISMA TAXUD	2021-01-01	2023-12-31	CON-AA CON-AA CON-AA INS-RS	3021900	02	Support to the delivery of a secure blockchain based e.Gov infrastructure for Taxud	This deliverable summarises all the deliverables linked to the A.A. with taxud on the design of the first EC e.government service based on blockchain technologies	2021-12-31	Technical Reports	N
																	3021901	03	Research outputs in blockchain cybersecurity	Under this deliverable will be grouped all the scientific pubblications related to the cybersecurity of blockchain systems occuring in 2021 and 2022	2022-12-31	Journal contributions (Scopus)	N
																	3021902	01	Cybersecurity of Cryptoassets and ICO systems	Cryptoassets and ICO are the new frontier of finance. This deliverable will look at their cybersecurity vulnerabilities and infrastructural weaknesses, with the aim of supporting the new policy strand on finance cyber-security.	2021-12-31	Science for Policy reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20836	CSPI	Cyber Security, Privacy and Digital Identities	JRC.E.3	30885	CEAS	Cybersecurity Education, Awareness and Societal aspects	Technological evolution has always been a driving factor for societies. Today, digital transformation catalyzed by the CoVID-19 crisis and tools empowered by Artificial Intelligence (AI) stand out as a game-changers, driving the world towards another technological revolution. The use of digital technology has dramatically changed over the CoVID -19 crisis, in particular on the ecosystem linking homes and schools. This digital booster (including the emergence of AI technology) impacts everyone, everywhere, offering both major opportunities and challenges for the lives and futures of billions of people, including children. DG CNECT/G.3 underlines the need for such research in a letter sent to JRC/E.3 (Ares(2019)6055671) to address the knowledge gap regarding AI and supports research to address the impacts of the CoVID-19 crisis impacts on children's online safety, cybersecurity, privacy, data protection and digital engagement.	JRC.E.3	CNECT	JRC	EAC JUST	2021-01-01	2023-12-31	INS-RS	3028054	3001	CoVID-19 crisis impacts on children's online safety, cybersecurity, privacy, data protection and digital engagement. Preliminary report.	The report will draw an image of the threat landscape in the home context in the short term after the CoVID-19 crisis. It will gather recommendations to mitigate those risks and support the positive externalizations of this unexpected crisis, based on the results of cross-national data analsysis.	2021-12-10	Science for Policy reports	N
																	3028099	3002	CoVID-19 crisis impacts on children's online safety, cybersecurity, privacy, data protection and digital engagement. Final report.	The report will draw an image of the threat landscape in the home context one year after the CoVID-19 crisis. It will gather recommendations to mitigate those risks and support the positive externalizations of this unexpected crisis, based on the results of cross-national data analsysis.	2022-12-09	Science for Policy reports	N
																	3028223	3003	AI and children's rights. Preliminary report.	The report will present the preliminary results of an exploratory study on the benefits and challenges of children and AI technology. Outcomes would feed the process of keeping the updating process of the 2012 Strategy for Better Internet for Children (COM(2012) 196 final). It would help to evaluate the possible ways to scale up the research at cross-national level, linked to the research outcomes of the unit in the field.	2021-12-13	Science for Policy reports	N
																	3028224	3004	AI and children's rights. Preliminary report. Final report.	The report will present the final results of an exploratory study on the benefits and challenges of children and AI technology, possibly at cross-national level (depending on the outcome of year 2021). Outcomes would feed the process of keeping the updating process of the 2012 Strategy for Better Internet for Children (COM(2012) 196 final). Furthermore, would help developing models that creates wealth for childhood in the Digital Age. Developing elements for public awareness regarding AI would also count among the project outcomes, linked to the research outcomes of the unit in the field.	2022-12-12	Science for Policy reports	N
																	3028225	3005	Edutainment tools for engagement and awareness raising post CoVID-19 crisis.	The report will present the different actions undertaken to maintain and update the edutainment tools already developed by JRC/E.3. It will also gather the results of exploratory research for new tools addressing timely needs in children's online safety, privacy and rights, linked to the research outcome of the unit.	2021-12-10	Technical Reports	N
																	3028226	3006	Edutainment tools for engagement and awareness raising for accelerated digital transformation.	The report will present the different actions undertaken to develop new edutainment tools addressing timely needs in children's online safety, privacy and rights, linked to the research outcome of the unit. . It will also gather the results of actions of maintenances and updates of the edutainment tools already developed by JRC/E.3.	2022-12-09	Technical Reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20838	SPRINT	SPRINT - Security and Privacy in the Transport Sector	JRC.E.3	30941	EU CCMS	EU C-ITS Security Credential Management System	This project groups the ongoing and future Administrative Arrangements with DG MOVE, for policy and operational support in the implementation of cybersecurity measures in EU C-ITS and deployment related evolutions towards CCAM infrastructures in order to guarantee trust, privacy and security in an interoperable manner. In particular, this project addresses the cybersecurity challenges of the infrastructures for vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communications.	JRC.E.3	MOVE	MOVE MOVE	CNECT GROW RTD	2021-01-01	2025-12-31	CON-AA CON-AA	3029280	MSINTEGR	D6.1: Report on the final integration	This report summarises the main aspects of the final integration of the Pilot Phase of the EU CCMS.	2021-06-30	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3029281	UCCMSPR	Progress Report #3	3rd Progress report on the status of the EU CCMS. This progress report will describe the activities, events and work done in 2020.	2021-02-15	Technical Reports	N
																	3029282	EUCCMSFF	Final report on the EU CCMS	Final Progress report on the EU CCMS. This final report summarises the activities, events and work done in 2021.	2022-01-31	Technical Reports	N
																	3029283	JCCMSEV/	D7.1: Report on the evaluation of the Phase I pilot operation phase.	This report includes a study on the feasibility of a sustainable business and operational model for the EU CCMS pilot to support the wider deployment of C-ITS in Europe.	2021-12-24	Technical Reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20838	SPRINT	SPRINT - Security and Privacy in the Transport Sector	JRC.E.3	30945	VECSEC	Vehicle Cybersecurity	Nowadays vehicles can be seen more and more like a “computer on wheels”. The amount of digital components in vehicles is increased over time, with automotive manufacturers that are moving large part of their research and development investments from the traditional mechanical sector to the information technology domain. A plethora of digital units is already used in vehicles to control a large set of functions from ancillary to core and sensitive ones. The relevance of the information technology components will be ever greater in the future for connected, cooperative and autonomous vehicles. In such a highly digitized context cybersecurity has become of great importance also for vehicles, a new aspect when compared with the past. Lack of adequate cybersecurity measures and possible vulnerabilities in vehicles can have among others societal, economical, privacy and safety implications. This project hosts the institutional research activities in the vehicle cybersecurity sector with the two-fold objective of supporting the Administrative Arrangements of the portfolio, as well as anticipating and getting ready for the upcoming cybersecurity challenges affecting the future of vehicles in the EU.	JRC.E.3	MOVE	JRC	CNECT GROW	2021-01-01	2022-12-31	INS-RS	3037342	02	Vehicle Cyber Risks	Investigation about possible security risks associated with cyber architectures adopted for modern vehicles and related implications.	2022-12-31	Technical Reports	N
																	3037343	01	Vehicle Cyber Architectures	Analysis and study of information technology solutions adopted for modern vehicles.	2021-12-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.1 Digital economy and society	20838	SPRINT	SPRINT - Security and Privacy in the Transport Sector	JRC.E.3	30950	CS4EURTL	Cybersecurity for EU Road Transport Legislation on Social Rules and Internal Market	DG MOVE needs expertise in the application of Cybersecurity technology to the design, implementation and operation of the ICT systems and infrastructures used for the enforcement of EU legislation on road transport, such as the Digital and the Smart Tachographs. The tachograph is currently being installed in all heavy vehicles (trucks and buses) registered in the EU and it is used for the control of the driving times and rest periods. Nevertheless, it is foreseen to extend its scope to the enforcement of additional rules on road transport, such as posting of workers or cabotage. In addition, DGMOVE is considering the implementation of enhanced technologies based on smart devices to future versions of the tachograph, such as remote data storage or internal verification of the geolocalisation information.	JRC.E.3	MOVE	MOVE	(blank)	2021-01-01	2027-12-31	CON-AA	3036111	STAADGM	2022 Smart Tachograph AA Annual Report	Report on the support and maintenance of the ERCA operations. This includes: • MS Policy review and audit monitoring • Root key maintenance operations • Key certification operations and distribution • Security management activities • Configuration Management • Support and Maintenance of the JRC DT web site • Digital Tachograph Help Desk • Testing: interoperability tests, interoperability certifications • Support and Monitoring of the field tests operations.	2023-03-31	Technical Reports	N
																	3036112	022DITILAI	Annual report 2022 of laboratory activities	The annual report will summarize the activity of the laboratory during the year 2022. It is a synthesis of the activities and of the development of the laboratory.	2023-02-28	Technical Reports	N
																	3036113	021DITILAI	Annual report 2021 of laboratory activities	The annual report will summarize the activity of the laboratory during the year 2021. It is a synthesis of the activities of management and the development of the laboratory as well as the third party work performed as a result of preliminary and official interoperability test request received from manufacturers of tachograph cards and vehicle units.	2022-02-28	Technical Reports	N
																	3036114	STAADGM	2021 Smart Tachograph AA Annual Report	Report on the support and maintenance of the ERCA operations. This includes: • MS Policy review and audit monitoring • Root key maintenance operations • Key certification operations and distribution • Security management activities • Configuration Management • Support and Maintenance of the JRC DT web site • Digital Tachograph Help Desk • Testing: interoperability tests, interoperability certifications • Support and Monitoring of the field tests operations.	2022-03-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.2 Single Market	20065	Market Surveillance	Motor Vehicle Market Surveillance	JRC.C.4	30039	MASU	Market Surveillance - Emissions	Regulation (EU) 2018/858 establishes the role and obligations of economic operators, Member states and the European Commission regarding the compliance of motor vehicles placed on the EU market. The role of JRC is to provide a technical support to DG GROW for the implementation of the Commission responsibilities as laid down in Regulation (EU) 2018/858. The role of JRC should be flexible and contains a mix of the elements listed below: • Conducting an independent market surveillance activity (Article 9) • Providing technical support for the market surveillance activities of Member States (Article 8) • Auditing the type approval authorities. (Article 10) • Contribute to the discussion of the Forum with technical expertise (Article 11) • Peer review of technical services (Article 67) • Complementing the MS market surveillance activity (Article 8) This project refers to the compliance verification of requirements concerning exhaust emissions.	JRC.C.4	GROW	GROW GROW	CLIMA ENV	2021-01-01	2027-12-31	CON-AA CON-AA	3002103	3000021	Data collected for screening purposes	The EU Forum for Exchange of Information on Enforcement has agreed to launch a joint action on Remote Sensing and Risk Assessment for Emission Compliance. To support the risk assessment for the vehicle type selection as stipulated in Regulation (EU) 2018/858, the main objectives of this joint action will be to develop a methodology to feed vehicle emissions data obtained from Remote Sensing into the risk assessment. In addition, the joint action will gather the required data of in-use emissions from road vehicles (LDVs and HDVs). The JRC will collect the EU-wide RS data in a uniform, harmonised data repository, and will be in charge of making sense of the data.	2022-06-30	Datasets	N
																	3096266	3003902	Market Surveillance activity report	In accordance with Regulation (EU) 2018/858, and also following the obligation as laid out for Member States in Article 8(7), the Commission shall make a summary report on market surveillance activities publicly available on a two-yearly basis.	2021-09-30	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3096267	3003903	Guidance on testing for defeat devices	The document will be a European Commission guidance to help Member States evaluate if car manufacturers use defeat devices or other strategies that lead to higher vehicle emissions outside of the test cycle and analyse whether they are technically justified. Its first version published in January 2017, applicable to Euro 5 and 6b passenger cars, will be updated to cope with Euro 6d-TEMP and 6d light-duty vehicles and Euro VI heavy-duty engines. It will include a detailed methodology, elaborated with the support of the JRC, to help Member States identify possible cases of defeat devices through targeted emission tests as part of their market surveillance obligations. It recommends how to ensure a relevant selection of vehicles and which emissions tests to carry out in the laboratory and in real driving conditions to identify suspicious behaviour in vehicles' exhaust emissions.	2021-06-30	Whole parts of policy documents	N
																	3096280	300394	Annual report on emissions testing	The report will complement the annual activity report and present the detailed emissions data collected by the JRC and/or from third parties.	2021-09-30	Science for Policy reports	N
																	3096281	300395	Emissions data from tested vehicles	The data presented in the annual report on emissions will be made publicly available using a platform to be selected, in agreement with DG GROW.	2021-12-31	Datasets	N
																	3096292	300397	Scientific publications - not plannable	Generic deliverable for scientific publications in support to the emissions market surveillance	2022-12-01	Journal contributions (Clarivate)	N
2. A Europe Fit for the Digital Age	2.2 Single Market	20065	Market Surveillance	Motor Vehicle Market Surveillance	JRC.C.4	30281	MASSAF	Market Surveillance - Safety	Regulation (EU) 2018/858 establishes the role and obligations of economic operators, Member states and the European Commission regarding the compliance of motor vehicles placed on the EU market. The role of JRC is to provide a technical support to DG GROW for the implementation of the Commission responsibilities as laid down in Regulation (EU) 2018/858. The role of JRC should be flexible and contains a mix of the elements listed below: •Conducting an independent market surveillance activity (Article 9) •Providing technical support for the market surveillance activities of Member States (Article 8) •Auditing the type approval authorities. (Article 10) •Contribute to the discussion of the Forum with technical expertise (Article 11) •Peer review of technical services (Article 67) •Complementing the MS market surveillance activity (Article 8) The activity above described refers both to pollutant emissions and safety. The MASSAF project complements the emission work on Market Surveillance by focusing the activity on testing, auditing and documentary checks on the regulated safety and comfort aspects of motor vehicles registered in the EU that are part of regulation 858. In addition the project covers the institutional activity on research on vehicle safety in particular Advanced driver-assistance systems (ADAS). The aim is to improve the knowledge on the performance and the limits of these	JRC.C.4	GROW	GROW JRC	(blank)	2021-01-01	2027-12-31	CON-AA INS-RS	3030578	12	Vehicle safety and ADAS testing	This final report focuses on scientific output for vehicle safety test procedures and tests' outcome assessment	2022-12-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.2 Single Market	20081	SMEAP	Single Market Enforcement Action Plan	JRC.F.5	30033	TOB&DRUG	Tobacco and drug control	The Single Market is at the heart of the European Union project. To exploit the economic benefits offered by the Single Market its common rules have to be respected. Concerted actions by Commission services and at the Member States (MSs) level are needed to ensure compliance of goods and services with Single Market law. Among the measures foreseen in the 'Action plan for better implementation and enforcement of single market rules' is an action to strengthen the fight against counterfeit and illegal products to protect honest businesses, the interests of consumers and public health. The illicit market of tobacco products accounts for 10 % of the cigarettes smoked across the globe causing annual financial losses of over €10 billion to the EU and its MSs. Within this project a reference laboratory for chemical analysis of tobacco products is run to generate data on elemental and volatile composition of genuine and seized tobacco products. The characteristics of the tested products, made available to COM and competent authorities (customs and/or forensic laboratories) in the MSs, will be used to trace illicit tobacco products to their source, allowing investigators to disband criminal networks. The Tobacco Products Directive aims to improve the functioning of the internal market for tobacco and related products, while ensuring a high level of health protection for European citizens. The Directive sets rules for the manufacture, presentation and sale of tobacco products and lays down safety and quality requirements for nicotine-containing electronic cigarettes. The activities in this project will support the implementation of the TPD in particular as regards the	JRC.F.4	OLAF	OLAF SANTE	HOME SANTE TAXUD	2021-01-01	2025-12-31	CON-AA CON-AA INS-RS	3010992	2	Support to Tobacco Products Directive (tobacco/e-cigarettes)	A progress report on the developments in the field of standardisation of e-cigarettes and heated tobacco products taken into consideration the activities of the relevant Standards Developing Organisations (ISO/CEN/WHO) will be issued.	2021-12-31	Technical Reports	N
																	3010993	3	Summary of risk assessments of New Psychoactive Substances (NPS) 2021	A summary of the risk assessment conducted on NPS in 2019 by the extended scientific committee of EMCDDA will be edited. The risk assessment reports are the base for further decision for ban of certain substances by the EU institutions (Commission, Council).The JRC delegate is the scientist representative from the Commission participating in the EMCDDA meetings for risk assessment of new substances. The report will present elements regarding the implementation of the legislative package on NPS adopted in November 2017 (DIRECTIVE (EU) 2017/2103 and Regulation (EU) 2017/2101 of the European Parliament and of the Council)	2021-12-31	Technical Reports	N
																	3025490	4	Scientific publications	The research outcomes of the project will be published in peer-reviewed journals	2022-12-31	Journal contributions (Scopus)	N

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																	3029144	6	Support to Tobacco Products Directive (tobacco/e-cigarettes)	A progress report on the developments in the field of standardisation of e-cigarettes and heated tobacco products taken into consideration the activities of the relevant Standards Developing Organisations (ISO/CEN/WHO) will be issued.	2022-12-31	Technical Reports	N
																	3029145	7	Summary of risk assessments of New Psychoactive Substances (NPS) 2021	A summary of the risk assessment conducted on NPS in 2019 by the extended scientific committee of EMCDDA will be edited. The risk assessment reports are the base for further decision for ban of certain substances by the EU institutions (Commission, Council).The JRC delegate is the scientist representative from the Commission participating in the EMCDDA meetings for risk assessment of new substances. The report will present elements regarding the implementation of the legislative package on NPS adopted in November 2017 (DIRECTIVE (EU) 2017/2103 and Regulation (EU) 2017/2101 of the European Parliament and of the Council)	2022-12-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.2 Single Market	20081	SMEAP	Single Market Enforcement Action Plan	JRC.F.5	30041	PC	Product Compliance	The JRC is providing support to DG GROW in the implementation of new Regulation (EU) 2019/1020 and Reg. (EC) No 765/2008 in the broad area of market surveillance and compliance of non-food products placed on the EU market. This includes helping setting up an 'EU Product Compliance Network' (PCN) as important enforcement tool. Being fully satisfied with JRC's support in 2019-20, the policy DG continues to request that the extensive experience of the JRC in food and feed compliance, on the basis of the General Food Law Reg. (EC) No 178/2002 and Reg. (EU) 2017/625 on Official Controls, including the running of EU Reference Laboratories (EURLs) and associated official national laboratory networks, is skilfully exploited and transferred to the many categories of non-food products of the EU Single Market. This project will aid the Commission in promoting the harmonised enforcement of key Single Market legislation by Market Surveillance Authorities (MSAs) and new Commission-mandated EU Testing Facilities. Furthermore, the Commission relies on the future positive effects of the PCN, as stated in ACTION 13 (e-enforcement lab) and ACTION 17 (EU Product Compliance Network) of its Communication on an action plan for better implementation and enforcement of single market rules (COM(2020) 94 final). Reference to the relevance of the PCN is also made in the Communication on identifying and addressing barriers to the Single Market (COM(2020) 93 final) (p 18) in improving the “coordination between the Commission and national administrations and among national administrations.”	JRC.F.5	GROW	GROW GROW	(blank)	2021-01-01	2023-12-31	CON-AA CON-AA	3017981	2022	Support to DG GROW in 2022 on the EU product compliance network	Non-public overview about the support provided to DG GROW in 2022, related to the networking with facilities in the Members States, the aid provided to the Commission in the consolidation of the EU Product Compliance Network, the set-up of new Commission-mandated EU Testing Facilities and the use of the PCN in the emerging e-commerce context (e-enforcement lab).	2022-12-31	Technical Reports	N
																	3017982	2021	Support to DG GROW in 2021 on the EU product compliance network	Non-public overview about the support provided to DG GROW in 2021, related to the identification of key analytical methodologies, the training needs of Market Surveillance Authorities and to the aid provided in the set-up and consolidation of an 'EU product compliance network'.	2021-12-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepreneurship and SMEs	20386	STRATO	Strategic Autonomy	JRC.E.7	30453	China 2.0	CHINA 2.0	China's economic success and its related industrial policies have largely been debated, especially in light of their capacity to challenge traditionally advanced economies in several fields. A recent note on the strategic outlook of the China-EU relations states: "China is seen simultaneously as a cooperation partner with whom the EU has closely aligned objectives, a negotiating partner, with whom the EU needs to find a balance of interests, an economic competitor in pursuit of technological leadership, and a systemic rival promoting alternative models of governance". Following the policy strategy "Made in China 2025" it becomes therefore of crucial importance to have a closer look at the whole impact that China's rise has on the EU and unravel its specificities as well as critical factors behind its approach. This is particularly relevant for the EU since China's financial sector has become the largest in the world while Chinese banks are financing European firms, focusing on Chinese-acquired firms, and given that EU investments in China suffer from reciprocity concerns. As China's robust growth in recent years has been largely driven by debt-financed investment and exports, this could fuel a global debt crisis that would severely affect the EU as a whole. Furthermore, Chinese IPR practices raise strong concerns due to the forced joint ventures with state-owned enterprises to surrender IP. On the basis of JRC analyses, China is strategically expanding industries with the highest all-encompassing gains for its whole ecosystem.	JRC.B.7	TRADE	JRC	COMP ECFIN GROW RTD	2021-01-01	2022-12-31	INS-RS	3041384	ina2Flagsh	China 2.0 Flagship Report	China 2.0 aims to provide timely and in-depth findings that could inform a range of EU policies. It will provide insights on those areas in which the EU could cooperate more closely with China, for instance, related to the implementation of the European Green Deal and the Sustainable Development Goals (SDGs), as well as those areas in which the EU might need to be prudent and strategic (e.g., IPR, strategic/critical raw materials). China continues to be a fast-moving policy area, which will remain at the centre stage of EU policy. Strategic investments play a major role for Chinese industrial policy. The aim is to improve productivity, responding to the upwards trend in wages and the increasing requirement to develop domestic technologies that cannot easily be imported or acquired through foreign direct investment. In such a context, China has emerged as a major actor and rapidly increased both public and private investments over the last decade.	2021-06-30	Science for Policy reports	N
																	3074210	inaTrends4	China 2.0 Newsletter	China has achieved an unprecedented transformation. In less than four decades, it has lifted more than 800 million of its citizens out of poverty in less than four decades. Today, it is set to overtake the United States as the world's largest economy and is on the cusp of becoming a global tech superpower. For decades, we assumed that Western liberal democracies enjoyed inherent superiority in innovation and economic prowess. But China is living proof that other governance models can also lead to growth and success. China’s rise has implications well beyond the economic sphere, and the speed of China’s expansion makes it all the more important to understand the forces at play, the underlying trends and their potential implications for the European Union and our Member States. Stemming from the China 2.0 Flagship report, this bulletin / newsletter aims at following up on the report's results, disseminating most relevant updates to key stakeholders and adding value the work stream.	2022-06-30	Science for Policy Briefs	N

JRC 2021 - 2022 DETAILED WORK PLAN (JPB extract as of 04 06 2021)

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2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepren eurship and SMEs	20386	STRATO	Strategic Autonomy	JRC.E.7	30486	FDI-Screen	Monitoring of cross-border investments and contribution to the FDI screening	In March 2019, the Council has formally adopted the new European Regulation on Foreign Direct Investment (FDI) Screening. The Regulation, entering into force in October 2020, introduces a coordinating mechanism whereby the Commission may issue non-binding opinions on FDI reviews performed in a Member State. The new regulation responds to the political momentum that perceives as crucial the need to defend European technologies, companies and markets. The threats implied by foreign investors, which are massively investing in key technologies where Europe has/had a lead, trigger an EU-wide response. The project FDI-Screen is related to the Commission priority "A stronger Europe in the world".	JRC.B.1	TRADE	JRC	(blank)	2021-01-01	2022-12-31	INS-RS	3006012	1	Contribution to regular reporting	Study with the analysis of cross-border investments in the EU made by investors outside the EU. The study will support DG TRADE activity on FDI screening and in particular, the regular reporting to the Parliament and the Council foreseen by the new Regulation on FDI screening.	2021-11-30	Technical Reports	N
																	3071650	3	Contribution to regular reporting	Study with the analysis of cross-border investments in the EU made by investors outside the EU. The study will support DG TRADE activity on FDI screening and in particular, the regular reporting to the Parliament and the Council foreseen by the new Regulation on FDI screening.	2022-12-22	Technical Reports	N
2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepren eurship and SMEs	20386	STRATO	Strategic Autonomy	JRC.E.7	30487	GlobalFirms	Identification and analysis of multinational enterprises	Multinational enterprises (MNEs) and their foreign affiliates account for one third of world output and GDP and two-thirds of international trade. Previous research has shown that foreign affiliates are overall larger, more capital intensive, more productive and invest more in R&D than domestic companies. Domestic subsidiaries of foreign MNEs, however, could raise concerns deriving from e.g. excessive concentration in specific sectors considered of national interest, profit shifting, intellectual property or competition issue. This project will examine some of the issues related to the activity of MNEs. The project Global-Firms is related to the Commission priority "A stronger Europe in the world".	JRC.B.1	TRADE	JRC	(blank)	2021-01-01	2022-12-31	INS-RS	3006008	1	Analysis of Multinational Enterprises	Studies with analysis of multinational enterprises to support DG TRADE and other policy DGs in their initiatives.	2021-12-20	Technical Reports	N
																	3071663	2	Analysis of multinational enterprise	Studies with analysis of multinational enterprises to support DG TRADE and other policy DGs in their initiatives.	2022-12-22	Technical Reports	N
2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepren eurship and SMEs	20386	STRATO	Strategic Autonomy	JRC.E.7	30622	EUTS-1-2021	EU Technological sovereignty - Digital Supply chains	The President-elect's political guidelines for the next European Commission 2019-2024 highlights a 'Europe fit for the digital age' as a headline ambition for Europe over the next five years. 1 Enhancing Europe's technological sovereignty through investments in the next frontier of technologies forms part of this ambition. 2 A strong industrial and technological base will be essential for European strategic autonomy. This means countering the risks relating to over-reliance on foreign technology, such as supply chain disruptions, compromised supply chain security, or foreign control of critical infrastructure and essential services. 3 In order to select the most appropriate intervention to support Europe's technological sovereignty, it is necessary to identify the EU's strengths and weaknesses, in particular critical dependencies, along different parts of the digital supply chain. JRC's expertise is sought to contribute to the work on technological sovereignty by providing the evidence and analysis necessary to identify the EU's strengths and weaknesses along the digital supply chain in selected application domains of strategic importance. The analysis should in particular identify specific dependencies along the digital supply chain in Europe and assess the impact of such dependencies on the selected application domains. What needs to be done: 1.Map the technologies of interest as indicated by CNECT (corresponding to "intervention areas" of Cluster 4-Digital Industry and Space in Horizon Europe, plus Cybersecurity) to vertical domains, and identify EU strengths and weaknesses; understand the reasons	JRC.E.7	CNECT	CNECT JRC	DEFIS TRADE	2020-04-08	2021-04-07	CON-AA INS-RS	3010068	2	Final report	JRC will issue the final report by the end of month 12.	2021-04-07	Technical Reports	N
																	3010069	1	Interim progress report	DG JRC will issue an interim progress report by the end of month 6.	2020-10-07	Technical Reports	N
2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepren eurship and SMEs	20386	STRATO	Strategic Autonomy	JRC.E.7	30786	STRADA	Strategic Autonomy in Digital Europe	Geopolitical events in 2019 have drawn the attention of EU policymakers to the challenges posed by the EU's dependence on external players in new technologies such as 5G networks, raising the risk of a loss of strategic autonomy of the EU in relation to its infrastructure security. The EU's public reliance on the non-EU online platforms for media, content, data and services is already a well-recognised challenge to which an effective policy response is still lacking. Similarly, the current Coronavirus pandemic has further exposed the EU's vulnerability due to wide-scale outsourcing of even less high-tech yet crucial healthcare supplies such as painkillers, ventilators and personal protective equipment for both health professionals and the general public. President Von der Leyen's Political Guidelines and Commission Work Programme for 2019-2024 have set out technological sovereignty in critical technologies as one of the six top priorities of the European Union for the next five years.	JRC.E.2	CNECT	JRC	GROW	2021-01-01	2023-12-31	INS-RS	3013578	DigiComms	Contributions to the scoping and priorities of mobile and digital communications infrastructures	Contributions to strategic discussions on the scope and priorities for future digital communications infrastructures in the relevant forums (e.g., DG CNECT);	2022-12-31	Technical Reports	N
																	3013579	SA	Strategic Autonomy in Digital Communications and its Applications in the European Union	Science-for-Policy report on Strategic Autonomy in Digital Communications and its Application in various sectors of the economic and social life in the EU	2023-12-31	Science for Policy reports	N
																	3013580	PleaseDelet	N/A	N/A	2021-12-31	Technical Reports	N

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2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepreneurship and SMEs	20386	STRATO	Strategic Autonomy	JRC.E.7	30881	ESC	Vulnerabilities in EGNSS industrial supply chains	In the current global political context, the EU and its MSs identified the need to reinforce the EU Strategic Autonomy in the strategic domains. The space is being one of the EU's strategic assets, which drives the technological innovation, scientific advancement and industrial capacity. The space infrastructure and services (especially Earth Observation -Copernicus, Navigation -EGNSS and Satellite Communication - GOVSATCOM) provide importnant contribution to the EU economy. Reinforcement of the EU technological independence in building and operating its space assets and related services is vital for EU's long-term industrial and economic sustainability. In this context, DG DEFIS identified the need to establish continuous monitoring of the vulnerabilities in the supply chains of the space critical technologies. Given the sensitive nature of the information, DG DEFIS wants to do this activity internally within the EC. At the same time this type of activy requires good knowledge of the space technologies, analytical skills and tools. Taking all this into account, DG DEFIS agreed with JRC, that JRC will include this work in its work programme. This project builds on previous activities 2019-2020 on monitoring of EGNSS supply chains vulnerabilities.	JRC.E.7	DEFIS	DEFIS	(blank)	2021-01-01	2022-12-31	CON-AA INS-RS	3036543	01	Mid-term and yearly project reports (as required by AA)	Project status report as requested by AA. It includes type of work performed, timing, main finding and any challanges encountered (lack of information, delays) and how they were/are going to be resolved.	2021-12-31	Technical Reports	N
																	3036642	02	Updated database of industrial actors invovled in EGNSS supply chain	The database includes cleaned, structrured and verified records about companies involved in EGNSS supply chain. The database allows to understand type of company, type of supply, country of the company. It is crucial to see vulnerabilities and imbalances especially with regards to EU Strategic Autonomy.	2021-06-30	Datasets	N
																	3036644	04	This entry has to be cancelled.	This entry has to be cancelled.	2021-12-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepreneurship and SMEs	20386	STRATO	Strategic Autonomy	JRC.E.7	30924	EUSA-Post-covid	Post-covid-19 EU strategic sovereignty for critical inputs, services and industries	The covid-19 pandemic showed that today's global supply chains are too lean and unprepared to face the unprecedented levels of disruption across many global regions at the same time. JRC proposes to launch a project to analyse in more detail EU supply chains for critical inputs, commodities, and services for which there is a strong dependence on non-EU players. Initially, the project will focus on a case study on critical inputs to face the short-term health emergency (e.g. personal protection equipment, pharmaceuticals including vaccines, medical equipment, medical supplies, hygiene products etc.) as well as selected essential commodities present in national emergency reserves. This basket of goods will be complemented with other inputs that can assure critical infrastructure functioning, e.g. chemicals for water treatment, or essential supplies for industrial and automation control systems. For these products and the related industries (e.g. medical, health care, pharmaceutical, chemical etc.), their value chains will be analysed at the macro-economic level using multi-country input-output tables to understand better the value-added generation process and the impacts of dependences on GDP and employment. UNSD recommendations on Global Value Chain satellite accounts will be taken into account to identify strong dependences through a combination of macroeconomic statistics, business statistics and firms data on business functions for specific GVC products. For the specific areas identified, more detailed supply chain analysis will involve looking at key industrial players in the EU and worldwide for these commodities	JRC.E.7	GROW	JRC	ESTAT SANTE TRADE	2021-01-01	2022-12-31	INS-RS	3028649	1	Critical inputs	Identification of critical inputs. n.b. this output was anticipated and delivered in the context of project Covid-Epidemo 9349 in December 2020.	2021-07-01	Technical Reports	N
																	3028708	2	Value chain analysis using GVC satellite accounts methodology	Value chains will be analysed using multi-country input-output tables to understand better the value-added generation process and the impacts of foreign dependences on GDP and employment. UNSD recommendations on Global Value Chain satellite accounts methodology will be tested to identify strong dependences through a combination of macroeconomic statistics, business statistics and firms data on business functions for selected products. For the specific areas identified, more detailed supply chain analysis will focus on key industrial players in the EU and worldwide for the commodities or services concerned and will assess supply risk. Analysis of mitigation options and their possible impacts will follow.	2022-12-31	Technical Reports	N
																	3028774	3	X	X	2022-12-31	Technical Reports	N
																	3028775	4	Y	Y	2022-12-31	Technical Reports	N
																	3073410	12020	Preliminary mapping of parts of the ASD industrial ecosystem	Preliminary mapping of economic actors in the value chains of (selected parts of) the aerospace ecosystem from the perspective of strategic autonomy. Identification of critical dependencies in the global value chains and potential vulnerabilities for the EU. Circumscribing the ecosystem parts to be analysed after consultation with DGs DEFIS and GROW, and ESA. This mapping is needed to provide input for the value chain analysis using the GVC satellite accounts methodology (in year two). Work will address selected needs of DG DEFIS (observatory of strategic autonomy for the ASD ecosystem) and will feed a possible new JRC pilot to map and monitor the aerospace and digital domains to support the Industrial Strategy.	2021-12-30	Technical Reports	N

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2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepreneurship and SMEs	20426	S&CC	Safe & Clean Construction	JRC.E.4	30340	SPSS-C1	Support to policies and standards for sustainable construction	The project is developped under a series of Admiistrative Arrangments (AAs) between the JRC and DG GROW. These AAs are signed in the context of 3-year workprogrammes in support to the European policies and standards for sustainable construction. The JRC activities cover a wide spectrum of policy support tasks, ranging from monitoring and assessment of implementation of Eurpean policies, to scientific work and knowledge management to forecast further policy and stadardisation needs. The JRC involvement is absolutely necessary as it provides a combination of high scientific and technical expertise, knowledge of the European policies and independence from any national and industrial interests. These capabilities are instrumental for developing studies to justify policy and standardisation needs for improving the fire safety regulations of the EU Member States, adaptation to climate change of the transport infrastructure, energy infrastructure and buildings/construction, conception of harmonised approach to design, maintenance and renovation of tunnels in Europe, monitoring and assessment of the national application of the Eurocodes (the European standards for structural design) and support to their further development, promoting the use of the Eurocodes in Europe and worldwide.	JRC.E.4	GROW	GROW GROW	CLIMA ENER ENV INTPA NEAR	2021-01-01	2022-06-30	CON-AA CON-AA	3007869	D1	Report on the state of policies and standards for sustainable construction 2021	The deliverable summarises the main achievements in the JRC work on the three-year programme of Administrative Arrangements with DG GROW (2018 - 2021). It encompasses the four contractual deliverables: Report on the maintenance of the Eurocodes IT tools; Report on the state of implementation and harmonized use of the Eurocodes; Report on the activities and findings in the new fields of application; Report on the activities and state of the promotion of the construction sector outside EU.	2021-12-20	Technical Reports	N
																	3007871	D2	Report on the state of fire safety engineering in the EU in 2021	The deliverable reports main results on the development of European fire safety engineering approach, achieved during the work on the Administrative Arrangement in the period 1.07.2019 - 30.06.2021 (Year 2 and Year 3). It brings to the attention of DG GROW issues and discoveries which need to be considered in the policy assessment and policy design stages (e.g. , the feasibility of a European fire safety code; standardization needs (justification and scope of a new standardization Mandate to CEN for development of necessary fire safety standards, or, alternatively - recommendation to use ISO work in the regulations of the Member States), needs for guidance and training for engineers).	2021-12-20	Technical Reports	N
																	3007885	D3	Progress report on the work on support to policies and standards for sustainable construction during Year 1	The deliverable reports main results achieved during the first year of work on the administrative arrangement in the period 1.07.2021 - 30.06.2024. It brings to the attention of DG GROW issues and discoveries which need to be considered in the policy assessment and policy design stages (e.g. state of harmonized use of the Eurocodes, state of international adoption and use, needs for standardization, needs for adaptation to climate change, etc.).	2022-12-20	Technical Reports	N
																	3007886	D4	Progress report on the development of fire engineering approach in Year 1	The deliverable encompasses the achievements in the development of fire engineering approach in Year 1 of the three-year programme for AAs (1.07.2021 - 30.06.2024) with a focus on : - exploring the content and the feasibility of a European fire safety code, - assessing standardization needs for incorporation of fire safety engineering in the regulatory frameworks of the Member States, - definition of needs for guidance and training for engineers.	2022-06-30	Technical Reports	N
2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepreneurship and SMEs	20426	S&CC	Safe & Clean Construction	JRC.E.4	30343	ELSA OPEN	Opening ELSA to scientists and industry for R&D	The project implements the JRC Strategy 2030 for opening research infrastructures to external scientific use. It contributes to achieving the project portfolio's objective to provide open access of European researchers and industry to the ELSA Reaction Wall and HopLab research infrastructures for research and demonstration projects relevant to the European Green Deal and policies on the built environment. Both research infrastructures are unique in Europe. The activities are relevant to the Disaster Risk Management and the Territorial Policies Knowledge Centres and to the Community of Practice on Cities. The project will put together top researchers with leading industry, spearheading innovation, including the development of e-infrastructures, resource efficiency issues and resilience of critical infrastructures. It will have a positive impact on the normative developments and on the competitiveness of the European construction sector.	JRC.E.4	GROW	JRC	(blank)	2021-01-01	2025-12-31	INS-UR	3003119	2	Progress Report on ELSA Open - 2022	The deliverable will include the results of the evaluation by a User Selection Committee, according to the evaluation criteria and priority topics. It will present the final detailed design of the specimens, experimental set-up, testing sequence, instrumentation and data acquisition system for the selected projects. It will report on the progress of execution and technical results of the selected projects, depending on the time schedule and the type of project.	2022-12-16	Technical Reports	N
																	3003120	3	Progress Report on ELSA Open - 2023	The deliverable will include the results of the evaluation by a User Selection Committee, according to the evaluation criteria and priority topics. It will present the final detailed design of the specimens, experimental set-up, testing sequence, instrumentation and data acquisition system for the selected projects. It will report on the progress of execution and technical results of the selected projects, depending on the time schedule and the type of project.	2023-12-15	Technical Reports	N
																	3003121	4	Progress Report on ELSA Open - 2024	The deliverable will include the results of the evaluation by a User Selection Committee, according to the evaluation criteria and priority topics. It will present the final detailed design of the specimens, experimental set-up, testing sequence, instrumentation and data acquisition system for the selected projects. It will report on the progress of execution and technical results of the selected projects, depending on the time schedule and the type of project.	2024-12-13	Technical Reports	N
																	3003122	5	Progress Report on ELSA Open - 2025	The deliverable will include the results of the evaluation by a User Selection Committee, according to the evaluation criteria and priority topics. It will present the final detailed design of the specimens, experimental set-up, testing sequence, instrumentation and data acquisition system for the selected projects. It will report on the progress of execution and technical results of the selected projects, depending on the time schedule and the type of project.	2025-12-19	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3003123	1	Progress Report on ELSA Open - 2021	The deliverable will include the results of the evaluation by a User Selection Committee, according to the evaluation criteria and priority topics. It will present the final detailed design of the specimens, experimental set-up, testing sequence, instrumentation and data acquisition system for the selected projects. It will report on the progress of execution and technical results of the selected projects, depending on the time schedule and the type of project.	2021-12-17	Technical Reports	N
																	3068553	6	Research and innovation for resilient, secure and sustainable buildings	The deliverable will present the access projects in the Reaction Wall and HopLab until 2021, the follow-up or impact they will generate, and future directions, coherent with and complementary to Horizon Europe.	2021-12-17	Technical Reports	N
																	3068554	7	Research and innovation for resilient, secure and sustainable buildings	The deliverable will present the access projects in the Reaction Wall and HopLab for the period 2022-2025, the follow-up or impact they will generate, and future directions, coherent with and complementary to Horizon Europe.	2025-12-19	Technical Reports	N
2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepreneurship and SMEs	20426	S&CC	Safe & Clean Construction	JRC.E.4	30400	ELSALab	ELSA Laboratories: Reaction Wall and HOPLAB facilities	The aim of the project is to design, set up and carry out large-scale experimental test campaigns for scientific and policy support projects ensuring high standards of management, safety and quality. It implement the experimental work needed in other projects of the current project portfolio (ELSA OPEN, IRESIST++, BUILDING CYCLE), or in other portfolios, such as SMART-PROTECT (SLA4F4E 2019-2021). It is also to maintain, operate efficiently and keep up to date the Reaction Wall and HOPLAB facilities. This includes regular and improved maintenance, strategic planning for new investments, implementation of safety standards, ISO certification, calibration and management of sensor equipment, maintenance of the ELSA database, implementation of protocols for qualification and procurement. The Project provides also for optimal transnational cooperation and effective operation of RIs within the European Research Area by supporting a sustained platform for collaboration of RIs in earthquake engineering and encompassing the objectives of the ESFRI and beyond. Collaboration framework is established with the Natural Hazards Engineering Research Infrastructure (NHERI) in the USA and with leading RIs in China, Japan and South Korea. The collaboration aims to develop new technologies, techniques and standards that will promote the efficient and joint use of RIs, including web platforms to archive, manage and share research data. The Project will also evaluate innovative technologies for testing methods and sensors to increase accuracy and efficiency of experimental testing, as a contribution of the JRC/ELSA	JRC.E.4	GROW	JRC	ENER ENV HOME JRC RTD	2021-01-01	2025-12-31	INS-RS	3005728	1	ELSALab operation and strategic report 2021	Experiments planning and control, review of strategic planning for new investments, implementation of safety standards, successful re-certification according to ISO 9001 quality management assessment of the effects of planning and control, as well as on the implementation of protocols for qualification, of the performance of the Laboratory.	2021-12-22	Technical Reports	N
																	3006387	2	ELSALab operation and strategic report 2022	Experiments planning and control, review of strategic planning for new investments, implementation of safety standards, successful re-certification according to ISO 9001 quality management assessment of the effects of planning and control, as well as on the implementation of protocols for qualification, of the performance of the Laboratory.	2022-12-21	Technical Reports	N
																	3006388	3	ELSALab operation and strategic report 2023	Experiments planning and control, review of strategic planning for new investments, implementation of safety standards, successful re-certification according to ISO 9001 quality management assessment of the effects of planning and control, as well as on the implementation of protocols for qualification, of the performance of the Laboratory.	2023-12-21	Technical Reports	N
																	3006396	4	ELSALab operation and strategic report 2024	Experiments planning and control, review of strategic planning for new investments, implementation of safety standards, successful re-certification according to ISO 9001 quality management assessment of the effects of planning and control, as well as on the implementation of protocols for qualification, of the performance of the Laboratory.	2024-12-20	Technical Reports	N
																	3006397	5	ELSALab operation and strategic report 2025	Experiments planning and control, review of strategic planning for new investments, implementation of safety standards, successful re-certification according to ISO 9001 quality management assessment of the effects of planning and control, as well as on the implementation of protocols for qualification, of the performance of the Laboratory.	2025-12-19	Technical Reports	N
2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepreneurship and SMEs	20529	PROD-SMEs	Productivity, SMEs and scale-up	JRC.B.7	30449	PRODCT	Productivity	As recalled in the Annual Sustainable Growth Strategy for 2020, productivity gains are one of the main dimensions of economic policy in Europe. Indeed, high levels of labour productivity growth are key to maintaining high standards of living. However, European countries have faced over the last decade an alarming labour productivity growth slowdown. There is no single cause for this phenomenon. It rather results from a number of contributing factors, the combinations of which vary from country to country and from sector to sector. It is therefore of primary importance to analyse trends and key drivers of labour productivity growth at different levels (country, region, sector, firm) to inform the actions of policy makers aimed at fostering productivity and economic growth. It should be noted that there is no one-size-fits-for-all solution to strengthen productivity growth, but instead the policy response should be adapted to the national/regional context and focus on the relevant drivers.	JRC.B.7	GROW	JRC	ECFIN REGIO RTD SG	2021-01-01	2022-12-31	INS-RS	3029350	D1	Productivity trends in Europe - Input to the 2021 European Semester cycle	The deliverable will provide an analysis of trends and key drivers in productivity in Europe and Member States, including individual factsheets for selected Member States. The drivers of productivity to be analysed may include, amongst others, intangible investments, regional differences including specialisation, employment protection schemes and labour hoarding practices, firm ownership, global value chains and business dynamism, structural change, demography, technological diversification and green technologies.	2021-03-01	Science for Policy reports	N
																	3030332	D2	Productivity trends in Europe - Input to the 2022 European Semester cycle	The deliverable will provide an analysis of trends and key drivers in productivity in Europe and Member States, including individual factsheets for selected Member States. The drivers of productivity to be analysed may include, amongst others, intangible investments, regional differences including specialisation, employment protection schemes and labour hoarding practices, firm ownership, global value chains and business dynamism, structural change, demography, technological diversification and green technologies.	2022-03-01	Science for Policy reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepreneurship and SMEs	20529	PROD-SMEs	Productivity, SMEs and scale-up	JRC.B.7	30450	SMES&VC	Firm financing, SMEs, venture capital	Access to finance is a crucial element for firms' growth and job creation. Being able to rely on steady flows of funds and credit, especially at the earlier stages of their life, is particularly important for SMEs, given the constraint that they face in directly accessing financial markets. The outbreak of the Covid-19 pandemic has added important challenges in this area, opening up liquidity gaps for established firms and exerting a harsh impact on firm creation. SMEs are often referred to as the backbone of the European economy, including in the political guidelines of the current Commission, being a potential source for jobs and economic growth. The Commission has already been working to improve the funding available to SMEs, including by stimulating venture capital through financial instruments (for instance, within the Capital Markets Union Action Plan). Against this background, it is clear that more analysis is needed on the situation of Venture Capital investment in the EU with respect to SMEs, particularly given the worsening overall economic conditions due to the pandemic, and with a view of incentivising the green and digital transformation by smaller EU businesses in the recovery phase.	JRC.B.1	GROW	JRC	ECFIN FISMA	2021-01-01	2022-12-31	INS-RS	3006632	1	Research on access to finance and Venture Capital	Studies on access to finance and Venture Capital	2022-11-30	Science for Policy reports	N
2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepreneurship and SMEs	20529	PROD-SMEs	Productivity, SMEs and scale-up	JRC.B.7	30451	HGES	High-growth enterprises	As high-growth firms account for disproportionate amounts of employment growth and impacts on industrial renewal, seeding successive waves of innovation-based economic activity and prosperity, it is vital to understand the framework conditions and factors which either constrain or enable thier emergence and growth. Given the complexity and variability across the EU of relevant policy and market conditions and especially constraints on growth financing, there is a recurring need to monitor and analyse the above at all times. This is much more the case in economic crisis conditions when public support can sustain such firms when most vulnerable and at the same time incentivise growth in areas which drive the sustainability and digital transitions.	JRC.B.7	GROW	JRC	CNECT ECFIN FISMA REGIO RTD SG	2021-01-01	2022-12-31	INS-RS	3027705	HGE02	Input to the 2021-22 European Semester cycle	This deliverable will be in the form of a report on high growth enterprises (HGEs) consisting of an overview digest of work done on monitoring and analysing geographical, sectoral and time variability of the incidence of HGEs and the framework conditions affecting their development especially financing and risk-finance in particular. This will include individual factsheets for each EU Member State	2022-01-31	Science for Policy reports	N
																	3027706	HGE01	Input to the 2020-21 European Semester cycle	This deliverable will be in the form of a report on high growth enterprises (HGEs) consisting of an overview digest of work done on monitoring and analysing geographical, sectoral and time variability of the incidence of HGEs and the framework conditions affecting their development especially financing and risk-finance in particular. This will include individual factsheets for each EU Member State	2021-02-01	Science for Policy reports	N
2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepreneurship and SMEs	20631	DIG-GREEN-TRAN	Places and Actors of the Digital and Green Transitions	JRC.B.7	30561	ESRIT	Education and Skills for Regional Innovation and Transformation	The ESRIT project analyses how education and skills can make places more innovative, contributing to regional capacity building. It helps to deliver on the Commission's political priorities, namely a just transition to a sustainable and digital economy. Education and skills are essential for people in all places to benefit from technological change and globalisation, reversing the perception that many are 'left behind'. The focus is on education and training institutions within regions, particularly Higher Education Institutions (HEIs) and Centres of Vocational Excellence (CoVE). The project follows previous work on HEIs and Smart Specialisation, which found that public authorities are investing largely in knowledge production without building capacities within firms to use new ideas and technologies. Action research showed that the most effective skills of eco-systems are to bring together different providers of human capital and knowledge in regional partnerships. This has led to an interest in Vocational Education and Training (VET) and its role in allowing firms to use knowledge for innovation 'on the shop floor'. The project centres on Administrative Arrangements with DG EAC and DG EMPL.	JRC.B.7	EAC	EAC	EMPL REGIO	2021-01-01	2022-12-31	CON-AA	3013956	ESRIT2	Science for Policy report on how the EIT-KICs can build innovation capacity in Higher Education Institutions	Science for Policy report on how the EIT-KICs can build innovation capacity in Higher Education Institutions	2021-12-31	Science for Policy reports	N
																	3013957	ESRIT3	HESS-IV Progress Report	Intermediate report on progress in AA implementation and outcomes	2021-12-31	Technical Reports	N
																	3013958	ESRIT4	COVERT PRogress Report	Intermediate report on progress in AA implementation and outcomes	2021-12-31	Technical Reports	N
																	3013959	ESRIT5	Technical report on skills element of industrial transition territorial reviews	Technical report on skills element of industrial transition territorial reviews	2022-12-31	Technical Reports	N
																	3013960	ESRIT1	Technical report on innovation orientated education and skills funding from the EU 2021-2027	Technical report on innovation-orientated education and skills funding from the EU 2021-2027	2021-12-31	Technical Reports	N
																	3013978	ESRIT6	Policy brief on use of HEInnovate for regional engagement	Policy brief on use of HEInnovate for regional engagement	2022-12-31	Science for Policy reports	N
																	3013979	ESRIT7	HESS-IV Final Report	Report on outcomes of HESS-IV AA	2022-12-31	Technical Reports	N
																	3013980	ESRIT8	Final Report COVERT	Final report on outcomes of COVERT AA with DG EMPL	2022-12-31	Technical Reports	N

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2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepren eurship and SMEs	20631	DIG-GREEN-TRAN	Places and Actors of the Digital and Green Transitions	JRC.B.7	30563	ATRIE	Analysis of Transitions towards Resilient Industrial Ecosystems	Europe is faced with manifold and pressing demands for change, which are severely testing the ability of existing governance frameworks to respond. The COVID-19 pandemic has exposed shortcomings in the resilience of our economies which will require close attention. Technological change - most notably digitisation and labour-substituting automation -, resurgent economic globalisation, shifting demographies and above all, climate change - with all its political, production and consumption implications - are demanding far-reaching responses. In the absence of informed political leadership, there is no guarantee that the necessary transitions will happen at all or in time to avoid bleak scenarios. Adequate preparation can also help ensure that the challenges these external impulses represent are turned into opportunities for sustainable and equitable growth. This project aims to advance understanding of ongoing transitions, with in-house research and with engagement with leading external experts and to produce actionable intelligence useful for policy makers at EU, national, regional and city levels. This project seeks to develop the former work-package / Analysis of Transitions towards Regional Industrial Ecosystems.	JRC.B.7	GROW	REGIO JRC	EAC EMPL REFORM REGIO RTD	2021-01-01	2022-12-31	CON-AA INS-RS	3013693	ATRIETR2	ATRIE Technical Report	Technical reports on project activities and outcomes, co-authored by JRC staff and external experts, as appropriate.	2022-12-31	Technical Reports	N
																	3013694	ATREIPB2	ATRIE Policy Brief	Key findings of the project tailored to policy audiences	2022-12-31	Science for Policy Briefs	N
																	3013695	ATRIEPB1	ATRIE Policy Brief	Key findings of the project tailored to policy audiences	2021-12-31	Science for Policy Briefs	N
																	3013696	ATRIETR1	ATRIE Technical Report	Technical reports on project activities and outcomes, co-authored by JRC staff and external experts, as appropriate.	2021-12-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepren eurship and SMEs	20631	DIG-GREEN-TRAN	Places and Actors of the Digital and Green Transitions	JRC.B.7	30580	T-STAR	Targeted Support for Transitions And Reforms	Implemented by JRC.B3 since September 2014, successive European Parliament Preparatory Actions (PA) focused first on the Greek region of Eastern Macedonia and Thrace (REMTh) and then eight further slow and low growth regions, have aimed to facilitate the refinement and implementation of the RIS3 strategy in these regions and to generate lessons for other lagging regions in Europe. Over the period 2016-2020, this has been pursued through two complementary work packages based Administrative Agreements with DG REGIO, namely: "'support for growth and governance in lagging regions" and "the economic competitive advantages and the potential for smart specialisation at regional level in Romania." This combines with Member State needs for targeted support to reforms and the twin digital and green transitions, as well the renewed emphasis on the European Research Area, thus complementing the other projects under the same project portfolio. More specifically, it takes forward the approaches and analyses of ATRIE towards concrete application, while also providing relevant evidence for policy development.	JRC.B.7	REGIO	JRC	REFORM	2021-01-01	2022-12-31	INS-RS	3013627	TSTAR1	Targeted Support / review of activities, lessons and outcomes	Depending on the precise focus of activities, approaches and outcomes will be comprehensively documented.	2021-12-31	Technical Reports	N
																	3013629	TSTRA2	Targeted Support / review of activities, lessons and outcomes	Depending on the precise focus of activities, approaches and outcomes will be comprehensively documented.	2022-12-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepren eurship and SMEs	20631	DIG-GREEN-TRAN	Places and Actors of the Digital and Green Transitions	JRC.B.7	30607	INNOGEO	Geography of Innovation – Strategic Intelligence in place-based innovation supporting the ecological and digital transitions of the EU	The project will strengthen science for policy supporting the local articulation of the EU policy on the European Green Deal and a Europe fit for the Digital age. The intelligence system will also support local actors and places to position themselves and reap the opportunities of the twin ecological and digital transitions. All territories and actors can benefit from the transitions, by aligning place-based innovation ecosystems with European global innovation networks and European or global value chains. This requires a good understanding of all actors, places and networks involved, their investment, capacities and competences, their ambitions and strategies, and the underlying policies and trends and opportunities. Different actors and different stakeholder communities sharing similar objectives will also need to collaborate in a variable geometry, requiring innovative knowledge on R&I collaborative governance models across the EU, in order to obtain strategic synergies between actors and their different funds. Many places will also face a more or less radical transition, requiring knowledge about managing such transitions. The project builds on earlier experiences from different projects and work packages, including from Stairway to Excellence (Collaborative R&I governance models, strategic funding synergies, project databases), thematic S3 platforms (actors, networks, and value chains supporting a digital and green transition), TER-INNO, Gloria and Economic Complexity (actors, networks and value chains, capacities and competencies), ATRIE (managing transitions), Lagging	JRC.B.7	RTD	JRC	CLIMA EAC EMPL GROW REFORM REGIO	2021-01-01	2022-12-31	CON-AA INS-RS	3014055	IG2	Policy brief on R&I governance models	The Policy brief on R&I governance models looks in particular at actors and networks in related value chains, the collaboration opportunities and bottlenecks, and related governance models to increase collaboration and coordination among innovation actors, in support of implementing the EC objectives.	2021-12-31	Science for Policy Briefs	N
																	3014056	IG3	Annual report on the Knowledge Management System	The Annual report on the Knowledge Management System gives a detailed overview on progress, outcomes and issues in relation to the data collection and processing and its usefulness for the different objectives it is targeting.	2021-12-31	Technical Reports	N
																	3014057	IG4	Updated version of the Knowledge Management System	Based on the beta version of the Knowledge Management System, an updated version is targeted which takes into account the outcomes of the user experiences from the Beta version, and is adjusted to the needs for innovation policy support by the end of 2022.	2022-12-31	Sci information systems and databases	N

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																	3014058	IG5	Policy brief on the geography of innovation	The Policy brief on the geography of innovation brings forward lessons from the Knowledge Management System in terms of place-based innovation for targeting the green and digital transition.	2022-12-31	Science for Policy Briefs	N
																	3014059	IG6	Annual report on the Knowledge Management System	The Annual report on the Knowledge Management System gives a detailed overview on progress, outcomes and issues in relation to the data collection and processing and its usefulness for the different objectives it is targeting.	2022-12-31	Technical Reports	N
																	3014060	IG1	Beta version of the KMS	The Beta version of the Knowledge Management System aims to include data on both public and private innovation actors, networks and their links. Info is collected on their characteristics, their role, as well as thematic focus. Particular attention is given to actors and networks active in similar or related value chains. Data is collected through the use of existing databases, desk research, surveys, interviews, etc. Also info on governance models is included, based on specific cases.	2021-12-31	Sci information systems and databases	N
2. A Europe Fit for the Digital Age	2.3 Innovation - Industry, entrepreneurship and SMEs	20631	DIG-GREEN-TRAN	Places and Actors of the Digital and Green Transitions	JRC.B.7	30647	EU PIES	European Place-based Innovation Ecosystems	This project aims to study the functioning of place-based innovation ecosystems (PIEs) at regional and urban level, and the role of individual key players in a set of selected places. Selection criteria include regions moving towards quadruple helix model (4H) in close interaction with their smart specialisation strategies (RIS3) and sustainable growth strategies (including alignments with EU Green Deal, EU Digital Transformation and SDGs) . It builds on a previous series of EU and non-EU case studies, a subsequent comparative and transversal analysis and a methodological framework update for the study of PIEs (2017-2020) performed under TER-INNO exploratory research project (2017-2020). As a novelty (with respect to TER-INNO), the dynamics of innovative firms in their respective ecosystems and their contribution towards a green and digital transformation will be explored in selected place(s). A mapping of the underlying assets of specific place(s) will be carried out to understand their potential to achieve these goals (taking into account the regional / local innovation-specific aspects as well as the related policy framework). Additionally, this project might support (through an AA) the newly created Innovation Ecosystems unit of the European Innovation Council's Task Force (RTD.TF.2) in its task to strengthen the European Innovation ecosystem: "To fully harness the potential of innovation involving researchers, entrepreneurs, industry and society at large, the EU must improve the environment within which innovation can flourish at all levels. This	JRC.B.7	RTD	RTD JRC	CNECT EAC GROW REGIO	2021-01-01	2022-12-31	CON-AA INS-RS	3006076	EUPIES3	Policy co-creation experimentation	Experimentation with participatory and co-creation methodologies that might be used by regions and cities both in the design and implementation of innovation strategies (linked to Smart Specialisation Strategies or not). Extensively based on providing support to A3 for the adoption of these methodologies by beneficiary regions of the Science meets Regions programme. A comprehensive report summarising the experimentations and conclusions will be prepared at the end of the project.	2022-12-31	Science for Policy reports	N
																	3006077	EUPIES1	Place-based innovation ecosystem case studies	The updated case study methodology will be applied to a new series of at least 3 case studies to be defined, testing the typologies previously defined. The selection of places will specially look at mid-size, non-capital cities (including at least one smart & sustainable city, selected in consultation with CNECT/GROW). The selection of orchestrating 4H actors will include at least one Digital Innovation Hub (co-selected with CNECT) and possibly one around an ERA hub (co-selected with RTD). Inputs received from stakeholders (notably from territorial networks like ERRIN or ESPON and individual places) in previous workshops will be taken into account for the case selection (e.g. a rural PIE, or a regional PIE spread in 2-3 mid-size cities). The proposed novel approach based on available evidence-based facts and public data will be tested in at least one case study (possibly on Seville PIE to facilitate the validation of an analysis based on pure data extraction with direct observation).	2022-12-31	Technical Reports	N
																	3008488	EUPIES2	Mapping and typology of EU innovation ecosystesm	A mapping of innovation ecosystems will be performed using the criteria established in the the updated case study methodology. The typology of the latter will be refined/confirmed based on the former (mapping exercise). NOTE: THE CONFIRMATION AND REFINING OF THIS DELIVERABLE IS DEPENDENT ON AGREEMENT TO BE REACHED WITH POTENTIAL CUSTOMER (RTD TF2)	2022-12-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
2. A Europe Fit for the Digital Age	2.4 Earth Observation and space	20174	Copernicus 2.0	Scientific and Technical Support to the Copernicus Programme and it's Evolution	JRC.D.6	30865	RI4CSS	Research and Innovation for Copernicus Security Service	Copernicus is one of the Earth Observation components of EU Space Programme. It consists of ground and space infrastructure and 6 services which are using data from Copernicus satellites (Sentinels), Contributing Missions (not belonging to Copernicus), and other geo-spacial datasets to provide systematic and updated information on Land , Marine environment , Athmosphere, Climate Change and on-demand information for Emergencies (natural disasers) and Security applications (Maritime and Border Surveillance and Support to EU External Action). The services are providing users with satellite-based information since Copernicus operational inception in 2011. To bridge Copernicus operations with the reasearch needs, DG DEFIS is proposing to set up and maintain Strategic Research and Innovation Agenda (SRIA) for the Copernicus services evolution. JRC having long-term legacy in Earth Observation and being the strategic partner of DG DEFIS in operation and development of Copernicus is well fit to contribute to the SRIA and to complement existing DEFIS and member states activities on Copernicus evolution. The SRIA will be set up via HE Coordinated Support Action (CSA) where JRC will have a role (currently under discussion). It is planned that this project will contribute to Knowledge Centre on Earth Observation (KCEO). This project deals with R&D needs for Copernicus Security Service (CSS) (one of the 6 services of the Copernicus). It supports following the EC priorities: A stronger Europe in the word and Europe fit for the digital age.	JRC.E.7	DEFIS	DEFIS	(blank)	2021-01-01	2022-12-31	CON-AA	3046624	01	The methodology to gather R&I needs for Copernicus Security Service evolution	The report will describe the methodology to gather R&I needs for Copernicus Security Service (CSS) evolution. The methodology will contain following elements: Service needs, Technology maturity, Fit-for Purpose and Identification of Gaps.	2021-02-28	Technical Reports	N
																	3046706	02	Report to Coordinated Support Action	The input relevant to Copernicus Security Service to the specificaitons of CSA.	2021-06-30	Technical Reports	N
2. A Europe Fit for the Digital Age	2.4 Earth Observation and space	20382	STIEG	Science, Technology and Innovation for EU GNSS	JRC.E.2	30499	TDHEG	Testing and Demonstration Hub for EU GNSS	The EU GNSS (EGNSS) Programmes GALILEO and EGNOS have become an essential pillar of Europe's strategy to enhance industrial competitiveness, generate growth, create highly skilled jobs, boost innovation, reinforce the Union's strategic autonomy, and help make the EU a stronger global actor. The deployment of Galileo is progressing steadily and is in its final phase. Following the declaration of Galileo Initial Services in December of 2016, chipset and receiver manufacturers have had the possibility to start leveraging on more performant GNSS signals, especially for smartphones and in-vehicle navigation systems. The vast majority of new navigation chipsets include the processing of Galileo signals and are gradually integrated in user receivers in various market segments. Today, more than 1 billion of devices worldwide do integrate Galileo-compatible chipsets, which is a true measure of its success. Some regulatory measures taken by the EU in the automotive (eCall and Digital Tachograph) and in the telecommunications (E112 on smartphones) sectors are pushing for the adoption of solutions integrating GNSS based technologies, whilst at the same time ensuring compatibility with Galileo and EGNOS. It is worth pointing out that Galileo competes with other GNSS that are supported by regulatory measures to impose or stimulate the use of these systems. A number of regulatory actions have already been taken and quite a few other are under preparation. Among them, support from JRC towards the development of regulatory frameworks and standards enforcing the adoption of the EGNSS services in critical networked	JRC.E.2	DEFIS	JRC	AGRI CNECT ENER HOME MARE MOVE	2021-01-01	2027-12-31	INS-RS	3034588	GSE2021	ESA/JRC International GNSS Summer School 2021	The JRC will continue co-organizing the ESA/JRC summer school on GNSS. The deliverable will consist in the organization of this annual event and along with the preparation of lectures and labs.	2021-10-31	Training	N
																	3034612	GSE2022	ESA/JRC International GNSS Summer School 2022	The JRC will continue co-organizing the ESA/JRC summer school on GNSS. The deliverable will consist in the organization of this annual event and along with the preparation of lectures and labs.	2022-10-31	Training	N
																	3037617	DSCT2022	Collection of scientific and technical publications on GNSS systems and applications in 2022	This deliverable will gather scientific/technical publications, training activities other than the GNSS Summer School, and organization of sessions at international conferences, all of them addressing the issue of improving resilience of GNSS services against natural (e.g., ionospheric disturbances) and man-made (e.g., spoofing and jamming) threats. A follow-up of the discussions in expert groups such as the US/EU WG-C Subgroup on Resilience will be made.	2021-12-31	Journal contributions (Clarivate)	N
																	3037618	DSCT2021	Collection of scientific and technical publications on GNSS systems and applications in 2021	This deliverable will gather scientific/technical publications, training activities other than the GNSS Summer School, and organization of sessions at international conferences, all of them addressing the issue of improving resilience of GNSS services against natural (e.g., ionospheric disturbances) and man-made (e.g., spoofing and jamming) threats. A follow-up of the discussions in expert groups such as the US/EU WG-C Subgroup on Resilience will be made.	2021-12-31	Journal contributions (Clarivate)	N
																	3044776	DREP2021	Inventory of JRC's GNSS Testing Capabilities	Report presenting an up to date inventory of JRC's GNSS testing capabilities. This report is an important reference document that will be shared with HE Project Consortia under the EU GNSS Programmes that propose testing and demonstration activies at the JRC. WIth this report, project consortia will be in a position to prepare a test plan that will have to be reviewed by us.	2021-12-31	Technical Reports	N
																	3044832	DREP2022	Technical report summarising the measurement campaigns conducted at the JRC in support of the implementation of the EU GNSS Programmes	This report will present a summary of the measurement campaigns completed during the reporting period. This report will not be made available publicly.	2022-12-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
2. A Europe Fit for the Digital Age	2.4 Earth Observation and space	20382	STIEG	Science, Technology and Innovation for EU GNSS	JRC.E.2	30500	STSEG	Scientific and Technical Support for EU GNSS	The EU GNSS (EGNSS) Programmes GALILEO and EGNOS have become an essential pillar of Europe's strategy to enhance industrial competitiveness, generate growth, create highly skilled jobs, boost innovation, reinforce the Union's strategic autonomy, and help make the EU a stronger global actor. The deployment of Galileo is progressing steadily and is in its final phase. Following the declaration of Galileo Initial Services in December of 2016, chipset and receiver manufacturers have had the possibility to start leveraging on more performant GNSS signals, especially for smartphones and in-vehicle navigation systems. The vast majority of new navigation chipsets include the processing of Galileo signals and are gradually integrated in user receivers in various market segments. Today, more than 1 billion of devices worldwide do integrate Galileo-compatible chipsets, which is a true measure of its success. Some regulatory measures taken by the EU in the automotive (eCall and Digital Tachograph) and in the telecommunications (E112 on smartphones) sectors are pushing for the adoption of solutions integrating GNSS based technologies, whilst at the same time ensuring compatibility with Galileo and EGNOS. It is worth pointing out that Galileo competes with other GNSS that are supported by regulatory measures to impose or stimulate the use of these systems. A number of regulatory actions have already been taken and quite a few other are under preparation. Among them, support from JRC towards the development of regulations enforcing the adoption of the EGNSS services in critical networked infrastructures, in the operation of drones	JRC.E.2	DEFIS	DEFIS DEFIS DEFIS DEFIS	CNECT HOME	2021-01-01	2027-12-31	CON-AA CON-AA CON-AA CON-AA	3006010	STS02	Report on Scientific and Technical Support to EU GNSS - 2022	This report provides an overview of all activities performed in support to DEFIS and EUSPA (former GSA) in 2022.	2022-12-31	Science for Policy reports	N
																	3006011	STS01	Report on Scientific and Technical Support to EU GNSS - 2021	This report provides an overview of all activities performed in support to DEFIS and EUSPA (former GSA) in 2021.	2021-12-31	Science for Policy reports	N
																	3033720	STS03	Report on Galileo System Performance Monitoring	Within this report the various activities performed in relation with performance analysis and monitoring are reported. JRC developed advanced capabilities to monitor system performance in real-time. A contimuous monitoring is performed and results are reported periodically to DEFIS and GSA/EUSPA. Those capabilities are especially important in the case of anomalies, for which custom reports are tipically produced to support program recovery actions.	2022-12-31	Science for Policy reports	N
																	3033721	STS04	Report on Galileo Mission and Service Definition and Evolution	JRC provides key support on a number of activities related with Galileo Mission and Service Definition and Evolution. This report will include the most relevant results obtained in this domain. Work to be performed includes: - design, validation and testing activities related with the introduction of Galileo Open Service Navigation Message Authentication (OSNMA) - measurement and testing activities in support to the introduction of the High Accuracy Service (HAS) - service definition and performance analyses in support to the definition of Advanced Receiver Authonomous Integrity Monitoring (ARAIM) - testing and experimental activity in support to the definition of a Galileo Space Service	2022-12-31	Science for Policy reports	N
																	3033722	STS05	Report on Backup and Complementary Positioning, Navigation and Timing (PNT) Capabilities of GNSS	This report include the result of the work performed in the field of Backup and Complementary PNT capabilities. The work deals with the development of technologies that are capable of providing backup positioning, navigation and/or timing services in the event of a temporary disruction to GNSS. The work includes contributions to the definition of the relevant policy, coordination and management of H2020 activities in support to DEFIS as well as field demonstrations to be conducted within JRC laboratories.	2021-12-31	Science for Policy reports	N
2. A Europe Fit for the Digital Age	2.4 Earth Observation and space	20890	CEMS	Copernicus Emergency Management Service	JRC.E.1	30687	FLOODS	Supporting resilience to floods at local, national, European and global level	River floods are one of the most frequent natural hazards in Europe causing approximately 7.8 billion euros damage per year. Despite the relevant efforts to reduce risk, river flood impacts appear to have increased in the last decades. Ongoing global warming and the projected economic growth and urban expansion are likely to further increase social and economic impacts in Europe and worldwide. To reduce flood risk various policy frameworks have been established at global level, such as the Sendai Framework for Disaster Risk Reduction, and at European level. The key policy frameworks to reduce flood risk in Europe are the EC Floods Directive and the recently strengthened Union Civil Protection Mechanism. Other tools, such as the EU Solidarity Fund and the Copernicus program with its Copernicus Emergency Management Service (CEMS) represent further building blocks in Europe's effort to better manage and prepare for floods.The JRC has a long-term record and experience in providing scientific policy support in relation to flood risk management. This includes the development of the European and Global Flood Awareness Systems, which are part of the Copernicus Emergency Management Service, as well as the flood hazard and risk modeling capacities that have been used in assessing the impacts of floods under current and future climate.	JRC.E.1	DEFIS	DEFIS DEFIS ECHO ECHO DEFIS JRC JRC	ECHO	2021-01-01	2027-12-31	CON-AA CON-AA CON-AA CON-AA CON-AA DEL INS-ER INS-RS	3009760	202102	Knowledge sharing and ad-hoc support related to floods	Knowledge sharing with other international networks to foster uptake of science into decision and policy making on a better flood risk management is essential. Therefore, this deliverable includes the fostering of networks such as the Global Flood Partnership or the EFAS partnership, the collaboration with key partners under numerous JRC collaboration agreements and the contribution to DG ENV WG-F meetings, the ICPDR flood expert group and contributions to the DRMKC. In addition, DG ECHO's ERCC and DG REGIO's EUSF will be provided with specific scientific ad-hoc support in the case of exceptional floods.	2021-12-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3009761	202101	Management and new developments for the Copernicus flood EWS	This deliverable contains two main tasks: 1.) Research & development of new products for the Copernicus flood early warning & monitoring component: New products will be developed based on feedback from various end-users such as the ERCC, national authorities and the Copernicus user forum. For 2021 this includes an updated model version of GloFAS, the integration of social media data into GloFAS and the setting up of the global flood monitoring component 2.) Management of the Copernicus flood early warning & monitoring component: The JRC is the entrusted entity to manage the Copernicus Emergency Management Service (CEMS) of which the European and Global Flood Awareness Systems (EFAS & GloFAS) as well as the global flood monitoring product are part. This task contains the drafting and follow up of framework & specific contracts, quality control of the delivered services, regular reporting and the ensuring of linkages and synergies with other Copernicus services or other initiatives	2021-12-31	Sci information systems and databases	N
																	3010958	202103	Analysis of flood impacts in Europe and global	This deliverable will provide a unique and independent record of flood impact and losses at European and global scale on an annual basis. This will be achieved by merging the CEMS global flood monitoring product with the JRC global flood hazard and risk maps, exposure data (GHSL, Open Street Map) and other relevant data (social media, other databases, etc.). The data will be published through the DRMKC Risk Data Hub and through annual reports.	2021-12-31	Technical Reports	N
																	3015209	202201	Management and new developments for the Copernicus flood EWS	This deliverable contains two main tasks: 1.) Research & development of new products for the Copernicus flood early warning & monitoring component: New products will be developed based on feedback from various end-users such as the ERCC, national authorities and the Copernicus user forum. For 2022 this includes the increase of the spatial resolution of EFAS to 1arcmin and GloFAS to 3 arcmin including a new model calibration for both systems. 2.) Management of the Copernicus flood early warning & monitoring component: The JRC is the entrusted entity to manage the Copernicus Emergency Management Service (CEMS) of which the European and Global Flood Awareness Systems (EFAS & GloFAS) as well as the global flood monitoring product are part. This task contains the drafting and follow up of framework & specific contracts, quality control of the delivered services, regular reporting and the ensuring of linkages and synergies with other Copernicus services or other relevant initiatives	2022-12-31	Sci information systems and databases	N
																	3015210	202202	Knowledge sharing and ad-hoc support related to floods	Knowledge sharing with other international networks to foster uptake of science into decision and policy making on a better flood risk management is essential. Therefore, this deliverable includes the fostering of networks such as the Global Flood Partnership or the EFAS partnership, the collaboration with key partners under numerous JRC collaboration agreements and the contribution to DG ENV WG-F meetings, the ICPDR flood expert group and contributions to the DRMKC. In addition, DG ECHO's ERCC and DG REGIO's EUSF will be provided with specific scientific ad-hoc support in the case of exceptional floods.	2022-12-31	Technical Reports	N
																	3015211	202203	Analysis of flood impacts in Europe and global	This deliverable will provide a unique and independant record of flood impact and losses at European and global scale on an annual basis. This will be achieved by merging the CEMS global flood monitroing product with the JRC global flood hazard and risk maps, exposure data (GHSL, Open Street Map) and other relevant data (social media, other databases, etc.). The data will be published through the DRMKC Risk Data Hub and through annual reports.	2022-12-31	Technical Reports	N
2. A Europe Fit for the Digital Age	2.4 Earth Observation and space	20890	CEMS	Copernicus Emergency Management Service	JRC.E.1	30722	CEMSMapping	Copernicus EMS - Mapping	The work under this project is performed according to JRC's mandate of implementing the Copernicus Emergency Management Service (CEMS). CEMS is a fully operational service as defined in article 5 of the Copernicus Regulation (Regulation (EU) No 377/2014 of the European Parliament and of the Council establishing the Copernicus Programme and repealing Regulation (EU) No 911/2010) and expected to continue as defined in the EU Space Programme – Proposal for a Regulation COM(2018) 447. JRC's activities are performed in the frame of two cooperation agreements between DG DEFIS and DG JRC: • Administrative Arrangement Copernicus 2 JRC No. 34732-2017 NFP (1 October 2017-30 September 2021) (Ref. Ares(2017)5106477) • Cross delegation agreement Ref. ARES (2015)1535642 of 10/04/2015 (reference period is the calendar year January-December) Continuity of JRC's involvement and role in CEMS is defined in the EU Space Programme – Proposal for a Regulation COM(2018) 447 (expected to enter into force in 2020). This will be the base for the renewal of the Administrative arrangement and continuation of the cross delegation agreement. The work includes performing necessary research to deliver more efficient CEMS Mapping services, aiming at maximum outsourcing. Scientific work includes investigating the integration of new technologies and approaches to image analysis, new Earth Observation sensors, exploitation of synergies with the Early Warning and Monitoring Systems of CEMS and other alert systems (GDACS).	JRC.E.1	DEFIS	DEFIS DEFIS DEFIS JRC	ECHO	2021-01-01	2022-12-31	CON-AA CON-AA DEL INS-RS	3010041	202201	CEMS implementation report	Report on the CEMS service including a summary on the main achievements, service developments, as well as international cooperation in the field of Earth Observation for emergency mapping and disaster risk reduction. Delivery of at least 80 activations per year. Technical and scientific reporting on CEMS operations (production volumes, performance reviews) and JRC service developments (e.g. link with early warning and alert systems, social media, etc.).	2022-11-30	Technical Reports	N
																	3010042	202101	CEMS implementation report	Report on the CEMS service including a summary on the main achievements, service developments, as well as international cooperation in the field of Earth Observation for emergency mapping and disaster risk reduction. Delivery of at least 80 activations per year. Technical and scientific reporting on CEMS operations (production volumes, performance reviews) and JRC service developments (e.g. link with early warning and alert systems, social media, etc.).	2021-11-30	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
2. A Europe Fit for the Digital Age	2.4 Earth Observation and space	20890	CEMS	Copernicus Emergency Management Service	JRC.E.1	30741	DROUGHTS	Addressing risks due to droughts and extreme temperatures in Europe and globally	The Project addresses important emerging socio-economic and environmental risks resulting from droughts and extreme temperatures (heat and cold waves) by developing a European and a global observatory for monitoring, forecasting and early warning of such events. Besides detailed information on meteorological, hydrological and vegetation parameters, the observatory will include combined impact indicators for different sectors (e.g., agriculture, public water supply, energy production, inland water transport, ecosystems), tailor-made for decision makers in the Emergency Response Coordination Centre (ERCC) of DG ECHO. This information is important for the evaluation of the severity of ongoing disasters and for timely decisions on the coordination of civil protection and aid interventions. In addition to the continuous monitoring, the JRC Team provides detailed analysis reports during severe ongoing events in Europe and around the world. The Project further addresses the needs of DG DEFIS (Copernicus EMS), DG ENV (EDORA Preparatory Action), DG DEVCO (Intra-ACP-CS) on up-to-date information concerning droughts and temperature extremes and the related risks by evaluating the exposure and vulnerability of different economic sectors and the environment and by assessing the likely impacts under current and future climates in collaboration with JRC.C6. The Project deliverables are strong contributions to disaster risk management and for strengthening European and global resilience to climate risks. The systems and knowledge developed by the Project contribute to the development of a multi-hazard platform for analysing	JRC.E.1	DEFIS	DEFIS DEFIS ECHO ENV INTPA DEFIS JRC	ECHO	2021-01-01	2027-12-31	CON-AA CON-AA CON-AA CON-AA CON-AA CON-AA CON-AA DEL INS-RS	3026660	202101	Management and new developments for the Copernicus EMS European and Global Observatories (EDO and GDO)	This deliverable contains two main tasks: 1.) Research & development of new products for the Copernicus Drought Observatories component (EDO & GDO): New products will be developed based on feedback from various end-users; these will include improved drought indicators based on new available datasets (e.g. ERA5 and Sentinel EO data). Improvement of software components, addition of new global data sets and indicators, as well as refining the forecasting, vulnerability, risk and impact assessments. Although main output is information system and database, it also includes reports and scientific publications. 2.) Management of the Copernicus Drought Observatories component (EDO & GDO): The JRC is the entrusted entity to manage the Copernicus Emergency Management Service (CEMS) and is responsible for drafting and follow up of framework & specific contracts, quality control of services, regular reporting and the ensuring synergies with other Copernicus services.	2021-12-15	Sci information systems and databases	N
																	3027365	202102	Knowledge sharing and policy support related to droughts	Technical reports and maps on the severity and impacts of droughts and extreme temperatures in Europe and globally will be produced for DG ECHO's ERCC and other DG's.This institutional deliverable is underpinning the AA's with ECHO JRC4ERCC and follow up AA, while contibuting to GDACS and the DRMKC. Knowledge sharing with other international networks to foster uptake of science into decision and policy making on a better drought risk management is essential, and hence this will also include the participation in a number of international networks and the collaboration with key organisations such as the UNDRR, WMO-IDMP, or UNCCD amongst others.	2021-12-15	Technical Reports	N
																	3031182	202103	Enhancement of the European Drought Observatory for Resilience and Adaptation	This deliverable is underpinning the AA's with DG ENV - EDORA.and will foster the set up a network of drought observatories with the view to harmonise the information provided by Member States as much as possible and linking national observatories to EDO. This deliverable will be constituted by a number of reports in specific technical areas covering drought risk assessment at different scales (national, regional, River basin scale), impacts in different sectors (including agriculture, energy, environment or tourism), early warning systems, and climate badaptation.	2021-12-15	Technical Reports	N
																	3031194	202201	Management and new developments for the Copernicus EMS European and Global Observatories (EDO and GDO)	This deliverable contains two main tasks: 1.) Research & development of new products for the Copernicus Drought Observatories component (EDO & GDO): New products will be developed based on feedback from various end-users; these will include improved drought indicators based on new available datasets (e.g. ERA5 and Sentinel EO data).. Improvement of software components, addition of new global data sets and indicators, as well as refining the forecasting, vulnerability, risk and impact assessments. Although main output is information system and database, it also includes reports and scientific publications. 2.) Management of the Copernicus Drought Observatories component (EDO & GDO): The JRC is the entrusted entity to manage the Copernicus Emergency Management Service (CEMS) and is responsible for drafting and follow up of framework & specific contracts, quality control of services, regular reporting and the ensuring synergies with other Copernicus services.	2022-12-16	Sci information systems and databases	N
																	3031195	202202	Knowledge sharing and policy support related to droughts	Technical reports and maps on the severity and impacts of droughts and extreme temperatures in Europe and globally will be produced for DG ECHO's ERCC and other DG's.This institutional deliverable is underpinning the AA's with ECHO JRC4ERCC and follow up AA, while contibuting to GDACS and the DRMKC. Knowledge sharing with other international networks to foster uptake of science into decision and policy making on a better drought risk management is essential, and hence this will also include the participation in a number of international networks and the collaboration with key organisations such as the UNDRR, WMO-IDMP, or UNCCD amongst others.	2022-12-16	Technical Reports	N
																	3031201	202203	Enhancement of the European Drought Observatory for Resilience and Adaptation	This deliverable is underpinning the AA's with DG ENV - EDORA.and will foster the set up a network of drought observatories with the view to harmonise the information provided by Member States as much as possible and linking national observatories to EDO. This deliverable will be constituted by a number of reports in specific technical areas covering drought risk assessment at different scales (national, regional, River basin scale), impacts in different sectors (including agriculture, energy, environment or tourism), early warning systems, and climate badaptation	2022-12-16	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
2. A Europe Fit for the Digital Age	2.4 Earth Observation and space	20890	CEMS	Copernicus Emergency Management Service	JRC.E.1	30742	WILDFIRES	Early warning, assessment and monitoring of wildfire impacts in Europe and globally	The assessment and management of wildfire risk is a major concern in Europe and many other regions of the globe. Wildfires, including forest fires, are a major cause of deforestation globally and the cause large economic and environmental impacts and human casualties in Europe and globally. The Project Wildfires builds on the work on the European Forest Fire Information System (EFFIS) and the Global Wildfire Information System (GWIS) in the context of the EU Regulation Copernicus and the Group on Earth Observations (GEO) work program 2021-2024. Advanced statistical and modeling methods will be used to derive policy relevant information in all phases of the wildfire cycle, from prevention and early warning, to wildfire monitoring and impact assessment. Outcomes of the project will contribute to the objectives of the JRC Disaster Risk Management Knowledge Centre (DRMKC) and will support to European Commission and national services in charge of wildfire prevention and monitoring in Europe and globally in order to minimize wildfire risk and reduced the environmental and economic impact caused by wildfires.	JRC.E.1	DEFIS	DEFIS ECHO ECHO GROW DEFIS JRC	ECHO ENV INTPA	2021-01-01	2027-12-31	CON-AA CON-AA CON-AA CON-AA CON-AA DEL INS-RS	3017813	20211231	European & Global wildfire risk analyses	Contribution to the analysis of global wildfire risk through data and information in the European Forest Fire Information System (EFFIS) and the Global Wildfire Information System (GWIS)	2021-12-15	Sci information systems and databases	N
																	3039016	20221231	European and global wildfire risk analysis	Contribution to the analysis of global wildfire risk through data and information in the European Forest Fire Information System (EFFIS) and the Global Wildfire Information System (GWIS)	2022-12-15	Sci information systems and databases	N
2. A Europe Fit for the Digital Age	2.5 Defence Industry	20438	RAINDESY	Research, technologies and synergies in defence, aerospace and security	JRC.E.7	30320	DS-I2-FORS	Foresight for defence industry and space	The context has been largely explained in the portfolio description. In general, foresight has become an essential tool for the Commission and the JRC in the context of Knowledge Management and anticipatory policy making. The new Commission has a Vice-President for Interinstitutional Relations and Foresight, Maroš Šefčovič. In her mission letter to him, President von der Leyen stated the fundamental relevance to strengthen evidence-based policymaking in the Commission, to identify long-term trends requiring attention and swift action, and to define priority actions within rapidly changing geopolitical landscape through anticipation. Foresight and anticipation must therefore be embedded within all spheres and sectors of EU policies, including in the JRC. Specifically, this project on foresight works in tandem with two other projects in the portfolio: together with the project LANDSC on landscape studies that targets the current situation, it delivers inputs to the project OCT on the Observatory for Critical Technologies civil-space-defence. It will also support the project on the evolution of the Copernicus Security Service (RI4CSS in the portfolio Copernicus 2.0). The foresight part aims to 'extrapolate' the landscape study results to the future. This is essential, as the impacts of R&D take significant time before they are operational. R&D planning should address the operational needs of the future, not those of today.	JRC.E.7	DEFIS	JRC	CNECT EEAS GROW RTD SG	2021-01-01	2027-12-31	INS-RS	3031148	Fors2021	Foresight for defence and space R&D. Issue 2021	Outcome of the 2021 activity of the project.	2021-12-31	Science for Policy reports	N
																	3031153	Fors2022	Foresight for defence and space R&D. Issue 2022	Outcome of the 2022 activity of the project.	2022-12-31	Science for Policy reports	N
																	3053079	GeoPol2021	Report on implementation of geopolitical analysis and awareness system	With the purpose to support foresight for defence, security and space --- in particular of relevance to European industry in those domains --- an IT system will be set up to present knowledge, create awareness and facilitate analysis of the relevant geopolitical situation. This deliverable after one year is a technical report that describes the first test implementation of the system.	2021-12-31	Technical Reports	N
																	3053080	GeoPol2022	Report on the geopolitical analysis and awareness system	Following on from the previous deliverable GeoPol2021, this report will describe the mature system. [With the purpose to support foresight for defence, security and space --- in particular of relevance to European industry in those domains --- an IT system will be set up to present knowledge, create awareness and facilitate analysis of the relevant geopolitical situation.]	2022-12-31	Science for Policy reports	N
																	3060366	GeoPol2023	Progress report on geopolitics for defence	The report will summarize essential elements necessary for tracking and relating geopolitics and defence through the selection of indicators and matching the time for the anticipatory forecasting capacity.	2021-12-31	Technical Reports	N
																	3060367	GeoPolD2022	Geopolitics and defence	The report will outline the major trends revealed in defence and security industry fields, through the geopolitical angle.	2022-12-31	Science for Policy reports	N
2. A Europe Fit for the Digital Age	2.5 Defence Industry	20438	RAINDESY	Research, technologies and synergies in defence, aerospace and security	JRC.E.7	30496	DS-E4-DUMTAS	Dual-use material testing and simulation	Materials are a key component in defence and security protective products produced by EU industry. Existing and potential new materials developed or produced by EU industry must be tested/simulated to achieve their full potential. JRC has strong expertise in fast-dynamic material testing, and its methods can offer impartial evaluation capability to EU industry and MoDs. In addition, support in this context could be particularly proficient for the reduced number of scientific institutions operating in the sector of dynamic characterization of dual use material	JRC.E.4	DEFIS	JRC	HOME RTD	2021-01-01	2025-12-31	INS-RS	3005386	obj2b	Scientific paper on peer-reviewed journal about experimental tests on dual-use material	Scientific paper about experimental characterization of dual-use materials subjected to impact-blast loadings. Descriptions of test methodologies and final results	2022-12-15	Journal contributions (Scopus)	N
																	3005387	obj3a	Advanced modelling of the human brain in impact-blast scenarios	Technical report about advanced modelling of the human brain in impact-blast scenarios. Simulations methodologies and preliminary results	2021-12-15	Technical Reports	N
																	3005388	obj3b	Scientific paper on peer-reviewed journal about advanced modelling of human brain in impact-blast scenarios	Scientific paper about advanced modelling of human brain in impact-blast scenarios. Simulation methodologies and final results	2022-12-15	Journal contributions (Scopus)	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
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																	3005389	obj2a	Experimental tests on dual-use material	Technical report about experimental characterization of dual-use materials subjected to impact-blast loadings. Descriptions of test methodologies and preliminary results	2021-12-15	Technical Reports	N
2. A Europe Fit for the Digital Age	2.5 Defence Industry	20438	RAINDESY	Research, technologies and synergies in defence, aerospace and security	JRC.E.7	30895	DS-E2-QUANT	Quantum technology for defence and security	This project takes place within the context of the emergence of technologies exploiting quantum physics phenomena such as uncertainty, superposition and entanglement, especially in computing, communication and sensing. The Commission has set up specific programmes to promote European capability in this field: the Quantum Technology Flagship, QuantERA, the OpenQKD quantum key distribuition testbed, metrology projects and COST actions. In addition, specific infrastructure investments are planned. Some quantum technologies have major implications for cryptography and for detection of objects, and therefore for security and defence. Application of quantum technologies for defence and security is likely to include deployments in space. Links: Quantum Technology Flagship https://ec.europa.eu/commission/presscorner/detail/en/IP_18_6205 QuantERA https://www.quantera.eu/ EURAMET quantum metrology network https://www.euramet.org/european-metrology-networks/quantum-technologies/ COST action quantum technology in space http://www.qtspace.eu/ QCI declaration https://ec.europa.eu/newsroom/dae/document.cfm?doc_id=60090 QCI industry day https://ec.europa.eu/digital-single-market/en/news/european-commission-event-quantum-communication-infrastructure	JRC.E.2	DEFIS	JRC	CNECT DIGIT JRC	2021-01-01	2022-12-31	INS-RS	3037915	D2	Analysis of applications of quantum technology in EU space systems	This deliverable will consist of reviews of relevant scientific and commercial literature, continuing and developing the work done in 2020, according to the new priorities of DG DEFIS. A strong emphasis will be placed on comparison of the quantum techniques with conventional alternatives, with the intention of identifying where there is, and where there is not, grounds to expect a "quantum advantage".	2021-12-31	Science for Policy reports	N
2. A Europe Fit for the Digital Age	2.5 Defence Industry	20438	RAINDESY	Research, technologies and synergies in defence, aerospace and security	JRC.E.7	30901	DS-E7-LANDSC	Dual-use defence and aerospace landscape and technology studies	The context has been largely explained in the portfolio description. Under the JRC Strategy 2030 and related to the COM Communication C(2016) 6626 of 18.10.2016 “Data, Information and Knowledge Management at the European Commission”, the JRC has set up its KM Units of which E.7 is one. A part of KM work is collecting, compiling, curating, analysing and disseminating relevant information. This project aims to do that in support to the EU policymaking cycle related to defence, dual-use and aerospace; including developing the underpinning KM system. The information to be collected and the stakeholders for whose use the information is intended have been mentioned in the portfolio description (under scope). Additional information to be collected includes relevant literature (mostly open) and web sites where relevant information is published (see methodologies below). The collected information will be stored in a structured database with a searchable interface for easy access. The information collected will serve various activities: * To have this focused and clustered information readily available is in its own right helpful for policymakers. Therefore, this itself is one deliverable, to be regularly updated. * To provide input to the project OCT of this portfolio that will coordinate the EU Observatory on Critical Technologies for civil-space-defence. In addition, the space-related content will support the E.7-led project “R&D Needs for the Copernicus Security Service” in the	JRC.E.7	DEFIS	JRC	EEAS RTD SG	2021-01-01	2027-12-31	INS-RS	3030460	ndscape20	Landscape study report and database Issue 2021	Results of the landscape study in the form of a database (accessible with a user interface) and a descriptive report (including developed methodologies).	2021-12-31	Science for Policy reports	N
																	3030476	chWatch20	TechWatch report Issue 2021	Report of the TechWatch exercises (results and methodologies).	2021-12-31	Technical Reports	N
																	3030721	ndscape20	Landscape study report and database Issue 2022	Results of the landscape study in the form of a database (accessible with a user interface) and a descriptive report (including developed methodologies).	2022-12-31	Science for Policy reports	N
																	3030722	chWatch20	Report of TechWatch Issue 2022	Report of the TechWatch exercises (results and methodologies).	2022-12-31	Technical Reports	N

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2. A Europe Fit for the Digital Age	2.5 Defence Industry	20438	RAINDESY	Research, technologies and synergies in defence, aerospace and security	JRC.E.7	30903	DS-E7-GOVSC	ENTRUSTED GOVSATCOM	The broad context has been explained in the portfolio description. The EU's GOVSATCOM initiative comes about because of a need of EU government branches to be able to have long-range secure communication. This is for example between embassies or forces deployed in remote countries and their home offices. The needs are with national and EU-level authorities and for civil and military users. Such long-range communications are best implemented by satellites, to be independent of land lines that can be out of the national or EU control. So while the solution is proposed at EU level under the EU space program, the need comes from the security and defence communities. While there are dedicated military communications satellites, also defence users see benefits in using civilian secure satcom systems. In preparation of the GOVSTCOM element of the EU Space Program proposed for the new MFF, COM has last year launched a call for a Coordination and Support Action (CSA) under H2020. The call was only for government participants, not industry, and DG GROW (at the time, now DEFIS) asked JRC to join the competitive project. A bid was submitted, led by the European GNSS Agency in Prague (GSA), with a number of national space agencies and EU agencies in the consortium as well as JRC. The proposal was approved and will start in May or June 2020 with a 2.5 year duration. The objectives of the project are to set up a lasting European network of GOVSATCOM stakeholders, compile and consolidate user needs for	JRC.E.7	DEFIS	RTD	EEAS	2021-01-01	2022-12-31	CON-AA							
2. A Europe Fit for the Digital Age	2.5 Defence Industry	20438	RAINDESY	Research, technologies and synergies in defence, aerospace and security	JRC.E.7	31580	DS-E7-OCT	EU Observatory for Critical Technologies in Civil, Defence and Space	Already the conclusions of the 19/20 Dec 2013 European Council (EUCO 217/13) mention the needs for a strong European Defence Technological and Industrial Base (EDTIB) to enhance strategic autonomy, for defence Research & Technology (R&T) expertise in critical defence technologies, and for dual-use research. "A New Strategic Agenda 2019 – 2024" annexed to the EUCO meeting conclusions of 20 Jun 2019 mentions securing strategic supply chains and the capacity to act autonomously. The Von der Leyen Political Guidelines for the Next European Commission 2019-2024 (16 Jul 2019) aim, under the Digital Age priority, for technological sovereignty in some critical technology areas. Under the Stronger Europe in the World priority they intend to support research and capability development though the EDF, creating new opportunities for high-tech industries. The COM communication A New Industrial Strategy for Europe of 10 Mar 2020 (COM(2020) 102) recognises the concept of industrial ecosystems, Aerospace and defence (ASD) being one of them. It mentions strategic autonomy, technological sovereignty, key enabling technologies, disruptive technologies and space technologies. The conclusions of the 17-21 Jul 2020 special EUCO meeting want the EDF to support the EDTIB, strengthening defence supply and value chains and contributing to the EU's strategic autonomy. The 1-2 Oct 2020 special EUCO meeting wants to achieve strategic autonomy, invites COM to identify and reduce strategic dependencies, and calls to develop EU autonomy in the space sector and a more integrated defence industrial base. Most recently, the Action Plan	JRC.E.7	SG	JRC	DEFIS	2021-03-12	2027-12-31	INS-RS	3107645	OctConcept	Concept Note for the EU Observatory for Critical Technologies in Civil, Defence and Space	The Concept Note defines how the Observatory will work: its processes, actors and their roles, stakeholders and the interactions with them, governance, outputs. There will first be a draft version released by JRC, and the final version will be agreed by the policy DGs.	2021-07-01	Science for Policy reports	N
																	3107652	OctMethod0	OCT Methodology (Initial version)	The definition of the methodology used in the Observatory to produce the two-yearly report. First version.	2022-01-31	Science for Policy reports	N
																	3107653	OctMethod0	Methodology for the Observatory - Update	The definition of the methodology used in the Observatory to produce the two-yearly report. Updated version.	2024-01-31	Science for Policy reports	N
3. An Economy that Works for People	3.1 Economic and Monetary Union	20446	EUROPEAN SEMESTER	Anchoring and asserting the role of evidence in the European Semester and RRF	JRC.B.7	30633	ES-SDG	Aligning the European Semester and the Sustainable Development Goals (SDGs)	In line with the Commission priority to align the European Semester (including the Recovery and Resilience Facility - RRF) and the Sustainable Development Goals (SDGs) - as specified in the Political Guidelines and the European Green Deal - all DGs taking part in the European Semester are asked to (i) mainstream the SDGs across their contributions to the European Semester process, and (ii) develop new contributions with a link to the SDGs that have socio-economic relevance. JRC already contributes to both aspects. JRC is well placed to provide additional SDG-related scientific evidence to inform the European Semester process since several work streams deal either directly or indirectly with the SDGs. By mainstreaming the SDGs across existing JRC contributions to the European Semester and identifying new JRC contributions that could inform the process, this project supports achieving the aforementioned Commission's objective.	JRC.B.7	ECFIN	JRC	CLIMA ECFIN ENER ENV FISMA GROW REGIO RTD SANTE	2021-01-01	2022-12-31	INS-RS	3034644	ESSDG01	Lessons learned on KM (internal report), 2021	Lessons learned aims to provide an assessment of the JRC contributions in the context of the alignment between the European Semester and the Sustainable Development Goals (SDGs). This will include workflows within JRC and between JRC and policy DGs, as well as the interest and challenge to integrate SDG-related JRC contributions into the European Semester outputs.	2021-08-31	Technical Reports	N

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3. An Economy that Works for People	3.1 Economic and Monetary Union	20446	EUROPEAN SEMESTER	Anchoring and asserting the role of evidence in the European Semester and RRF	JRC.B.7	30666	MACFIS	Macroeconomic and Fiscal Surveillance	Scientific support to EC policy process in the broad area of the macroeconomic and fiscal surveillance, also linking to Europe's recovery and transition agendas. This is achieved by implementing/simulating/estimating a wide range of macro-econometric models: GAP, GM, QUEST and nowcasting models. Policy contexts are (1) GAP model for the monitoring of fiscal imbalances and fiscal consolidation for the implementation and in application of the Stability and Growth Pact (SGP), Two Pack and Six Pack. Activities include development/maintenance of Programme GAP, with its possible updates in light of the SGP review envisaged in the Europe's recovery agenda, regular participation in the Output Gap Working Group (OGWG), training to Member States, execution of the annual work-programme agreed by the OGWG, targeted studies, following specific requests from DG ECFIN, the OGWG and its parent committees EPC and EFC. (2) GM model for the periodic release of the EC forecasts and to monitor recovery, transition and fiscal stabilization paths, in sync with the companion project MOD4SDG. Activities provide support for EC forecasts and for understanding the evolution and drivers of key macroeconomic factors. The model can also be used to identify synergies/trade-offs at the intersection of recovery-transition-fiscal stabilization paths and to trace structural changes (materializing effects of recovery/transition policies) behind the cyclical fluctuations. As such, the GM model can play a key role in complementing the foresight perspective, by bridging short versus long term horizons. For policy purposes, the model is made available to and used in conjunction	JRC.B.1	ECFIN	COMP ECFIN ECFIN JRC	COMP	2021-01-01	2025-12-31	CON-AA CON-AA CON-AA CON-AA INS-RS	3007493	sterSuppor	Support to European Semester: Economic Forecasts and Output GAP	The deliverable includes series of studies feeding into the European Semester, including for instance EC forecasts (GM model-based calculations for euro area and individual euro-area countries) and Output Gap estimation (methodological inputs to the Output Gap Working Group, maintenance and upgrade of programme GAP).The deliverable includes also methodological studies on macroeconometric nowcasting models.	2021-12-16	Science for Policy reports	N
																	3007494	sterSuppor	Support to European Semester: Economic Forecasts and Output GAP	The deliverable includes series of studies feeding into the European Semester, including for instance EC forecasts (GM model-based calculations for euro area and individual euro-area countries) and Output Gap estimation (methodological inputs to the Output Gap Working Group, maintenance and upgrade of programme GAP).The deliverable includes also methodological studies on macroeconometric nowcasting models.	2022-12-15	Science for Policy reports	N
																	3007495	sterSuppor	Support to European Semester: Economic Forecasts and Output GAP	The deliverable includes series of studies feeding into the European Semester, including for instance EC forecasts (GM model-based calculations for euro area and individual euro-area countries) and Output Gap estimation (methodological inputs to the Output Gap Working Group, maintenance and upgrade of programme GAP).The deliverable includes also methodological studies on macroeconometric nowcasting models.	2023-12-20	Science for Policy reports	N
																	3007504	AAGM20	GM model development	Reports as defined in Administrative Arrangement AA-GM-2020.	2021-12-19	Technical Reports	N
																	3007800	mpEvaluati	Ex-post macro impact of competition policies	The deliverable includes studies related to the ex-post assessment of macroeconomic impact of competition policies. It includes annual updates of macroeconomic simulation with new released data of merger and cartel cases. It also includes maintenance and extension of the SICOMA toolbox and related training to DG COMP staff.	2023-12-15	Technical Reports	N
																	3074929	rtSemesterI	Support to European Semester and Recovery and Resilience Facility (RRF) implementation	Studies and analyses feeding into policy documents in the context of the European Semester and recovery/transition policies under the Recovery and Resilience Facility (RRF): EC forecasts and policy studies (GM model-based analyses for euro area and individual euro-area countries), Output Gap estimations (methodological inputs to the Output Gap Working Group, maintenance and upgrade of programme GAP) and nowcasting.	2025-12-19	Whole parts of policy documents	N
																	3074942	AAGM2021	GM model development	Reports as defined in Administrative Arrangement AA-GM-2021, renewed annually	2022-12-16	Technical Reports	N
																	3074950	AAGM21	GM model development	Reports as defined in Administrative Arrangement AA-GM-2021	2022-12-16	Technical Reports	N
																	3075059	rtSemesterI	Support to European Semester and Recovery and Resilience Facility (RRF) implementation	Studies and analyses feeding into policy documents in the context of the European Semester and recovery/transition policies under the Recovery and Resilience Facility (RRF). These can be EC forecasts and policy studies (GM model-based analyses for euro area and individual euro-area countries), Output Gap estimations (methodological inputs to the Output Gap Working Group, maintenance and upgrade of programme GAP) and nowcasting.	2021-12-16	Whole parts of policy documents	N
																	3076833	Models4ES	Economic research and methodological studies	Underpinning research and methodological studies on structural macro-economic models (GM model), macroeconometric GAP and nowcasting models, also expected by our partner DG ECFIN, and which will also help maintaining the credibility and reputation of the models applied for policy.	2025-12-12	Journal contributions (Clarivate)	N

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3. An Economy that Works for People	3.1 Economic and Monetary Union	20446	EUROPEAN SEMESTER	Anchoring and asserting the role of evidence in the European Semester and RRF	JRC.B.7	30668	MeasuRes	Resilience analyses and dashboards	Resilience is increasingly becoming a key element of EU policies. Past and current crises, the digital, the fair and the green transitions, all need important absorptive, adaptative and transformative capacities. There is also a growing demand for quantifying these capacities for the policy process, and to understand what policies can strengthen them and how. The JRC has been involved in resilience work for many years. Its conceptual framework, measurement strategy and prototype resilience dashboards represent a solid basis and starting point for creating policy relevant measurement and monitoring tools for resilience. In the context of a broadened Semester focus, such dashboards, and measurement and monitoring tools more broadly, serve an important role to enhance existing policy monitoring frameworks with the aspects of risks, vulnerabilities and most importantly, resilience capacities (absorption, adaptation, and transformation) and corresponding interventions. This is particularly relevant for the European Semester policy coordination process as well as the implementation of the Recovery and Resilience Facility (RRF).	JRC.B.1	SG	JRC	CLIMA CNECT COLLÈGE EAC ECFIN EMPL ENER ENV ESTAT GROW	2021-01-01	2022-12-31	INS-RS	3007927	Report2022	Second overview report on the measurement of resilience	Relatively to the first report, the second would extend the list of potential topics to other challenges (for example, demography, material access, disasters). The precise scale and scope will be shaped by Commission priorities and discussions with partner DGs.	2022-12-31	Science for Policy reports	N
																	3007928	Report2021	Overview report for resilience analyses and measurement work	The Science for Policy report will draw on and summarise the achievements of the project by the end of 2021. Its foreseen ingredients include some or more of the following: - an analysis and measurement tool for COVID-19 - analyses and measurement tools for the green, fair and digital transitions - measuring and monitoring economic and individual resilience at the country and regional level - further developments in the conceptualisaton of resilience, its links to strategic foresight and transitions. The precise scale and scope will be shaped by Commission priorities and discussions with partner DGs.	2021-12-31	Science for Policy reports	N
3. An Economy that Works for People	3.1 Economic and Monetary Union	20446	EUROPEAN SEMESTER	Anchoring and asserting the role of evidence in the European Semester and RRF	JRC.B.7	30669	MOD4SDG	Modelling SDGs in the European Semester	President U. von der Leyen listed among her priorities the refocus of the European Semester into an instrument that integrates the United Nations Sustainable Development Goals (SDGs). Using models to explore environmental and social outcomes, in addition to macro-economic ones, is expected to add value to models that are being used in impact assessments and evaluations. The SDGs are multidisciplinary in their nature. Their achievement requires integrated approaches that are able to catch the interlinkages (synergies and trade-offs) among the goals and the various aspects of sustainable development. Models play a fundamental role in this respect, as they can be exploited to understand the complexity of sustainable development challenges. In sync with the companion project MACFIS, this project aims to extend the GM model (already used with DG ECFIN for the European Semester) to explore social (income and wealth distribution), energy (to better trace the effects of changes in the price of energy on households' and firms' decisions) and environmental (projections of environmental indicators by developing a satellite model) dimensions. Moreover, to ensure a timely monitoring of the evolution of SDG indicators and the assessment of the effects of their respective policies, the project will develop models for nowcasting, leveraging also on the methods and expertise developed in the CAS bigNOMICS project. In the context of the European Green Deal, it will become more important to trace and monitor the impact of environmental policy measures. For this	JRC.B.1	ECFIN	JRC	(blank)	2021-01-01	2022-12-31	INS-RS	3007539	SDGs1	Modelling SDGs	The deliverable includes activities to extend the GM model to explore social, energy and environmental dimensions. This will be complemented by nowcasting methodologies to provide a more timely monitoring of the evolution of SDG indicators in support of European economic forecasts and, more in general, to the European Semester.	2021-12-17	Science for Policy reports	N
																	3013167	SDGs2	Modelling SDGs	The deliverable includes activities to extend the GM model to explore social, energy and environmental dimensions. This will be complemented by nowcasting methodologies to provide a more timely monitoring of the evolution of SDG indicators in support of European economic forecasts and, more in general, to the European Semester.	2022-12-16	Science for Policy reports	N

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3. An Economy that Works for People	3.1 Economic and Monetary Union	20446	EUROPEAN SEMESTER	Anchoring and asserting the role of evidence in the European Semester and RRF	JRC.B.7	30671	ES-COORD	Coordination of the European Semester & Recovery and Resilience Facility	JRC is actively engaged in the European Semester and the Recovery and Resilience Facility (RRF) to underpin policy recommendations with robust evidence. This portfolio has close connections with several Commission priorities, not only "An economy that works for people" but also "A European Green Deal" and "A Europe fit for the digital age". The European Semester is a cycle of economic and fiscal policy coordination within the European Union (EU), and part of the EU's economic governance framework. Since September 2016, the upon invitation by Secretariat General (SG), JRC is a member of the European Semester Country Teams. With EUR 672.5 billion of loans and grants of frontloaded financial support in the crucial first years of recovery, the Recovery and Resilience Facility will be the main delivery tool of the recovery from the COVID19 outbreak. The Facility aims to help Member States recover from the COVID-19 crisis and make their economies more resilient and better prepared for the challenges posed by the green and digital transitions. In such a context the participation in Country Teams raises the visibility of the JRC as an actor in the European Semester, increasing the impact of JRC contributions and allowing early identification of analytical gaps which JRC may help to cover in the European Semester process. The higher institutional visibility of the JRC as reliable partner in the Semester policy coordination process has strengthened	JRC.B.7	ECFIN	JRC	(blank)	2021-01-01	2022-12-31	INS-RS	3024991	sonsLearnt2	Lessons learnt on KM (internal report), 2021	Lessons learnt aimed to reflect on the JRC involvement in the European Semester (ES) process. This will include workflows within JRC and between JRC and policy DGs, as well as the interest and challenge to integrate JRC contributions into the preparation of ES country reports by Commission country teams. The lessons learnt will be produced in consultation with other JRC units. They will address the methods and contents produced by the JRC in support of the European Semester process and ways forward in that regard.	2021-08-31	Technical Reports	N
3. An Economy that Works for People	3.1 Economic and Monetary Union	20539	EMU	Towards a stronger and fairer Economic and Monetary Union	JRC.B.1	30478	BankUni	Completing the Banking Union	The Commission will have to strive to foster confidence in the European financial system and safety net, with citizens and at a global level. As seen after the financial crisis of 2008, on their own, individual European financial systems and financial safety nets are too small to withstand the financial stability consequences of systemic events such as the COVID emergency and the global concerns affecting the EU, including climate change. Failure to cooperate at European level and not strengthening the Economic and Monetary Union and a pan-European financial safety net will not allow Member States to be equipped to face these shocks and others in the future, leading the European banking and financial systems to lose strength and relevance at a global level. The EC aims to put forward initiatives to deepen the Economic and Monetary Union (EMU), as planned in the priority "An economy that works for people". This project serves the ultimate goal of supporting EU policies: 1) in the completion of a resilient and competitive Financial Union, by supporting the implementation of a European Deposit Insurance Scheme and the creation of a European Safe Asset; 2) in supporting the implementation of a deeper and fairer Economic Union, by contributing to the adoption of financial regulatory standards agreed in international fora (Basel Committee); 3) in supporting policy makers in their role as participant in systemic risk monitoring bodies (i.e. European	JRC.B.1	FISMA	JRC	ECFIN	2021-01-01	2022-12-23	CON-TW INS-RS	3005098	1002	Support to the SRB	Analyses developed in support to the Single Resolution Board for the calculation of ex-ante contributions to the Single Resolution Fund.	2021-12-31	Sci information systems and databases	N
																	3005099	1001	Financial resilience	Studies with analyses to support partner DGs (FISMA, ECFIN …) in their initiatives to complete the banking union and to foster financial resilience.	2021-12-31	Science for Policy reports	N
3. An Economy that Works for People	3.1 Economic and Monetary Union	20539	EMU	Towards a stronger and fairer Economic and Monetary Union	JRC.B.1	30482	CapitalMarkets	Monitoring CMU and firms' financing	Well-functioning and innovative capital markets are essential in enabling firms, households and governments to access stable funding and saving opportunities that are vital for consumption, investment and, ultimately, economic growth and employment. Without progress towards a fully-fledged CMU and a complete Banking Union, significant difficulties will arise in effectively addressing the global challenges facing the EU. Further developing and integrating EU capital markets takes on even more urgency in light of the challenges posed by the United Kingdom's departure from the EU and the recent COVID-19 outbreak.	JRC.B.1	FISMA	JRC	(blank)	2021-01-01	2022-12-31	INS-RS	3006021	1	Monitoring of CMU	Studies with analysis in support to DG FISMA in their initiatives to complete the CMU and monitor achievements of Member States. The studies will be also addressed to supply research analysis to other interested DGs, on topics related to the CMU's main initiatives/dimensions.	2021-12-30	Technical Reports	N
3. An Economy that Works for People	3.1 Economic and Monetary Union	20539	EMU	Towards a stronger and fairer Economic and Monetary Union	JRC.B.1	30882	MICINTMAC	Microeconometric data for international macroeconomics	The MICINTMAC project contributes to the Exploratory Research (ER) Programme. The main goal of the proposed ER project MICINTMAC is to develop a comprehensive mapping of the global geography of production for public and private companies, to be devoted to the analysis of international macro-financial issues, in order to ultimately gain a better understanding of international real and financial linkages among countries.	JRC.B.1	ECFIN	JRC	RTD	2019-11-15	2021-01-31	INS-ER	3024181	1	Final report	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project.	2021-01-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
3. An Economy that Works for People	3.1 Economic and Monetary Union	20968	RHOMOLO	Impact of Policies on Growth and Innovation	JRC.B.7	30447	HETFIGE	Macroeconomic modelling on heterogeneous firms	A better understanding of propagation mechanisms between R&I at firm level and macroeconomic variables and a better account for business cycles are needed to evaluate the real impact of R&I and industrial policies on the whole economy. Based on the work carried out in the HETFIGE exploratory research project, a new dynamic stochastic general equilibrium model is being developed to allow the assessment of the impact of different policy mixes such as R&D tax credits and grants, as well as loans which facilitate investment. As of December 2020, the model will be calibrated to match a sub-set of Member States and have the following features: it will be a closed economy model where heterogeneous firms, which are financially constrained, invest in innovation via the support of loans from the financial sectors, as well as public intervention such as grants, loans with favourable interest rates and R&D tax credits. The model has the potential to become a powerful tool for ex-ante assessment and ex-post evaluation of innovation and industrial policies, SME instruments and the like. On-going informal discussions with policy DGs (e.g. RTD) is easing the finalisation of the work description and will increase the uptake and use of the model once finalised. This work is linked in particular (but not only) with the need (from e.g. RTD, European Semester country teams) to better assess and design R&I policy at EU and national level.	JRC.B.7	GROW	JRC	EAC ECFIN EMPL GROW REGIO RTD TAXUD	2021-01-01	2022-12-31	INS-RS	3034003	D1	Calibration of the HETFIGE model	The deliverable will explain how the model has been calibrated and give an overview of the potential use of the model. Potentially, the deliverable may include a case study (e.g. analysis of some national innovation support systems in the context of the European Semester).	2021-12-31	Technical Reports	N
																	3034156	D2	Human capital accumulation in HETFIGE	The deliverable will describe how the human capital accumulation has been endogenised in the model and show how this newly introduced mechanism can enrich the policy analysis. Potentially, the deliverable may include a case study (e.g. analysis of some national educational and training systems in the context of the European Semester).	2022-12-31	Technical Reports	N
																	3034285	D3	Peer-reviewed article	The deliverable will be a peer-reviewed article based on the output of the project to help understand for instance: the trade-off of firm innovation decision, especially in the presence of credit constraints and the opportunity to apply to different sources of R&D financing; the efficiency and optimality of different policy mixes at the firm level, on the firms' productivity distribution and dynamics, and at the macroeconomic level.	2022-12-31	Journal contributions (Scopus)	N
3. An Economy that Works for People	3.1 Economic and Monetary Union	20968	RHOMOLO	Impact of Policies on Growth and Innovation	JRC.B.7	30782	RHOMOLO - INST	Economic Modelling for Territorial and Sector Analysis	Rhomolo-INST allows the JRC to have its own territorial economic modelling tool at the service of the horizontal support to different EU / national / regional policies. RHOMOLO - INST allows to bridge different activities conducted within the project portfolio and thus build a coherent analytical framework to support COM initiatives while positioning JRC as the core science service to evaluate / assess the economic impact of policies. Special focus will be given to the support of JRC positioning with the respect to the European Semester process	JRC.B.7	REGIO	JRC	ECFIN	2021-01-01	2023-12-31	INS-ER INS-RS	3030636	1	Series of Technical Reports and Policy Insights	Series of Technical Reports and Policy Insights related to the ongoing activities of the RHOMOLO team	2021-12-15	Technical Reports	N
3. An Economy that Works for People	3.1 Economic and Monetary Union	20968	RHOMOLO	Impact of Policies on Growth and Innovation	JRC.B.7	30783	RHOMOLO - REGIO	RHOMOLO VII - Territorial Analysis	Rhomolo-REGIO allows the JRC to support territorial ex-ante policy impact assessment with a focus on European Structural and Investment Funds.	JRC.B.7	REGIO	REGIO	ECFIN	2021-01-01	2023-06-30	CON-AA	3030652	2	Series of Technical Reports and Policy Insights - REGIO	Series of Technical Reports and Policy Insights related to the ongoing activities of the RHOMOLO team - AA with DG REGIO	2021-12-15	Technical Reports	N
3. An Economy that Works for People	3.1 Economic and Monetary Union	20968	RHOMOLO	Impact of Policies on Growth and Innovation	JRC.B.7	30784	RHOMOLO - EIB	Economic Modelling of EU Investment Plan and European Investment Bank (EIB) Portfolio	The RHOMOLO-EIB project aims at developing the RHOMOLO model to provide accurate ex-ante impact assessment with regional and sectoral detail of operations supported by EIB Group and EFSI on jobs and growth in Europe. Complementary to the bottom-up approach that mainly assesses the direct effects of EIB Group supported operations, a macroeconomic modelling approach is pursued to better capture the indirect and induced effect of the EIB Group-supported investments.	JRC.B.7	ECFIN	REGIO	REGIO	2021-01-01	2023-06-30	CON-AA	3010210	2	Annual Report on RHOMOLO-EIB model development and related activities	RHOMOLO simulations on impact assessment of EIB investments, with results delivered as Excel tables and technical reports explaining the results.	2022-10-01	Technical Reports	N
																	3010211	1	Annual Report on RHOMOLO-EIB model development and related activities	RHOMOLO simulations on impact assessment of EIB investments, with results delivered as Excel tables and technical reports explaining the results.	2021-10-01	Technical Reports	N
3. An Economy that Works for People	3.1 Economic and Monetary Union	20968	RHOMOLO	Impact of Policies on Growth and Innovation	JRC.B.7	31320	RHOMOLO-EMPL	RHOMOLO-EMPL	Rhomolo-EMPL allows the JRC to support territorial ex-ante policy impact assessment with a focus on distributional impacts.	JRC.B.7	EMPL	EMPL JRC	REGIO	2021-01-01	2023-12-01	CON-AA INS-RS	3086814	899554	Annual Report on RHOMOLO-EMPL model development and related activities	RHOMOLO simulations on the distributioanl and labour market effects of policy interventions - with a focus on the MFF - with results delivered as Excel tables and technical reports explaining the results.	2021-12-15	Technical Reports	N
3. An Economy that Works for People	3.1 Economic and Monetary Union	20968	RHOMOLO	Impact of Policies on Growth and Innovation	JRC.B.7	31340	GEGRAM	GEGRAM	The main goal of the GEGRAM project is to explore and develop a structural gravity general equilibrium model for the EU regions.	JRC.B.7	REGIO	JRC	TRADE	2019-06-01	2021-05-31	INS-ER	3087009	902013	GEGRAM Technical Report	TR related to the research areas explored under the GEGRAM ER	2021-07-01	Technical Reports	N

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3. An Economy that Works for People	3.2 Fair and effective taxation	20441	TAX&SB REFORMS	Modelling the redistributive and fiscal impact of tax and social benefit reforms	JRC.B.2	30552	EUROMOD	EUROMOD maintenance and update	The EUROMOD microsimulation model has been developed over the past 20 years thanks to Commission funding by a network of European academic and policy institutions led by the University of Essex. The model is now extensively used by the Commission services in the area of tax and social benefits policies. It is a state of the art model benefiting from recognition in both academic and policy circles. The JRC became fully responsible for the maintenance and update of the EUROMOD microsimulation model as from January 2021, after a period of transition (2018-2020) during which the model has been transferred to the JRC. The JRC is in charge of the model after agreement with the University of Essex. The model is financed by the JRC, DG ECFIN, DG EMPL, DG TAXUD and DG REFORM.	JRC.B.2	EMPL	EMPL JRC	ECFIN ESTAT REFORM TAXUD	2021-01-01	2023-12-31	CON-AA INS-RS	3071792	02	Report to the EUROMOD Steering Committee	Report describing the implementation of the EUROMOD transfer and update process	2021-12-31	Technical Reports	N
																	3071793	03	Final annual EUROMOD report	Final annual report on the maintenance and update of the EUROMOD model addressed to DG EMPL, DG ECFIN, DG REFORM and DG TAXUD.	2021-12-31	Technical Reports	N
																	3071794	04	EUROMOD Country report	Report providing a description of technical updates of EUROMOD model	2021-12-31	Technical Reports	N
																	3071795	05	EUROMOD baseline report	Report providing baseline simulations of the EUROMOD model	2021-12-31	Technical Reports	N
																	3071796	06	EUROMOD statistics on the Distribution and Decomposition of Disposable Income	Report providing a description of the distribution and decomposition of households´ disposable income in the EU	2021-12-31	Technical Reports	N
																	3071797	07	Policy Effect Tool indicators	Report providing results on tax and social policy effects on households´ disposable income	2021-12-31	Technical Reports	N
																	3071798	08	Annual Report	Report delivered to the EUROMOD Scientific advisory board	2022-12-31	Technical Reports	N
																	3071799	01	Annual Report	Report delivered to the EUROMOD Scientific advisory board	2021-12-31	Technical Reports	N
																	3071931	09	Report to the EUROMOD Steering Committee	Report describing the implementation of the EUROMOD transfer and update process	2022-12-31	Technical Reports	N
																	3071932	10	Final annual EUROMOD report	Final annual report on the maintenance and update of the EUROMOD model addressed to DG EMPL, DG ECFIN, DG REFORM and DG TAXUD.	2022-12-31	Technical Reports	N
																	3071933	11	EUROMOD Country report	Report providing a description of technical updates of EUROMOD model	2022-12-31	Technical Reports	N
																	3071934	12	EUROMOD baseline report	Report providing baseline simulations of the EUROMOD model	2022-12-31	Technical Reports	N
																	3071935	13	EUROMOD statistics on the Distribution and Decomposition of Disposable Income	Report providing a description of the distribution and decomposition of households´ disposable income in the EU	2022-12-31	Technical Reports	N
																	3071936	14	Policy Effect Tool indicators	Report providing results on tax and social policy effects on households´ disposable income	2022-12-31	Technical Reports	N
3. An Economy that Works for People	3.2 Fair and effective taxation	20441	TAX&SB REFORMS	Modelling the redistributive and fiscal impact of tax and social benefit reforms	JRC.B.2	30554	FISCALPOLICY	Support to Fiscal policy analysis	JRC B2 provides support to DG ECFIN for the analysis of tax reforms undertaken by the Member States, in particular in the context of the European Semester, and to carry out thematic studies of interest for DG ECFIN. JRC.B2 has developed unique expertise in the area of tax and social policy analysis, notably through the use, extension and internalisation of the EUROMOD model. The JRC collaborated closely on the use of the model with DG ECFIN since 2013. It has developed a close partnership with this DG, notably through the interaction of the EUROMOD model with the QUEST model developed by DG ECFIN. EUROMOD is used in different thematic areas of collaboration with DG ECFIN, including capital taxation, personal income taxation, indirect taxation, green taxation, and on the labour supply effect of taxation, among others. The assessment of tax and social policy reforms in the aftermath of the COVID-19 crisis will represent a key aspect of this collaboration in the coming months.	JRC.B.2	ECFIN	ECFIN	EMPL REFORM TAXUD	2018-01-01	2021-12-31	CON-AA	3072159	2	Indirect taxation modelling in the EU	On-demand EUROMOD ITT-based analysis (ongoing). Final Report on Indirect Tax Tool extension.	2021-12-31	Whole parts of policy documents	N
																	3072160	1	Yearly Overview table - summary of results	Assessing tax reforms and estimating their second round effects in the context of the European Semester and National Recovery and Resilience Plans	2021-12-31	Whole parts of policy documents	N
3. An Economy that Works for People	3.2 Fair and effective taxation	20441	TAX&SB REFORMS	Modelling the redistributive and fiscal impact of tax and social benefit reforms	JRC.B.2	30555	PENMOD	Analysis of pension taxation	The social and fiscal magnitude of pension systems makes them one of the most important areas of public policies. Pensions are the main source of income of older people in Europe, constituting over 80% of their disposable household income. Retired people drawing a pension are a significant and growing part of the European Union (EU) population (about 124 million or a quarter of the total), while public pension expenditure accounts for more than 11% of Member States' GDP. In the Political Guidelines for the next European Commission 2019-2024, President Ursula von der Leyen has committed to put forward an action plan to fully implement the European Pillar of Social Rights. Adequate pensions are at the core of principle 15 of the Pillar. The tax treatment of pensions is a key policy lever that policy-makers use to shape income re-distribution and incentivise pension saving. Pension contributions and pension benefits often enjoy specific exceptional tax rebate (e.g. tax allowances and tax credits), usually termed tax expenditures, with respect to a generally agreed benchmark tax systems. Pension tax expenditure is both an important factor affecting the distribution and adequacy of retirement incomes and an important component of public expenditure. At the same time, little is known regarding the redistributive impact of pension tax expenditures, especially from a cross-country/EU-wide perspective, largely due to the difficulties to quantify this impact in a comparative manner. The triennial Pension Adequacy Report (PAR) by DG EMPL and the Social Protection Committee	JRC.B.2	EMPL	EMPL	ECFIN	2020-02-10	2023-02-09	CON-AA	3025330	001	Final report covering work stream .	Analysis of the equity impact of pension tax expenditures	2020-06-30	Technical Reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3061734	deliverable2	Final report covering work stream	Incorporating a life-time perspective into the analysis of pension tax expenditures using EUROMOD	2022-12-31	Technical Reports	N
3. An Economy that Works for People	3.2 Fair and effective taxation	20441	TAX&SB REFORMS	Modelling the redistributive and fiscal impact of tax and social benefit reforms	JRC.B.2	30556	TAXFAIR NESS2	Fairness of tax and social benefit systems	JRC B2 has developed a close partnership with DG EMPL for the analysis of tax and social benefits reforms, notably in the context of the European Semester. The COVID-19 crisis will likely have a significant impact on household income and measures taken by the Member States, as well as policy proposals from the Commission, which will aim at ensuring a swift and equitable exit strategy. JRC.B2 will support DG EMPL for the assessment of the social impact of the pandemic and the assessment of the resilience and recovery plans and reforms carried out by the Member States in this context. JRC will also provide support to DG EMPL flagship proposals, notably for on the minimum wages, with extensive contribution on the impact assessment of this proposal. JRC.B2 will also provide support to forthcoming proposals on minimum income. JRC.B2 will also use the EUROMOD-hypothetical households tool to provide synthetic indicators on taxation and social protection.	JRC.B.2	EMPL	EMPL JRC	(blank)	2021-01-01	2023-01-31	CON-AA INS-RS	3071707	02	Assessment of various scenarios of minimum wage	Notes agreed between DG JRC and DG EMPL contributing to the impact assessment of the Commission proposal on minimum wages	2021-12-31	Whole parts of policy documents	N
																	3071708	03	Assessment of various scenarios of minimum income	Notes agreed between DG JRC and DG EMPL supporting Commission proposal on minimum income	2021-12-31	Whole parts of policy documents	N
																	3071709	04	Thematic contributions to DG EMPL reports and studies	Notes based on thematic contribution agreed between DG JRC and DG EMPL for possible inclusion in ESDE report	2021-12-31	Whole parts of policy documents	N
																	3071710	05	Indicators produced by the EUROMOD HHoT	Excel file or similar providing results based on the EUROMOD hypothetical household tool	2021-12-31	Whole parts of policy documents	N
																	3071711	01	Assessment of tax and social benefits reforms in the context of the European Semester and national recovery and resilience plans	Summary table of JRC simulations in support of the assessment of National Recovery and Resilience Plans and Country Report + In-depth analysis published.Contribution to the country reports in the context of the annual assessment cycle of Member States reforms under the European Semester and Recovery plans.	2021-12-31	Whole parts of policy documents	N
																	3071727	06	Assessment of tax and social benefits reforms in the context of the European Semester and national recovery and resilience plans	Summary table of JRC simulations in support of the assessment of National Recovery and Resilience Plans and Country Report + In-depth analysis published.Contribution to the country reports in the context of the annual assessment cycle of Member States reforms under the European Semester and Recovery plans.	2022-12-31	Whole parts of policy documents	N
																	3071728	07	Assessment of various scenarios of minimum wage	Notes agreed between DG JRC and DG EMPL contributing to the impact assessment of the Commission proposal on minimum wages	2022-12-31	Whole parts of policy documents	N
																	3071729	08	Assessment of various scenarios of minimum income	Notes agreed between DG JRC and DG EMPL supporting Commission proposal on minimum income	2022-12-31	Whole parts of policy documents	N
																	3071738	09	Notes based on thematic contribution agreed between DG JRC and DG EMPL for possible inclusion in ESDE report	Notes based on thematic contribution agreed between DG JRC and DG EMPL for possible inclusion in ESDE report	2022-12-31	Whole parts of policy documents	N
																	3071739	10	Indicators produced by the EUROMOD HHoT	Excel file or similar providing results based on the EUROMOD hypothetical household tool	2022-12-31	Whole parts of policy documents	N
3. An Economy that Works for People	3.2 Fair and effective taxation	20441	TAX&SB REFORMS	Modelling the redistributive and fiscal impact of tax and social benefit reforms	JRC.B.2	30558	FISCALTA 2	Technical support on tax and social reforms	JRC B2 has been expanding its technical support activity, in close partnership with DG REFORM. This activity started with support to Greece and Italy. New demands have emerged from Romania, Lithuania and Slovakia.	JRC.B.2	REFORM	REFORM	(blank)	2020-06-01	2022-12-31	CON-AA	3034344	RO	Report on activities for Romania	This report summarises all activities on technical assistance to Romania	2022-12-31	Training	N
																	3034345	SK	Report on activities for Slovakia	This report summarises all activities on technical assistance to Slovakia	2022-12-31	Training	N
																	3034346	LT	Report on activities for Lithuania	This report summarises all activities on technical assistance to Lithuania.	2022-12-31	Training	N
3. An Economy that Works for People	3.2 Fair and effective taxation	20441	TAX&SB REFORMS	Modelling the redistributive and fiscal impact of tax and social benefit reforms	JRC.B.2	30559	FISCALS UPPORT	Develop and extend tax and social benefit modelling	JRC develops its modelling capacity to support policy DGs in areas of common interest, most notably for consumption taxation and the update and development of the EUROMOD-JRC web interface. Policy DGs use the EUROMOD extensively although for different purposes. This project aims at pooling activities of common interest for partner DGs. EUROMOD is a static tax-benefit microsimulation model for the European Union that currently covers all EU Member States. EUROMOD enables researchers and policy analysts to simulate personal income tax, social insurance contributions or social benefit reforms and calculate the budgetary and personal income implications of those reforms, based on micro-data and existing national tax and benefit codes. The model allows for standardised analysis across EU countries´ tax and benefits systems. EUROMOD was managed, maintained, developed and updated by the Microsimulation Unit of the Institute for Social and Economic Research, based at the University of Essex and will by end 2020 be fully transferred to the JRC. EUROMOD is developed in collaboration with national experts who update the tax & benefit coding and provide reports on the tax and benefit system of each country, including validation of the model vs. national statistics.	JRC.B.2	ECFIN	REFORM JRC	EMPL REFORM TAXUD	2021-01-01	2022-12-31	CON-AA INS-RS	3028716	04	EUROMOD-JRC web interface	The EUROMOD-JRC web interface provides a user-friendly access to the EUROMOD microsimulation model. It is used by policy DGs to carry out simple simulations of the tax and social benefits system.	2021-12-31	Technical Reports	N
																	3028717	05	Indirect Tax tool extension of EUROMOD	Extension of the Indirect Tax tool completed for all EU countries	2022-12-31	Technical Reports	N

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																	3071036	02	FISCALATA D 1.2 : Mission Reports on supporting the Master Version Project , as well as the simulation of policy scenarios	Following each mission, a mission report will be submitted to SRSS three weeks after the completion of the mission at the latest. All the mission reports will be merged into a final report at the end of the project.	2021-05-31	Training	N
																	3071037	03	FISCALTA: D2.1 Report :"Creating build-in EUROMOD templates for statistic indicators"	JRC team of experts will develop new templates for statistical indicators. These templates should in minimum include: i.detailed aggregates for taxes, pensions, SSC & benefits, in terms of total cost, difference to baseline, total beneficiaries etc. ii.distributional effect statistics (like distribution of equivalized household income by decile, as well as the absolute and relative changes due to the reforms) iii.a variety of inequality and poverty indicators, including detailed break-up by age, gender, education, household type etc., both with fixed and floating poverty lines iv.number and percentage of winners and losers (individuals and households) of each reform per decile of disposable income v.number and percentage taxpayers/beneficiaries on user-selectable variables per decile of disposable income	2021-05-31	Sci information systems and databases	N
																	3071038	01	FISCALTA D1.1 : Technical report on Merging of the alternative spine running with administrative data with the standard EUROMOD SILC-based spine (Master Version Project)"	The deliverable will summarise all the efforts and endeavours provided by the JRC to carry out data building; updating and improving ; data checking and model adjustments; validation of the results of the ad in based model and planning of future updates.	2021-05-31	Sci information systems and databases	N
3. An Economy that Works for People	3.4 Social Europe and the Future of Work	20531	SOCEU	The Future of Social Europe	JRC.B.4	30645	FOWELF	The Future of the Welfare State in Europe	This project assesses the present, and envisions the future, of the Welfare State, with specific attention to the analysis of existing gaps in social protection systems, shapes and roles of institutions, the main driver of changes and the governance mechanisms that will be required. The project is motivated by the fact that, over the last two decades, European welfare states have faced challenges to adapt to the rise of new forms of work, population ageing, and growing inequalities stemming from intensified digitalisation and globalisation processes. These challenges and the resulting pressures, call for a rethinking of existing welfare systems with a view to making our social model future-proof, effective and inclusive, in a sustainable way. The project aims at opening up the debate on the future of welfare state in Europe, and how its functioning and role could be rethought in light of the ongoing economic, labour market, and societal transformations. This would help in identifying innovative trajectories outlining possible further research directions, and implications for European policies with an impact at national, regional and local level. The project will allow achieving the first objective of the project portfolio to which it belongs, i.e. providing a foresight exercise to envision possible scenarios for the future of the Welfare State and the role played within this frame by the principle of universality and social innovation initiatives. JRC has been working with external high-level experts on relevant topics, such as universality and how its progresses could be measured, and recalibration and modernisation of social protection systems via social investment approaches. These	JRC.B.4	EMPL	EMPL JRC	ECFIN GROW	2021-01-01	2022-12-31	CON-AA INS-RS	3027490	4	The Future of the Welfare State in Europe: Institutions, drivers of change and governance	This deliverable, one of the two project portfolio's, after an introductory and a methodological section, will gather the analyses and findings produced during the 2 years of activities and under the first three different streams of work. The report provides a foresight exercise to envision possible scenarios for the future of the Welfare State, and a conceptual framework to inform, design, and assess policy measures embodying reform attempts of social protection systems. Through a careful revisitation of the concept of universality, the report identifies key principles and policy compasses that could define the way in which the Welfare State can be made fit for the XXI century. Finally, the report, building on a broad overview of what social innovation is, its role and potential within the current socio-economic context, will show evidence on the different available policy trajectories that could lead to successful initiatives towards the future of welfare.	2022-12-31	Science for Policy reports	N
																	3081184	2	Universality in the Future of Welfare	This second deliverable will report the entire work done under the second stream of work, i.e., after an introductory section on the objectives and the starting point of the research, with a brief recall of the previous JRC Technical report, it will provide a detailed description of the adopted methodology and its justification; it will then report the findings from the study and the analyses, the discussion of the main results and a set of policy recommendations and possible future research directions.	2021-03-01	Technical Reports	N
																	3081185	3	Social Innovation in the Future of Welfare	This third deliverable will report the entire work done under the third stream of work, i.e., after an introductory section on the objectives and the starting point of the research, with a brief recall of both the previous JRC Technical report, it will provide a detailed description of the adopted methodology and its justification; it will then present the adopted approach in selecting the case studies; the report will proceed with the presentation of the case studies and the cross-case analysis, to conclude with the discussion of the main results and a set of policy recommendations and possible future research directions.	2022-10-01	Technical Reports	N
																	3081186	1	Scenarios for the Future of Welfare	This first deliverable will report the entire work done under the first stream of work, i.e., after an introductory section on the objectives and the starting point of the research, it will provide a detailed description of the adopted methodology and its justification; it will then report the findings from the work done, their discussion and the final set of scenarios of the future of welfare systems in the EU; the report will conclude with policy recommendations and possible future research directions.	2021-10-01	Technical Reports	N
																	3094737	5	Mapping progresses in access to social protection following the criteria set out in the monitoring framework of the Council recommendation (first wave)	Interim report that corresponds to the fourth stream of work and should include: * Update and improvement on formal coverage (compiling MS responses received by May 2021); * Contribution to the assessment of national plans; * Update, confidence intervals and sensitive analysis of performance indicators on effective coverage and adequacy; * First mapping for further research development.	2021-06-30	Technical Reports	N

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																	3094738	6	Pilot implementation of the draft analytical framework on the universality of social protection.	JRC analytical report that corresponds to the fifth stream of work, including results of the pilot implementation of the draft analytical framework for the selected Member States, and branches.	2021-12-31	Technical Reports	N
																	3094739	7	Refining the monitoring framework	Interim report (that corresponds to the fourth stream of work) including a proposal for refining the monitoring framework	2021-12-31	Technical Reports	N
																	3094740	8	Mapping progress in access to social protection following the criteria set out in the monitoring framework of the Council recommendation (second wave)	Interim report (which corresponds to the second wave of the work within the fourth stream of work) including: *update on formal coverage (compiling MS responses received in May 2022); *Update, confidence intervals and sensitive analysis of performance indicators on effective coverage and adequacy; * Results from further research development; *Updating and analysing context indicators; Updating and analysing policy levers	2022-06-30	Technical Reports	N
																	3094749	9	An analytical framework for monitoring the universality of social protection systems	JRC analytical report (that corresponds to the fifth work stream) presenting the analytical framework for monitoring the universality of social protection systems including a selection of available indicators along the three dimensions of universality and preliminary findings	2022-06-30	Technical Reports	N
																	3094750	10	Final report	Final report describing progress achieved in the last two work packages (fourth and fifth work streams) and relevant findings.	2022-12-31	Technical Reports	N
3. An Economy that Works for People	3.4 Social Europe and the Future of Work	20531	SOCEU	The Future of Social Europe	JRC.B.4	30646	FOSE	The Future of Social Economy in Europe	With the Com. A strong Social Europe for Just Transitions (14.01.2020), a European Action Plan for Social Economy has been announced by EMPL. This comes almost a decade after the European Social Business Initiatives (2011). The Action Plan is positioned within the European Commission new policy priorities, and it is an initiative that – over the last years – has been consistently requested by the social economy sector, the EU Parliament (and its Social Economy Intergroup), the Council of the EU and the EESC, among others. Social economy is recognised playing a crucial role in achieving an "economy that works for people" and a "Europe fit for the digital age". The European Action Plan for Social Economy (to enhance social investment and social innovation and boost the potential of social enterprises to create jobs) is an ambitious policy initiative that will directly contribute to the implementation of the European Pillar of Social Rights. In order to achieve its goals, the European Action Plan for Social Economy will need to be informed by evidence from the field of social economy, with a particular attention to be paid to current evolutionary trends affecting the nature, potential impacts and needs of its actors. The JRC is well positioned to address this policy need, for the following reasons: (1) the JRC, through previous research projects, has accumulated important knowledge in the field of social innovation and social investment, social entrepreneurship and social economy, also playing a reference role within the community of scholars and experts in the field; (2) the JRC can take a specific angle to approach the topic,	JRC.B.4	GROW	EMPL JRC	ECFIN EMPL	2021-01-01	2022-12-31	CON-AA INS-RS	3027735	1	A first look at the Future of Social Economy	This first deliverable will report the entire work done to achieve the first project's objective, i.e., the provision of a comprehensive narrative on the main evolutionary trends occurring in the field of social economy, how its role could be framed in light of these changes and the envisioned future of welfare. After an introductory section on the objectives and the starting point of the research, it will provide a detailed description of the adopted methodology and its justification; it will then report the findings from the work done, their discussion and the final set of scenarios of the future of social economy in the EU; the report will conclude with policy recommendations and possible future research directions.	2021-09-01	Technical Reports	N
																	3081137	2	Enablers and barriers to unleash the social innovation potential of social economy	This second deliverable will report the entire work done to achieve the second objective of the project, i.e., providing a clear and structured set of evidence on policy measures to make the social economy fully achieve its social innovation potential, along with additional knowledge needs that should be addressed and relevant monitoring tool to be shaped in the future. After an introductory section on the objectives and the starting point of the research, with a brief recall of the previous JRC Technical report, this report will provide a detailed description of the adopted methodology and its justification; it will then report the findings from the study and the analyses (case studies and cross-case analysis), the discussion of the main results and a set of policy recommendations and possible future research directions, including a proposal for a monitoring tool of MSs lev	2022-04-01	Technical Reports	N
																	3081138	3	Making sense of social economy from a policy maker perspective	This third deliverable will report the entire work done to achieve the third objective of the project, i.e., providing clear conceptual framework to understand different actors in the field of social economy and how a typology can be drafted in order to serve the policymaker. After an introductory section on the objectives and the starting point of the research, with a brief recall of both the previous JRC Technical reports, it will provide a detailed description of the adopted methodology and its justification; it will then present the main challenges policymakers face when designing policy initiatives oriented to support the social economy flourishing; based on the findings from the previous two JRC Technical reports and the participatory discussion of them with experts, scholars, and especially policymakers from relevant policy DGs, the report will go on with the proposal of a policymaker-tailored typology of those actors populating the social economy field.	2022-10-01	Technical Reports	N
																	3081139	4	The Future of Social Economy in Europe: Institutions, drivers of change and governance	The report provides a comprehensive narrative on the main evolutionary trends occurring in the field of social economy, how its role could be framed in light of these changes and the envisioned future of welfare. The report also includes a clear and structured set of evidence based and customised policy measures to make the social economy fully achieve its social innovation potential, along with additional knowledge needs that should be addressed and relevant monitoring tool to be shaped in the future. This report is a reviewed and consolidated output of the entire project on the future of social economy.	2022-12-31	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
3. An Economy that Works for People	3.4 Social Europe and the Future of Work	20533	FoW	The future of work	JRC.B.4	30641	FutureJobs	Jobs in the Future	The future of work offers many opportunities, but also significant challenges. The digital revolution, the automation of work processes and demographic change are having a profound impact on society and labour markets. A coherent strategy and policy approach is needed to avoid some potentially negative implications of disruptive technical and structural changes, and to ensure that digitalisation benefits the majority of the population, encourages further innovation and development, and helps address global challenges. With the proclamation of the European Pillar of Social Rights, the EU established 20 principles and rights essential for fair and well-functioning labour markets and welfare systems in the 21st century. To the aim of shedding light on the most pressuring challenges ahead of us, this agreement will concentrate on two main tasks: 1) Digital platform work and its policy implications; 2) Automation of work, with a focus on the service industry. In particular, the work carried out in this agreement is expected to provide input to the Commission's policy proposals that shall be developed during the period 2020-2021.	JRC.B.4	EMPL	EMPL	RTD	2020-01-01	2022-12-31	CON-AA	3031743	2	Conceptual paper on the impact of algorithmic management on work and employment	Presents the main characteristics of algorithmic management in digital labour platforms and provides examples of the management forms that could be implemented through the use of technological tools and techniques. The adoption of such techniques generates new challenges for workers' rights and job quality: 1) Surveillance and control: setting efficiency standard according to algorithmic rules that can generate speed and efficiency pressures and impede the use of personal discretion for some workers (i.e. estimated time for delivery for platform such as Foodora); 2) Transparency: power imbalances created by the asymmetry of information between platforms and workers (i.e. assignment of task and calculation of pay rates to Uber drivers or microworkers, de-activation of accounts, payment refusal..); 3) Bias and discrimination in the rating system and the way they are used by platforms and 4) Accountability in the rules under which a claim can be made from both consumers and workers.	2021-12-31	Science for Policy reports	N
																	3031744	1	Platform workers in Europe – COLLEEM 3 descriptive report	A descriptive report of the COLLEEM 3 survey findings.	2022-10-30	Science for Policy reports	N
																	3031912	3	A review of data sources on the automation of services - Service Robots: Review of Data and Applications	Robots are expected to transform the service sector. As automation has spread in manufacturing and extraction sectors, substituting humans in dangerous and repetitive manual tasks, now some experts predict a similar rollout of robots in more complex service occupations, suppressing further demand for human labour. However, some of the more worrying scenarios might be overstated, the result of extrapolating trends of technology that is still in the prototype stage. This report surveys the currently available data sources on the diffusion of service robots across the European Union, and comments on some of their leading applications. We refer to the definition of service robot codified by the International Organization for Standardisation, meaning mobile physical devices that perform useful tasks for humans, used in the service sector, as distinct from manufacturing or industrial applications.	2021-12-31	Science for Policy reports	N
																	3031913	4	Case studies on automation in services	This report will summarise the main findings from in-depth case studies aimed at understanding: a) How automation technologies change the economic process of service industries. b) The implications of these changes for work organization and job quality. c) The implications of these changes in terms of tasks, occupations and skill requirements. d) The drivers and barriers of automation of services in EU and potential future developments.	2022-06-30	Science for Policy reports	N
																	3032000	5	A conceptual framework on the impact of AI on employment, with a focus on services	This report will review previous conceptual work carried out by JRC B4 in the field of AI and task analysis, in the context of the already ongoing collaborations with EUROFOUND and CEDEFOP, and provide a theoretical framework to analysis the impact of technology on employment with a specific focus on services. The main aim of this report is to focus to provide a sound analytical basis the analysis of the impact of technology on employment at the level of tasks, skills and occupations.	2022-10-30	Science for Policy reports	N
3. An Economy that Works for People	3.4 Social Europe and the Future of Work	20533	FoW	The future of work	JRC.B.4	30642	FoW at Global Level	Future of Work at the Global Level	The project will assess various aspects of the changing nature of work and implications at global level, in collaboration with the International Labour Organisation. It will contribute to better and more actively shaping the future world of work in a global context, specifically by building a stronger knowledge base to understand and respond to the emerging labour market transformations, including those stemming from the covid-19 crisis.The project will be carried out by B7 and B4 in close coordination with EMPL and through an AA with the FPI. The project will build on the comprehensive long-term JRC research agenda on Future of Work topics, and will also rely on the JRC network of cooperation with other organisations such as Eurofound, Cedefop, EU-OSHA as well as, where appropriate, the OECD and the World Bank. The project has close connections with several Commission priorities, particularly "An economy that works for people" but also "A Europe fit for the digital age". In particular, it will provide novel evidence on the impact of technological progress and the covid-19 crisis on employment, new forms of work, job structures and labour market transitions, thereby supporting the implementation of the European Pillar of Social Rights and the Recovery Plan for Europe.	JRC.B.4	FPI	EMPL JRC	EMPL	2021-01-01	2022-12-31	CON-AA INS-RS	3009976	2	The effects of automation in the apparel and automotive sectors	The report will assess how processes of industrial automation (in particular those using digital technologies) interact with local social structures, cultural and institutional (including educational) systems in Europe and developing countries, in the context of global value chains. The anlusis will focus on two highly globally integrated sectors: automotive and apparel manufacturing, A crucial element of this report will be the specific focus on gender.	2022-11-30	Science for Policy reports	N
																	3009977	3	The impact of the crisis on labour market transitions	The report will identify emerging trends and most important transitions nowadays as a result of the coronavirus crisis and will analyse how workers are moving from one status to another, using as a benchmark the break in the activity during the first months of 2020.	2022-10-30	Science for Policy reports	N
																	3009978	4	Global shifts in employment structures	The report will:1) Update the analysis of employment shifts in a sample of EU countries, including recent trends covering the post-crisis scenario and, using a common theoretical and empirical framework, extend the analysis geographically across a number of non-EU countries. 2) Assess whether processes of convergence or divergence in the employment structure of EU vs. non-EU countries are taking place. 3) Assess the role of the various megatrends is driving convergence/divergence in the employment structure of EU countries vis-à-vis non-EU, and to what extent these transformations are interlinked.	2022-10-31	Science for Policy reports	N

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																	3009979	1	The platformisation of work	The report will analyse the impact of platform design features and algorithmic management on the workers engaged in specific sectors in terms of worker autonomy and flexibility, working conditions. It will also explore what public policies are required to address some of these challenges, and ensure greater transparency and fairness of the algorithms and technologies.	2022-10-31	Science for Policy reports	N
3. An Economy that Works for People	3.4 Social Europe and the Future of Work	20533	FoW	The future of work	JRC.B.4	30643	SkillsIntelligence	Skills Intelligence with CEDEFOP collaboration	Skills are at the heart of European policy. The New Skills Agenda for Europe states that skills are a pathway to employability and prosperity and a catalyst in the virtuous circle of job creation and growth. It proposes ten actions to make the right training, skills and support available to citizens so that Europe can face the challenges of global competition, skill-biased technological change and population ageing. The European Pillar of Social Rights gives an even broader role to skills by stating that they are important not only to manage successful transitions in the labour market, but also to participate fully in society. In terms of specific actions and initiatives, the Upskilling Pathways and the Key Competences for Lifelong Learning are building blocks of the Pillar and of the New Skills Agenda for Europe. They aim to help people, including adults with low skill levels, acquire the core set of skills necessary to work and live in the 21st century. The underlying assumption is that everyone has the right to quality and inclusive education, training and lifelong learning in order to maintain and acquire skills. Thus, the fundamental question for EU policy-oriented research in the area of skills is "how well do systems responsible for skills development (i.e. education and training) function in providing required skills and addressing skills mismatches, thus ensuring good labour market and social outcomes?". In this respect, it is essential to expand our capacity to monitor skill supply and demand in Europe, and the use of new sources such as online job vacancies provide promising possibilities. In these projects, we will explore and exploit some of these new possibilities by using online	JRC.B.4	EMPL	JRC	(blank)	2021-01-01	2022-12-31	INS-RS	3032033	2	The demand for AI skills: an approach using digital job vacancy data	An analysis of the demand of AI skills according to digital job vacancy data.	2021-12-31	Technical Reports	N
																	3032034	1	Digital job vacancies as a source of information on skills and tasks.	An analysis of the value and methodological problems of using digital job vacancy data for gathering information on skills and tasks, and a discussion of potential uses for skills monitoring in the EU.	2021-12-31	Technical Reports	N
3. An Economy that Works for People	3.4 Social Europe and the Future of Work	20533	FoW	The future of work	JRC.B.4	30644	TransSocial4JRC	Employment and Skills - Contribution to transversal projects	As a result of many challenges facing European society and economy, JRC has created multidisciplinary research project teams with the aim to deliver on transversal policy issues. This project consists of the contributions from the Employment and Skills area of B4 to different JRC transversal projects.	JRC.B.4	EMPL	JRC	(blank)	2021-01-01	2022-12-31	INS-RS	3064067	2	Analysis towards improving a CGE model based on micro-level household data	A final technical report will summarise the scientific results of the project including analysis of distributional implications of climate, energy and other policy measures on labour supply and demand. As part of the LabourLab exploratory project, B4 contribution will analyse recent employment data.	2021-12-31	Technical Reports	N
																	3064068	1	Digital technology impacts on employment and working conditions	A case study analysis of the impacts of Digital technologies such as Internet of things, 3D printing and Augmented/Virtual reality on the opportunities, risks and challenges for employment and working conditions. The results feed in to the work on the JPB project portfolio 20533 FoW. As part of the agreement for collaboration with EuroFound, this is a joint deliverable where we share the data collection, analysis and synthesis of the final report.	2021-06-30	Technical Reports	N
																	3094791	3	Teleworkability and skills demand	This study will be carried out jointly with CEDEFOP, and will discuss what kinds of skills are more frequently demanded for telework occupations.	2021-12-31	Science for Policy reports	N
																	3094792	4	Occupational and demographic change in Europe	This study will be carried out jointly with Eurofound, and will discuss the interaction between recent patterns of occupational change in Europe and demographic trends, with a special focus on gender and age	2021-06-30	Science for Policy reports	N
																	3094793	5	Surveillance and Monitoring in the digital age	This study will be carried out jointly with OSHA, and will develop a framework to analyse new forms of monitoring and new forms of management in the digital economy.	2021-12-31	Science for Policy reports	N
																	3094794	6	Telework, work organisation and job quality during the COVID crisis: a qualitative approach	This paper discusses how the European population coped with the COVID crisis on the basis of a set of qualitative interviews in three European countries, focusing on tasks and work organisation, job quality and work-life balance.	2021-05-11	Science for Policy reports	N
																	3094795	7	The impact of the COVID crisis on EU labour markets	This study will be carried out jointly with Eurofound, and will use the most recent LFS figures to discuss how the COVID crisis has affected European labour markets, focusing on the differential impact across sectors and occupations.	2021-07-31	Science for Policy reports	N

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3. An Economy that Works for People	3.4 Social Europe and the Future of Work	20541	MIDDLECLASS	Looking at the future of the middle class	JRC.B.1	30560	MCREPORT	Trends and challenges for the middle class in the EU	This project intends to provide the relevant general context, trends and threats for the evolution of the middle class in the EU and Member States. By studying past trends and determinants of middle class incomes and combining these with new survey evidence on how households have been coping with the COVID-19 crisis, it aims to inform about the direction of expected future changes to middle class households. Beyond providing evidence of the immediate impact of the COVID-19 crisis on the middle class, the project aims to study the changing prospects and the recovery potential of middle class households. As such, it relates to the Commission priority on an Economy that works for people (fair transition) and the Social Pillar. In more detail, the project looks into past dynamics of the middle income class, and explores alternative definitions of the middle class, based on lifestyle and income security, and the implied dynamics. It also assesses important features and heterogeneity of the middle class: wealth patterns, home ownership, access to education. Additionally, the project will analyse the COVID-19 crisis, yet another threat to middle income households coming from sudden loss in incomes, by studying household financial coping abilities in case of sudden job and income loss, changing gender roles, teleworking opportunities and the increase in the risk of falling into poverty. Moreover, the project will draw on evidence from the last crisis to give an outlook on the prospects of the middle class after COVID-19. The analyses and results will be published as scientific papers, a science for policy report and hence build the	JRC.B.1	EMPL	JRC	ECFIN JUST	2021-01-01	2022-12-15	INS-RS	3007872	MCREPORT	Trends and Challenges for the middle class in the EU	The report brings together the research conducted on middle class households in the EU and across its Member States. It will characterise the dynamics of the middle income class, before it takes new approaches to define the middle class. It will explore the patterns of the middle class (wealth patterns, life styles) and some of the biggest threats coming from changes in technology and the world of work, political discontent and housing affordability. It will also be devoted to understanding the impact of and recovery from the COVID-19 crisis and the coping strategies of middle-income households. The synthetised research output may feed into the foresight agenda as well.	2022-06-15	Science for Policy reports	N
3. An Economy that Works for People	3.4 Social Europe and the Future of Work	20541	MIDDLECLASS	Looking at the future of the middle class	JRC.B.1	30630	INEQABSPO	Income inequality and absolute poverty	The project provides evidence on income inequality and poverty, key final indicators of "An Economy that works for people". Activities on absolute poverty are encompassed within an Administrative Arrangement (AA) with DG EMPL. They produce a novel absolute indicator of poverty to supplement and contextualise the existing headline poverty measure, AROPE. Being implementable for all EU countries and covering the whole population, the indicator can help monitoring the effect of shocks such as the recent COVID-19 crisis. It will also be used as a basis for a novel, dynamic definition of the middle class and it can also feed into research on individual resilience and households' financial standing. Activities on income inequality are a continuation of former ones on EU-wide inequality, feeding into key JRC and DG EMPL publications. JRC B1, in particular, is well-placed to work on the field the project targets, due to relevant experience and strong thematic linkages to household finances.	JRC.B.1	EMPL	EMPL	ECFIN	2021-01-01	2022-12-31	CON-AA INS-RS	3007565	EMPL2021f	Final report for the ABSPO project	Series of studies on absolute poverty including: - Feasibility analysis regarding data collection, the results of the pilot data collection and the preliminary measurements. - Review of existing research and data, mapping of existing methodologies and data collections available to measure absolute poverty. - Comparisons with traditional material deprivation indicators, all data and programming codes, methodological guidance regarding data collection and absolute poverty measurement and possible recommendations on the use of new measures in future SDG monitoring.	2021-10-31	Technical Reports	N
																	3007660	ABSPOdyn	Report on the dynamics of absolute poverty	The report builds on the results of the ABSPO project. It takes the developed poverty concept and looks at its dynamics in selected EU countries. Interim results can contribute to the development of a novel characterisation of the middle class as well as feed into research on households' financial standing and resilience. Results can contribute to the ex-post evaluation of the effect of the COVID-19 crisis on poverty dynamics.	2022-12-16	Technical Reports	N
3. An Economy that Works for People	3.4 Social Europe and the Future of Work	20541	MIDDLECLASS	Looking at the future of the middle class	JRC.B.1	30631	EU-RES	Determinants of societal resilience in the EU	Since 2016, JRC B1, in collaboration with Professor Giovannini, has carried out extensive work on putting forward resilience as a key concept for policy making. The first step was to establish a conceptual framework to create a common understanding of the concept and paving the way for a measurement and monitoring tool. In addition, it also offered a powerful new narrative for EU policies. The second step was to test a measurement framework, working on a proof of concept, using the financial crisis as a shock. Building on this experience, this project aims to provide evidence on the coping ability of specific groups and households to a series of shocks and structural changes. In particular, it will investigate how certain groups of interests, such as the least educated people, single mothers, the middle class or young people, will react to economic, psychological or health-related shocks. The analysis will look at both individual/household coping strategies, and contextual factors that play a role in triggering a resilient behaviour. This project will connect to the Hybrid threats project. Furthermore, the project responds to the policy need of creating a stronger social Europe, one that is able to face changes, challenges, current and future distress. The EU recognised the need to move towards a more sustainable development, including climate neutrality, and an economy that works for people, as well as to master the digital transformation of our societies. These structural changes will affect the life of many individuals	JRC.B.1	EMPL	JRC	ECFIN JUST	2021-01-01	2022-12-31	INS-RS	3007338	01	Determinants of social resilience in the EU	The deliverable of this project will be based on several Science for Policy briefs. It will look at various angles and synthetise multiple research streams in order to provide a comprehensive perspective of resilience within specific groups, as well as in the overall society in the EU.	2022-12-31	Science for Policy reports	N

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3. An Economy that Works for People	3.5 Territorial policy and cohesion	20443	URBAN OBS	Urban observatory on the future of cities and urban strategies	JRC.B.3	30470	URBADEV 2	Support knowledge management of EU measures for Integrated Urban and Territorial development – Phase 2	This project builds upon the experience gained during the Administrative Agreement REGIO.03-JRC.B.3 URBADEV (2017CE160AT057), completed in December 2019, and benefits from tools and practices implemented in the frame of the EC Knowledge Centre for Territorial Policies (KC TP). The aim of URBADEV 2 is to further enrich develop and disseminate knowledge and methodological support on the urban and territorial dimension of the Cohesion Policy, and more in detail on the place-based, integrated and strategic approach to urban and territorial development, as it will be supported in the 2021-27 programming period. A further aim of URBADEV 2 concerns the support to policy-makers and stakeholders for the development design and implementation of urban and territorial strategies and for scaling-up of successful solutions. As such, the project is in line with all the three strands of the future European Urban Initiative, especially capacity building (through peer-reviews and handbook) and the knowledge strand (through generating data on the ERDF Cohesion Policy financed territorial and urban strategies). By supporting territorial development that is economically sound, socially fair and environmentally sustainable, we are aligned both with the objectives of the Just transition Fund and with the Commission strategic umbrella of the European Green Deal.	JRC.B.3	REGIO	REGIO	CLIMA ENV INTPA SG	2021-01-01	2023-12-31	CON-AA	3015299	ADEV2202	Self-assessment tool and Methodological guidance for integrated urban and territorial strategies	Self-assessment tool and Methodological guidance for integrated urban and territorial strategies	2021-08-31	Whole parts of policy documents	N
3. An Economy that Works for People	3.5 Territorial policy and cohesion	20443	URBAN OBS	Urban observatory on the future of cities and urban strategies	JRC.B.3	30471	UDP Plus	Urban Data Platform Plus	The main purpose of this project is to enrich the existing Urban Data Platform with new functionalities for the visualisation, analysis and collection of indicators at various levels of aggregation. The Urban Data Platform (now referred to as 'UDPPlus') is operated in the context of the REGIO/JRC Knowledge Centre for Territorial Policies. In the frame of the current close collaboration, REGIO and JRC are investing on the implementation of a data-hub for the generation, visualisation and distribution of data and indicators, not limited to the urban aggregation. The Urban Data Platform is continuously enriched with new functionalities and data since its first public release in October 2016.	JRC.B.3	REGIO	REGIO	CLIMA CNECT ECFIN ESTAT INTPA SG	2021-01-01	2023-12-31	CON-AA	3015064	PPlus2022	Release UDPPlus.2022.1	Autumn release UDPPlus.2022.1	2022-10-31	Sci information systems and databases	N
																	3015065	PPlus2021	Release UDPPlus.2021.1	Autumn release UDPPlus.2021.1	2021-10-31	Sci information systems and databases	N
3. An Economy that Works for People	3.5 Territorial policy and cohesion	20443	URBAN OBS	Urban observatory on the future of cities and urban strategies	JRC.B.3	30473	CiTOWN	Housing Stock, Affordability and Ownership	After the global financial crisis, housing prices have recovered throughout the EU, however, with considerable regional differences. This raised concern over housing affordability, particularly for the lower and middle classes, whereas average earnings increased at a much slower pace. While the global financial crisis significantly reduced new housing constructions - in particular those defined 'social' - investors (private and institutional, national and foreign) have been increasingly active in residential housing, stimulated by the gross initial yields in key markets. Also, a general boom in tourism - before COVID-19 - changed urban housing markets, whereby properties entered the more profitable short-term rental market, driving up prices for long-term rentals. Following, spiralling prices in major EU cities are mostly scarcity driven, based on strong internal and external demand and low supply. Especially first time buyers are being priced out of the market, while lower- and middle-income earners are put in a tight spot, becoming more and more confined to expensive (private sector) rentals. Moreover, the lack of affordable housing has increased the risk of housing exclusion. Local studies show significant increases in the number of homeless people, whereby in some cases the profile of the homelessness are also changing, observing more young people and families with children (FEANTSA, 2017). It appears housing in major EU cities is increasingly used as a commodity, rather than a basic social good. Housing is among the first four priority topics selected	JRC.B.3	REGIO	JRC	ECFIN EMPL HOME	2021-01-01	2023-12-31	INS-RS	3035083	TOWN2021	Indicators on building Stock and New Data Sources on Housing	Identification of new emerging data sources for the evaluation of housing conditions and building stock. Data Published on the Urban data Platform Plus.	2021-11-30	Technical Reports	N
																	3043306	TOWN2022	Socio-economic consequence of Housing availability and affordability in EU Cities	Housing availability and housing affordability in EU EU cities are analysed within wider territorial contexts, including socio-economic, geographic an environmental indicators.	2022-10-28	Science for Policy Briefs	N

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3. An Economy that Works for People	3.5 Territorial policy and cohesion	20443	URBAN OBS	Urban observatory on the future of cities and urban strategies	JRC.B.3	30474	FutOfCities	Future of cities and urban foresight	The importance of cities in contributing towards a sustainable way of living for all is widely acknowledged and highlighted in the global and European policy debate (e.g.: New Urban Agenda, UN 2016, and the Urban Agenda for the EU, EC 2016). In particular, the Sustainable Development Goals explicitly call for making cities and human settlements inclusive, safe, resilient and sustainable. The role of cities towards the overall achievement of the Green Deal is therefore undoubted. The path however is not straightforward. Today, European cities and their inhabitants are facing an increasing and multifaceted number of intercon-nected challenges such as growing migrant populations, the spread of infectious diseases and inappropriate healthcare, economic and compounding inequalities, climate change, congestion and pollution, safety and cyber-attacks.This project has as main aim to foster discussion of these issues faced within the research and policy community and to highlight potential ways to address these issues within cities that could be scaled up. Through the experience accumulated in the Community of Practice on Cities (CoP-CITIES) and the production of the Future of Cities Report, this project will contribute to answer strategic questions in collaboration with other EC services and institutions as well as cities' networks and associations. The project also tackles issues related to urban development in the World, either by looking at global	JRC.B.3	REGIO	JRC JRC	CLIMA CNECT ENER ENV HOME	2021-01-01	2023-12-31	INS-ER INS-RS	3016340	OfCities202	Future of Cities Release 2021	Update and release of short policy briefs on the Future of Cities Report	2021-07-01	Science for Policy reports	N
																	3016365	OfCities202	Future of Cities Release 2022	Future of Cities Release 2022	2022-12-15	Science for Policy reports	N
																	3022140	OfCities202	International migrants in Functional Urban Areas.	International migrants in Functional Urban Areas. How strategies of sustainable urban development can foster the integration of migrants?	2021-11-30	Science for Policy reports	N
3. An Economy that Works for People	3.5 Territorial policy and cohesion	20443	URBAN OBS	Urban observatory on the future of cities and urban strategies	JRC.B.3	30476	CoP-CITIES	Community of Practice-CITIES	The Community of Practice-CITIES (CoP-CITIES) is an initiative of the Commission (led by the JRC and supported by DG REGIO) that kick-started on 5 October 2018. It is open to external stakeholders such as cities and networks of cities, international and intergovernmental organisations and research bodies. The overall aim of the CoP-CITIES is knowledge management on urban issues to (1) support and strengthen European policies related to cities, and (2) discuss potential future challenges and opportunities for cities. In doing so, it brings the expertise and on-going research activities of the JRC and DG REGIO closer to the global community active on urban issues. The first tangible result of the Community of Practice on Cities is the flagship report on the Future of Cities. It has been a truly collaborative effort, benefitting greatly from the collective intelligence of CoP members. The report includes a description and initial interpretation of emerging urban phenomena, highlighting the possibilities that innovative research methodologies and a multi-disciplinary approach can offer to the study of future cities and to the design of sustainable integrated policies supporting urban transformation. The Future of Cities report was released at the Informal Meeting of EU Ministers Responsible for Urban Matters in June 2019 in Bucharest, Romania, presented to Members of the European Parliament in October 2019 in Brussels, and discussed in several events and seminars. This project further enhances the features already exploited in the first two years of activity of the CoP-CITIES, and promotes specific initiatives devoted to	JRC.B.3	REGIO	JRC	CLIMA CNECT GROW RTD SG	2021-01-01	2023-12-31	INS-RS	3015257	CITIES202	Community of Practice on Cities - Annual Conference	The Annual Conference discusses achievements, new projects and ideas of common interest btween the stakeholders of the Community of Practice on Cities-	2021-05-20	Science for Policy Briefs	N
																	3041454	CITIES202	Community of Practice on Cities - Annual Conference 2022	The Annual Conference discusses achievements, new projects and ideas of common interest btween the stakeholders of the Community of Practice on Cities-	2022-04-15	Science for Policy Briefs	N
3. An Economy that Works for People	3.5 Territorial policy and cohesion	20443	URBAN OBS	Urban observatory on the future of cities and urban strategies	JRC.B.3	30477	CITINNOVA	Cities and innovation	Cities have always been associated with transformative ideas and novel social initiatives. Cities and urban regions are not just mere containers for innovative activities but are actively involved in the generation of new ideas, new organisational forms and new enterprises. The high level of provision of education, services and leisure activities, combined with a high population density and the very high frequency of interactions notably found in cities, favour technological and social innovation, entrepreneurship and creativity. Moreover, the digital transformation of society with increasing use of both digital platforms and infrastructures require new management approaches, tools and skills for urban governance. The adoption of Open Data platforms, with the due regard to data transparency and management, further contributes to reach the ultimate goal of improving cities and citizens' quality of life. Most of the challenges our societies face today are exacerbated within urban areas; at the same time that triggers the generation of greater innovation, which in turns can lead to overcome these same challenges. Lately, it has become evident the role of innovative solutions based on new services and data platforms that cities put into place to face COVID-19 related challenges. For these reasons, cities' innovation is a vehicle to promote a sustainable development, and meet the Sustainable Development Goals established at global	JRC.B.3	REGIO	REGIO JRC	CNECT GROW RTD	2021-01-01	2023-12-31	CON-AA INS-RS	3015038	NNOVA202	Workshop: Scaling up Innovative solutions for Cities	Frames in the Community of Practice on Cities, this workshop is the first of a series of capacity -building workshops to support the spread and scaling up of innovative solutions supported by EU policies	2021-10-29	Training	N

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																	3034377	NNOVA202	Innovative solutions for sustainable urban development	Workshop on the Identifcation and testing of innovative solutions for sustainable urban development	2022-11-03	Science for Policy Briefs	N
																	3043475	NNOVA202	Cities as innovators. Exploring the articulation between integrated urban development and smart specialisation framing innovation-led strategies at local level	Report based on: i. case studies of cities who implemented local strategies as urban-led innovation policy in the framework of the EU Cohesion Policy, ii. analysis of imapct of innovation districts within urban areas.	2021-12-15	Science for Policy Briefs	N
3. An Economy that Works for People	3.5 Territorial policy and cohesion	20633	EU PLACES	Places of the EU: territorial data, analysis and modelling - fostering cohesion and fairness	JRC.B.3	30448	KC TP	Knowledge Centre for Territorial Policies	The Knowledge Centre for Territorial Policies (KC TP) aims to change the way knowledge for territorial policies is shared and used to increase its impact and improve its efficiency. It achieves it by better integrating and coordinating the supply and demand for knowledge. It provides one-stop access to data, policy analysis, interactive tools and methods for policy makers, scientists and other stakeholders via an IT platform and a clearing house for policy questions. The KC TP is jointly managed and steered by the JRC and DG REGIO. The focus of KC TP in 2021-22 is two-fold: 1. Support the assessment of the status of economic, social and territorial cohesion of the EU by providing knowledge and tools for the elaboration of the 8TH Cohesion Report 2. Support the preparation and implementation of EU programmes 2021-2027 and related Commission priorities, providing evidence and facts on new raisining issues, such as those posed by the COVID-19 and economic crises. Because of its modular and scalable architecture, the KC TP - in collaboration with REGIO - provides the necessary flexibility to re-direct and re-tune existing activities towards new priorities. The KC TP is furthermore gaining policy relevance also beyond Cohesion policy.	JRC.B.3	REGIO	REGIO REGIO JRC	CNECT ECFIN EMPL ENER ESTAT GROW INTPA MOVE NEAR REFORM SG	2021-01-01	2023-12-31	CON-AA CON-AA INS-RS	3012567	:CTP20210	ARDECO Autumn Edition	ARDECO is the Annual Regional Database of the European Commission's Directorate General for Regional and Urban Policy, maintained and updated by the Joint Research Centre. The database contains a set of long time-series indicators for EU regions, as well as for regions in some EFTA and candidate countries, at various statistical scales (NUTS1, NUTS2 and NUTS3). ARDECO is updated twice a year, following the release of Directorate General ECFIN's short term economic forecasts in the Spring and in the Autumn	2021-11-19	Sci information systems and databases	N
																	3012568	:CTP20210	ARDECO Spring edition	ARDECO is the Annual Regional Database of the European Commission's Directorate General for Regional and Urban Policy, maintained and updated by the Joint Research Centre. The database contains a set of long time-series indicators for EU regions, as well as for regions in some EFTA and candidate countries, at various statistical scales (NUTS1, NUTS2 and NUTS3). ARDECO is updated twice a year, following the release of Directorate General ECFIN's short term economic forecasts in the Spring and in the Autumn.	2021-06-01	Sci information systems and databases	N
3. An Economy that Works for People	3.5 Territorial policy and cohesion	20633	EU PLACES	Places of the EU: territorial data, analysis and modelling - fostering cohesion and fairness	JRC.B.3	30462	LUISA	Application of the LUISA Modelling Platform to Cohesion and Investment Policies	LUISA is a modelling platform developed by the EC-JRC to support territorial impact assessment of policies which have direct or indirect spatial implications, such as regional policy, transport, environment, energy. It is a pilar of the Knowledge Centre for Territorial Policies and interacts with the Knowledge Centre for Demography and Migration.LUISA allows investigating and understanding territorial dynamics in a wider continental dimension, while considering local and regional driving forces. Given its highly flexible and customisable structure, LUISA has the ability to integrate under a unique modelling framework the territorial capital factors that influence the spatial patterns of socio-economic activities and population distribution at different scales. LUISA is therefore a well-suited tool for impact assessment of a wide range of policies with a territorial dimension, including their potential synergies, conflicts and trade-offs. Since 2011, LUISA has been applied in several policy domains, to assess the territorial impact of EU Initiatives. LUISA provide essential analytical inputs to the evaluation of territorial cohesion in the EU. It is currently being applied also in Africa in the frame of the EU-AU partnership. LUISA ensures sufficient flexibility to study also new EU policy priorities.	JRC.B.3	REGIO	JRC	CLIMA ECFIN ESTAT INTPA MOVE SG	2021-01-01	2023-12-31	INS-RS	3014918	UISA20210	8th Cohesion Report (inputs)	Socio-economic and territorial cohesion of the EU	2021-10-31	Whole parts of policy documents	N
																	3014919	UISA20210	Territorial Reference Scenario 2020	Territorial Reference Scenario 2020 with the mos updated socio-economic projections Include age-classes breakdown	2021-03-31	Sci information systems and databases	N

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3. An Economy that Works for People	3.5 Territorial policy and cohesion	20633	EU PLACES	Places of the EU: territorial data, analysis and modelling - fostering cohesion and fairness	JRC.B.3	30469	LOWDENTER	Low density development and territorial strategies	The overall aim of this project is to provide elements for a better understanding of the status of territorial cohesion in the EU. It analyzes geography-related disparities and territorial specificities looking at an ensemble of quantitative parameters (e.g.: demographic trends, infrastructural deployment, availability and access to basic services, remoteness ..) and qualitative assessments (e.g. Territorial strategies and financing instruments) Unlike other geographical or political categories, namely mountains, islands, coastal, less favoured areas, etc. low-density development areas do not correspond to a formal EU-wide category since the issue goes further than just localising a few people per land unit. The long distances between and from very small settlements and their low levels of socioeconomic performances limit the potentiality and functionality of the their population. This produces territorial inequalities and unbalances. The project directly contributes to the Long-Term Vision on Rural Areas. Combining the new Degree of Urbanisation, recently adopted by the UN Statistical Division under proposal from the EC, with the high-resolution thematic layers produced by the LUISA Territorial Modelling Platform, the assessment of low-density developments is now possible. Contrary to dense urban clusters, the low-density development areas are considered less efficient in resource use in terms of higher driving times, building infrastructures, food, goods, service distribution systems, etc. , increasing land-take consumption, natural resource degradation, farmland decline, among	JRC.B.3	REGIO	JRC	AGRI CNECT ENV	2021-01-01	2023-12-31	INS-RS	3014856	/DENSE20;	From lonely places to places of opportunities	Characterisation of European locations and connections against territorial, social and demographic disparities, focusing on the new concept of 'lonely places'. A JRC flagship report and collections of policy-briefs. Contribution to Long-Term Vision for Rural Areas.	2021-12-31	Sci information systems and databases	N
																	3035881	/DENSE20;	Access and efficiency of essential services	Input to long-term vision for rural areas and to the 8th Cohesion Report, including on the effects of demographic change on connectivity and access to services Access and efficiency of essential services. Includes a joint report with OECD.	2022-10-29	Sci information systems and databases	N
3. An Economy that Works for People	3.5 Territorial policy and cohesion	20888	GHSL	Global Human Settlement Layer	JRC.E.1	30768	GHSL Evolution	Global Human Settlement Layer Data Evolution	The project will build on the success of the precursor projects of the Global Human Settlement Layer (GHSL) in the past in delivering policy relevant information on the presence of humans on the planet, and their societal activities. The project includes an institutional component and the Administrative Arrangements (AA) Global DegUrba and Pop Trends with DG REGIO. On the institutional side, GHSL Evolution will continue to deliver such information with a focus on updating and improving the time series. It will address two major limitations of the current GHSL data:the lack of information on building height and volume as well as the absence of information on the usage of buildings. Both are essential for a better distribution of residential population in the population maps of GHSL. Therefore, the focus will be on the estimation of the built-up volume (the height of buildings) from free and open data sources. The differentiation of residential from commercial/industrial areas will be based on AI methods developed by the AI4GHSL project. In addition, new models to improve the population estimation will be developed. These models can be used to back- and forecast population growth. This will require a close collaboration with the Center for International Earth Science Information (CIESIN) as well as with the UN Population Division. Both, the work on built-up areas and the population modeling will lead to the production of scientific papers. The focus of the work financed by the Global DegUrba AA is on the implementation of the method to delineate cities, urban and rural areas adopted by the UN Statistcal Commission and based on GHSL data and	JRC.E.1	REGIO	JRC REGIO REGIO JRC	DEFIS ECHO ESTAT INTPA RTD	2021-01-01	2023-12-31	CON-AA CON-AA CON-AA INS-RS	3011249	GHSL2020	GHSL data package 2020	The GHSL data package 2020 provides a major update of the GHSL data. The built-up area information will, for the first time, be based on data from the Copernicus Sentinel-2 satellite that allow an improvement of the spatial resolution from 30 m to 10m. This will allow a better delineation of settlements in rural settings as well as in dense urban areas. Also the population maps will be based on better population modes. The time-series of the data package will be extended to 1975-2020 with regular intervals. The analysis of the new data will lead to new policy insights that will be described in the Atlas of the Human Planet, the main deliverable for the year 2022.	2021-06-30	Sci information systems and databases	N
																	3011251	DegUrbaRe	First Annual Progress Report AA Global DegUrba	This report summarises the activities performed in the second year of the AA Global DegUrba with DG REGIO.	2021-09-30	Technical Reports	N
																	3011515	CNN2021	Developing Convolutional Neural Networks for Earth Observation Data Analysis	This technical report describes the advances in the application of Convolutional Neural Networks for Earth Observation data analysis primarily focussing on the extraction of information on settlements and buildings.	2021-10-31	Technical Reports	N
																	3011516	SML2021	Symbolic Machine Learning for Earth Observation Data Analysis	The technical report summarises the improvements of the Symbolic Machine Learning (SML) algorithm and provides applications examples. The SML method was developed by the JRC and is a very efficient EO-data classification method, if full coverage of training data is available. This was demonstrated in the first GHSL data releases. The improvements described here will focus on the one hand on the algorithm implementation and on the other hand on the applications. A special focus will be given to the Copernicus context, where the application on the cloud-based Data and Information Access Services (DIAS) will be taken into account.	2021-10-31	Technical Reports	N
																	3013011	DegUrbaRe	Second annual progress report for the AA Global DegUrba	The report summarises the work and achievement of the third year of the AA Global DegUrba with DG REGIO.	2022-09-30	Technical Reports	N
																	3013012	Atlas2022	Atlas of the Human Planet 2022	The Atlas of the Human Planet 2022 will present the findings of the analysis of the new GHSL data package that was released in 2021. It is also a deliverable to the Human Planet Initiative of the Group on Earth Observation (GEO).	2022-11-30	Science for Policy reports	N
																	3024552	I4GHSL202	Assessing human-centric AI approaches for operational mapping of human settlements	This technical report assesses the two strains of AI development developed by the JRC for the global mapping of human settlements. It will compare approaches and results, identify gaps and propose solutions taking into account the operational needs of the Copernicus services.	2022-10-31	Technical Reports	N

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																	3109276	GHSL4DIAS	GHSL Land Cover Service	The technical report summarises the results of the JRC Proof-of-Concept project GHS-LC-SERV (GHSL Land Cover SERVice). The project assesses the possibility of using Copernicus Sentinel data archives and cloud computing resources offered by the Data and Information Access Services (DIAS) to produce on-demand and up-to-date maps of human settlements. The main innovations in GHS-LC_SERV lie in the i) implementation of a novel in-house developed machine learning algorithm, the Multitemporal Symbolic Machine Learning (Multitemporal SML), tailored for the exploitation of the Sentinel-2 data cube, ii) the development of a dedicated API on the WASDI platform for easy-to-use and cost-effective way to generate land cover maps from Sentinel-2 data using the Multitemporal SML.	2022-04-30	Technical Reports	N
3. An Economy that Works for People	3.5 Territorial policy and cohesion	22243	TOURISM	Tourism	JRC.B.3	30767	TOURISM	Tourism and places: from shock to recovery	International tourism has been growing in the recent years globally, fuelled by overall economic growth, and supported by new business models in the travel and accommodation sectors that have made tourism both more accessible and affordable. In 2018, Europe was the main global tourist destination, accounting for more than 50% of all total international tourist arrivals (UN World Tourism Organisation, UNWTO). According to estimates by the World Tourism and Travel Council (WTTC), the total contribution (direct, indirect and induced) of the travel and tourism sector to the European GDP and employment in 2018 was nearly 10%,and more than 20% in some southern European countries. The substantial growth of tourism has led to increasing concerns over its impacts on, for instance, the local housing markets, the authenticity of places, but also on the environmental sustainability. The outbreak of the COVID-19 pandemic in early 2020 quickly disrupted the booming tourism sector, which is one of the hardest-hit by the measures adopted by countries to contain the spread of the disease such as travel bans, social distancing and halting of various economic activities (UNWTO). The pandemic could result in global international tourist arrivals declining by likely more than 50% (WTTC), down from an estimated growth of 3-4% forecast in early January. While there is uncertainty concerning the magnitude and duration of the impact, it is already evident that certain regions in EU countries will be impacted more severely than others. Such asymmetrical tourism impacts may cause further territorial imbalances across the EU, calling for	JRC.B.3	GROW	JRC	ECFIN REGIO	2021-01-01	2023-12-31	CON-AA INS-RS	3014694	URISM202	recovery strategies for re-building more sustainable and resilient tourism	Recovery strategies for re-building more sustainable and resilient tourism	2022-12-15	Whole parts of policy documents	N
																	3014695	URISM202	Territorial knowledge base of tourism in Europe (updated baseline)	Territorial knowledge base of tourism in Europe: Improve and update the spatiotemporal tourism database, factoring seasonality, flows and tourism typologies at regional scale	2021-12-15	Sci information systems and databases	N
3. An Economy that Works for People	3.5 Territorial policy and cohesion	22243	TOURISM	Tourism	JRC.B.3	31261	Reopen EU	Reopen EU	The European Union, and all of its member states, are planning for a safe re-opening of Europe. While protecting the public health remains our priority, we want everyone to enjoy their holidays, to reunite with family and friends, and to be able to travel for any purpose. This interactive tool provides you with the information that you need to confidently plan your European travel and holidays, while staying healthy and safe. The information is frequently updated and available in 24 languages for your convenience.	JRC.B.3	GROW	GROW JRC	CNECT COLLÈGE COMM SG	2021-01-01	2022-12-31	CON-AA INS-RS	3086663	WebApp	Website with a map combining real-time information related to tourism	Europeans are likely to choose domestic and European tourism destinations this summer and during the following months. To be sure that they can safely travel and spend their holidays, they will need easy access to real-time information on the situation on borders, travel restrictions, travel advice, public health and safety measures, where to go in case of health issues, available tourism services. The Commission will set up a dedicated website with an interactive map combining information from Member States and tourist and travel industry.	2021-01-01	Technical systems	N
4. A Stronger Europe in the World	4.1 Globalisation of the world economy	20176	FFTA	Free Fair Trade Agreements	JRC.D.4	30321	AgriTrade	Agriculture, trade and the global economy	AgriTrade assesses the impacts of agricultural, climate and trade policies on the EU and global agricultural market. The assessments are based on comprehensive databases, advanced economic modelling tools (mainly Computable General Equilibrium models - CGE) and statistical methods, supporting in particular the main customer DG AGRI (also financed via administrative arrangement, see WPK3349). General equilibrium models link all economic sectors, allowing to connect different priorities on Agriculture, Natural Resources, Energy, Environment, Climate Change, Circular Economy and Development. Within the project databases and tools of the agro-economic platform iMAP (mainly the GTAP database, the MAGNET and DEMETRA models and multipliers techniques) are updated, further developed and used. AgriTrade focuses on several issues related to agriculture and food sectors. In particular, the project analyses shocks on agricultural trade (free trade agreements, bans, world price change) and its possible impacts on jobs and growth in the EU. The project models the impacts of EU policies (mainly trade and agricultural) on third countries, with specific focus on policy impacts on economic growth, land use, food security, nutritional aspects and competitiveness towards the EU. AgriTrade also supports the development and improvement of databases (DataM) and visualisation tools (QlikSense) to render data and model results easy to analyse for researchers and more accessible for policy-making and the public. The deliverables of the AgriTrade project will anticipate and support on a yearly basis also the modelling and database needs related to	JRC.D.4	AGRI	RTD JRC	INTPA TRADE	2021-01-01	2022-12-31	CON-IA INS-RS	3035715	303212	Jobs&growth in the agri-food chain and bioeconomy	Using the in-house developed BioSAM database, structural patterns in disaggregated agrifood and biobased sectors on MS level are analysed wrt jobs & growth opportunities. Multiplier analysis (backward and forward linkages) techniques give an easily understandable input on the role of agrifood and bioeconomy in the EU. Employment multipliers (new jobs generated per million € of additional output/export value) ascertain employment effects from increases in output/exports within agri-food sectors.	2021-12-31	Technical Reports	N
																	3035716	303211	Model and database maintenance and development	To anticipate the needs related to the iMAP and TS4FNS, this deliverable will keep the CGE models currently used within the AAs under constant maintenance, keeping the database up to date, updating and improving the parameters used in the models. In addition, base don the most advanced literature and in cooperation with relevant external experts, this deliverable will focus on the gaps existing in currently used CGE models and try to fill them adopting the most advanced modelling techniques.	2022-12-31	Technical Reports	N

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																	3077256	2	Fully-fledged Plan for Exploitation and Dissemination of the Results (PEDR)	Fully-fledged Plan for Exploitation and Dissemination of the Results (PEDR) for the project. -The PEDR will further define for each of the project's outputs: the impacted area, the potential users, the dissemination strategy, the potential use, and the timing	2021-01-31	Technical Reports	N
4. A Stronger Europe in the World	4.1 Globalisation of the world economy	20176	FFTA	Free Fair Trade Agreements	JRC.D.4	30322	Trade4RM	Trade along raw materials supply chains	Trade is more and more essential in defining the space at the intersection of economic and social interests, whether we speak about policy making, environmental and social values or growth and jobs creation. The WTO's role and performance is questioned in the recent global competition for power and the intrinsic value added that free trade brought to economies everywhere is put aside in front of growing regional or group interests. The EU values associated to fairness and free trade are among the priorities that EU put forwards in its initiative to become stronger in the world by promoting cooperation and win-win solutions to conflicts. Supporting with science-based evidence, with analyses of existing knowledge base and with foresight and modelling the forging of trade policies of EU is one of the challenges for JRC and this project is proposing a few activities to achieve this goal. Securing the supply of raw materials is essential in building a strong industry and economy, as more and more innovative technologies are using scarce or critical raw materials. Monitoring the geographical mapping of trade along raw materials supply chains and analysing aspects of the markets for the products along these suplly chains could help EU policy makers in being better informed on the real needs of EU companies and consumers when opening to international trade.	JRC.D.3	TRADE	JRC	EEAS ENV GROW INTPA	2021-01-01	2022-12-31	INS-RS	3031477	202101	Country fiches on trade with raw materials	Deliverable will cover data and information on trade aspects with raw materials (fuels,biotic - wood for materials, rubber - and abiotic - minerals, metals), including exports, imports, trade barriers and market indicators, which are gathered and porcessed in a consistent and standard manner for several countries outside EU who are important trade partners of EU in this area of traded goods (raw materials). The country fiches will be developed according to the template agreed with DG TRADE and for a set of country that are in the first target group of EU for on-going or foreseen FTA negotiations (MERCOSUR countries, selected African and South East Assian, etc.). The production of these fiches will go on over the entire period of the project and is expected to continue beyond 2022. The Trade Country fiches will be uploaded and stored in a section of the EC RMIS (Raw Materials Information System) and their access will be supported by a sepcialised customer-friendly application.	2022-12-19	Technical Reports	N
																	3084345	202201	Early warning tool for trade with base metals	The tool will present the evolution over the latest 24 months of global or EU trade flows (imports and exports) of selected categories of second stage production categories in the supply chains of base metals. It will also refer to recent trade barriers imposed globally for those product categories and will allow for future-oriented and foresight analyses.Could be implemented as tool within the EC/JRC Raw Materials Information System. The early warning tool will be useful in analysing possible trends in the evolution of trade as consequence of trade barriers imposed by third countries or in following the impacts of a sudden economic downturn (support to a Recovery action).	2022-06-30	Sci information systems and databases	N
4. A Stronger Europe in the World	4.1 Globalisation of the world economy	20463	TAX-AVOIDANCE	Assessing global corporate tax avoidance	JRC.B.2	30557	FISCALMODELLING	Tax avoidance and profit shifting	JRC B2 and DG TAXUD have developed close partnership for the analysis of corporate taxation, in particular in the context of the fight against tax avoidance practices by large multinationals. JRC B2 has actively contributed to the impact assessment of the Common Consolidated Corporate Tax Base (CCCTB) proposal and digital taxation. This cooperation has further expanded towards the analysis of wealth taxation and the future of taxation systems. DG TAXUD requested support from JRC B2 to build a corporate tax microsimulation model.	JRC.B.2	TAXUD	TAXUD	(blank)	2018-01-01	2021-12-21	CON-AA	3025455	001	Final report on extending the corporate microsimulation model to other Member States	This deliverable will investigate the feasibility of extending the corporate microsimulation model to consider all EU countries.	2021-12-31	Technical Reports	N
																	3025501	002	Final deliverable on the future of taxation	JRC and DG TAXUD will assess the impact of long-term structural change on the level and structure of taxation.	2021-12-31	Technical Reports	N
																	3092110	1090828	Feasibility report for extending corporate microsimulation model to other Member States	The corporate microsimulation model will be tested for countries other than Italy. This deliverable will assess the feasibility of such extension.	2021-07-01	Technical Reports	N
4. A Stronger Europe in the World	4.1 Globalisation of the world economy	20463	TAX-AVOIDANCE	Assessing global corporate tax avoidance	JRC.B.2	30787	FISCALMOD 2	Modelling the resilience and fairness of tax systems by fighting tax fraud and tax avoidance	This project will further develop fiscal modelling tools (including the CORTAX model) to analyse the fiscal and fairness impact of tax fraud and tax avoidance. The work package will be structured along several research questions. It will develop analytical tools to analyse tax wedges, developing alternative indicators to assess tax wedges along the wage distribution. It will also build on JRC.B.2 expertise in modelling corporate tax reforms through the CORTAX model which was used for the impact assessment of the Common Consolidated Corporate Tax Base (CCCTB) in 2016. The model will be extended to analyse anti-abuse measures to reduce corporate tax avoidance and the taxation of digital sector. The project will also develop a corporate microsimulation model.	JRC.B.2	TAXUD	TAXUD	(blank)	2022-01-01	2024-12-31	CON-AA	3084918	01	Support to the fight against Corporate tax avoidance	B2 will provide input to underpin DG TAXUD's analysis on corporate tax avoidance. This input will be provided against the backdrop of high political priority for updating international tax rules. Analysis and policy simulations will be conducted based on DG TAXUD requests. The analysis will be guided by policy developments and evolution in business models	2022-12-31	Technical Reports	N

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4. A Stronger Europe in the World	4.2 External Action	20392	EDM	External Dimension of Migration	JRC.E.6	30442	CLICIM	Climate Induced Migration	The Commission is in the process of articulating a cohesive narrative on the European Green Deal, including active advocacy at the global level. As a leading humanitarian and development donor, the EU is financing assistance to cover the immediate needs of displaced persons and supporting adaptation by developing local capacities for preparedness and early action in response to increased risks. To support both the external dimension of European Green Deal and Climate Adaptation Development aid it is necessary to avail of more reliable quantitative estimates on the expected impacts of climate change on displacement, international migration and trapped populations and these estimates should be as far as possible context and geographically specific. While there is considerable amount literature studying the empirical relations between climate change and migration for specific case studies, the attempts conducted so far to quantify the phenomenon at world level remain highly contested and estimates of environmental migrants are fluctuating by orders of magnitude. Policies are confronted with debates ranging from a maximalist and alarmist perspective of a mass exodus to minimalist perspectives discrediting any relevance of climate-induced migrations and climate change-change itself, given the lack of hard evidence. Taking stock of the most recent literature and international initiatives aimed at quantifying climate change-induced migration at world level, the main objective of the project is to quantify and map at high spatial resolution population exposed to climate change	JRC.E.6	INTPA	JRC	CLIMA ECHO HOME JRC NEAR SG	2021-01-01	2022-12-31	INS-RS	3024563	2	Climate change induced migration	The report will present the maps and demographic estimates of population exposed to climate change impact and environmental degradation, focusing on Africa. It will also look at the relationship between climate change and migration.	2021-12-31	Science for Policy reports	N
																	3024564	1	Climate change induced migration	Science for policy report presenting the maps and demographic estimates of population exposed to climate change impact and environmental degradation.	2021-02-28	Science for Policy reports	N
																	3099792	3	Population, development and environment	Considering more in general the relations, at global scale, between environment, development and demography.	2022-12-31	Science for Policy reports	N
4. A Stronger Europe in the World	4.2 External Action	20392	EDM	External Dimension of Migration	JRC.E.6	30443	MYD	Migration, Youth and Development	Migration and development are central to the external dimension of migration, and have been since the Global Approach on Migration and Mobility (SEC(2011) 1353 final). Today, they are especially significant for Commission priorities 4. A Stronger Europe in the World (particularly the migration pillar of the Strategy with Africa) and 5. Promoting Our European Way of Life (particularly the external dimension of migration under Migration and asylum), the European Consensus on Development (2017/C 210/01) and the 2030 Agenda for Sustainable Development (SDG 10.7). But the Covid-19 pandemic has raised new questions and challenges, particularly relating to current and future migration trends, employment opportunities, the capacity of migrants to send remittances and the implications for sustainable development. In this context, the research examines two dimensions of the migration-development nexus: 1. Youth: In 2019 there were an estimated 1.8 billion people around the world between 15 and 29 years of age. In Africa in particular the youth population has more than doubled since 1990 and is predicted to double again by 2060. In 2017 the African Union-European Union Summit was titled 'Investing in Youth' and young people tend to wish to migrate more than old citizens. But in European and international organisations there is no shared definition of 'youth' or knowledge-base on how Africa's youth population will shape migration trends and drivers.	JRC.E.6	INTPA	JRC	EAC EEAS ESTAT HOME NEAR RTD SG	2021-01-01	2022-12-31	INS-RS	3015578	YouMig	Youth migration and development	A workshop to present project findings and engage with other projects from international organisations, specifically 1. International Organization for Migration 2. OECD Development Centre 3. World Bank's KNOMAD working group on youth, migration and development The workshop will build bridges between the evidence from these initiatives and relevant Commission services (specifically DGs DEVCO and NEAR) and EEAS.	2021-12-20	Training	N
																	3053206	3015578	Drivers of youth migration	This report will examine the factors which drive young people to migrate internationally, taking a global perspective before focusing on regional dynamics in Africa and the EU. Demographic structures in the global South, and particularly in Africa, have repeatedly been described as leading to inevitable and massive increases in migration to Europe in the future, as large youth populations enter adulthood with high aspirations and insufficient opportunities in their places of origin. This report shines light on the extent to which this is the case and in doing so provides knowledge for policymaking on international migration and development with a youth lens.	2022-05-01	Science for Policy reports	N
																	3088167	Del3	Migration intentions in Africa	The report will explore and analyse the intentions (desire, plan and preparation) to migrate in Africa in terms of main reasons and desired destination. It will also look on implication COVID 19 might have on these intentions in the region. The study will be based on information coming from the latest wave of Afrobarometer public opinion survey. The study will be produced by the JRC.	2022-03-31	Technical Reports	N
																	3088219	Del4	Leveraging Remittances for Productive Investments	The report aims to understand how remittances can be leveraged for development by enabling them to be used for productive investments. The study provides an evidence-base to support EU initiatives promoting the positive impact of remittances on development and ensuring remittances contribute to the recovery from the COVID-19 at the global level (e.g. the UN Remittances Community Task Force, G20) and locally (e.g. in specific countries).	2021-06-21	Technical Reports	N

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4. A Stronger Europe in the World	4.2 External Action	20392	EDM	External Dimension of Migration	JRC.E.6	30444	PKMA	Partnerships for Knowledge on Migration in Africa	International migration has always been and continues to be an important phenomenon shaping societies in Africa and Europe as well as the relationship between the continents. Cooperation in scientific knowledge production and sharing can further stimulate the Africa - EU partnership. There are two important issues, which need to be addressed for ensuring successful implementation of policies targeting development and migration management: •the disconnect between the scientific community and decision-makers in Africa •the difficulties in making use of the existing local knowledge (either not always readily available or hard to keep up-to-date) It is desirable and feasible for local knowledge in Africa and local participation to play a more important role to shape national policies in Africa and ensure a more successful implementation of policies that target development and migration management. African nations need to develop their research potential with a longer-term view and in their best interest. The African Union (AU) has recently been working towards establishing Africa Union Migration Observatories (AMOs) in Mali, Morocco and Sudan and has urged the stakeholders at national, regional and continental levels to join efforts to ensure greater synergy in their work. AU and EU further confirmed the intention to direct their efforts towards the establishment and operationalization of these observatories. The JRC has the relevant expertise and reputation, leveraging on the work done in the frame of the EC Knowledge Centre on Migration and Demography and	JRC.E.6	INTPA	JRC	ECHO EEAS HOME NEAR SG	2021-01-01	2022-12-31	INS-RS	3021641	KC1	Migration intentions in Africa	The report will explore and analyse the intentions (desire, plan and preparation) to migrate in Africa in terms of main reasons and desired destination. It will also look on implication COVID 19 might have on these intentions in the region. The study will be based on information coming from the latest wave of Afrobarometer public opinion survey. The study will be produced by the JRC.	2021-12-15	Technical Reports	N
																	3021658	KC2	Migration knowledge production and use for policy making in Africa	Migration knowledge production and use for policymaking in Africa The report will provide an overview of migration knowledge production and use in Africa. First, it will present the analysis of the existing scientific research using Scopus and JRC developed TIM Analytics tool (allows to identify, analyse and visualise relevant research institutions and scientific networks). Second, it will describe the database of research centres, scholars and experts working in the fields of migration in Africa (created through a dedicated survey), the relevant data sources, key studies and research activities. Finally, it will provide the synthesis of in-depth interviews with leading African scholars in the field of migration and demography. It will explore the possibility to integrate the collected knowledge in the KCMD Knowledge Portal for its better use it in the framework of the project. The study will be produced by the JRC. Contributions by African scholars are foreseen.	2022-12-15	Technical Reports	N
																	3021659	KC3	Training	Training on knowledge management in collaboration and/or devoted to African partners.	2021-12-01	Training	N
																	3082063	KC4	Workshop	Organising thematic workshop(s) among African scholars, experts and policymakers to introduce the “Community of Practice” format successfully adopted by the EC’s KCMD in migration and demography context.	2022-12-15	Training	N
																	3082073	KC5	Remittances in Africa	The report will explore and analyse the role of international remittances in African countries based on information coming from the World Bank, Afrobarometer and Arab Barometer public opinion surveys. The study will also look at remittances to African countries in the context of the COVID 19 crisis as it is predicted to have a major impact on global remittance flows. The study will be produced by the JRC.	2022-12-01	Technical Reports	N
4. A Stronger Europe in the World	4.3 International cooperation and development	20155	Biodiversity & ES	Towards reverted biodiversity loss & healthy ecosystems	JRC.D.6	30840	BIOPAMA 2	Biodiversity and Protected Areas Management, Phase 2	-Biodiversity and Protected Areas Management - Addressing the challenges of a sound knowledge base for decisions on biodiversity, protected areas and development by providing an authoritative Reference Information System (RIS),developed at JRC and with instances within mandated regional Institutions as part of the BIOPAMA Regional Observatories, covering the 79 countries of the ACP (Africa, Caribbean, Pacific) Partnership. Part of the overall BIOPAMA 2 project, funded by the European Development Fund (EDF 11) and administered by DG DEVCO on behalf of the ACP Secretariat. Implemented in partnership with IUCN, who lead the capacity building part of the project. As a follow-on from BIOPAMA, this project will further develop and reinforce the RIS and the existing regional observatories, as well as building new Observatories, and taking the information platform of BIOPAMA to a level where it is directly supporting local, national and regional decision making. The work directly supports the EU Biodiversity for Life Flagship Initiative, national agencies and the UN Convention on Biological Diversity (CBD) in their activities to help developing countries to manage biological resources in a sustainable way, including support to development of DOPA. BIOPAMA 2 is in line with the EU Agenda for Change, the EU Biodiversity Strategy 2020 and contributes directly to at least 4 Sustainable Development Goals and three RIO principles. Included under the portfolio Africa due to the geographic emphasis on the Africa, Caribbean, Pacific (ACP) group of states and the link to the policy priority “Stronger Europe in the World”, including the development agenda objectives linked to the Green	JRC.D.6	INTPA	INTPA	ENV	2021-01-01	2023-06-09	CON-AA	3024437	1	Annual Report 2021	Annual activity report 2021	2022-02-28	Technical Reports	N
																	3025110	2	Annual Report 2022	Annual Activity Report 2022	2023-02-28	Technical Reports	N

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																	3025140	3	BIOPAMA Regional Reference Information Systems	A set of regional instances (nodes) of the BIOPAMA Reference Information System, based on a common technology platform, but reflecting the specific geographic context and thematic priorities of each region, namely: Pacific Islands Protected Area Porta,l Caribbean Gateway, ESARO Regional Resource Hub/ Southern African Development Community Trans-Frontier Conservation Area Portal, Central Africa Forest Observatory / Central African Protected Areas Network Portal, West Africa Protected Areas Portal Development is done locally, coordinated and managed by JRC via a set of regional contracts, with JRC also ensuring the overall architecture and linkages of systems and information	2022-12-31	Sci information systems and databases	N
																	3025234	4	BIOPAMA Reference Information System and ACP PA Database	A set of IT tools supporting EU policies on biodiversity and development cooperation, specifically linked to protected areas and key conservation landscapes across the 79 ACP countries. Primarily web based, allowing mapping, query, analysis, storytelling, dashboards based on data, indicators and trends on themes maintained in a reference database including: Site location, geometry and basic geographic characteristics Key conservation management and policy targets, and progress towards them Key landscape features Socio-economic context Ecosystem Services Pressure and threats Management effectiveness and governance Species occurrence and diversity This deliverable includes links to indicators and metrics on PAs deriving from the Digital Observatory of Protected Areas (DOPA)	2022-12-31	Sci information systems and databases	N
																	3025316	5	State of Protected and Conserved Areas Reports	A set of regional reports, to be delivered during the course of 2021, showing the status and trends of protected and conserved areas. Overall coordination is at regional level, but JRC makes an active contribution and leads chapters in these reports on data and information, management effectiveness, world heritage and other key themes. These will be complemented by a set of digital narratives and dashboards, and JRC will produce 1 report covering a summary of the PAs across all 79 ACP countries.	2021-12-31	External study reports	N
																	3049926	6	Management Effectiveness and Governance Assessments	Testing, development and enhancement of the IMET (Integrated Management Effectiveness Toolkit), and the analysis and visualisation of the results of the on-site assessments through the BIOPAMA RIS, presented as a JRC Technical Report	2021-12-31	Technical Reports	N
																	3049927	7	Training Materials on Data and Evidence Based PA designation, management and reporting	Suite of training materials, especially online, linked to BIOPAMA objectives for improved gathering and use of robust data for PA management and assessment, including the tools developed by JRC for the BIOPAMA Reference Information System	2022-12-31	Training	N
4. A Stronger Europe in the World	4.3 International cooperation and development	20174	Copernicus 2.0	Scientific and Technical Support to the Copernicus Programme and it's Evolution	JRC.D.6	30625	GMES&Africa	GMES&Africa	The D.6 Unit of JRC has been involved from the very beginning in the process launched by the EC in the late '90ies to support Africa in the use of Earth Observation Technologies for sustainable development. Upon demand of DEV and AIDCO services (now DEVCO), the JRC was particularly active in the conception and the implementation of the PUMA (started in 2000), AMESD (2005) and MESA (2012) projects. The implementation of the "GMES&Africa Action Plan" is now concretely starting, with this 1st "Pan-African GMES&Africa project" which is the natural evolution of the 18 years' PUMA-AMESD-MESA process, now to be extended also to the Northern Africa countries. The focus of the Project will be on Sustainable Management of Natural and Water resources, on Coastal and Marine resource. The follow-up is carried out in support to and in close coordination with DEVCO, GROW, the EU Delegations in Africa and EUMETSAT. Beyond providing the necessary advice and technical support to the EU services and to ensure capacity building for all the beneficiaries, the JRC will support all the technical activities of the project. Moreover, as the JRC has developed an operational and distributable open-source data processing tool for Earth Observation products, the so-called 'eStation', which was installed on the AMESD receiving stations in all Sub-Saharan African countries, in the period 2010/2011. Based on the feedback collected from the Users during the AMESD project, the application evolved into a mature and more flexible system distributed in the course of MESA. The entire system of reception, processing and	JRC.D.6	INTPA	INTPA	DEFIS	2017-01-01	2022-12-31	CON-AA	3023739	2	Training at Regional level	Training activities, to be carried out by the JRC both in Europe (Ispra and other location according to the needs) and in Africa, will focus on the use of the eStation and the use of low and medium resolution satellite data managed by the system. On aspects related to other data than those indicated above and other informatic systems than the eStation (for instance high resolution data for forest inventories), the JRC is willing to provide support.	2021-06-30	Training	N
																	3023740	1	eStation 2.0 evolution	The « Environmental Station » (eStation) is a tool conceived by the JRC in the frame of the AMESD and MESA projects. Its role is to process automatically the data disseminated through the EUMETCast broadcasting system in order to assist the thematic expert in monitoring the environment and in the writing of their reports. Within GMES&Africa it will be maintained and further developed, for including the EO products made available from Sentinel constellation.	2021-06-30	Sci information systems and databases	N

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4. A Stronger Europe in the World	4.3 International cooperation and development	20187	FoodSec	Food and Nutrition Security and Sustainable Food Systems	JRC.D.5	30491	KC-FNS	Knowledge Centre for Global Food and Nutrition Security	In line with the Communication C(2016) 6626 on Data, Information and Knowledge Management at the European Commission, the "Knowledge Centre for Global Food and Nutrition Security" (KC-FNS) was launched on 28 November 2018 in Brussels in the presence of three EU Commissioners. It was established to support the EU global commitment to end hunger, achieve food security and improved nutrition through a dedicated, reinforced science-policy interface and a fostered inter-policy dialogue. Thanks to a reinforced partnership between EU services, it facilitates access to and exchange of existing knowledge within the Commission, the European External Action Service and beyond, contributing thereof to EU policy coherence and the realisation of the Farm to Fork international dimension. It helps through its cross cutting inter-DGs Steering mechanism identify areas of specific priority within the food and nutrition security field and focus on dedicated knowledge collection or creation. It builds on international partnerships, networks and fora with the view to reinforce the rules based global order, support the AU-EU High Level Dialogue and the EU Comprehensive Strategy on Africa. The worsening of the food security situation at international level – with the overall number of undernourished people on the rise again since 2014, and the Covid19 crisis, extreme weather events and locust infestations making the situation even bleaker, are stressing the importance and urgency of the action for global food security and fighting malnutrition. The KC offers a single access to the Commission	JRC.D.5	INTPA	JRC	AGRI CLIMA ECHO ENV MARE NEAR RTD SANTE TRADE	2021-01-01	2027-12-31	INS-RS	3029567	2	Knowledge synthesis on food and nutrition security	Synthesised knowledge to reach out to policy DGs and the KC users at large. Products will be developed such as scientific/knowledge briefs to provide state-of-the-art synthesised information on KC thematic priorities, infographics and video to present key figures and issues in a attractive and concise manner, pilot newsletter to communicate the most important information and knowledge in food and nutrition security.	2021-12-31	Science for Policy Briefs	N
																	3029568	1	Food and nutrition security knowledge platform	Continuous development, maintenance and update of a Commission web-based information and knowledge portal. The portal aims at gathering, facilitating access and sharing of information and knowledge existing in various Commission services and beyond under a single, easily reachable entry point. The information and knowledge is organised under the form of specific thematic sub-sections and classified under news, events, publications and on-line resources categories. Each existing section will be constantly updated and quality checked, with regular screening of news, events, publications and resources to be uploaded on the KC web portal, the section on sustainable food systems will be organised and populated and new sections created as needed, information management instruments, glossaries, EMM specific alerts will be developed, active participation to K4P platform and JRC KC Task Force meetings will be ensured.	2021-12-31	Sci information systems and databases	N
																	3083040	3	KC scientific reports and events on Mycotoxins and Agroecology	Scientific developments and events in priority themes for the Farm to Fork Strategy international dimension and the Comprehensive Strategy for Africa such as food safety/mycotoxins and food security and Agroecology. The themes involve several DGs in a Team Europe approach. DG SANTE leads on mycotoxins. Outputs on mycotoxins include the results of the scientific cooperation with SANTE and the networks Mycokey and Mytox-South such as the report of the Scientific survey on mycotoxins and food and nutrition security in Africa and organisation of a JRC-Africa scientific workshop (in Africa tbc). Outputs on Agroecology include the European Development Days roundtable on Agroecology and the results of the Agroecology study on agroecological practices and knowledge gaps in developing countries.	2021-12-31	Technical Reports	N
4. A Stronger Europe in the World	4.3 International cooperation and development	20187	FoodSec	Food and Nutrition Security and Sustainable Food Systems	JRC.D.5	30492	MARS-FS2	MARS Food Security and Food Systems	Information about global agricultural production anomalies is crucial for providing timely information to decision makers about food shortages to come, and to support their decisions regarding early response measures. A global digital information system like ASAP (Anomaly hotSpots of Agricultural Production) enables the EU to have a stronger and more visible role in global agricultural monitoring networks (e.g. GEOGLAM), as well as in the dialogue with the main global players in Food Security monitoring (e.g FAO GIEWS, WFP, FEWSNET). Both the agricultural monitoring and the research about food systems sustainability in developing countries will support joint food security policy initiatives such as the Global Network on Food Crises, operational projects such as TS4FNS5 and the Knowledge Centre for Food and Nutrition Security as well as the JRC Africa Knowledge Platform. With its strong research component the project completes ideally the role of the Food and Nutrition Security and Sustainable Food Systems portfolio to make available innovative information products to the ECs Food Security and Humanitarian aid policies.	JRC.D.5	INTPA	JRC	AGRI ECHO EEAS SANTE	2021-01-01	2027-12-31	INS-RS	3028696	1	Timely agricultural online early warning information and contributions to GEOGLAM Crop Monitor for Early Warning (CM4EW)	12 monthly updates of agricultural production anomaly hotspots for 80 countries with high risk of food security and contributions to the monthly GEOGLAM Crop Monitor for Early Warning reports based on the anomaly hotspots analysis. Up to 6 special focus reports on extreme events such as droughts and floods published on the ASAP website in addition to the monthly updates.	2021-12-31	Technical Reports	N
																	3029352	D2	Scientific publications about improved methodologies for food security and food systems monitoring	Scientific publications will focus on the following main topics: improved use of Earth Observation for crop monitoring, use of machine learning methods vs. state of the art methods for yield forecasting, food systems assessment and monitoring and modelling of post harvest losses and mycotoxins impact in Africa.	2021-12-31	Journal contributions (Clarivate)	N

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4. A Stronger Europe in the World	4.3 International cooperation and development	20187	FoodSec	Food and Nutrition Security and Sustainable Food Systems	JRC.D.5	30493	TS4FNS5	Technical and scientific support to Food and Nutrition Security and Food Systems	Through the TS4FNS-5 project the JRC will provide technical support to DEVCO and to EU Delegations and make available scientific evidence in support of project conception and implementation in the areas of sustainable agriculture, food systems and food security policy impact modelling. The project aims at continuing to support DG DEVCO in the management and further development of the Global Network on Food Crises. Specific areas of technical support build on the JRC expertise in mapping and monitoring of Land/Landscape management based on Earth Observation and on the policy analysis & impact modelling capacity (including the PANAP network). Other themes include scientific support and networking for thematic areas closely linked with the Green Deal and the Farm to Fork strategy international dimension, such as food systems sustainability assessment and agroecology. The multi-sectorial approach of the project builds on a close collaboration among JRC Units D2, D3, D4, D5 and D6, which will help better understanding and assessing food systems and will be in direct alignment with work of the JRC Africa task force. With the geographic scope centered on Subsaharan Africa and the thematic contents linked to the Green Deal, many project outputs are also feeding into the Comprehensive Strategy for Africa. The work done by the project is in close alignment with the strategic directions set by the Knowledge Centre for Global Food and Nutrition Security Steering Committee.	JRC.D.5	INTPA	INTPA	(blank)	2021-01-01	2027-12-31	CON-AA	3029935	2	Yearly PANAP Conference / D.4 deliverable	Meeting of the Pan African Network on the economic Analysis of Policies (PANAP), co-organized by the JRC, AUC-DREA, and FARA. Outcomes of major ongoing PANAP activities are shared via researchers' presentations and knowledge sharing / training sessions. Relevant African policy makers from Country level and Multilateral Organizations take part in view of fostering the dialogue with researchers and use outcome of research in the policy making process.	2021-11-30	Technical Reports	N
																	3029936	3	Research papers and technical reports about support to DESIRA related thematic areas including: agri-food systems assessment, value chain and life cycle analysis, technical support to DESIRA projects,	This includes scientific papers, guideline documents and reports related to project activities 3.5, 3.6, 3.7 and 3.8 according to the TS4FNS5 contract.	2021-12-31	Technical Reports	N
																	3029937	4	Guideline for environmental sustainability and biodiversity impact assessment for the agro-food system / D.3 deliverable	This synthesis of three main lines of research: 1. improvement and integration of product environmental footprint related methodological aspects in the value chain for agricolture assessment; 2. development of a method for biodiversity impact assessment of agricoltural supply chain integrating top down and bottom up modelling and information, with a specific case study on cocoa supply chain; 3. capacity building and technical support to enlarging life cycle inventory data in developing countries	2021-12-31	Technical Reports	N
																	3029938	1	Contributions to the preparation of the Global Report on food crises and its updates and side products	JRC contributions to the drafting team of the Global Report on Food Crises main report and mid-year update. Studies, analyses and reports targeting specific contents of the Global Report on Food Crises. This includes scientific publications for example on nutrition indicators	2021-12-31	Technical Reports	N
4. A Stronger Europe in the World	4.3 International cooperation and development	20187	FoodSec	Food and Nutrition Security and Sustainable Food Systems	JRC.D.5	30494	AGRODEV - PANAP	Analysing Agriculture for Developing Countries - PANAP	Agro-Dev - PANAP analyses the impact of policies measures and programs (in Partner Countries as well as EU cooperation policies/programs) on the farming-food sectors, on food security and poverty in Developing Countries, namely African economies, in cooperation with relevant African multilateral organizations, namely AUC-DREA (African Union Department of Rural Economies and Agriculture), FARA (Forum for Agricultural Research in Africa) and other sub-regional and Partner Country levels organizations. Agro-Dev PANAP is conceived as a support and/or anticipation of (competitive) activities for DG DEVCO (TS4FNS administrative arrangements) in the EC Policy Coherence framework; accordingly other DGs needs are inner part of the Agro-Dev PANAP focus. Effects of policy measures whose impact is assessed range from international, regional, country, local and farm/household levels. Agro-Dev – PANAP complements the economic component of the TS4FNS project in which the JRC provide technical support to DEVCO and to EU Delegations and make available scientific evidence in support of project conception and implementation in the areas of sustainable agriculture, food systems and food security policy impact modelling. It represents a crucial complement to the AA TS4FNS since under Agro-Dev PANAP are run the most science-intensive based components, e.g. methodologies update and development. AGRO-DEV activities are part of the JRC Knowledge Centre on FNS. Since July 2019 JRC (Economic) Policy Impact Analysis	JRC.D.4	INTPA	INTPA JRC	AGRI	2021-01-01	2027-12-31	CON-AA INS-UR	3081652	1	Policy Impact Analysis at the micro (farm-household) level	Report / Scientific Journal article aiming to analyse potential Effects of relevant policy options on ag-food producers (farm-households) and rural areas in selected Sub-Saharan Countries / Sub Regions. Advanced Modelling tools and quantitative approaches, including the Farming System Simulator for Developing Economies (FSSIM-DEV) will be utilized.	2022-12-01	Science for Policy reports	N
																	3081705	2	Policy Impact Analysis at the macro level	Report / Scientific Journal article aiming to analyse potential effects of relevant policy options on major ag-food aggregate indicators (Agriculture GDP, Investment, Saving, etc.) at the country/sub-regional/continental level in relevant Sub-Saharan economies.	2022-12-01	Science for Policy reports	N

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4. A Stronger Europe in the World	4.3 International cooperation and development	20190	Africa Platform	Africa Platform	JRC.D.6	30624	EU-SEDI	European Union Global Socio Economic Data and Indicators	The new Commission's priority 5: A Stronger Europe in the World, seeks to create a partnership of equals with neighbours and partners, with the EU being the biggest donor in the world, Particular emphasis is laid on the Comprehensive Strategy with Africa. The EU must make the most of the political, economic and investment opportunities that a fast growing continent Africa will bring in terms of business collaboration, as Africa's private consumption level is expected to reach 2 trillion a year from 2025 onwards. Working with such an important partner requires being very well versed in the socio economic status of each country in Africa, and the rest of the world, in order to gauge the level of collaboration. The JRC's extensive knowledge management ability is being applied to the strategic use of relevant information, data and knowledge to achieve a systematic and broader use of global socio economic data and indicators in DG DEVCO and delegations through the Global Development Data Tool. The ambition is to ultimately disseminate knowledge, information and analysis through global coverage of such data and indicators facilitating the use of open data across all relevant DGs; with the potential also to gauge any effect that Covid-19 may have on the future funding from the EU. The following needs to be done: 1. Extend the knowledge management platform (Global Development Data Tool) to cover global socio economic data and indicators	JRC.E.7	INTPA	INTPA JRC	ECFIN ECHO EEAS ESTAT FPI NEAR RTD TRADE	2021-01-01	2022-12-31	CON-AA INS-RS	3016341	1	Website and mobile app with extended country coverage	The outcome will be an extended website and a mobile app of the Global Development Data Tool. This will be in addition to the countries currently included and falling under Africa, African Caribbean Pacific (ACP), Overseas Countries and Territories (OCTs). The extended website will include geographic coverage for Asia, Middle East/Gulf, Latin America, EU and its Eastern Neighbourhood, and eventually provdiiding global coverage as requested by DG DEVCO.	2021-12-31	Technical systems	N
																	3016479	2	Updated and expanded version of the website and the mobile app with additional indicators	The outcome will be an extended website and mobile app with new indicators (approximately 45-50) for Digitalisation, Science Technology and Innovation (STI), Business Environment and Health. This is a major outcome to have global coverage with such an extensive set of socio-economic indicators, including new requests from DG DEVCO and from RTD.	2022-12-31	Technical systems	N
																	3025929	3	Updated data for funding flows	Create and update the system that contains data for funding flows (Development aid, Humanitarian Aid, Foreign Direct Investment (FDI) and Remittances), this is closely linked with the website being created for global socio economic indicators.	2022-12-31	Technical systems	N
4. A Stronger Europe in the World	4.3 International cooperation and development	20190	Africa Platform	Africa Platform	JRC.D.6	30841	AfricaPlatform	Africa Knowledge Platform	In a context of high policy demand and numerous JRC activities on Africa, provide the necessary coordination mechanisms, knowledge sharing platform and science-policy networking with key African institutions to ensure a coherent, transparent and effective JRC-wide approach to supporting the EU Comprehensive Strategy with Africa. This project includes three strands of activity, which all entail collaboration with various teams across the JRC: (a) coordination of the JRC Africa Task Force, as an appropriate environment for knowledge sharing, including through a Connected space, identifying synergies, and reviewing JRC support to EU strategic priorities of cooperation with Africa; b) development of the Africa Observatory, providing a single window on JRC scientific knowledge on Africa for policymakers and other users; c) organisation of the Science Policy forum for Africa, as a biennial event to capitalise on the JRC's multidisciplinary expertise and strong networks in Africa.	JRC.D.6	INTPA	JRC	DEFIS ECHO EEAS ENER ENV MARE NEAR RTD SANTE	2021-01-01	2022-12-31	INS-RS	3016165	AfrObs1	Africa Observatory - Web Portal	Iterative versions of the Africa Observatory, comprising: Web portal and functionality (minimum 2 major releases) Database	2022-12-31	Sci information systems and databases	N
																	3016167	AfrObs2	Africa Observatory - Datasets and Knowledge Products	Key geographic layers and indicators (continuously added and enhanced) Added-value knowledge products (StoryMaps and similar)with in-depth science-policy narratives focused on key Africa issues (minimum 5)	2021-12-31	Datasets	N
																	3016181	AfrObs3	Africa Observatory - Outreach	Dedicated workshop to identify and encourage knowledge exchange on Africa with external partners	2021-12-31	Training	N
																	3020186	AfrObs4	Science Policy Forum for Africa - Workshop Report	Summary and outcomes of the inaugural JRC Science Policy Forum for Africa. First workshop will focus on EO Science and Applications for Policy in Africa	2021-12-31	Science for Policy reports	N
																	3020187	AfrObs5	JRC Africa Strategy and annual Task Force Report	Annual review of the JRC Africa Strategy, which positions the JRC support around the long-term priorities of the EU Comprehensive Strategy with Africa, and of the activities and findings of the JRC Africa Task Force	2022-12-31	Science for Policy reports	N
																	3020265	AfrObs6	Africa COVID Dashboard	A dedicated dashboard monitoring the evolving situation and impact of COVID and related public health situations, bringing together JRC outputs and analyses relevant to the medium and long term policy responses by the EU with African Partners	2021-12-31	Sci information systems and databases	N
																	3043791	AfrObs7	Africa Foresight Preparatory Workshop	Internal WS JRC and DEVCO plus selected experts to set out way forward for a sectorial foresight exercise	2022-02-28	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
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4. A Stronger Europe in the World	4.3 International cooperation and development	20270	ARCTIC	Strengthening the EU's presence in the Arctic	JRC.C.5	30304	IMPARC	Environmental, climate and societal impacts of a changing Arctic	This is the only project contributing to the scope and objectives in the policy context of the portfolio "Strengthening the EU presence in the Arctic". The High Representative for Foreign Affairs and Security Policy and the European Commission adopted the joint communication "An integrated European Union policy for the Arctic" on 27 April 2016. Three priority areas were identified: Climate Change and Safeguarding the Arctic Environment; Sustainable Development in and around the Arctic; and International Cooperation on Arctic Issues. At the end of last year, the Arctic was considered at three meetings of the Council, where "deep concern" was expressed about the rate of climate change in the Arctic, which is occurring at a rapid pace. It was also concluded that space solutions play a crucial role for the priority areas of the integrated EU Arctic policy and that it is important to continue the implementation of the policy and also to update the 2016 policy. During these first 4 years of the EU Arctic policy, the JRC has leveraged its expertise to undertake "Science for diplomacy" in the Arctic, providing support to EEAS, DG MARE, DG RTD and DG GROW. This new project provides continuity and consolidates the status quo, while at the same time further enhancing knowledge in the key areas related to the Arctic. The JRC-wide Arctic activities are streamlined and organised in this project, which will contribute to the policy priority area "A Stronger Europe in the World" and specifically to the priority activities of the portfolio "Strengthening the EU presence in the Arctic". In addition, it focuses on the priority areas of the joint communication "An integrated European Union policy	JRC.C.5	EEAS	RTD	CLIMA DEFIS ENV MARE RTD	2021-01-01	2022-12-31	CON-IA INS-RS	3008058	202102	Polar space missions: Review of user requirements, synergies and gap	Review and update as necessary the operational Polar user services requirements as they evolve with eventual policy developments. Analyse and compare the mission and user requirements addressed by the High Priority Candidate Missions (HPCM) relevant for Polar areas. Identify overlaps, complementarity and synergies between the various HPCMs and the existing Sentinels for Polar areas. Identify remaining gaps to be addressed differently through procurement of third-party data, modelling, e.g. by Copernicus Services, or by Sentinel Next Generation missions. Contribution to a report of the EU Polar Expert Group (PEG). The work is linked with the Copernicus 2.0 evolution portfolio and the Copernicus Global Land Management Service.	2021-12-15	External study reports	N
																	3008059	202103	Support the Arctic Council and other international bodies	Contributions to the EU cooperation with the Arctic Council and other international bodies. We will produce a science for policy brief summarizing the activities performed during 2021 to support different bodies: • the Expert Group on Black Carbon and Methane of the Arctic Council • the Expert Group on black carbon and methane of the Arctic Monitoring and Assessment Program (AMAP) • the Expert Group on mercury and persistent organic pollutants of the Arctic Monitoring and Assessment Program (AMAP) • the Sustaining Arctic Observing Networks (SAON) • the Conservation of Arctic Flora and Fauna (CAFF) • the Expert Group on Fish Stock in the Central Arctic Ocean (FISCAO) • the Expert Group on marine litter of the Protection if the Arctic Marine Environment (PAME) • the Sustainable Development Working Group (SDWG) and its Arctic Water Energy Food Nexus project.	2021-11-30	Science for Policy Briefs	N
																	3008060	202104	Sustainable Development for the Arctic	This is an envelope deliverable which includes the work towards the understanding and implementation of a sustainable development in the Arctic with specific work on reinforcing Arctic Smart specialisation, mobilisation of different types of knowledge within a climate change adaptation strategy/plan/scenario, and transport infrastructures in the Arctic. During the first year the main activities are: • the organization of a workshop on smart specialization in the Arctic. • engage with relevant Arctic actors and explore the politics of knowledge mobilisation • A technical report on prototype resilience indices linking relevant environmental indices with social and economic indicators	2021-11-30	Technical Reports	N
																	3008061	202101	Assessment of Arctic Changes and feedbacks at the mid-latitudes	This deliverable includes scientific research on climate change and safeguarding the Arctic environment and will provide different contributions as scientific articles in peer-reviewed journals and assessment reports: • Analysis of latest model simulations and literature to summarize the environmental changes in the Arctic and the feedbacks at mid-latitudes for present and near-future (2030-2050) • Contribution to the Assessment Report of the Arctic Monitoring and Assessment Program (AMAP) on black carbon and methane, mercury, and persistent organic pollutants • Providing training in the framework of GMOS-Train Global Mercury Observation Training Network project of MSCA ITN H2020 grant • Developing global persistent organic pollutants emissions inventory as EDGARv5.1_toxPOPs • Processing and analysis of EO data for the Arctic Ocean ecosystem focusing on marine biology (through its phytoplankton component); comparison of ocean colour data records from several missions over 20+ years.	2021-11-30	Journal contributions (Clarivate)	N
																	3008075	202105	Implementing Arctic Observations for societal Needs	In the frame of the H2020 project proposal ArcticPASSION on "Pan-Arctic observing System of Systems (Pan-AOSS): Implementing Observations for societal Needs": Lead the Work Package and produce a technical report on societal and economic benefits of the pan-AOSS and Pilot Services for the local communities and global society.	2022-11-30	Technical Reports	N

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																	3008076	202201	Indices and datasets to monitor the Arctic changes	Scientific research on climate change and safeguarding the Arctic environment providing different contributions: • Definition of the indices which can represent the environmental changes occurring in the Arctic, in terms of extreme events (temperature and precipitation), winter heat waves in the Arctic, and cold waves in Europe. Peer reviewed journal article. • Processing and analysis of EO data for the Arctic Ocean ecosystem focusing on marine biology (through its phytoplankton component); investigation of change in the Arctic phytoplankton using ocean colour multi-sensor data records over 20+ years. Publication of a JRC Technical Report. • Global mercury emissions inventory updates as EDGARv5.0_toxHg for the latest years documented in scientific publication.	2022-11-30	Journal contributions (Clarivate)	N
																	3008120	202202	Designing a preliminary overall system architecture for the monitoring of the Polar areas	Contribute to the design of a preliminary overall system architecture for the monitoring of the Polar areas building on the synergies between the European Space assets and possible non-space resources. This system architecture shall consider all aspects from coordinated mission planning to maximize polar observations, to timely data acquisition, processing, and product dissemination, building on core and downstream services in order to meet user requirements. Contribution to the reporting of the planned EU Polar Task Force. The work is linked with the Copernicus 2.0 evolution portfolio and the Copernicus Global Land Management Service.	2022-12-15	External study reports	N
																	3008131	202203	Support the Arctic Council and other international bodies	Contributions to the EU cooperation with the Arctic Council and other international bodies. We will produce a science for policy brief summarizing the activities performed during 2022 to support different bodies: • the Expert Group on Black Carbon and Methane of the Arctic Council • the Expert Group on black carbon and methane of the Arctic Monitoring and Assessment Program (AMAP) • the Expert Group on mercury and persistent organic pollutants of the Arctic Monitoring and Assessment Program (AMAP) • the Sustaining Arctic Observing Networks (SAON) • the Conservation of Arctic Flora and Fauna (CAFF) • the Expert Group on Fish Stock in the Central Arctic Ocean (FISCAO) • the Expert Group on marine litter of the Protection if the Arctic Marine Environment (PAME) • the Sustainable Development Working Group (SDWG) and its Arctic Water Energy Food Nexus project.	2022-11-30	Science for Policy Briefs	N
																	3008216	202204	Sustainable Development for the Arctic	This is an envelope deliverable which includes the work towards the understanding and implementation of a sustainable development in the Arctic with specific work on: • Learnings from a targeted selection of examples, where smart specialisation and sustainable development have been featured strongly, will provide for developing methodologies and approaches to S3-oriented interregional working for innovative and sustainable Arctic. • Analysis of traditional knowledge as legitimate source of so-called evidence and development of proposals for making traditional knowledge visible and actionable in Arctic related policy making processes. • A scientific publication on linking environmental indices with social and economic indicators to support a sustainable. • Analysis of the opportunities and benefits offered by the development of sustainable transport options in the Arctic.	2022-11-30	Science for Policy reports	N
																	3008269	202205	Implementing Arctic Observations for societal Needs	In the frame of the H2020 project proposal ArcticPASSION on "Pan-Arctic observing System of Systems (Pan-AOSS): Implementing Observations for societal Needs": Development of a pilot service, 'Local atmospheric pollutant forecasts' to support local communities and decision-makers by improving air quality monitoring and atmospheric pollution forecasts. Publish the results on a scientific peer-reviewed journal.	2021-11-30	Journal contributions (Clarivate)	N

JRC 2021 - 2022 DETAILED WORK PLAN (JPB extract as of 04 06 2021)

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4. A Stronger Europe in the World	4.3 International cooperation and development	20443	URBAN OBS	Urban observatory on the future of cities and urban strategies	JRC.B.3	30480	foCUSAfrica	Future of Corridors and Urban Systems in Africa	Rapid urbanisation in Africa is increasing pressure on the provision and quality of urban services, and it calls for policy initiatives and interventions in support of integrated urban and territorial development. Accessibility and connectivity within and between urban centres are essential features for the efficient movement of people, goods, services, knowledge and capital. When cities are also hubs of regional importance for freight transportation, the mobility challenge becomes multifaceted and it can support value chains and territorial development (rural and urban) through reliable networks and services, therefore creating “strategic corridors”. These corridors typically attract investments and development-oriented initiatives. Identifying key strategic corridors in Africa, and focusing on their development, provides an important opportunity to deepen Africa-EU partnership. The data and knowledge on African cities and corridors are often not very detailed, not collected on a regular basis or not presented at suitable spatial disaggregation to adequately support policy analysis and monitoring. The project foCUSAfrica aims to provide knowledge (methods, tools and data) in support to the implementation and monitoring of EU external policy and cooperation initiatives related to urban development and to facilitate intra-African and Africa-Europe trade by improving sustainable, efficient, and	JRC.B.3	INTPA	INTPA JRC	MOVE NEAR REGIO	2021-01-01	2023-12-31	CON-AA INS-RS	3015332	CUSA20210	Strategic Corridors in Africa	Identification and characterisation of strategic corridors in Africa	2021-12-31	Science for Policy reports	N
																	3031305	ISAFRICA2	Revision of World Population Prospects	Contribution to the preparation of the Revision of World Population Prospects	2022-10-31	Whole parts of policy documents	N
4. A Stronger Europe in the World	4.3 International cooperation and development	20637	LocalSDGs	Localising sustainable development goals	JRC.B.3	30479	URBAN 2030 - II	Localising the SDGs through Voluntary Local Reviews	Following the adoption of the 2030 Agenda in September 2015, the European Union has worked on mainstreaming the 17 Sustainable Development Goals (SDGs) across its policies and projects. On 22 November 2016, the Commission adopted the Communication on Next steps for a sustainable European future, which presented the Commission's strategic approach towards the implementation of the UN 2030 Agenda and SDGs. This approach consists of two work streams: - Integrating sustainable development in the European policy framework and Commission priorities. - Launching reflection work on further developing a long-term vision and the focus of sectorial policies after 2020, in order to prepare for the long term implementation of the SDGs. On 13 September 2017, the then President Juncker announced in the Letter of Intent to the President of the European Parliament and the Council president, that the Commission would prepare a Reflection Paper "Towards a sustainable Europe by 2030" as a follow-up to the UN SDGs, including the Paris Agreement on Climate Change. The Reflection Paper was drafted under the responsibility of First Vice-President Timmermans and Vice-President Katainen and adopted in January 2019. EU has committed to fully integrate the SDGs in the EU policy framework and recognizes the principle of multilevel governance in the drawing-up and implementation of the EU policies. Only 20% of	JRC.B.3	REGIO	JRC	EEAS FPI GROW INTPA SG	2021-01-01	2023-12-31	INS-RS	3003452	202301	Final Report on the pilot cities	2nd SDGs Pilot cities report – based on the work with the expanded reference group. The report builds on the input received by the participating cities and provide recommendations on the local implementation of the 2030 Agenda in Europe.	2023-07-31	Technical Reports	N
																	3003453	202201	2nd European Handbook for SDG Voluntary Local Reviews		2022-12-31	Science for Policy reports	N
																	3003592	202101	Report on the pilot cities	1st SDGs Pilot cities report – based on the work with the reference group	2021-12-31	Technical Reports	N
																	3004796	202203	European Conference on the Localisation of the SDGs	European Conference on the Localisation of the SDGs Category 4.4. cannot be selected	2022-12-31	Technical Reports	N
																	3077060	202202	Integration of local dataset into the Urban Data Platform Plus	Integration of the urban data platform with local dataset to prepare a SDG city profile	2022-12-31	Technical Reports	N
																	3108829	202102	SDG localisation and multi-level governance: lessons from the Basque Country. A sub-national approach for better governance through SDGs	This report describes the various actions and initiatives developed in the Basque Region for the local implementation of the 2030 Agenda, which constitutes a real ‘SDG ecosystem’. From this experience, the report draws recommendations useful for other regional authorities. The case of the Basque Region, which was among the first sub-national organisations in the world to adopt a consistent SDG localisation strategy, reflects well this double use of VLR (tool for better policy making – instrument for international diplomacy).	2021-12-31	External study reports	N
																	3108830	202103	Regional indicators for the Sustainable Development Goals: An analysis based on the cases of the Basque Country, Navarre and Flanders	This report proposes a set of indicators aimed at facilitating the work of regional governments that want to monitor how their policies contribute to the Sustainable Development Goals.	2021-12-31	External study reports	N
																	3108831	202204	Training on the 2nd European Handbook for SDG Voluntary Local Reviews	This training aims at introducing recommendations and data-based tools for reporting SDGs at the local level to policy-makers and experts	2022-12-31	Training	N
																	3108832	202302	Input to the High Level Political Forum for sustainable development 2023	contribution of European local governments to the implementation of the 2030 Agenda and its SDGs.	2023-12-31	Training	N

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4. A Stronger Europe in the World	4.3 International cooperation and development	20637	LocalSDGs	Localising sustainable development goals	JRC.B.3	30547	S3 for SDGs	Smart Specialisation for Sustainable Development Goals – STI pathways for green recovery	The project contributes to the JRC effort to support the localisation of the SDGs and their territorial dimension. Starting in November 2018, Unit B3 has been working to share the EU experience on Smart Specialisation Strategies (S3) as one of the global methodologies for STI Roadmaps for the achievement of SDGs, with a distinctive localised (place-based) approach and widespread application across EU regions. There has been a growing interest in adopting S3 as a reference approach to localised innovation-led transformation agendas in a number of countries across the globe, as well as an increasing focus on SDGs as key framework for setting targets and ambitions. S3 has become one of the recognized methodologies of localised STI policy approaches. It is now included in the UN Guidebook on STI for SDGs Roadmaps and the accompanying Background paper on methodologies. In 2019, JRC has become a key strategic partner in the UN Global Pilot Programme on STI Roadmaps for SDGs, together with the UN stakeholders and the World Bank. JRC is working with Serbia as one of five Global Pilot Countries where these methodologies are being tested. This pilot approach will be further developed and applied in more countries to solidify the global recognition of one of EU-made policy concepts. The new methodology for sustainability-oriented Science, Technology and Innovation (STI) Roadmaps	JRC.B.3	INTPA	JRC	GROW NEAR REGIO SG	2021-01-01	2023-12-31	INS-RS	3014471	012022	Report on the application of the S3 for SDGs methodology in the interested EU regions (Contribution to the High Level Political Forum 2021)	The report will be a contribution to the High Level Political Forum 2021 and contribution the European Conference on the Localisation of the SDGs.	2023-06-30	Technical Reports	N
																	3014472	012021	The adaptation of Smart Specialisation methodology to the localisation of the SDGs, based on the results of pilot application in the UN Global Pilot Programme	The adaptation will be based on the results of the pilot analytical and process design work that JRC contributes to the UN Global Pilot Programme on Science, Technology and Innovation for Sustainable Development Goals.	2022-12-31	Technical Reports	N
4. A Stronger Europe in the World	4.3 International cooperation and development	22462	GreenTransition	Green Transition in ACP regions	JRC.D.6	30621	Intra-ACP CS	Support to Intra-ACP Action on Climate Services	This objective of this work package is for the JRC to provide substantial technical support to DG DEVCO in the implementation of an important action (EUR 85 million / 6 years) to develop the climate information services value chain, in ACP regions, through technical assistance, financial assistance, infrastructure and capacity building to improve wide access and use of climate information, and to enable and encourage the generation and use of climate services and applications for decision making processes at all levels. The action will contribute to fostering sustainable development, through the prevention of desertification, food security, disaster risk reduction and sustainable use of water management in ACP countries by improving the decision-making process through informed adaptation options to climate variability and change. This action will strengthen the tools to bridge climate services stakeholders and users in climate-sensitive sectors to resource and implement the UN's Global Framework for Climate Services (GFCS) at all levels. Climate change and environment are at the heart of the United Nations 2030 Agenda for Sustainable Development: achieving sustainable development and avoiding dangerous climate change through the Paris Agreement are two sides of the same coin. By boosting Adaptation and Resilience to climate change, this ACP-EU Climate Services action will contribute to primary SDG 13 on climate change, as well as other secondary SDGs, including SDG 2 on zero hunger, SDG 3 on good health and well-being, SDG 5 on gender, SDG 6 on clean water, SDG 14 on life below water and SDG 15 on life on land. The action is in line with the recently published	JRC.D.6	INTPA	INTPA	CLIMA DEFIS	2021-01-01	2025-08-30	CON-AA	3032253	ntraACPCS	Intra-ACP Climate Service 2021 Annual Report	This annual report for 2021 provide a status update of all aspects of support from the JRC support to the Intra-ACP CS Actions. Including the development of the Climate Station, and associated training, the thematic activities in support developping dedicted products and indicators, the activities on tools for QA and QCand the activities on colating requirements accros the Action.	2022-02-18	Technical Reports	N
																	3032254	ntraACPCS	Intra-ACP Climate Service 2020 Annual Report	This annual report provide a status update of all aspects of support from the JRC support to the Intra-ACP CS Actions. Including the development of the Climate Station, and associated training, the thematic activities in support developping dedicted products and indicators, the activities on tools for QA and QCand the activities on colating requirements accros the Action.	2021-02-19	Technical Reports	N

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4. A Stronger Europe in the World	4.3 International cooperation and development	22462	GreenTransition	Green Transition in ACP regions	JRC.D.6	30947	WEFE Africa	WEFE Nexus perspectives in developing countries	The WEFE Africa project links JRC's scientific and technical capacities in water, energy, food and ecosystem (WEFE) data, modelling and information systems in developing countries, with a special focus on Africa. Working with local, regional and international organisations and the African Centres of Excellence on Water Science and Technology, the project intends to produce scientific and technical recommendations to facilitate the definition and implementation of WEFE policies and Nexus action plans for future investments in the African River Basins (Niger, Senegal, Nile, Zambezi), thus complementing the EC's WEFE Nexus Dialogue Programme and providing assistance to EC initiatives in Water Diplomacy and migration. The project will focus on the development of adequate modelling tools able to analyse the dynamics at an adequate spatial and temporal resolution. The technical framework should include a hydro-economic modelling component translating the trade-offs between the different WEFE components into economic terms. provide scenarios to explore opportunities for sustainable economic growth through an integrative cross-sectoral approach. It will help to measure the progress made by African countries towards sustainable development goals by assessing the impacts of policies in different sectors (energy, food, industry, urban areas, environment, ...) taking into account, for example, the structural reasons for resource scarcity, increasing urbanization and population growth trends, increased migration, mitigation and adaptation to climate change and variability, the use of renewable energies, clean	JRC.D.2	INTPA	INTPA INTPA INTPA INTPA INTPA INTPA JRC	CLIMA EAC ECHO EEAS ENV HOME NEAR SANTE	2021-01-01	2022-12-31	CON-AA CON-AA CON-AA CON-AA CON-AA CON-AA INS-RS	3038546	202102	WEFE-NEXUS analysis in the Senegal River Basin	Hydrological and agricultural modelling and stakeholder/expert consultations to evaluate food security and the potential for investment in agriculture and energy production in the Senegal river basin, which depends on water resources and is affected by climate change. Identification and testing of strategies for the development of integrated water-resource management plans in this transboundary river basin will be proposed with the objective of contributing to a sustainable development strategy in the river basin. Another important aspect to be considered will be the groundwater resources analysis and aquifer hydrological modelling based on the state-of-the-art assessment on existing open-source groundwater flow modelling tools and applications. Results, conclusions and recommendations regarding the methodology and lessons learned will also feed into the Africa Knowledge Platform.	2021-10-31	Science for Policy reports	N
																	3038547	202103	Water-Agriculture Nexus in Niger River Basin in the context of an expected increasing food demand	The report will address key issues in the Niger River Basin through an upgraded and revised E-NEXUS decision support tool according to the stakeholder's needs and priorities analyses such as 1) the development and improvement of water supply 'points' (e.g. wells, springs, surface water bodies) network to mitigate the impact of longer dry seasons, droughts and spatial-temporal behaviour of dry spells as resulting from increased climate variability; 2) the improvement of cereal and legumes crops productivity, especially during the dry season to meet current and increasing food demand. Results, conclusions and recommendations regarding the methodology and lessons learned will also feed into the Africa Knowledge Platform.	2021-12-31	Technical Reports	N
																	3038548	202201	Water-Energy Nexus in Western Africa	The development of an Energy-Renewable Energy module (concretely Biogas and PV) to be included in the e-NEXUS Decision Support Tool. The energy supply needed for the development of irrigation networks and the storage, packing and transformation of produced crops. This will include the analysis of potential alternative renewable energy sources to current practices based on the use of wood/coal, resulting in degradation of forests, soil and definitely affecting the water cycle with highly negative impacts on human health. Development of a Simulation of Micro-reservoirs management module to be included in the e-NEXUS tool. The report will also include the analysis of the surface water bodies dynamics in relation with climate change induced by evaporation and hydrological contribution changes: possible consequences for hydropower production. Results, conclusions and recommendations regarding the methodology and lessons learned will also feed into the Africa Knowledge Platform.	2022-12-31	Science for Policy reports	N
																	3038549	202104	Identification of agro-climatic regions for a sustainable agricultural production in a context of Climate Change	Identification of optimal agro-climatic regions for the selected biomass supply chain that are affected by climate change and variability, in particular rainfall during the growing season that influences the beginning and end of the season, the presence and frequency of stress periods, etc. The report will address the assessment of the impacts of climate change on the water resource for sustainability of the agricultural production and the implementation of a decision support tool to identify optimal strategies also taking into account the management option for Climate Change adaptation and Variability in the Western Africa region. Results, conclusions and recommendations regarding the methodology and lessons learned will also feed into the Africa Knowledge Platform.	2021-12-31	Sci information systems and databases	N
																	3038550	202101	Water Quality Baseline in the Senegal River Basin.	The general objective of this report is to review the chemical and microbiological quality of water in the Senegal River basin in order to strengthen existing knowledge in the region and support the Senegal River Basin Organisation (OMVS, in French). This study should contribute to the establishment, in the medium and long term, of a regional water quality monitoring mechanism at basin level for the identification of water pollution and infectious diseases in the river basin due to the socio-economic development expected in the coming years in the agriculture, energy and mining sectors. In collaboration with Senegal and Mali government and water departments. Results, conclusions and recommendations regarding the methodology and lessons learned will also feed into the Africa Knowledge Platform.	2021-10-31	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3038551	202203	Prioritisation among environmental hazards and related mitigation options in African river basins	In a post-COVID-19 context, on the basis of country-specific statistics from international organisations, diseases resulting from environmental factors will be identified in the Senegal, Niger, Nile and Zambezi river basins. This identification is complemented by human and environmental health data from the scientific literature, including information coming from WEFE scenarios on land use and agriculture production and effects from a growing population and urbanization. Risks to human and ecosystem health in the environmental compartments concerned shall be identified and quantified in relation to environmental and food quality standards. An order of priority is proposed for both the impact of the risks and the convenience of potential mitigation options to support EU Development policies. Results, conclusions and recommendations will feed into the Africa Knowledge Platform and the African institutions (AU, ANBO, ECOWAS) and UN agencies (UN-Water, UNESCO-IHP, UNECE, FAO, UN WWQA).	2022-12-31	Sci information systems and databases	N
																	3038867	202204	WEFE NEXUS – Analysis of a production of residues – biomass for sustainable bioenergy production.	Assessment of the sustainability (environmental and economic) of the agricultural pathways identified for the production of residues, taking into account the expected needs for nutrients (optimal supply to increase and stabilize crop productivity) and supplementary irrigation water needed to cope with Climate Change and Variability and ensure as much as possible a stability of residues - biomass for sustainable bioenergy production. Results, conclusions and recommendations regarding the methodology and lessons learned will also feed into the Africa Knowledge Platform.	2022-12-31	Sci information systems and databases	N
																	3038868	202105	Strengthening the “Science - Policy” Dialogues Interface in Africa	These dialogues involve African institutions at different levels: African Ministers’ Council on Water (AMCOW), African River Basin Organizations (ANBO) and Regional Economic Communities (RECs) for discussion about development priorities and challenges in the transboundary river basins in Africa. The objective is to collect information regarding reservoirs and dams filling and model development to simulate development scenarios taking into consideration, by means of a participatory process, the needs of the country representatives and regional priorities. This activity will geographically focus on Zambezi, Volta, Nile, Niger, and Senegal river basins; and will produce : 1) a comparative analysis between existing Nexus scenarios currently adopted by the ANBO (strategic institutional documents and technical plans, data about water allocations and availability and information coming from satellite data); 2) integration of the scientific results in the development strategic planning	2021-12-31	Technical Reports	N
																	3038869	202205	Water Allocations in WEFE NEXUS in Africa	Assessment of crops’ water and nutrient requirement considering current and future agricultural development taking into account different WEFE sectors. The analyses will consider several aspects: a) analysis of optimal water, land, nutrient allocation to optimize food production, water use and needs, soil fertility management, soil and water quality, energy and economic aspects (bio-energy);b) analysis of crop water as impacted by climate change and variability;c) analysis of crop forage systems as a result of different land use and resources allocation to quantify the impact on the agricultural and livestock system; d) analysis of the potential infrastructural development in terms of irrigation capacity. In terms of economics, the indicator is the levelised cos-of-energy when comparing different options for power generation.Taking into account the seasonality of crop production and solar resources the new methodology will optimize the balance between biomass, PV and storage systems.	2022-12-31	Technical systems	N
																	3038870	202206	WEFE NEXUS good practices	Description Overview of results, knowledge and public data coming from the EC NEXUS Dialogues II Phase, WEFE-SENEGAL, e-NEXUS-WA, TS4FNS5-BioStar. Translations will be made towards pan-African estimations, that can be used for the modelling activities in 2022.01. The data will be also made available for the Africa Knowledge Platform. Results, conclusions and recommendations regarding the methodology and lessons learned will also feed into the Africa Knowledge Platform.	2022-12-31	Science for Policy reports	N
4. A Stronger Europe in the World	4.4 European neighbourhood policy	20426	S&CC	Safe & Clean Construction	JRC.E.4	30403	Eurocodes Balkan	Adoption and implementation of the Eurocodes in the Balkan region	JRC has long experience in supporting the non-EU Balkan countries to build capacities for adapting their national legislation in the field of construction to the EU legal framework. In the Balkan region, there is recorded interest in the Eurocodes (the European standards for structural design) adoption as this offers the opportunity to align with the Union’s advanced common standardization environment. The implementation of the Eurocodes helps Candidate Countries to fully adapt their own national legislation to the EU legal framework and supports potential Candidate Countries to progressively align with the EU acquis. Full Eurocodes implementation in the Balkans will also strengthen the competitive advantage of the European construction industry in the region. JRC is best equipped to support the transition of the Balkan countries towards a set of modern standards for the construction sector, building upon its long experience in promoting the Eurocodes use in Europe and worldwide and its scientific and technical expertise and knowledge of the European policies in the construction sector. JRC has already provided a wide range of supporting activities and tools for the adoption of the Eurocodes in the Balkans. The activity will build upon the positive momentum of past actions (for example draft decision for adoption of the Eurocodes as national design codes in North Macedonia in April 2020), JRC’s strong links with competent authorities/stakeholders in the Balkan region and contacts with EU experts involved in the Eurocodes drafting and update. The project contributes to the portofolio’s objective on	JRC.E.4	GROW	JRC	JRC NEAR	2021-01-01	2023-12-31	INS-E&IA	3009992	2	Roadmap for maintaining the existing Eurocodes and preparing for the second generation of the Eurocodes	The JRC report will present the roadmap for maintaining the existing Eurocodes and keeping pace with the coming second generation of the Eurocodes. The report will serve as a basis for the Eurocodes Balkan Community of Practice (benefits, scope, foreseen activities, way of working). The report will provide a summary on the progress of the Eurocodes implementation in the Balkans and EU Neighbouring and Enlargement Region based on the results of a survey addressed to the competent authorities (National Authorities, National Standardisation Bodies and Chambers of Engineers) and the discussions/exchange of information during the 2021 workshop. Challenges highlighted by the countries and success stories will be presented. The report will provide additional visibility of the projects results and will be a useful guiding manual for all third countries in the process of the Eurocodes adoption.	2022-09-30	Technical Reports	N

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																	3014149	3	Summary report on the status of Eurocodes implementation in the Balkans	The report will provide a summary on the progress of the Eurocodes implementation in the Balkans and EU Neighbouring and Enlargement Region as a result of JRC's activities and support to stakeholders groups involved in this process. The report will bring together knowledge from the EU MS and partner countries and support the Eurocodes Balkans Community of Practice in its first steps.	2023-12-15	Technical Reports	N
																	3014150	1	Workshop: Towards the Second Generation of the Eurocodes in the Balkans	A workshop will be organised by the JRC to bring together EU experts and representatives of National Authorities, National Standardization Bodies, Engineering Chambers and academia from the Balkan region to discuss the process for maintaining the existing Eurocodes with particular attention on the harmonization of seismic hazard, snow, wind and thermal maps. The event will raise awareness on the upcoming second generation of the Eurocodes, expected to be published 2023 and the necessary preparatory steps by the competent authorities. The workshop is aimed to build administrative capacities in the respective authorities/regulators in the Balkan countries, EU Neighbourhood and Enlargement Region and other interested parts of the world (e.g. Horizon Europe associated countries). The actions for creating a regional platform (Community of Practice) to enhance collaboration within the Balkan countries on the adoption and implementation of the Eurocodes will be discussed in the workshop.	2022-09-15	Training	N
																	3105778	4	Eurocodes Balkan Summer School on seismic design of concrete buildings	The Eurocodes Balkan Summer School aims to assist the training of practitioners (design engineers) in the use of the Eurocodes in their day-to-day design practice by providing hands-on training on their use (i.e. lectures with worked examples and interactive sessions for the participants). The School will provide the participants with an overview of the seismic design procedures using Eurocodes 8 and related parts of other Eurocodes, focusing on typical multi story reinforced concrete buildings. The training and guidance material from the event will made available as open-source material in the JRC Eurocodes website. The event will provide an opportunity to build upon the experience, initiatives, difficulties and solutions concerning the implementation of the European standards and policies for construction in the Balkan region. The training scheme and produced material may serve as a reference for other third countries in the process of the Eurocodes adoption.	2021-12-17	Training	N
4. A Stronger Europe in the World	4.4 European neighbourhood policy	20673	EU E&N	A European future for the EU enlargement and neighbourhood region, including more global outreach	JRC.B.3	30689	S3 Enlargement	S3 Enlargement: Smart Specialisation in EU Enlargement Region	This project builds on the successful implementation of the JRC institutional project: Enlargement and Integration Action (run since 2017) within which Serbia, as one of three pilot countries, started to develop its Smart Specialisation Strategy based on Smart Specialisation Framework for EU Enlargement and Neighbourhood Region (S3 Framework). In 2019 DG NEAR offered targeted support to implement this methodology in Western Balkans and Turkey. The project contributes to the EC priority "Stronger Europe in the World" by supporting the partner economies in the successful application of Smart Specialisation – EU-made innovation policy approach. The project is divided into 3 main lines of activities: horizontal, country-specific, communication and dissemination. Horizontal activities focus on region-wide analyses, capacity-building support and tools. The country-specific modules target for individual needs of partners based on their progress in implementing the S3 Framework. The communication and dissemination activities build awareness about the project and approach and facilitate knowledge sharing and peer exchanges. The activities in the project are implemented in coordination and complementary with the wider support of the Enlargement Region by DG NEAR, especially under the Economic and Investment Plan for the Western Balkans and activities supported by DG RTD under the action: 'Widening Participation and Strengthening the European Research Area' of Horizon Europe. The specific modalities of such cooperation are always defined in agreement with DG NEAR.	JRC.B.3	NEAR	NEAR	AGRI GROW RTD	2021-01-01	2023-12-31	CON-AA	3011978	S3PNEAR0	Final report	Final report	2023-12-31	Technical Reports	N

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4. A Stronger Europe in the World	4.4 European neighbourhood policy	20673	EU E&N	A European future for the EU enlargement and neighbourhood region, including more global outreach	JRC.B.3	30723	GDWeB	Supporting the Green Deal in the Western Balkans	The adoption, implementation and enforcement of the EU acquis Chapter 27 on Environment and Climate Change is an obligation for accessing countries in the framework the “Stabilisation and association process”. In 2018 the European Commission reaffirmed the merit-based prospect of EU membership for the countries of the Western Balkans (WB) and launched the Enlargement package (COM(2018)450) in which the implementation of the EU’s enlargement policy was assessed. The European Commission political guidelines for 2019-2024 considered the accession process as a unique opportunity to promote EU core values and reaffirm the importance of continuing the reform process of this region. In February 2020 the European Commission launched a proposal to drive forward the EU accession process, by making it more credible, with a stronger political steer, more dynamic and predictable (COM(2020) 57). The EU Green Deal (COM(2019)640 sets out a number of concrete actions in the field of climate, depollution, energy, biodiversity, circular economy, among others. It is part of the Commission’s strategy to implement the UN’s 2030 Agenda and the sustainable development goals.Considering that climate change and pollution are cross-border issues, involving the Western Balkans is a prerequisite for achieving the EU Green Deal objectives. In this regard, a Green Agenda for the Western Balkans is among the key actions of the EU Green Deal roadmap.	JRC.C.5	NEAR	JRC JRC	AGRI CLIMA ENV	2021-01-01	2022-12-31	INS-E&IA INS-RS	3010327	01	Report on the alignment of the EU acquis on environment	The report describes the status in the transposition and implementation of the EU acquis in the fields of air, climate, soil and water resources in the Western Balkans and it is meant to contribute to the EC reports on the progress in the accession process. It will also summarise the situation of the abovementioned environmental compartments according to the officially reported data and scientific publications. For the soil compartment the contribution will derive from the Soil Assessment Report that is being developed in collaboration with the EEA and feedback on national plans. Moreover, the water chemical status defined on the basis of priority substances levels and determined according to the EU Watch List program will be presented. This activity is relevant for the E&I strategy.	2021-11-30	Science for Policy reports	N
																	3010329	02	Scenario analysis to assess possible future air quality impacts including economic indicators	The study will rely on previous estimations of health, crop yields and climate impacts carried out with air quality modelling tools (FASST, SHERPA). The focus is on the assessment of air pollution economic impacts on the basis of common scenarios (IPCC, IIASA) with different air quality, climate, energy, SDGs and socio-economic options. This activity is relevant for the E&I strategy.	2022-06-30	Journal contributions (Clarivate)	N
																	3010332	03	Soil pollution database for the Western Balkans	Soil properties, including chemical composition and main pollutants will be analysed, validated and organised in a database. This activity is relevant for the E&I strategy	2022-11-30	Sci information systems and databases	N
																	3010336	04	Capacity building in support of the Green Agenda for the WB	Training on the topics associated with the zero pollution ambition of the EU Green Deal and the training needs identified by the EU Environment Partnership Programme for Accession in the Western Balkans. -Course on air quality monitoring, including dedicated training sessions on validation procedures and evaluation of ambient air quality data back-to-back with the WHO/UBA intercomparison on measurements -Summer school on soil pollution and alignment with EU acquis -Course on emission inventories data distribution in collaboration with the EMEP Task Force on Emission Inventories and Projections (TFEIP). This activity is relevant for the E&I strategy	2022-09-30	Training	N
																	3010341	05	Contribution of IACS to soil quality data	Literature review study on IACS (integrated administration and control system) and LPIS (land parcel identification system) to combine the information of such systems with soil quality data in support to the implementation of the environmental legislation in the Western Balkans. This activity is relevant for the E&I strategy	2022-11-30	Technical Reports	N
4. A Stronger Europe in the World	4.4 European neighbourhood policy	20673	EU E&N	A European future for the EU enlargement and neighbourhood region, including more global outreach	JRC.B.3	30724	S3 Neighbourhood	Smart Specialisation in EU Neighbourhood Countries	This project builds on the results of the pilot JRC Enlargement and Integration Action implemented in the years 2017-18 and continued in 2019-2020. The activities have developed from pilot 3 target countries (Serbia, Ukraine, Moldova) to the implementation of Smart Specialisation in Western Balkans and Turkey, the Eastern Partnership Countries and Tunisia. As the development of smart specialisation strategies is advanced or initiated in 13 countries at the moment, with more requesting JRC assistance, the Action should be continued in order to achieve wider policy impact. Because of separate competitive funding available to EU Enlargement Countries, this project will focus on EU Eastern and Southern Neighbourhood. The first expressions of interest in smart specialisation from Eastern Partnership reached the Joint Research Centre of European Commission in 2016, when the first awareness raising events, fact-finding missions and info-sessions were organized in Ukraine and Moldova. Ukraine and Moldova are already advanced in the strategy design process, and new activities being prepared for Georgia, Armenia and Belarus. There is also an interest in Smart Specialisation in EU Southern Neighbourhood, with the formal cooperation with Tunisia already started. Since that time, JRC has developed the Smart Specialisation Framework for EU Enlargement and Neighbourhood Region and organized dedicated training and capacity building activities and targeted methodological guidance on different aspects of smart specialisation process. Based on this development, in January 2019, DG REGIO launched additional targeted	JRC.B.3	NEAR	NEAR JRC	EEAS REGIO RTD	2021-01-01	2023-12-31	CON-AA INS-E&IA	3016073	⁹Neigh1101	Final report	Final report	2023-12-31	Technical Reports	N

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4. A Stronger Europe in the World	4.5 Security and crisis managem ent	20886	DRMKC	Disaster Risk Management Knowledge Centre	JRC.E.1	30702	GCRI VII	Global Conflict Risk Index	EU Early Warning System is based on the quantitative conflict risk modelling methodology developed in-house: the Global Conflict Risk Index, which provides armed conflict predictions globally at country level, for the next 1 to 4 years. The GCRI which has been continuously improved since is development in 2014, now includes 25 risk variables, including climate, water scarcity and food insecurity among other demographic, socio-political, economic and security variables. It has been recognised by academic peers and policy partners as a reference methodology for conflict risk modelling for its scientific robustness and evidence-based policy support dimensions.	JRC.E.1	FPI	FPI FPI	EEAS SG	2020-04-01	2021-03-31	CON-AA CON-AA	3021275	B1	Dashboard on political news alert indicating contentious action, including destabilizing efforts on fragile countries	Dashboard on political news alert indicating contentious action, including destabilizing efforts on fragile countries	2022-06-30	Technical systems	N
4. A Stronger Europe in the World	4.5 Security and crisis managem ent	20886	DRMKC	Disaster Risk Management Knowledge Centre	JRC.E.1	30704	S4P	Science4Peace	This institutionally funded project, which is the cornerstone of the ESAS portfolio underpinning the research work of the three other projects under the same portfolio which are policy support oriented, contributes to the EC priority "A stronger Europe in the world", in particular, Proposal for a REGULATION (EU) COM(2018) 460 FINAL of 14 June 2018 establishing the Neighbourhood, Development and International Cooperation Instrument (NDCI) for a multiannual financial framework for the 2021-2027 period. The rapid response component of the NDCI is dedicated to quick response capacity for crisis management, conflict prevention and peace building; strengthening resilience and linking humanitarian and development actions; and foreign policy action needs and priorities. The proposed regulation seeks to merge many instruments like among others the Instrument contributing to stability and peace (IcSP), the European neighbourhood instrument (ENI), the development cooperation instrument (DCI) into one new regulation	JRC.E.1	EEAS	JRC	SG	2021-01-01	2027-12-31	INS-RS	3021320	A1	New violent event codebook	The new violent event codebook will enable the coding (and eventual forecasting) of short term (1- to 3- to 6-month horizon) social unrest, building on previous in house achievements of violent news modelling, using innovative natural language processing methods and tools. This deliverable in the mid to long term with enhance the functionality of the Science4Peace portal by contributing to the dashboard of political news and inform the development of the spatio-temporally distributed conflict risk index. The codebook will be developed in collaboration with JRC.I3.	2022-12-31	Journal contributions (Clarivate)	N
																	3068365	A2	Dynamic violent event prediction methodology for geopolitical foresight	The changing nature of conflict with alarming rates of police violence resulting in loss of human life requires new methods of prediction, beyond conflict risk structural models. The deliverable will prototype a dynamic violent event prediction system, using violent new and events datasets, building on the existing RNN model developed in-house. The methodology will inform the development of a spatio-temporally disaggregated conflict risk index to be integrated with environmental data provision by JRC.D2, D5, to be used by JRC.E1 and E6, for sub-national conflict prevention, and geopolitical foresight.	2021-12-30	Science for Policy Briefs	N
4. A Stronger Europe in the World	4.5 Security and crisis managem ent	20886	DRMKC	Disaster Risk Management Knowledge Centre	JRC.E.1	30760	DRMKC-COMM	DRMKC - Communication and Outreach	As an interface between science and policy in the interdisciplinary and multi-sectorial area of disaster risk, the Disaster Risk Management Knowledge Centre provides a key platform for a coherent and evidence-based approach to disaster risk reduction in the context of sustainable development, enabling the transformation under the Green Deal and supporting resilience, climate change adaptation and humanitarian action in the World.	JRC.E.1	ECHO	JRC	CLIMA DEFIS EAC EEAS ENV FISMA HOME INTPA REGIO RTD SANTE SG	2021-01-01	2026-12-31	INS-RS	3010388	012021	DRMKC Website	Update status of the DRMKC Website which will include the explanation regarding the features developed to facilitate communication and flow of information among the DRM community	2021-12-31	Technical Reports	N
																	3010979	012022	DRMKC Website	Update status of the DRMKC Website which will include the explanation regarding the features developed to facilitate communication and flow of information among the DRM community	2022-12-31	Technical Reports	N
																	3010980	022022	Science for Policy Briefs	Regular preparation of Science for Policy Briefs to facilitate the dissemination of the scientific achievements in the field of DRM	2022-12-31	Science for Policy Briefs	N
																	3010981	032022	DRMKC Newsletter	Regular Newsletter will be produced to maximise the dissemination of scientific results to the wider public	2022-12-31	Journal contributions non-listed	N
4. A Stronger Europe in the World	4.5 Security and crisis managem ent	20886	DRMKC	Disaster Risk Management Knowledge Centre	JRC.E.1	30761	DRMKC-Tools	DRMKC-Multihazard data and tools	R&I programs produce a large amount of data and tools that are not sufficiently exploited due to its heterogeneity, lack of inter-comparability and sustainability in the long term. This situation creates duplications of efforts over time and insufficient uptake of scientific results by the interested authorities at any level. A more rationalised exploitation of the research results is required and the DRMKC Tools project aims at offering a normalised and multi-hazard approach to ensure sustainability and inter-comparability of data in a multi-hazard approach.	JRC.E.1	ECHO	ECHO ECHO INTPA JRC	CLIMA CNECT DEFIS EAC ENV FISMA HOME INTPA REGIO RTD SANTE	2021-01-01	2026-12-31	CON-AA CON-AA CON-AA CON-AA CON-TW CON-TW INS-RS	3011508	012021	INFORM - New developments	INFORM is a multi-stakeholder forum for developing shared, quantitative analysis relevant to humanitarian crises and disasters. INFORM includes organisations from across the multilateral system, including the humanitarian and development sector, donors, and technical partners. The Joint Research Center of European Commission is the scientific and technical lead for INFORM. INFORM is developing a suite of quantitative, analytical products to support decision-making on humanitarian crises and disasters. These help make decisions at different stages of the disaster management cycle, specifically prevention, preparedness and response. INFORM develops methodologies and tools for use at the global level and also supports their application at subnational level. Regular updates will be published.	2021-12-31	Science for Policy reports	N
																	3011514	012022	INFORM - New developments	INFORM is a multi-stakeholder forum for developing shared, quantitative analysis relevant to humanitarian crises and disasters. INFORM includes organisations from across the multilateral system, including the humanitarian and development sector, donors, and technical partners. The Joint Research Center of European Commission is the scientific and technical lead for INFORM. INFORM is developing a suite of quantitative, analytical products to support decision-making on humanitarian crises and disasters. These help make decisions at different stages of the disaster management cycle, specifically prevention, preparedness and response. INFORM develops methodologies and tools for use at the global level and also supports their application at subnational level. Regular updates will be published.	2022-12-31	Science for Policy reports	N
																	3011521	022021	INFORM for ECHO	Regular technical reports and ad-hoc studies are prepared under ECHO request (AA)	2021-12-31	Technical Reports	N
																	3011528	022022	INFORM for ECHO	Regular technical reports and ad-hoc studies are prepared under ECHO request (AA)	2022-12-31	Technical Reports	N

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																	3011577	032021	Risk Data Hub - New developments	The DRMKC Risk Data Hub aims to offer a common sharing point for policymakers, practitioners and scientists and it is known that each community will approach the web-based platform having different questions and scopes. Working together with the different user-communities in the frame of the collaborative approach offered by the DRMKC we count on facilitating the translation of research results into useful and used inputs for risk reduction. Regular updates will be published.	2021-12-31	Science for Policy reports	N
																	3011583	032022	Risk Data Hub - New developments	The DRMKC Risk Data Hub aims to offer a common sharing point for policymakers, practitioners and scientists and it is known that each community will approach the web-based platform having different questions and scopes. Working together with the different user-communities in the frame of the collaborative approach offered by the DRMKC we count on facilitating the translation of research results into useful and used inputs for risk reduction. Regular updates will be published.	2022-12-31	Science for Policy reports	N
																	3011634	042021	Risk Data Hub for ECHO	ECHO contributes to the development of the Risk Data Hub through the AA. Interim and final reports are prepared as per contract agreements.	2021-12-31	Technical Reports	N
																	3011645	042022	Risk Data Hub for ECHO	ECHO contributes to the development of the Risk Data Hub through the AA. Interim and final reports are prepared as per contract agreements.	2022-12-31	Technical Reports	N
																	3011657	052021	Epidemics Intelligence from Open Sources	The Epidemic Intelligence from Open Sources (EIOS) initiative is a unique collaboration between various public health stakeholders around the globe. It brings together new and existing initiatives, networks and systems to create a unified all-hazards, One Health approach to early detection, verification and assessment of public health risks and threats using open source information. Creating a community of practice for public health intelligence (PHI) that includes Member States, international organisations, research institutes and other partners and collaborators is at the heart of the initiative; saving lives through early detection of threats and subsequent intervention its ultimate goal. The EIOS system builds on a long-standing collaboration between WHO and the Joint Research Centre (JRC) of the European Commission (EC) to develop a system for public health intelligence and responds to the need for a global initiative to bring together PHI efforts.	2021-12-31	Technical systems	N
																	3011710	052022	Epidemics Intelligence from Open Sources	The Epidemic Intelligence from Open Sources (EIOS) initiative is a unique collaboration between various public health stakeholders around the globe. It brings together new and existing initiatives, networks and systems to create a unified all-hazards, One Health approach to early detection, verification and assessment of public health risks and threats using open source information. Creating a community of practice for public health intelligence (PHI) that includes Member States, international organisations, research institutes and other partners and collaborators is at the heart of the initiative; saving lives through early detection of threats and subsequent intervention its ultimate goal. The EIOS system builds on a long-standing collaboration between WHO and the Joint Research Centre (JRC) of the European Commission (EC) to develop a system for public health intelligence and responds to the need for a global initiative to bring together PHI efforts.	2022-12-31	Technical systems	N
																	3011796	062021	EIOS for WHO	Interim and final reports are prepared on regular basis as per contract	2021-12-31	Technical Reports	N
																	3011846	062022	EIOS for WHO	Interim and final reports are prepared on regular basis as per contract	2022-12-31	Technical Reports	N
4. A Stronger Europe in the World	4.5 Security and crisis managem ent	20886	DRMKC	Disaster Risk Management Knowledge Centre	JRC.E.1	30764	DRMKC-Methods	DRMKC Multihazard risk assessment	Article 6 of the recently revised RescEU legislation ask participant states to prepare and share with EC the summaries of their National Risk Assessment and Capability Assessment. The guidelines prepared by Commission in 2010 have to be updated with the latest methodologies for risk assessment developed in each scientific field, which basically corresponds to a different hazard or threat. There is the need to integrate and harmonise the different methodologies to allow national authorities to move from the qualitative assessment of the risk towards quantitative methodologies that will facilitate comparisons of situations across hazards. Impact assessment is equally important and will continue being one of the focus of attention of this project in support to the implementation of Sendai FWDRR, SDGs and Paris Agreement.	JRC.E.1	ECHO	JRC	CLIMA ENV HOME INTPA REGIO RTD SANTE	2021-01-01	2026-12-31	INS-RS	3011133	012021	[TO DELETE] Science for Disaster Risk Managment - Learning from COVID19	[TO DELETE: due to the inability to replace an AD position work needs to be reprioritized and this deliverable will be cancelled.] The COVID19 crisis has offered a large variety of learning opportunities. From the full understanding of what systemic risk means, to the necessity to have specific knowledge on vulnerabilities and how to include social factors into the equation to improve our risk and crisis management capacities. A report will be prepared involving the whole DRM community to analyse what we have learned from this experience and to propose recommendations from the scientific community to improve our prevention, preparedness, response and recovery capacities.	2021-12-31	Science for Policy reports	N
																	3011150	022021	Gaps Explorer update	In the scientific world, as the flood of knowledge increases, there is a greater need for systematic reviews to guarantee proper exploitation of results along with the definition of the way forward. While knowledge is abundant, gaps do still exist: DG Research and Innovation (R&I) contributes to mapping these gaps through their Projects for Policy series of reports. Inspired by this initiative, the DRMKC has developed the Gaps Explorer to provide targeted recommendations, tailored to different stakeholder profiles – Policy-Makers, Practitioners and Scientists – based on thematic reviews. The first pilot has been co-developed by DG R&I and JRC on Forest Fires. We expect many other topics to come ...On regular basis the platform	2021-12-31	Sci information systems and databases	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3011229	012022	Recommendations for RIsk Assessement V2	The Disaster Risk Management Centre has produced in the collaboration with more than 20 scientists the Science for Policy Report titled "Recommendations for National Risk Assessment for Disaster Risk Management in EU: Approaches for identifying, analysing and evaluating risks" V0 (2019) and V1(2020). This Science for Policy Report contributes to common understanding on what risk is and how to quantify it for different hazards. This Science for Policy Report collects the instructions for robust and usable approaches for the risk assessment process in the context of National Risk Assessment and to inform Disaster Risk Management planning.	2022-06-30	Science for Policy reports	N
																	3011230	0202022	Gaps Explorer update	In the scientific world, as the flood of knowledge increases, there is a greater need for systematic reviews to guarantee proper exploitation of results along with the definition of the way forward. While knowledge is abundant, gaps do still exist: DG Research and Innovation (R&I) contributes to mapping these gaps through their Projects for Policy series of reports. Inspired by this initiative, the DRMKC has developed the Gaps Explorer to provide targeted recommendations, tailored to different stakeholder profiles – Policy-Makers, Practitioners and Scientists – based on thematic reviews. The first pilot has been co-developed by DG R&I and JRC on Forest Fires. We expect many other topics to come ...On regular basis the platform	2022-12-31	Technical systems	N
4. A Stronger Europe in the World	4.5 Security and crisis managem ent	20892	CRISIS	Crisis Management	JRC.E.1	30700	Urban-S	Post Conflict Damage Assessment for Urban Recovery Frameworks	The JRC represents the European Commission in a technical capacity in this tri-lateral agreement where it contributes to the development and application of space-based methods for damage and other assessments to improve the needs assessments for reconstruction and recovery planning after major conflict and natural disasters occurring outside the union. This technical support is provided in the context of the Joint Trirlateral Declaration between EU, World Bank and United Nations on post crisis Assessment and recovery planning signed in 2008. Additionaly a new Legislation is in Progress: "A new neighbourhood, development and international cooperation ", which states that the EU shall: "(i) contribute to stability and conflict prevention in situations of urgency, in emerging crisis, in crisis and in post-crisis situations; (ii) contribute to strengthening resilience of states, societies, communities and individuals, and to linking humanitarian aid and development action; and (iii) more generally address foreign policy needs and priorities." Following the Commission Implementing Decision C(2016) 6767 final of 25.10.2016 on the 2016 Special measure for the Syrian population to be financed from the general budget of the European Union, calling for various special measures in complementarity to humanitarian assistance in sectors such as education, livelihoods and civil society, towards a post-crisis state-building and reconstruction scenario, JRC provides technical assistance in post-disaster needs assessment. JRC partners with UN-Habitat and the World Back in assessing the urban conditions for the	JRC.E.1	NEAR	NEAR NEAR	EEAS SG	2019-01-01	2021-05-30	CON-AA CON-AA	3020259	D1	Final Project Report	Final Project Report	2021-05-30	Technical Reports	N
4. A Stronger Europe in the World	4.5 Security and crisis managem ent	20892	CRISIS	Crisis Management	JRC.E.1	30703	S2CM2020	Scientific and Crisis Monitoring Facility (for the EEAS Situation Room)	The Scientific and Crisis Monitoring Facility for the EEAS Situation Room, provides geospatial intelligence for man-made ongoing crises worldwide, including mapping support for global security hot spots. Mapping products include geographic, socio-economic and infrastructure elements, combined with actor and violent event information. These mapping products are used at the highest level of consultation at EEAS, are produced often on short-notice, and usually reflect the crisis monitoring needs of the Situation Room to support the "Stronger EU in the world" priority.	JRC.E.1	FPI	FPI FPI	EEAS SG	2020-04-01	2023-03-31	CON-AA CON-AA							
4. A Stronger Europe in the World	4.5 Security and crisis managem ent	20892	CRISIS	Crisis Management	JRC.E.1	30953	CRITECH	CRITECH	The Crisis Management Technologies and Tools project spans the whole disaster alerting/information chain from the instrumentation and local sensors, to the monitoring and visualization systems, international coordination and national/coordination and field dispatching tools. There is a very close collaboration with the Emergency Response Coordination Centre (ERCC) at DG ECHO, which has funded and used information systems developed in Critech since 2004. JRC, in collaboration with UN-OCHA, developed and operates the Global Disasters Alerts and Coordination System (GDACS) which is a reference system for all the humanitarian organizations (including ERCC), part of ECHO's and OCHA's Standard Operating Procedures for emergency response. GDACS is a multi-hazard situational awareness system, thereby responding to the Sendai Target G (on early warning systems) and in line with the EU's climate change adaptation strategy to prepare for more severe disasters. Further synergy with the Copernicus Emergency Management Service is envisaged. Critech has also a strong technology focus through the European Crisis Management Laboratory (ECML). ECML activities support Member States with assessing their response capability at national or sub-national level, which must be reported to the Commission every 3 years under the Union Civil Protection Mechanism. ECML develops technology (for crisis rooms) and organizes workshops with Member States, industry and scientists to explore research needs. The work package is an essential component of the Disaster Risk Management Knowledge Centre, and keeps the JRC at the forefront of science and a key	JRC.E.1	ECHO	ECHO ECHO ECHO JRC JRC	CLIMA	2021-01-01	2022-12-31	CON-AA CON-AA CON-AA INS-CDP INS-RS	3060264	GDACS1	GDACS 2021	Release of 2021 version of GDACS at the Humanitarian Partnership Week in Geneva. This is accompanied by a Science for Policy report and Policy Briefs.	2021-02-15	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
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4. A Stronger Europe in the World	4.6 Global dimension of nuclear research	20075	GloNEx	Strengthening Global Partnership in Nuclear Expertise	JRC.G.II.7	30084	PRONS	Promoting Nuclear Safety	The EU cooperates many countries outside the EU to promote the EU nuclear safety best standards. JRC nuclear safety expertise ensures a fair, competent and successful implementation of the activities managed by DG DEVCO in coordination with DG ENER and EEAS.	JRC.G.I.4	INTPA	INTPA INTPA	EEAS ENER	2021-01-01	2022-12-31	CON-AA CON-AA	3060265	ERCC1	Analytical support to the Union Civil Protection Mechanism	Analytical support to the UCPM and the Emergency Response Coordination System. Specific presentation at the annual Early Warning meeting with Member States." Analysis of ongoing emergencies	2021-12-31	Technical Reports	N
																	3060266	ECML1	Revamped ECML	Inauguration of revamped ECML in the new building	2021-02-28	Technical systems	N
																	3074691	GDACS2	GDACS 2022	Release of 2022 version of GDACS at the Humanitarian Partnership Week in Geneva. This is accompanied by a Science for Policy report and Policy Briefs.	2022-02-15	Technical Reports	N
																	3074692	TLM1	Tsunami Last Mile Final Report	Final report summarizing the activity of the Tsunami Last Mile Phase 1 (Kos, Bodrum) and Phase 2 (Malta, Indonesia)	2021-12-31	Science for Policy reports	N
																	3001610	Outreach	Nuclear safety progress	Outreach activities	2021-12-15	Journal contributions non-listed	N
																	3005005	FinalReport	Final Report REG 01/16	Final deliverable to DG DEVCO	2021-04-30	Whole parts of policy documents	N
4. A Stronger Europe in the World	4.6 Global dimension of nuclear research	20075	GloNEx	Strengthening Global Partnership in Nuclear Expertise	JRC.G.II.7	30121	NMMS	Nuclear Material Measurements for Safeguards	The project NMMS focuses on nuclear material measurements for safeguards and covers operational support to safeguards authorities, primarily in the field of nuclear and fissile material analysis. R&D and technical developments as direct support to European and international safeguards authorities, such as EURATOM and IAEA are a major contribution. The goals are to develop, improve and maintain analytical techniques and methodologies to ensure efficient and effective safeguards of nuclear materials and to detect clandestine nuclear activities. Within the project NMMS a range of nuclear analytical methods is deployed - covering a concentration range of fissile material which extends over more than 14 orders-of-magnitude. Techniques include non-destructive assay (NDA) of small nuclear material items, and destructive assay (DA) of small sample sizes. The experiences in place and developments are of benefit for other projects.	JRC.G.II.8	ENER	ENER ENER ENER ENER ENER ENER ENER ENER ENER JRC	JRC	2021-01-01	2022-12-31	CON-AA CON-AA CON-AA CON-AA CON-AA CON-AA CON-AA CON-AA CON-AA CON-TW CON-TW CON-TW INS-RS	3000293	3012105	Safeguards measurements performed by JRC-Karlsruhe in support of DG ENER 2021 infield	Summary sheet of the sensitive classified deliverables of the OSL and LSS missions and COMPUCEA campaigns to European fuel production plants (2021), which are part of the operational support to DG ENER for safeguards.	2021-12-31	Science for Policy reports	N
																	3000319	3012106	Safeguards measurements performed by JRC-Karlsruhe in support of DG ENER 2022 infield	Summary sheet of the sensitive classified deliverables of the OSL and LSS missions and COMPUCEA campaigns to European fuel production plants (2022), which is part of the operational support to DG ENER for safeguards.	2022-12-31	Science for Policy reports	N
																	3000342	3012113	Summary Report - Performance in Inter laboratory comparison exercises 2018 to 2020	This report summarizes the performance of G.II.6 safeguards analysis laboratories in external inter laboratory comparison (ILC) exercises for various analysis techniques, such as inductively coupled plasma mass spectrometry (ICP-MS), gamma spectrometry, thermal ionisation mass spectrometry (TIMS), and large geometry secondary ionisation mass spectrometry (LG-SIMS).These international exercises are indicators of the level of analytical competences and enables the identification of of sources for improvements.	2021-11-30	Technical Reports	N
																	3000343	3012114	Scientific publications in Safeguards	Scientific publications for safeguards such as international conference contributions (ESARDA, INMM) and peer reviewed papers.	2021-12-15	Journal contributions (Clarivate)	N
																	3000358	3012115	Safeguards measurements performed by JRC-Karlsruhe inhouse (2021)	The deliverable summarizes the sensitive classified deliverables of the Analytical Service to European and International Safeguards (2021), and contributes to the projects goal to support safeguards implementation.	2021-12-31	Science for Policy reports	N
																	3000395	3012119	Scientific publications in Safeguards	Scientific publications for safeguards such as international conference contributions (ESARDA, INMM) and peer reviewed papers.	2022-12-15	Journal contributions (Clarivate)	N
																	3000788	3012123	Technical guide for the measurement of light elements C,H,O,N,S in solid matrices	JRC KA, in the framework of CEA sub-working group 6 is contributing to the writing of a technical guide for the measurement of light elements C,H,O,N,S in solid matrices relevant to the nuclear fuel cycle. This document will provide guidance for the validation of the methods. The capability to measure the light elements with good precision is necessary for safeguards and forensic applications and quality control of fuel composition.	2022-12-15	Technical Reports	N
																	3000875	3012126	Safeguards measurements performed by JRC-Karlsruhe inhouse	The deliverable summarizes the sensitive classified deliverables of the Analytical Service to European and International Safeguards (2022), and contributes to the projects goal to support safeguards implementation.	2022-12-15	Science for Policy reports	N
																	3000902	3012127	Determination of Uranium content in samples coming from the Nuclear cycle by L-absorption Edge Spectrometry	The deliverable is a contribution to the writing of ISO norm 24456 -determination of Uranium content in samples coming from the Nuclear Fuel cycle by L-absorption Edge Spectrometry to enhance nuclear safeguards methodologies, make the technique available to a wider public and increase the JRC visibility.	2022-12-15	Journal contributions (Clarivate)	N
																	3017727	3012129	Analytical Support to DIR G R&D, Infrastructure needs and decommidssioning 2021	The deliverable summarizes the provided support of G.II.6 Analytical Service under ISO17025 to the different units of DIR G to support R&D in 2021. It also provides an overview of support to Infrastructure, such as waste water characterisation needed prior to rlease it to the waste treatment plant and support decommissioning project inside JRC-Karlsruhe. For each request of analysis a seperate report is provided to the customers and considered confidential, and therefore not to be published.	2022-01-04	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3018489	3012130	Analytical Support to DIR G R&D, Infrastructure needs and decommidssioning 2022	The deliverable summarizes the provided support of G.II.6 Analytical Service under ISO17025 to the different units of DIR G to support R&D in 2022. It also provides an overview of support to Infrastructure, such as waste water characterisation needed prior to release it to the waste treatment plant and support decommissioning project inside JRC-Karlsruhe. For each request of analysis a separate report is provided to the customers and considered confidential, and therefore not to be published.	2021-12-31	Science for Policy reports	N
																	3018490	3012131	Development and nuclearisation of a glovebox D-492	In order to have redundancy if the use of laboratory A122 is not possible a glove box, which has been started to prepare for this purpose has to be reconstructed to the state of the art equipment. This glove box has to have the possibility to dissolve solid plutonium sample. Therefore, new safety features have to be tested, proofed and implemented. Afterwards the glove box has to undergo intensive testing to be accepted for the intended use and pass the institutes glove box approval procedure.	2022-12-31	Technical systems	N
4. A Stronger Europe in the World	4.6 Global dimension of nuclear research	20075	GloNEx	Strengthening Global Partnership in Nuclear Expertise	JRC.G.II.7	30143	METRO	Metrological tools for safeguards	The European Parliament states in its resolution of 28 November 2019 on the 2019 UN Climate Change Conference in Madrid, Spain (COP 25) that nuclear energy can play a role in meeting climate objectives. Effective European and international nuclear safeguards authorities have to meet the new challenges of satisfying increasing energy demands, tackling climate change, re-invigorate nuclear arms control and non-proliferation contributing to peace and security. EURATOM safeguards has the rank of European law (Chapter VII of the EURATOM Treaty) and includes verification of the nuclear material accountancy of nuclear facility operators. Irrespective the future evolution of nuclear energy verification and detection of nuclear materials will remain crucial. By providing measurement quality control tools, the JRC is directly contributing to the effectiveness of nuclear safeguards and security systems, supporting the authorities in meeting the challenge to achieve their required high level of detection probability. The JRC has a clear and stable mandate for the foreseeable future in this field and fulfils this in close cooperation with the other relevant global players, see also (EVALUATION OF THE JOINT RESEARCH CENTRE'S ACTIVITIES RELATED TO REFERENCE MATERIALS, Sept 2016): https://connected.cnect.cec.eu.int/community/jrc/jrc-dg/blog/2016/11/10/evaluation-of-the-jrc-activities-on-reference-materials. The project METRO cooperates with the project SIGN disseminating related methodology for "isotopic fingerprinting" .	JRC.G.2	ENER	JRC	EEAS GROW JRC	2021-01-01	2022-12-31	INS-RS	3007734	)14320220(	Certified actinide reference materials, reference methods and conformity assessment tools	Certified uranium/plutonium reference materials, reference measurement certificates, document standards and inter-laboratory comparisons provided to Euratom safeguards, to the IAEA, to Networks of Analytical Laboratories, to Member State laboraorie, and to industry	2022-11-01	Reference materials	N
																	3007736	)14320220(	Scientific Articles in international refereed journals	High level scientific articles in international refereed journals	2022-12-19	Journal contributions (Scopus)	N
																	3012277	)14320220(	Dissemination and transfer of knowledge and results to EU member states, international organisations and stakeholders	Development of modules for training courses in the field, giving lectures and hands-on training. Contributing to conferences, workshops and meetings such as technical meetings organised by the IAEA or working group meeting organised by ESARDA, CEA/CETAMA and US-DOE	2022-12-01	Training	N
																	3016278	)14320210(	IRMM-1027 Large-Sized Dried spikes for fissile material control - EURATOM safeguards	A new batch of the IRMM-1027 series of U/Pu isotopic reference materials. so-called LSD spkes, provided to Euratom Safeguards (DG ENER-E) under a respective administrative arrangements (AA) and to external customers. Large-Sized Dried (LSD) spikes are used as a fundamental part of the fissile material control of irradiated nuclear fuel at the EURATOM safeguards on-site laboratories, operated by the JRC. This deliverable is a direct support to project NMMS	2021-12-01	Reference materials	N
4. A Stronger Europe in the World	4.6 Global dimension of nuclear research	20075	GloNEx	Strengthening Global Partnership in Nuclear Expertise	JRC.G.II.7	30144	SIGN	Standards for nuclear signatures	Nuclear forensics deals with consistency of information, coherence between materials or samples, conformity of findings with declared processes and comparison of external and internal data. To be effective, nuclear forensic and nuclear safeguards analyses must yield accurate and precise results that can withstand scrutiny in a court of law and from the international community. The JRC, with its acknowledged expertise and mandate, is therefore putting effort into development of certified reference materials and the provision of conformity assessment tools particularly for "isotopic fingerprinting". The power of nuclear signatures lies in the fact that they are characteristic parameters that point at the provenance, history or intended use of nuclear material. This is of importance to both the safeguards & security communities, supporting the Commission Regulation (Euratom) No 302/2005 of 8 February 2005 on the application of Euratom safeguards, the International Atomic Energy Agency (IAEA) Additional Protocol (INFCIRC/540), and the Nuclear Forensic International Technical Working Group (ITWG). This project promotes and demonstrate the "technical convergence" of nuclear safeguards, forensics and security. The project SIGN closely cooperates with the project METRO and the project NUFIT to complement the nuclear forensics "toolbox" with quality control tools and improved methods for nuclear signatures and age-dating of nuclear material.	JRC.G.2	ENER	JRC	EEAS HOME INTPA JRC	2021-01-01	2022-12-31	INS-RS	3007840	)14420220(	Conformity assessment tools for particle analysis and age-dating of nuclear material	External quality control campaign and reference measurement certificates for material analysis in nuclear forensics and nuclear security, supporting Council Decision 2012/212/CFSP	2022-12-23	Validated methods, reference methods and measurements	N
																	3007842	)14420220(	Reference material for nuclear forensics and security	Certification report of a new CRM required for method validation in nuclear forensics and safeguards	2022-04-01	Reference materials	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
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																	3007843	)14420220(	Scientific Article in international refereed journals	High level scientific article in international refereed journals	2022-12-31	Journal contributions (Scopus)	N
4. A Stronger Europe in the World	4.6 Global dimension of nuclear research	20075	GloNEx	Strengthening Global Partnership in Nuclear Expertise	JRC.G.II.7	30242	TRAINS	Training and MS Support in Nuclear Security	The widespread use of radioactive materials for medical and industrial applications is associated with the risk of theft of such materials with their potential use in criminal and terrorist acts. These increased threat concerns are acknowledged by the international community in numerous international commitments and resolutions. In our globalized world, facing with steadily expanding trade and growing exchange of goods, directed efforts, in particular by assisting countries in developing, enhancing and upgrading their prevention, detection and response capabilities, shall increase nuclear security without hampering international trade. The success of the fight against illicit trafficking of nuclear and other radioactive materials necessitates the mobilization and interaction of different competent authorities such as police, customs, border guards, regulators, radiation protection and expert scientists. Each of these authorities has a role and responsibilities during nuclear security incidents that require a close interagency cooperation and interdisciplinary skills and an understanding of the technicalities involved with the detection, handling and analysis of nuclear or other radioactive materials. Thus, non-experts in the radiological field, such as front line officers, need to be familiarized with radiation detection, radiation hazards, and measuring and relaying technical information obtained from instruments for subsequent analysis by the scientific experts. This complexity and the need for optimized use of radiation measurement equipment obviously call for thorough training of the front line officer and the other competent authorities relative to	JRC.G.II.8	HOME	HOME JRC	ENER INTPA TAXUD	2021-01-01	2022-12-31	CON-AA CON-TW CON-TW INS-RS							
4. A Stronger Europe in the World	4.6 Global dimension of nuclear research	20075	GloNEx	Strengthening Global Partnership in Nuclear Expertise	JRC.G.II.7	30243	CoNCap	Contributing to Global Nuclear Security Capacity Building	The JRC has been a leader in the nuclear security arena from the beginning and in the nuclear forensics area in particular. Its involvement in international initiatives (such as Nuclear Forensics International Technical Working Group ITWG or Global Initiative to Combat Nuclear Terrorism GICNT) and its contributions to the work of international organizations (such as IAEA) underline on the one hand the JRC's prominent position and on the other hand enable influencing strategic international developments and decisions. This is fully in line with the priorities of the von der Leyen Commission regarding "A stronger Europe in the World" and "Promoting the European way of life". Based on its long standing involvement in nuclear forensics, its first-hand experience in case work and its strong research activities, the JRC takes a prominent position within the international nuclear forensics community. JRC will continue co-chairing the Nuclear Forensics International Technical Working Group (ITWG) and will contribute to activities of the IAEA and GICNT. Maintaining the strong bi-lateral partnerships with US DOE NNSA, JAEA, CEA or IAEC will contribute to further push R&D activities, to jointly implement knowledge sharing events and thus make the most efficient use of available resources. Key objectives of these partnerships are:	JRC.G.II.8	INTPA	INTPA JRC JRC	EEAS HOME	2021-01-01	2022-12-31	CON-AA INS-E&IA INS-RS	3031909	024320200	Report on CBRN COE Activities	Report on the support provided to the implementation of the EU CBRN COE. In particular, the assistance to COE project teams provided in the development of NAP and NAQ is covered and a technical focus is given to the RN related questions. Regional attention is given to African countries.	2021-12-31	Technical Reports	N
																	3031934	024320200	Activity report on the Nuclear Forensics International Technical Working Group (ITWG)	The JRC has been co-chairing the ITWG since its inception in 1995. JRC continues to provide leadership and guidance to this informal association of nuclear forensics experts from some 35 countries and several international organizations. Annual activities include an experts meeting, working group activities and conducting exercises.	2021-12-31	Technical Reports	N
																	3031978	024320200	Pulication of collaborative research	JRC has a number of bilateral research agreements and MoU's in place which include nuclear security and nuclear forensic topics. This includes US DOE NNSA, IAEA, CEA, JAEA, IAEC and others. The results of the bilateral research activities are published either in form of technical reports or as peer reviewed scientific papers.	2021-01-01	Journal contributions (Scopus)	N
																	3032009	024320200	Capacity building activities with E&I countries	Capacity building in nuclear security in general and in nuclear forensics in particular, includes trainings, workshops and seminars with E&I countries. JRC continues it series of activities in particular with western Balkan countries and Israel.	2021-12-31	Training	N
																	3035192	024320220	Report on CBRN COE related activities	Report on the support provided to the implementation of the EU CBRN COE. In particular, the assistance to COE project teams provided in the development of NAP and NAQ is covered and a technical focus is given to the RN related questions. Regional attention is given to African countries. Moreover, expert advice and scientific consulting will be provided to DG DEVCO funded projects which are implemented through STCU or ISTC.	2022-12-31	Technical Reports	N
																	3035193	024320220	Report on international engagement in nuclear security initiatives and working groups	JRC is a key player in nuclear security and in nuclear forensics, in particular. the involvement includes the Global Initiative to Combat Nuclear Terrorism (GICNT), the Border Monitoring Working Group (MWG) and the Nuclear Forensics International Technical Working Group (ITWG). The JRC has been co-chairing the ITWG since its inception in 1995. JRC continues to provide leadership and guidance to this informal association of nuclear forensics experts from some 35 countries and several international organizations. Annual activities include an experts meeting, working group activities and conducting exercises.	2022-12-21	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3035194	024320220	Publications related to collaborative research	JRC has a number of bilateral research agreements and MoU's in place which include nuclear security and nuclear forensic topics. This includes US DOE NNSA, IAEA, CEA, JAEA, IAEC and others. The results of the bilateral research activities are published either in form of technical reports or as peer reviewed scientific papers.	2022-12-31	Journal contributions (Scopus)	N
																	3035195	024320220	Nuclear security capacity building in E&I partner countries	Capacity building in nuclear security in general and in nuclear forensics in particular, includes trainings, workshops and seminars with E&I countries. This may include educational and vocational training activities. JRC continues it series of activities in particular with western Balkan countries and Israel.	2022-12-31	Training	N
4. A Stronger Europe in the World	4.6 Global dimension of nuclear research	20075	GloNEx	Strengthening Global Partnership in Nuclear Expertise	JRC.G.II.7	30329	CSNM	Containment and Surveillance of Nuclear Materials	At EU level nuclear safeguards is a Commission competence (DG ENER), obligatory to all MS with nuclear materials, under the Euratom Treaty. The main purpose is to assure that nuclear materials are only used for their declared (civil) use and are not diverted for non-peaceful applications. Internationally the mandate for nuclear safeguards is with the International Atomic Energy Agency under the Nuclear non-proliferation Treaty, to which all EU MS adhere. IAEA also seeks to have assurance of absence of clandestine activities w.r.t nuclear weapon production. The EC support programme to the IAEA provides technology and expertise for the effective implementation of safeguards verification measures. The CSNM project supports DG ENER and IAEA with R&D on innovative containment and surveillance technologies for nuclear materials, which are becoming increasingly important for an efficient and effective implementation of nuclear safeguards. It aims to advance the use of remote monitoring systems and reduce the need for on-site inspector presence for routine tasks. The project also contributes to shaping the safeguards approaches for new types of nuclear facilities, e.g. underground repositories or particularly sensitive facilities like gas centrifuge enrichment or spent fuel reprocessing facilities. The technologies developed under the project are also applicable in related fields, such as nuclear decommissioning and security.	JRC.G.II.7	ENER	ENER JRC	EEAS JRC	2021-01-01	2022-12-31	CON-AA INS-RS	3011361	079CSNM	Scientific publications	Scientific publications on the underlying R&D for C&S systems	2022-12-31	Journal contributions (Clarivate)	N
																	3011388	032CSNM	Optical technologies in Passive Seal	Explorative activity to judge the possibility to use holography, laser-induced refractive changes and birefringent material in passive seals.	2022-12-01	Technical Reports	N
																	3011455	CSNM033	Tomographic techniques applied to NS - I	Perform development and implementation of algorithms as needed. Extend the tomography system with active gamma and neutron sources and perform the development of a coupled analysis to identify areas of dense and active sources within barrels.	2021-12-01	Technical systems	N
																	3011456	CSNM034	Tomographic techniques applied to NS - II	Analyse the practical implications of using muons to characterize waste from algorithm point of view	2022-12-01	Technical Reports	N
																	3011457	035CSNM	Laser Mapping for Containment Verification (LMCV) - New Universal platform - I	Development of new algorithms for processing Constor circular welds and field-trial at Kozloduy-Bulgaria based on existing reading head	2021-12-01	Technical systems	N
																	3011458	036CSNM	Laser Mapping for Containment Verification (LMCV) - New Universal platform - II	Release a generic new hardware with updated components.	2021-12-01	Technical systems	N
																	3011459	037CSNM	Laser Mapping for Containment Verification (LMCV) - Constor	Constor system ready. New adapted reading head optimized for thin fine-pitched bent welds	2021-12-01	Technical systems	N
																	3011460	038CSNM	Laser Mapping for Containment Verification (LMCV) - New Camera	Exploratory study to use high pitch camera for complicated cases.	2021-12-01	Technical Reports	N
																	3011461	039CSNM	Laser Mapping for Containment Verification (LMCV) - Kozloduy Installation	Delivery of Kozloduy system, 2 LMCV constor and docking station	2022-12-01	Technical systems	N
																	3011462	040CSNM	Verification Technologies and Methodologies for decommissioning (VTMDecom) - I	Based on agreement with G.III.9, deliver new version of 3DIMS. Potential extensions are: Document management, Reporting tools (change documentation), Gamma-camera support-layer, off-line DB system	2021-12-01	Technical systems	N
																	3011463	041CSNM	Verification Technologies and Methodologies for decommissioning (VTMDecom) - II	Based on result and conclusions from Soil-treatment feasibility study/tech. report; develop if deemed useful a prototype of scanning system to be tested on an experimental facility at JRC premises	2022-12-01	Technical systems	N
																	3011464	042CSNM	Laser Surveillance System(LaSSy)	Finalize the tracking system ready for EP and SFSF	2021-12-01	Technical systems	N
																	3011465	044CSNM	Indoor Localisation and Mapping: STeaM v3	Refactor STeAM server including new Odometer supporting dual laser head; Upgrade STeAM Desktop including new optimization constraints; Finalize new STeAM Live to fully support ONKALO use case	2022-12-01	Technical systems	N
																	3011466	043CSNM	3D Laser Verification Tool: 3DLVS v2.0	Re-design 3DLVS inspection tools (e.g. 3D scan inspection and 2D map inspection) to be compatible with STeAM 3D registration workflow.	2021-12-01	Technical systems	N
																	3011494	045CSNM	Inspector Tools: Visual Odometry	Visual odometry using dual fish-eye lens to add robustness to 3D-based odometry when 3D structure is not available, e.g. in vertical shafts of geological repositories or when 3d scanners are not available (camera-only mode).	2022-06-01	Technical systems	N

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																	3011495	046CSNM	Inspector Tools: AR for Nuclear Safeguards inspector	AR tool for on-site nuclear safeguards inspections combining mapping, tracking and information tagging & visualization on facility scale.	2022-12-01	Technical systems	N
																	3011496	047CSNM	Inspector Tools: VR for Nuclear Safeguards and Decommissioning	Tools and demonstration for efficient VR visualization of massive 3D point clouds for use in nuclear safeguards (training and remote safeguards) and decommissioning.	2021-06-01	Technical systems	N
																	3011497	048CSNM	Approaches for NFC backend: Cask tracking	Development of a working prototype for the cask/canister tracking system based on multiple laser sensors (LCCT). Includes testing of multi-line laser scanners and robot-based emulation of cask movement.	2021-12-01	Technical systems	N
																	3011498	049CSNM	Approaches for NFC backend: Data integration	Installation of a testing environment for sensor integration and analysis based on iRAP. The mock-up will allow testing the data integration and providing the input for specifying the requirements for extended iRAP functionality subject to approval of iRAP change control board.	2022-12-01	Technical systems	N
																	3011499	050CSNM	Approaches for NFC backend: Safeguards approach and demonstration for SFSF	Support future safeguards approach for spent fuel storage facilities including on-site test installation of laser-based systems in German facility.	2022-12-01	Technical Reports	N
																	3011552	051CSNM	AI/ML: Detection and classification for MLSP data	Detection and classification techniques using Deep Learning applied to data sets (2D and 3D imagery) acquired with MLSP for e.g. nuclear safeguards or decommissioning.	2022-12-01	Technical systems	N
																	3011553	052CSNM	AI/ML: Deep learning for localization and tracking	Deep learning for localization and tracking using visual information. Builds on RISE experience and feeds into AR demo.	2022-12-01	Technical systems	N
																	3011554	053CSNM	AI/ML: Visual change analysis	Detecting safeguards relevant changes in visual imagery using Deep Learning, acquired for example with indoor inspection drones for surveillance and containment applications in interim storage facilities.	2022-12-01	Technical systems	N
																	3011555	055CSNM	Operator Applied & Removed Sealing System - Finnish Casks	10 active torque sealing bolts, 20 electronic monitoring systems and one anti tamper locker with remote control dedicated to Finnish transport application, to be tested in AS3ML mock-up	2021-12-01	Technical systems	N
																	3011556	056CSNM	Operator Applied & Removed Sealing System - German Casks	10 active torque sealing bolts, 20 electronic monitoring systems and one anti tamper locker with remote control dedicated to German application on the Castor V cask	2022-12-01	Technical systems	N
																	3011557	058CSNM	New Passive Seal	Research an alternative to the metal caps seal. Evaluate IAEA glass seal design, propose new design and alternative manufacturing methods	2021-05-01	Technical Reports	N
																	3011558	059CSNM	Copper Canister Identification & Authentication	Develop a pre-industrial prototype of copper canister identification & authentication system based on previous studies	2022-12-01	Technical systems	N
																	3011559	060CSNM	Mol / La Hague derived breaking-seal	Develop an ultrasonic bolt seal, breakable when too much torque is applied.	2022-06-30	Technical systems	N
																	3011621	061CSNM	UWB-Inertial Cask Sealing	Develop prototype of electronic cask sealing based on JRC patent: Use UWB real time location combined with inertial sensors to locate lid and container in respect to each other and log openings.	2022-12-01	Technical systems	N
																	3011622	065CSNM	Embedded Universal Seal Reader (EUSR 0.2) - I	Finalize the new Inspector version of the HW and update functionality of the SW to be ready for production in batches of 10	2021-12-01	Technical systems	N
																	3011623	066CSNM	Embedded Universal Seal Reader (EUSR 0.2) - II	Finalize the new Operator version of the HW and SW	2022-06-30	Technical systems	N
																	3011624	068CSNM	Remote Modular Surveillance System (RMSS) - I	The RMSS is the potential future concept for a modular safeguards camera which can be populated with additional sensors as needed. For this activity, host discussion and work resulting in the requirements for a new general system platform to be used by all inspectorates. Result is a number of reports such as system specification, requirement specification and interface specification	2021-12-01	Technical Reports	N
																	3011625	069CSNM	Remote Modular Surveillance System (RMSS) - II	Based on agreement with peers, initiate the development of the RMSS. Iterative development resulting in a series of technical systems with increasing functionality level	2022-12-01	Technical systems	N
																	3011626	071CSNM	Passive Seals delivery 2021	UOSBs dedicated to Castor V casks, 25 seals for Cernavoda, 25 seals for La Hague, 4 reading systems for Cernavoda	2021-12-01	Technical systems	N
																	3011627	072CSNM	Passive Seals delivery 2022	25 seals for Cernavoda, 25 seals for La Hague, 2 reading systems for La Hague.	2022-12-01	Technical systems	N
																	3011696	073CSNM	Ultrasonic seal verification system for operator	Develop a system based on the existing seal fingerprint acquisition device for standalone verification of ultrasonic seals by operators. Delivery of 2 Operator verifying ultrasonic sealing stations	2022-12-01	Technical systems	N
																	3011697	074CSNM	Safeguards video reviews - Videozoom - NGSR	Support the integration of VideoZoom Into the Next Generation Surveillance Review tool developed by DG ENER and IAEA.	2022-12-01	Sci information systems and databases	N
																	3011698	075CSNM	Safeguards video reviews - Videozoom - AI	R&D on real-time Machine Learning to further support the inspector's work during video reviews (connection to 'AI for nuclear safeguards').	2022-12-01	Sci information systems and databases	N

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																	3011699	077CSNM	Operator Data for Process Monitoring	The activity will explore the potential of data provided by facility operators for nuclear safeguards purposes. It will analyse the applicability of machine learning techniques for data already available at the JRC (GBII) and investigate the suitability/availability of data from other facility types, e.g. reprocessing plants. Synergies with related activities (using inspector data and open source/EO data) will be examined.	2021-12-01	Technical Reports	N
																	3011700	CSNM080	A Computational Approach for Passive Gamma Emission Tomography Image Reconstruction	The activity will explore a new computational approach to PGET image reconstruction which is based on two main components: i) a PGET Simulator that allows to efficiently generate a simulated sinogram given a proposed layout/composition of the fuel pins. The simulator will be implemented as ray tracing algorithm that benefits from modern CPU/GPU architectures. ii) a machine-learning algorithm that explores possible pin layouts/compositions until it finds the solution for which the simulated sinogram fits the sinogram generated by the real PGET.	2021-12-31	Technical Reports	N
																	3026303	054CSNM	AOLS convergence project	Re-evaluate the current JRC design of electronic seal. Exchange information with IAEA on their design. Find or propose a convergence on a unique design.	2021-12-01	Technical systems	N
																	3038060	057CSNM	Operator Applied & Removed Sealing System - Design vulnerability review	Perform a preliminary evaluation of the vulnerability of the system design	2021-05-31	Technical Reports	N
																	3091486	196CSNM	Study on optical methods to Authenticate copper canisters	The activity will analyse different techniques to perform authentication of copper canisters for geological repositories. Apart from the already established techniques such as laser triangulation, the activity will in-depth study and evaluate the use of Coherent Scanning Interferometry. Based on the result of the initial technical study, some experimental efforts will be carried out to analyse the use of the techniques in the given environmental conditions.	2021-12-01	Technical Reports	N
4. A Stronger Europe in the World	4.6 Global dimension of nuclear research	20075	GloNEx	Strengthening Global Partnership in Nuclear Expertise	JRC.G.II.7	30330	NDA4SFG SECWM	Non Destructive Assay techniques for safeguards, security and Waste Management	As one of the EURATOM units the NDA work performed is directly linked to the support of EURATOM inspectors of DG ENER. Because the EURATOM treaty is regionally inside the EU making sure the International Non-proliferation treaty is correctly implemented and respects, the NDA work covered by this project extends to supporting IAEA inspectors. The technology developed and used in this project is mainly related to particle detection and finds its applications also in the security and waste management domains. Therefore the project includes all three groups of activities, namely nuclear safeguards, security and waste management. In the project extensive use will be made of modelling techniques. The detection efficiency of the instrumentation will be improved by means of improved electronics components. New measurement methods will be developed in cooperation with international partners. Special attention goes to the, so far uncovered, end of the fuel cycle and the issue of the re-verification of the fuel in storage containers. For the latter it is necessary to explore the potential of the use of high energy particles such as high energy gamma or neutron particles but also the use of muons and anti-neutrino's will be explored. As far as performance evaluation and standardisation is concerned, the ITRAP laboratory will be extensively used opening its doors to the external work allowing vendors of commercial equipment to test their equipment from the point of view of its performance and in cooperation with the national laboratories similar to ITRAP.	JRC.G.II.7	ENER	ENER JRC JRC JRC	EEAS HOME	2021-01-01	2022-12-31	CON-AA CON-IA CON-IA INS-ER INS-RS INS-UR	3021922	015	Testing and performance evaluation of gamma imagers	Develop procedures and technical specifications for the testing and performance evaluation of gamma-ray imagers	2021-12-31	Contributions to standards	N
																	3021923	007	DGS PERLA/PUNITA	Define the requirements documentation for the PERLA setup and for the PUNITA variant for delayed gamma measurements. Develop the mechanical designs, electric wiring, electro mechanical aspects. Prepare production documentation. Develop a desing based on reusable basic components. Example: source conveyor could be used in other setups and should be well designed and characterised. Consider a robotic system picking up sources from the source storage, moving it to the DGS experiment and use the source in the DGS. Main goal is to avoid exposure of support staff. Include in the design a	2021-07-31	Technical systems	N
																	3021949	016	(blank)	Presentations Combined with a testing and measurement campaign (late 2020 early 2021. Such a format was very successful in organising the He3ALT workshop organised at the JRC-Ispra (PERLA+ITRAP). Themes could covers: nuclear security, sefaguards , waste management and decommissioning.	2021-12-31	Training	N
																	3021950	021	XFuelbuilder AA with DGENER	AA supporting the development of XFuelBuilder for automatic evaluation of Neutron Coincidence Collar (NCC) measurements. 1. Development of XFuelBuilder in batch mode; 2) Sensitivity analysis evaluating the effect of small variations in the assembly's parameters on the simulations. It is necessary to subcontract Part of the AA and the programming.	2021-03-31	Technical systems	N
																	3021951	023	EUSECTRA FLO training in NS	About two 1 week training per year of FLOs and tariners of FLOs in EUSECTRA - Focus would be on use of novel dechnolgy detections systems and methods and reachaback.	2021-12-31	Training	N
																	3021952	025	Develop and upgrade the dynamic testing system of ITRAP	1) Modernise and upgrade the dynamic testing system for passing speeds up to 30 km/hr. 2) Modernise and upgrade the DCS data acquisition and analysis system "	2021-12-31	Technical systems	N

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																	3021953	027	Anti-Compton system in RPMs	"Develop an Anti-Compton system to be integrated in Radiation Portal Monitors for the detectioin of shielded Radiooactive and Nuclear Materials: a)Construction of a Compton-Anti-Compton spectrometer b)Measurements with uranium and plutonium CBNM standards c)Operation of the spectrometer in coincidence and anti-coincidence modes d)MCNP modelling of the detector, shield, CBNM standards e)MCNP modelling of the coincidence and anticoincidence modes of operation f)Validation of models g)Modelling of the RPM (set of identical modules arranged as an RPM) h)Description of the results obtained with the modelled RPM and its ability to detect shielded SNM"	2023-12-31	Technical Reports	N
																	3021954	028	Robotics and Drone ported detection systems in NS and SFG	1. Project use case (see presentation made few montsh ago VS, EW and HT) 2. H2020 project proposal with CEA and other partners (in preparation by CEA) Headquarter information system for indoor/outdoor tracking of first responders, CBRN mapping and real reconstruction image of the intervention zone 3. ERNCIP Technology Working Group topical (see bellow) "	2023-12-31	Technical systems	N
																	3021955	029	ERNCIP technology working group	"The ERNCIP thematic group on Radiological and Nuclear Threats to Critical Infrastructure (RN) explored different options for future action, and has agreed to work on the following topic: ""Requirements and capabilities needed for testing of robotic equipment carrying measurement devices for the detection of CBRNE threats in an authentic environment"" culminating in a report with 6 chapters (State of the Art, Technical requirements, Testing of (autonomous) robotic equipment, Requirements for using robotics at the Crime Scene Management, Regulatory requirements in light of the technical requirements of an ideal testing and training facilities and Alternative scenarios / Cost and gain comparison. Potential collaboration with EU defence organisations e.g. for testing facilities in real environment, Frontex (Eu border control service), TAXUD in addition to JRC-Geel (Paypen) and E1, E2 in Ispra"	2021-12-31	Technical Reports	N
																	3021956	031	Gamma/Neutron Irradiator DvelopmenT for radiation hardening tests	Rather strong neutron and gamma sources are used in the experimental setup. Manipulation of high intensity sources is very cumbersom. A source container should be designed that can be mounted on an expirmental setup, uncoupled and moved to the source storage without removing the source.	2022-07-31	Technical systems	N
																	3021957	033	Tomographic techniques applied to NS	Perform development amd implementation of algorithms as needed. Extend the tomograh system with active gamma and neutron sources and perform the development of a coupled analysis to identify areas of dense and active sources within barrels. .	2021-12-31	Sci information systems and databases	N
																	3021958	034	Tomographic techniques applied to NS Muons	Analyse the practical implications of using muons to characterize waste from algorithm point of view	2022-12-31	Sci information systems and databases	N
																	3022193	040	Verification Technologies and Methodologies for decommissioning (VTMDecom)	Based on agreement with G.III.9, deliver new version of 3DIMS. Potential extensions are: Document management, Reporting tools (change documentation), Gamma-camera support-layer, off-line DB system	2021-12-31	Technical systems	N
																	3022194	041	Verification Technologies and Methodologies for decommissioning (VTMDecom) Soil treatment	Based on result and conclusions from Soil-treatment feasibility study/tech. report; develop if deemed useful a prototype of scanning system to be tested on an experimental facility at JRC premises	2021-12-31	Technical systems	N
																	3022195	080	A Computational Approach for Passive Gamma Emission Tomography Image Reconstruction	The activity will explore a new computational approach to PGET image reconstruction which is based on two main components: i) a PGET Simulator that allows to efficiently generate a simulated sinogram given a proposed layout/composition of the fuel pins. The simulator will be implemented as ray tracing algorithm that benefits from modern CPU/GPU architectures. ii) a machine-learning algorithm that explores possible pin layouts/compositions until it finds the solution for which the simulated sinogram fits the sinogram generated by the real PGET.	2021-12-31	Technical Reports	N
																	3022196	081	Gamma Emulator consolidation	Make it an usable item. Store projects and documents on repository- Evaluate internal use from NDA pole	2021-03-31	Technical systems	N
																	3022197	082	Neutron emulator consolidation	Make it an usable item. Store projects and documents on repository- Evaluate internal use from NDA pole	2021-03-31	Technical systems	N
																	3022198	114	Enhancing waste charactersaition techniques	Sustain the operation of the facility and contribution to the development of technical specification for its upgrade with new instruments and new calculation and measurement methodologies	2022-12-01	Technical Reports	N
																	3022199	115	Characterisation of irradiated research nuclear fule,	40 years ago irradiated nuclear material in ESSOR pool under waste minimisation. Origen calculations are performed and others to be done. Then these theoretical assessment will be compared to experiment measurements that are planned within 2020 (Gioconda project)	2022-12-01	Technical Reports	N

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																	3022200	116	Exploration of emerging charaterisation techniques for special nuclear waste packages	Exploration of new CZT crystal arrays based NDA, Imaging (both gamma and possibly muon) in a pilot facility in JRC Ispra under a collaboration with CEA	2022-12-01	Technical Reports	N
																	3022201	117	Toward digital Data management making use of AR/VR applied in PERLA	In synergy with GIII9, AR & VR for nuclear safeguards and nuclear decommissioning and waste management, development of a pilot system based on VR/AR that includes up-to-date data transfer technologies for experimentation in a JRC Ispra facilty (PERLA) in a simulation of a nuclear safeguards or any task in nuclear decommissioning and waste management.	2022-12-01	Technical Reports	N
																	3022202	118	Exploration of new technologies in nuclear safegurads and security	Exploration for production of high energy gamma beam using laser scattering for Nuclear Resonance Fluorescence using European Synchrotron Radiation facilities	2022-12-01	Journal contributions (Scopus)	N
																	3022203	119	NDA DGS validation under MSSP to IAEA	support to JAEA to perform measurement with more SNM samples in Europe for the validation of the DGS technique for safeguards and security. discussion with JRC Karlsruhe and SCK CEN how all aspects can be organised within the coming 2 years.	2022-12-01	Journal contributions (Scopus)	N
																	3022204	137	Optimisation and inter-comparison of Codes for U and Pu isotopics determination	DG Energy (DG ENER) of the European Commission has requested the JRC to compare the performance of various software tools for determining the isotopic composition of plutonium in mixed-oxide (MOX) by gamma spectrometry. This will enable DG ENER to replace the outdated software and to gain confidence in the application of new software tools for safeguarding European nuclear installations.	2021-12-31	Technical Reports	N
																	3022205	138	Novel neutron dead-time correction methods using multi-channel list-mode analysers	The task concerns development of novel dead-time correction algorithms for neutron well-counters for safeguards. The new algorithms are applied in conjunction with so-called multi-channel list-mode analysers providing channel information about each individual neutron detection event. With this additional information a more sophisticated dead-time correction is possible compared to the standard method applied by safeguards inspectors today.	2021-12-31	Journal contributions (Scopus)	N
																	3022758	141	Analysis and diagnostics algorithms for list-mode devices	Well-counters for safeguards have multiple parallel electronics chains for the registration of neutron detection events. So-called list-mode devices acquire timestamp data of such neutron detections on multiple input lines. The present task concerns further improvement of analysis and diagnostics algorithms for such list-mode devices. The work is documented in Jupyter Notebook format with Python scripts for easy documentation and future extensions.	2021-03-31	Technical Reports	N
																	3022759	142	GUI interface for list-mode devices TDS8/TDS32 devices	The Time Digitiser for Safeguards was developed in two versions with 8 input lines and 32 input lines, TDS8 and TDS32 respectively. Both devices transfer data over the USB bus. In order to make the setting of acquisition parameters and visualisation during data acquisition easier to set up for the user, a user GUI interface will be developed.	2021-08-01	Technical systems	N
																	3022760	143	New prototype pre-amp/amplifiers for neutron gas proportional counters	Various pre-amp/amplifier prototypes for gas proportional counters will be designed and tested. One version is suitable for single 3He neutron counters, another is suitable for substituting the standard A-111 board used in many Euratom and IAEA well-counters for safeguards. Selected versions will be produced in larger numbers and tested in the BBNCC and JRC Drum Monitor.	2021-12-01	Technical systems	N
																	3022761	144	A prototype signal digitizer and analyser for slow charge pre-amp pulses	The prototype electronic board for a 8-channel signal digitizer (SDS8) was designed and built. The present task includes testing of the FPGA programme, and testing of the device with gas proportional detector pulses in the passive neutron reference counter.	2021-08-01	Technical systems	N
																	3022762	145	Refurbishment of front-end electronics of the JRC reference passive neutron counter	The JRC reference counter in the PERLA laboratory is a large well-counter for safeguards with very high efficiency and other favourable parameters. Following the refurbishment of the detector electronics, the improvements will be demonstrated to ENER for consideration of similar upgrades on infield instruments.	2021-12-01	Technical systems	N
																	3022763	146	Improvements of safeguards NDA instruments and methods	"R&D in support of ENER for improvement of safeguards NDA instruments and methods. Also included are calibration and testing of ENER instrumentation, in-field support to ENER, and support tasks with IAEA."	2022-12-01	Technical systems	N
																	3022764	147	Experimental campaigns for NDA method development	NDA method development through experimental campaigns in passive and active neutron counting with research partners at PUNITA facility, collaborations within Dir G, EU-MS, and internationally.	2022-12-01	Journal contributions (Scopus)	N
																	3022765	148	Support to NDA instrumentation of Decommissioning Unit	The passive/active neutron station at WCS requires some development work to complete the optimisation of components and measurement/analysis procedures. All procedures and algorithms will be in open sources form, thus eliminating completely the current proprietary software, to facilitate transfer of knowledge and future adaptations.	2022-12-01	Technical systems	N

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																	3022766	150	INS3L NDA infrastructure for liquid configurations	Design of a research infrastructure for NDA of instrumentation in liquid environments. The task concerns design of a facility suitable for the INS3L laboratory for R&D of nuclear materials embedded in either H2O and D2O environments. The facility will include storage and accountancy tanks , experimental tanks, pumping, sampling and filtering systems for maintaining the purity of the liquids. MCNP calculations are applied for the dimensioning of the facility."	2021-12-01	Technical systems	N
																	3022767	153	Acceptance algorithm for Pu spectra	Research concerning tools for the automated evaluation of Pu gamma spectra Describe the possibility of automated decision making of the question: Is there agreement between a measured gamma spectrum of Pu and the declared isotopic composition"	2022-12-01	Technical Reports	N
																	3022768	165	ITRAP R&D	The ITRAP facility in conjunction with EUSECTRA will focus on R&D and performance assessment Next Generation Equipment and Novel technologies and methods in nuclear security	2022-12-01	Technical Reports	N
																	3022769	189	ITRAP NORM	The ITRAP facility in conjunction with EUSECTRA will focus on NORM detection, algorithms, methods and management.	2022-12-01	Technical Reports	N
																	3022770	166	Post ITRAP Phase II and further standardisation	Following the successful completion of ITRAP+Ph II and HECTOS (both H2020 projects, as well as the ICONS2020 side event, the findings, experience and data gathered shall set the basis on which to explore avenues for a potential road map towards further standardisation and ultimately leading to certification of detection equipment in nuclear security.	2022-12-01	Contributions to standards	N
																	3022771	167	ITRAP Open Access	The ITRAP facility in conjunction with EUSECTRA will focus on Open access laboratory for R&D and serve member states and partners including H2020 projects where JRC are partners (e.g ENTRANCE, CBORD follower)	2022-12-01	Contributions to standards	N
																	3022772	025c	IPNDV and support to EEAS	Support to EEAS and International Partnership for Nuclear Disarmament Verification . The current Phase III is focused on technology challenges and solutions, measurements and testing. An official management decision is required on whether to withdraw this support despite the ex-DG (sucha) commitment for continued support ; which would be politically damaging and hinder the presence of the EU within this international Initiative. This would involve attending plenary and technical working group meetings (2-3 days long) about 2 to 3 a year."	2022-12-01	Technical Reports	N
																	3022773	168	Support to BMWG and Techical sub-Group	BMWG (plenary, capacity building and technical sub-group (HT is chair)	2022-12-01	Technical Reports	N
																	3022774	169	Security and safeguards Intl.	DOE-EC and CEA-EC steering committees for nuclear security and safeguards etc..	2022-12-01	Technical Reports	N
																	3022775	170	Gamma/Neutron Imager R&D and Training	Site Acceptance Testing and performance evaluation of gamma and neutron imaging and training: Phase II.: neutron imaging and upgrades in medium resolution gamma-ray imaging (May-June , pandemic dependant) Phase III: high resolution gamma-ray imaging (Nov 2020 – March 2021 pandemic dependant)"	2021-12-01	Technical Reports	N
																	3022776	171	Gamma/Neutron Imager 3D Integration	Integration of Gamma/neutron imaging and 3 D laser technology: As discussed and intended with Gunnar and ANSTO	2022-12-01	Technical systems	N
																	3022777	172	Gamma/Neutron Imager Riga Integration	Explore possible Integration of Riga cryostat.	2021-12-01	Technical systems	N
																	3022778	063	Application of a D-D generator for DGS development and for other active NDA technique using with gamma spec	Survey on commercially available D-D neutron generator, define technical specifications for procurement in parallel with a plan for the licensing process and carry testing campaigns.	2021-12-01	Technical systems	N
																	3026872	020	Performance evaluation of the LiZnS NCC using the list-mode device TDS32.	Evaluate and compare digital list mode data acquisition/pulse train recorders, the PTR32 (developed by the Hungarian EK-MTA and IAEA adopted) and the new unit that was successfully developed at the JRC Ispra. The LIZnS neutron coincidence counter shall be used having 32 channels like both digitisers. In particular count losses and cross-talk effects shall be investigated and assessed.	2022-12-15	Technical systems	N
																	3026873	187	Modernization of work methodologies in NDA INS3L activities	Analyse, design and develop work methodologies for the new INS3L laboratory for more efficient management of instruments, setups and experiments. Analyse the needs of new setups from the unit activities. Develop new solutions and implement tests and experiments. Maintenance and upgrade of existing instruments and equipment.	2022-12-15	Technical systems	N
																	3040380	025b	Develop and upgrade the dynamic testing system of ITRAP	1) Modernise and upgrade the dynamic testing system for passing speeds up to 30 km/hr. 2) Modernise and upgrade the DCS data acquisition and analysis system "	2022-12-15	Technical systems	N
																	3040381	140	In situ testing of iMAP software updates	As a support task to ENER, new versions, or updates, of the iMAP software are tested under real conditions in the lab using actual instrumentation prior to being implemented in field for use by the inspectors.	2022-12-15	Technical systems	N

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4. A Stronger Europe in the World	4.6 Global dimension of nuclear research	20075	GloNEx	Strengthening Global Partnership in Nuclear Expertise	JRC.G.II.7	30331	NUCLICS	Data analytics for nuclear safeguards and non-proliferation applications	In times of 'big data', the growing availability of data is not matched by a corresponding ability to make sense of data, support sense-making, inform decisions and policies in a timely fashion. NUCLICS provides expertise, makes use of state-of-the art data analytics methodologies and off-the-shelves tools for business intelligence focusing on data sources in the domains of nuclear safeguards and non-proliferation. The goal is to support the work of nuclear inspectors, analysts and policy officers by making available data sets, processing techniques, and complete analytical products that will reflect new expressed needs and respond to new questions. For example, ENER is planning to build a new centralized safeguards data repository at headquarters. It is expected that such repository will open new possibilities to perform statistical analysis on acquired measurement data with novel cross-sections of data (e.g. for outlier's detection, process control) in order to support effectively inspectors' decisions and monitor the performance of safeguards equipment. As a second example, the IAEA Department of Safeguards is making use of open source data on international trade for non-proliferation assessments since several years with JRC support. NUCLICS will continue to support the IAEA by identifying emerging trade data sources and in the competent use of visualisation techniques already in use in the context of IAEA analytical tasks. As a third example, in relation to the EC policies for export controls of strategic items, the project will continue to support TRADE and DEVCO requests for trade analyses in support to the design, implementation and	JRC.G.II.7	ENER	TRADE JRC JRC JRC	INTPA TAXUD TRADE	2021-01-01	2022-12-31	CON-AA INS-ER INS-RS INS-UR	3011105	122STA	Strategic Trade Atlas	A Strategic Trade Atlas is developed to promote understanding of global trade flows of strategic goods, i.e., goods of militarily strategic value, including dual-use goods. The Atlas provides macroscopic graphical representations of global trade flows classified under Harmonized System codes associated by the World Customs Organization (WCO) with strategic commodities. Efforts to promote and facilitate use of trade data should enhance the effectiveness and efficiency of strategic trade control efforts. Collaborative work between US-DOE and JRC. This Atlas has become a reference tool for several organisations active in the area of export controls of strategic goods.: Beyond the WCO, also the EU-P2P program for EU outreach funded by DG DG DEVCO and the US-EXBS counterpart program are making use of the Strategic Atlas. Also adopted by the UNSRC 1540 Group of Experts.	2022-11-01	Sci information systems and databases	N
																	3011107	120NTA	Nuclear Trade Atlas	Atlas to portray the world trade in relation to the Nuclear Suppliers Group lists of nuclear and nuclear-related items recommended for export control. Collaborative work between US-DOE and JRC for the development and application of visualization tools to open source trade statistics in support of nuclear-related trade controls.	2022-12-01	Books	N
																	3011186	125TA4EU	Trade analysis for EU dual-use Regulation	Detailed analysis of export data for EU dual-use export controls in relation to Regulation 428/2009. Makes use of statistical data (COMEXT by ESTAT) and, when available, of disaggregated export declarations provided by traders to customs authorities (Surveillance-3 data by DG TAXUD).	2022-12-01	Technical Reports	N
																	3011292	26NTADAT	BACI data for NTA	World raw trade data (source: BACI by CEPII) and economic indicators included in Nuclear Trade Atlas. Reference basket of commodities as per Nuclear Suppliers Group Technical Handboosk. Yearly refresh. Published on Tableau Server and JRC open data catalogue.	2022-12-01	Datasets	N
																	3011294	28STADAT	BACI data for STA	World raw trade data (source: BACI by CEPII) and economic indicators included in Strategic Trade Atlas. Reference basket of commodities as per World Customs Organization's Strategic Trade Control Enforcemet Guide). Yearly refresh. Published on Tableau Server and JRC open data catalogue.	2022-12-01	Datasets	N
																	3011296	173DA4NM	Data analytics for nuclear measurements	ENER is building a centralized measurement data repository at headquarters. Such repository will open possibilities to perform statistical analysis on the acquired measurement data (e.g. for outlier's detection, process control) in order to support inspectors' decisions and monitor the equipment performance. The goal of this activity is to test a combination of statistical and visualisation approaches to provide insights on a number of new questions expressed by ENER's services. It is anticipated that some use cases will focus on the evaluation of the Operator-Inspector Difference (OID) and monitor performance over time in: (1) Active neutron measurements on Highly Enriched Uranium items performed with an Active Well Coincidence Counter (AWCC) and in (2) Measurements on Plutonium bearing items.	2022-12-01	Technical Reports	N
																	3011297	COMEXTD	COMEXT data for trade analysis	EU raw trade data (source: COMEXT by ESTAT). Reference basket of commodities as per DG TAXUD Correlation Table for EU dual-use export controls in relation to Regulation 428/2009. Refreshed every 4 months. Published on Tableau Server.	2022-12-01	Datasets	N
																	3020729	131TBT	The Big Table	IT search tool applied to a set of reference document relevant for IAEA's safeguards and dual-use export controls. The document collection includes regulatory documents, technical handbooks and the Harmonized System trade nomenclature. For use by trade analysts and licensing authorities for export controls . The document collection is updated on a yearly basis following document revisions as provided at the source.	2022-12-01	Sci information systems and databases	N
																	3022499	134DAI	Data analytics infrastructure	Off-the-shelf data analytics tools for use in G.II.7. A complete environment is based on Tableau software (Desktop for authoring, Server for publishing, Prep for data preparation). Other simpler tools for one-off uses will be selected and acquired as a result of a survey. Possibly complemented by fff-the-shelf tools for data scraping and efficient data download/refresh procedures from the web (e.g. live web data connectors).	2022-12-01	Sci information systems and databases	N
																	3022500	136DAT	Training on data analytics	(1) Lectures organized with world class speakers in data analytics (open JRC wide attendance). (2) Training provided on the fundamentals of Tableau software. (3) Data analytics clinics: short term consultancies to G.II.7 colleagues upon their request.	2022-12-01	Training	N
																	3022501	DLTS4PM	DLT Sensors & process monitoring (to be deleted)	Extension Use Case 1: Canister authentication with DLT in collaboration with project "Copper Canister Identification & Authentication".	2022-12-01	Technical Reports	N

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																	3022596	58DLT4IDM	DLT-based IDMS for safeguards sensors & process monitoring	"Public blockchains" may enable novel Identity Management Systems that are less dependent on a trusted third party to authenticate an entity and reduce the data to be shared to prove the identity. In the "Shared Ledger Technologies for Safeguards" project a blockchain-based Public Key Infrastructure demonstrated how, using such technology, no one is able to alter the digital identity of a safeguards surveillance camera without leaving any trace of alteration. Based on this result, the following will be investigated: (1)JRC unit G.II.7 is developing a new digital seal for nuclear material canisters to allow the real-time notification of all the status change detected. This project aims at understanding if the security of this seal may be increased with a blockchain-based PKI (2)In the future there may be cases where the safeguards sensor network is co-managed by the site operator. This project aims at studying if novel IDMSs can increase the system resiliency from cybersecurity threat	2021-12-01	Sci information systems and databases	N
																	3022597	57DLT4NMA	DLT for Nuclear Material Accountancy	This project will expand the "Shared Ledger Technologies for Safeguards" (SLT4SFG) exploratory research project into two lines of research. First, this project will propose a software prototype for a pilot within EURATOM Safeguards integrating Regulation 302/2005 (EURATOM) and Code 10 (IAEA). The goal is to assess advantages and constraints about sharing a ledger for both EURATOM and IAEA Nuclear Material Accountancy and Control systems. Secondly, this project will design of a prototype software implementation for tracking a single nuclear material batch by applying the "tokenisation" (Digital Twin) technique. Tokenisation allows to create a digital counterpart of batch measurements recorded on a distributed ledger, with its business logic encoded as a smart contract. The proof of concept will compare the level of data granularity and accessibility of elemental measurements of a nuclear material batch tracked on a distributed ledger against current batch data tracking techniques.	2021-12-01	Sci information systems and databases	N
																	3022598	_T4NMACD	DLT NMAC Digital Twin (to be deleted)	Extension of use case 2 – Feasibility study and design of a Proof of Concept for tracing the single nuclear material batch by applying the "tokenisation" (Digital twin) technique as an alternative way to perform Nuclear Material Accountancy	2022-12-01	Technical Reports	N
																	3022599	160DLT4RF	DLT Radiation Protection	The Qualified Expert Office of Ispra Site has developed in the last years a new IT system to treat, in a digital way, all the data related the radiation exposure of JRC personnel in compliance to the Italian Decree nr. 230/1995. Such a system is planned to be deployed also on JRC's Geel site. Considering that the radiation protection is a responsibility of each Member State, and as such each site is responsible only for its own data and its own personnel, a DLT based system may be used as a second layer to guarantee the integrity of radiation protection data of each member of the staff while he travels between one site and the other. This project aims at (1) verify the feasibility of such a system and (2) design the architecture of a common JRC-wide system to treat radiation protection data.	2022-03-01	Technical Reports	N
																	3022600	61DLF4EXF	DLT Export Control	This project aims at building proof of concepts and tests on Distributed Ledger Technology applications for export control. The advantages compared to current practices based on independent databases and, in part, paper documents prone to forging are higher automation in issuance and distribution of contracts, version control, avoidance of duplicate documents and real-time tracking by all interested stakeholders. Results in this domain can then be integrated with other G.ii.7 unit projects dealing with DG TAXUD such as "Monitoring the export of commodities to destinations subject to target measures" while exploiting, for instance, the JRC Experimental Platform for Internet Contingencies (EPIC) already used for a successful test for TAXUD using DLT.	2022-05-01	Technical Reports	N
																	3022654	162DLT4D	DLT Decommissioning	JRC's Ispra Site has started the decommissioning of the site with the final goal of making it a "non-nuclear" zone in some decades. There will be a to keep track of all data related to the decommissioning activities, especially with the purpose of being able in the future to demonstrate "what has been done, when and by whom". Considering the data integrity properties that a DLT based system may have if well designed, a study to understand if such technologies may answer to this requirement should be conducted. This project aims at verify (1) if using these technologies indeed bring an added value to the decommissioning activities and (2) what would be the architecture or design principles that such a system should respect to deliver what requested.	2022-07-01	Sci information systems and databases	N
																	3022655	DLT4AI	DLT and AI (To be deleted)	Using DLT as an oracle for machine learning algorithms applied to nuclear safeguards for business intelligence.	2022-12-01	Technical Reports	N
																	3022656	DLT4KM	DLT and Knowledge Management (to be deleted)	Further develop a methodology for the study and implementation of DLT within the European Commission - starting from the work done in SLT4SFG and following use cases, abstract a methodology for DLT that can be adapted to the Commission's needs e.g. business process discovery and validation, DLT prototype requirements and implementation, analysis, recommendations to go in production. Link all the useful activities from 2019 to 2024 to build the evolutionary methodology. Also how to make DLT regulatory compliant as a methodology to be extended to other DGs.	2022-12-01	Technical Reports	N
																	3022683	DLT4IT	DLT and IT GRC Management (to be deleted)	DLT as a tool for IT Governance, Risk management and Compliance (IT GRC management) in nuclear security and safeguards: DLT compared with current DG ENER practices real-time reporting, auditing, breaking silos, changes in technology, increasing data storage. Impact analysis on processes, people, technologies and information.	2022-12-01	Technical Reports	N

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																	3031104	DLT4NDMv	DLT Systems in nuclear related data management systems	This deliverable will gather the best performing DLT prototypes resulting from the research performed in the use cases stemming from the "Shared Ledger Technologies for Safeguards" (SLT4SFG) project and its extensions in the context of the NUCLICS project. The goal of this technical report on nuclear related data analytics is to systematise the most promising innovations researched in the domains of process monitoring, nuclear material accountancy, radio protection, and decommissioning. The goal is to offer a comprehensive view on the DLT prototypes developed for each use case to connect them in the broader context of nuclear related data analytics techniques developed in the NUCLICS project	2022-10-01	Technical Reports	N
4. A Stronger Europe in the World	4.6 Global dimension of nuclear research	20075	GloNEx	Strengthening Global Partnership in Nuclear Expertise	JRC.G.II.7	30332	STRIKE	Strategic dual-use Trade control for Non-proliferation and Global issues	Strategic trade control developed as response to proliferation events and the entry into force of the Non-Proliferation Treaty. The history of proliferation has shown that the illicit procurement of strategic goods and technologies, rather than of turn-key facilities, has become a key concern in the development of competences and capabilities to develop weapons of mass destruction. Most of the countries which constituted a nuclear proliferation concern in the last two decades in fact had no access directly to nuclear materials, but managed to put their hands on technology and knowledge to produce and/or process such materials, as well as other threatening tools and their delivery means. This has been tackled by the progressive definition of an export control framework based on legally binding instruments, like the Chemical Weapons Convention, or political instruments like the international export control regimes and their guidelines. In a broader context, strategic, or "dual-use", are items with both civil and military applications, including systems, equipment, components, materials, software and technologies for manufacturing, aerospace, electronics, chemical, biological and medical, nuclear, telecommunications, cyber-security, marine, navigation, avionics, laser applications, energy production and many other including human rights protection, of which the EU is a large supplier and trader. The control of their trade, also intangible when dealing with technology or know-how, is required by the EU dual-use regulation. Also Sanctions measures and the EU common military list foresee limitations of prohibitions of	JRC.G.II.7	TRADE	INTPA JRC	ENER INTPA TAXUD	2021-01-01	2022-12-31	CON-AA INS-RS	3022691	011	Export Control Internal Compliance	Preparation of an awareness raising session for JRC directorates explaining strategic trade control's issues and obligations in general and with respect to dual-use research, and how to comply internally (seminars, material, initial risk assessment).	2022-12-15	Training	N
																	3022833	012	EU dual-use Pool of experts for export control authorities	Operation of an EU pool of experts answering questions of EU national export control licensing authorities about technical interpretation of export control of strategic dual use goods. This activity is in place since 2011 and highly appreciated by EU-27's representatives at the Council Dual-use Working Party.	2022-12-15	Technical Reports	N
																	3022955	085	International Science and Technology Centre (ISTC) Targeted Initiative education & Training	Technical and project management support for 2021 ongoing projects (national handbooks, Internal Compliance Program (ICP) models, master programme) - Provision of trainings	2021-12-31	Training	N
																	3022985	086	Support to the Council Dual-use Working Party and Dual-use Coordination Group	Support to the implementation of the dual-use Regulation, in follow-up to the new legislation Recast's results.	2021-12-15	Technical Reports	N
																	3022986	099	EUP2P Vulnerability assessment methodology	The selection of priority third countries where export control cooperation can be implemented depends on several factors and indicators. The JRC has defined a EU methodology for identifying priorities for the EU's capacity building activities, upon assignment by DG DEVCO. The methodology also aims at estimating projects' impact. DG DEVCO has outsourced the testing and implementation of the EU methodology to the Belgian SCK-CEN. JRC will be in charge of the following: - Monitoring and joint coordination with DEVCO of the contact with the SCK - Direct contribution to the implementation of this contract (Data collection and analysis for the export control pillar)	2021-12-15	External study reports	N
																	3023009	100	EU partner to partner programme of export control cooperation (EUP2P) progress review	The EU P2P programme is managed by DG DEVCO and contracted to an EU consortium made up by the French and German export control authorities plus other partners. DG DEVCO has assigned to the JRC the task of analysing the progress of the projects included in the programme and supporting the design of the next phase. This includes providing: - Six months progress review for Project 64 & Project 38 - Drafting of terms of reference - technical responses and support to DG DEVCO on a daily basis	2021-12-15	Technical Reports	N
																	3023034	101	EU partner to partner programme of export control cooperation (EUP2P) knowledge management and Communication	The EU P2P programme is managed by DG DEVCO and contracted to an EU consortium made up by the French and German export control authorities plus other partners. DG DEVCO has assigned to the JRC the task of organising the communication about the progress of the projects included in the programme. This includes providing support to and direct implementation of communication activities for the EU P2P export control outreach programme, consisting of: - Six-monthly draft and publication of the EU P2P Newsletter - Annual update of the public website of EU P2P Programme - Maintenance and annual update of the private P2P platform on CIRCA BC	2021-12-15	Sci information systems and databases	N

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																	3024823	103	Export control capacity building	Conception, organisation and provision of trainings for both EU and third country officers. 2021 events: - JRC-NNSA Joint seminar - EU Inreach training - Organisation of Commodity Identification Workshop for third countries - Organisation of Summer University (organisation-curriculum - lectures)	2021-09-30	Training	N
																	3025309	104	TIM Dual-Use Project	Continue the development of the TIM dual-use space including mapping of the items controlled in the ""EU dual-use control list"" (Annex I to Regulation 428/2009) and emerging technologies in the data-mining tool based on open source data TIM (Tools for Innovation Monitoring) in order to detect potentially sensitive dual-use technology transfers. Improve the inclusion of additional sources to TIM through the inclusion of media news from the EMM (Europe Media Monitoring) tool creating dual-use tailored EMM categories. Deliverable to include various components and continue the collaborations with Dir. E, Dir. I started in 2020. Dir. E will help as possible the refinement of TIM dual-use by experts in the various multi-disciplinary areas of the queries defined in 2020 by the STRIKE project STRIKE will supporting its expansion to the defense area, or the definition of a complementary TIM defense one by Unit E7.	2021-12-15	Sci information systems and databases	N
																	3028666	107	Launch of a Competence Centre on Strategic dual-use Trade Controls	Upon approval by the JRC Directoire, definition of the new Competence centre, liasing and coordination with the main policy DG and the community of practice. Launch of the Centre.	2022-06-15	Validated methods, reference methods and measurements	N
																	3028668	110	Emerging dual-use technologies	Provision of technical advice about the export control relevance of selected emerging dual-use technologies, based on the continuation of an activity launched by DG TRADE in 2020. The support will be provided by the STRIKE project in collaboration with cross-JRC experts in the various related research areas, as available.	2022-12-15	Technical Reports	N
																	3028669	174	Contribution to the Internal Compliance Technical Expert Group chaired by DG TRADE	Contribution to the Internal Compliance Technical Expert Group chaired by DG TRADE defining Internal Compliance Programmes guidelines for industry and research organisation, and follow up activities as requested ad hoc by DG TRADE	2022-12-15	Training	N
																	3028748	175	Coordinate the export control activities included in the DEVCO-JRC AA	Coordination and reporting of the export control activities included in the Administrative Arrangement DEVCO-JRC on CBRN Centre of Excellence Risk Mitigation and its follow up, or alternative new AAs.	2022-06-30	Technical Reports	N
																	3028749	176	Management of the TRADE-JRC AA 2019-2020	Coordination and reporting of the TRADE-JRC AA including support activities to the implementation of the dual-use Regulation 428/2009	2021-06-30	Technical Reports	N
4. A Stronger Europe in the World	4.6 Global dimension of nuclear research	20075	GloNEx	Strengthening Global Partnership in Nuclear Expertise	JRC.G.II.7	30333	MEDAKNOW	Methodologies and Knowledge Management for nuclear non proliferation, safeguards and security	The peaceful use of nuclear materials and technologies requires the implementation of technical and institutional measures to ensure that such materials and technologies are employed as declared. This project focuses on the creation, management and sense-making of collective (scientific) knowledge in the field of nuclear non-proliferation and Security, to enable the international nuclear safeguards communities (within the EU and worldwide) to reach confidence that nuclear materials and technologies are used as intended while having to rely on a wide variety of information, with different degree of completeness and dependability. Given its mandate under the Euratom Treaty and the broad non-proliferation and nuclear safeguard competences available, the JRC is in a unique position to provide effective support in this context.	JRC.G.II.7	ENER	JRC	EEAS JRC	2021-01-01	2022-12-31	INS-RS	3013740	3MEDAKNO	Open Source Information for Nuclear Safeguards and Non-Proliferation	Collection and analysis of Open Source information to support nuclear safeguards and non-proliferation. It includes operational activities for internal use and in support of other EU services (e.g. daily generation of the JRC Nuclear Security News); maintenance of the required IT infrastructure (Nuclear Security Media Monitor-NSMM https://nsmm.emm4u.eu/ and Nuclear Security News Archive-NSNA). Activity done in collaboration with I3. Provides alerts on non-proliferation issues and operates and maintains the related infrastructure.	2022-12-23	Sci information systems and databases	N
																	3013859	7MEDAKNO	ESARDA Operation and Secretariat	Operation and Secretariat of the European Safeguards Research and Development Association, ESARDA (https://esarda.jrc.ec.europa.eu/). This includes management of Steering Committee and Executive Board's meetings organisation, reporting; networking with members and other organisations; maintenance and development of communication platforms; archiving and library; editing and publication of the ESARDA Bulletin (https://ec.europa.eu/jrc/en/publication/esarda-bulletin-n-59) and of the Connector newsletter (https://ec.europa.eu/jrc/en/publication/newsletters/esarda-connector-issue-1); Annual meetings' programme management and publication of proceedings; interaction with WGs and general follow-up of the association's evolution and strategy. The activity liaises with the organisation of ESARDA course.	2022-12-23	Journal contributions (Scopus)	N

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																	3013860	0MEDAKNC	Proliferation resistance and Security of Small Modular Reactors	Under the label of small modular reactors many different designs are proposed worldwide. The goal is to acquire knowledge of evolving SMR designs from a proliferation resistance point of view, with an eye on future SMR deployment in the EU. Depending on the available information and resources, security and physical protection aspects will also be considered, focusing on the synergies with safety. The activity foresees synergies with JRC project SINUS and plans to receive input from the indirect actions related to SMRs in which JRC is participating, as well as from other international initiatives.	2022-12-23	Technical Reports	N
																	3013972	0MEDAKNC	EURATOM representation in GIF Proliferation Resistance and Physical Protection WG	Ensuring the role of EURATOM implementing agent of JRC within the Generation IV International Forum Proliferation Resistance & Physical Protection Working Group (GIF PRPPWG - https://www.gen-4.org/gif/jcms/c_9365/pr-pp); coordination of the group's activities in the role of co-chair; contribution and support to the group's work programme activities. In synergy with other GIF activities carried out by JRC	2022-12-23	Journal contributions non-listed	N
																	3014010	2MEDAKNC	R&D on Non-proliferation concepts and synergies	R&D on concepts and methods to support the effective application of the IAEA State-Level Concept (SLC); R&D on the potential of OS information in supporting the non-proliferation regime; potential synergies in safety-safeguards and safeguards-security interfaces. The activity is also linked to the support tasks to the IAEA in the above mentioned areas and provides the necessary underpinning research.	2022-12-23	Journal contributions (Scopus)	N
																	3014124	3MEDAKNC	Remote monitoring/verification of nuclear fuel cycle facilities	Investigate the potential of remote monitoring of nuclear fuel cycle facilities' operational status and production capacity via remotely gathered observables; the activity aims at developing a model for correlating remote observables with the operational status and the production capacity of nuclear facility via the construction of a process model based on known ground truth. Focus will be on available in-situ data, satellite imagery and other data potentially available through the Copernicus programme. This deliverable is conditioned to selection by an exploratory research call. Preparation and submission time will be based on overall project priorities	2022-12-23	Technical Reports	N
4. A Stronger Europe in the World	4.6 Global dimension of nuclear research	20075	GloNEx	Strengthening Global Partnership in Nuclear Expertise	JRC.G.II.7	30928	STCB	Safeguards Training and Capacity Building	The project aims at coordinating the different training courses on nuclear safeguards that are provided by JRC mainly on the sites of Ispra and Karlsruhe. Beside the provision of training courses on NDA techniques, tank calibration, containment and surveillance techniques, verification techniques, complementary access for nuclear safeguards for various organizations, in particular DG ENER, IAEA and JAEA, this project aims at also building capacities on new techniques and methodologies for safeguards through dedicated R&D that will be undertaken. Moreover, the coordination of these training activities is of outmost relevance to avoid fragmentation and duplication of effort among the different JRC Sites. This coordination aims also at harmonization and standardization within JRC through the different provided training courses. This concerns the content of the course, the duration, the preparation, the evaluation, the resources, etc. Trainings can be delivered both by JRC or external experts (pool of experts, subcontracting) depending of the context, in-house expertise and legal mandate (e.g. Euratom inspectors only JRC). STCB project.includes the yearly organization of the international course on nuclear safeguards and non-proliferation (ESARDA Course).	JRC.G.II.7	ENER	INTPA JRC	INTPA	2021-01-01	2022-12-31	CON-AA INS-UR	3025799	1	STCB Trainings 2020-2021 Delivery	Technical report on the delivered safeguards training courses courses (programme, teachers, training material, etc.) delivered in the period 2020-2021 organized or supported by GII7 Unit.	2021-12-31	Technical Reports	N
																	3025822	190	Support to ENEN/DEVCO	JRC will support ENEN in the implementation of the project on nuclear safeguards education (contract with DG DEVCO under INSC) to enhance sustainability of the initiatives undertaken by JRC such as in SEA, Africa or in EU. At the first phase JRC will participate to the scientific advisory meetings, support in providing suitable platforms for organizing training events is nuclear safeguards. In the second phase, the support of Ispra will possibly extended to others field such as export control of dual use commodities and nuclear forensics.	2022-12-31	Technical Reports	N
																	3032236	024	Training of Euratom inspectors in Monte Carlo modelling and Monte Carlo based Tools	Explore the feasibility and user need to provide once a year a 3 days Introductory Training to Euratom inspectors on Monte Carlo modelling in general and monte Carlo based tools such as XfuelBuilder etc.. in particular	2022-12-15	Training	N
																	3032237	095	CBRN CoE Portal	CBRN CoE Portals according to AA with DEVCO, Instrument for Stability and Peace, under the heading for EU in the world	2022-12-15	Technical systems	N
																	3032238	111	Safeguards Training and Capacility Building	Trainings in Nuclear safeguards, GII7 training coordination for partner organisations including anticipate new training needs for EURATOM	2022-12-15	Training	N
																	3032239	112	Yearly ESARDA Course organisation and developement of a new edition of ESARDA course syllabus	This includes management of the ESARDA course exam oeganisation and selection of potential exam output for scientific publications.	2022-12-15	Training	N
																	3032240	113	Support to CBRN CoE Implementation	Coordination within GII7 of the CBRN CoE support activities. Project implementation evaluation, review on new project proposals, participation and contribution to NFP/RTM/TF meetings and coordination of NAQ/NAP mission regarding RN.	2022-12-15	Technical Reports	N
																	3032241	149	Training competences in neutron assay	Competence building in NDA neutron training courses in safeguards for ENER, IAEA, JAEA, for students, and for professionals in decommissioning	2022-12-15	Training	N

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																	3032242	023	EUSECTRA FLO training in NS	About two 1 week training per year of FLOs and tariners of FLOs in EUSECTRA - Focus would be on use of novel dechnolgy detections systems and methods and reachaback.	2022-12-15	Training	N
4. A Stronger Europe in the World	4.6 Global dimension of nuclear research	20075	GloNEx	Strengthening Global Partnership in Nuclear Expertise	JRC.G.II.7	31380	SLT4SFG	Shared Ledger Technology for Safeguards	This project aims at exploring the use of Shared Ledger Technologies (SLT) in the context of EURATOM nuclear safeguards. A key element in safeguards is the verification, in nuclear plants, of the presence of declared nuclear materials in order to prevent their diversion for non-peaceful applications. It is of utmost importance that this information is reliable and timely, and that it is securely transferred to EURATOM headquarters. Traditionally, transactions between parties are managed by means of a ledger in which the transaction is recorded once it is verified and confirmed that it took place. A ledger is kept locally and managed by one central authority. More recently, digital SLT have been developed based on encryption algorithms and distributed validation mechanisms allowing to disseminate a ledger across peers and to manage it in a decentralised way, without the intervention of a central body. Transactions are then securely stored in an immutable blockchain which makes the system robust for single points of failure, increases transparency and allows an automated verification of the consistency, the validity and the uniqueness of the transactions.Being so far mainly deployed in a financial context, the technology could theoretically be used in any context where transactions take place, potentially implying efficiency gains and increased robustness against attacks. In addition, it gives the possibility to apply smart contracts (business rules to be run automatically and in an immutable and distributed way).In nuclear safeguards, the use of SLT could mean a change in the paradigm for the central bodies involved. The potential of the new technology seems	JRC.G.II.7	ENER	JRC	INTPA TAXUD TRADE	2021-01-01	2021-11-30	INS-ER	3090363	57DLT4NMA	DLT for Nuclear Material Accountancy	This project will expand the “Shared Ledger Technologies for Safeguards” (SLT4SFG) exploratory research project into two lines of research. First, this project will propose a software prototype for a pilot within EURATOM Safeguards integrating Regulation 302/2005 (EURATOM) and Code 10 (IAEA). The goal is to assess advantages and constraints about sharing a ledger for both EURATOM and IAEA Nuclear Material Accountancy and Control systems. Secondly, this project will design of a prototype software implementation for tracking a single nuclear material batch by applying the “tokenisation” (Digital Twin) technique. Tokenisation allows to create a digital counterpart of batch measurements recorded on a distributed ledger, with its business logic encoded as a smart contract. The proof of concept will compare the level of data granularity and accessibility of elemental measurements of a nuclear material batch tracked on a distributed ledger against current batch data tracking techniques.	2021-12-01	Sci information systems and databases	N
																	3090365	58DLT4IDM	DLT-based IDMS for safeguards sensors & process monitoring	"Public blockchains” may enable novel Identity Management Systems that are less dependent on a trusted third party to authenticate an entity and reduce the data to be shared to prove the identity. In the “Shared Ledger Technologies for Safeguards” project a blockchain-based Public Key Infrastructure demonstrated how, using such technology, no one is able to alter the digital identity of a safeguards surveillance camera without leaving any trace of alteration. Based on this result, the following will be investigated: (1)JRC unit G.II.7 is developing a new digital seal for nuclear material canisters to allow the real-time notification of all the status change detected. This project aims at understanding if the security of this seal may be increased with a blockchain-based PKI (2)In the future there may be cases where the safeguards sensor network is co-managed by the site operator. This project aims at studying if novel IDMSs can increase the system resiliency from cybersecurity threat	2021-12-01	Sci information systems and databases	N
																	3090366	160DLT4RF	DLT Radiation Protection	The Qualified Expert Office of Ispra Site has developed in the last years a new IT system to treat, in a digital way, all the data related the radiation exposure of JRC personnel in compliance to the Italian Decree nr. 230/1995. Such a system is planned to be deployed also on JRC’s Geel site. Considering that the radiation protection is a responsibility of each Member State, and as such each site is responsible only for its own data and its own personnel, a DLT based system may be used as a second layer to guarantee the integrity of radiation protection data of each member of the staff while he travels between one site and the other. This project aims at (1) verify the feasibility of such a system and (2) design the architecture of a common JRC-wide system to treat radiation protection data.	2022-03-01	Technical Reports	N
5. Promoting our European Way of Life	5.1 Migration and asylum	20394	DKMD	Data and Knowledge for Migration and Demography	JRC.E.6	30376	E4NPMA	Evidence for the New Pact on Migration and Asylum	The project directly addresses the provision of scientific evidence, data and knowledge for the policy areas that will be covered by the New Pact on Migration and Asylum, that has been announced as part of the Commission Work Programme 2020 under the priority “Promoting our European way of life”. The new Pact builds on the 2015 European Agenda on Migration and will be adopted in the second half of 2020. The European Agenda provided the framework for the EU response to the 2015 so-called refugee crisis. Similarly, the New Pact is expected to take into account the COVID-19 crisis, which has and will have an impact on migration and asylum flows. Vis-à-vis these shocks, the project will provide evidence and foresight to make the EU migration and asylum policy more resilient. The Pact calls for a more comprehensive and integrated approach to Migration and Asylum, as well as to its internal and external dimension. The reform of the Common European Asylum System continues to be an essential part. In this context, the project objectives are fully aligned with the relevant priorities set-up in the Action Plan of the EC-KCMD and contributes to their implementation.	JRC.E.6	HOME	JRC	CNECT ECHO EEAS ESTAT INTPA JRC NEAR RTD SG	2021-01-01	2022-12-31	INS-RS	3006761	001	Migration management on the external and internal dimension: towards a stonger alignement	The report will analyse the relationships between internal and external dimension in migration management. Depending on the content of the New Pact on Migration and Asylum, the following relationships can be further explored: relationship between irregular migration (including return and readmission) and legal pathways (asylum and work related); development and regular and irregular migration in addressing the root causes of migration.	2022-12-31	Technical Reports	N
																	3017539	002	Indicators to measure policy phenomena in the area of asylum	The report will investigate the existing indicators to measure asylum-related phenomena (e.g. border procedures, solidarity mechanisms, pressire). Specifically, it will analyse them from a methodological point of view, identify strengths and weaknesses of each measurement, and will suggest possible impovements. These may concern data collection as well as the analytical use of the data.	2021-12-02	Technical Reports	N
																	3033693	003	Ad hoc support in the area of return	This report will provide ad hoc support in the area of return following requests by our partner DGs and the policy developments.	2021-12-15	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
5. Promoting our European Way of Life	5.1 Migration and asylum	20394	DKMD	Data and Knowledge for Migration and Demography	JRC.E.6	30420	DDH	Dynamic Data Hub	In the framework of the priorities of the new Commission emphasis was placed on the need 'to strengthen evidence-based policymaking and identify long-term trends on which we need to act and about which we need to know more.' This project will continue and further develop the work carried out by the Knowledge Centre on Migration and Demography of the EC in implementing the above-mentioned overall objective in the field of migration and demography. As Migration will continue to have an important role in the framework of the EU policies and Demography is now receiving a growing attention in the same context with the creation of a dedicated portfolio. The project will support an evidence-based policymaking through a combination of managing and synthesising existing knowledge, building practical tools and carrying out training and workshops on how to access, analyse and visualise data for policy support across the services. At the same time the project will offer similar tools to any user – from analyst, scientist to the public at large – to discover and use data sources, web portals and platforms, stakeholder organisations, projects, networks and forums related to EU migration and demography.	JRC.E.6	HOME	JRC	ECHO EEAS ESTAT INTPA JRC NEAR RTD SG	2021-01-01	2022-12-31	INS-RS	3007268	TRA	Capacity building through training	Training and capacity building related to use of the different tools (Data Hub and Data Catalogue) developed by the Unit in the framework of the KCMD.	2021-12-15	Training	N
																	3007269	DDH2021	Dynamic Data Hub	Further development and evolutive maintenance of the Dynamic Data Hub and the KCMD Data Catalogue initiatives to facilitate and improve access to migration data. This includes adding new datasets, prompt updating of the existing ones and implementing new functionalities to widen the scope of the tools and their user-friendliness.	2021-12-15	Technical systems	N
																	3084017	DDH2022	Dynamic Data Hub	Keep developing the Dynamic Data Hub and KCMD Data Catalogue to facilitate and improve access to migration and demography data. This includes adding new datasets, updating of the existing ones and implementing new functionalities to widen the scope of the tools and their user-friendliness. Improving its interface, keeping modern design, usability standards and accessibility.	2022-12-16	Technical systems	N
5. Promoting our European Way of Life	5.1 Migration and asylum	20394	DKMD	Data and Knowledge for Migration and Demography	JRC.E.6	30423	DIDP	Data Innovation and Demographic tool Platform	Commission's evidence-informed approaches to policy-making, situational awareness and early warning for improved resilience towards current and future crises cannot exist without data. Traditional and non-traditional data are key to produce accurate, flexible and usable analyses and conduct forecasting and foresight scenarios. In this vein, the project will manage and synthesise existing data but also collect new data sources that are becoming available in sparse and unstructured way, including data on mobility (Mobile Network Operator data, air traffic data, social network data, etc) and spatial demography (satellite data, social network, etc). These data, along with some modelling and forecasting capability, should be then made available to other scientists and policy makers through usable and interactive user interface capable of easily produce new scenarios or modify existing ones. Trustability and transparency of statistical procedures and data are essential to accountable policy making. The project will also take into account these aspects and will try to promote collaboration from the academia for what concerns the development of the models and tools as well as the process of screening new data sources, their reliability, persistency and amount of information which can be extract from new data sources.	JRC.E.6	HOME	JRC	CNECT ECHO EEAS ESTAT INTPA JRC NEAR RTD SG	2021-01-01	2022-12-31	INS-RS	3021983	EWDash	Early Warning Migration Flow Dashboard	The dashboard will show the potential and actual migration flow fromseveralcountries of origin to the EU27	2021-06-30	Technical systems	N
																	3021984	DataSource	Innovative Data Sources Catalogue	The outcome of the recognition of innovative data sources in the study of migration and demography.	2021-06-30	Journal contributions (Clarivate)	N
																	3021985	DemPlat	Demographic tools platform	The demographic tools platformis a set of R code script which integrates seveal micro- amd macro-simulation modeling and deterministic demographic projections.	2022-06-30	Technical systems	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
5. Promoting our European Way of Life	5.1 Migration and asylum	20394	DKMD	Data and Knowledge for Migration and Demography	JRC.E.6	30720	AoM	Atlas of Migration	In the framework of the priorities of the new Commission emphasis was placed on the need 'to strengthen evidence-based policymaking and identify long-term trends on which we need to act and about which we need to know more.' This project will continue and further develop the work carried out by the Knowledge Centre on Migration and Demography of the EC in implementing the above-mentioned overall objective in the field of Migration that will continue to have an important role in the framework of the EU policies and Demography, which is now receiving a growing attention in the same context with the creation of a dedicated portfolio. The project will specifically address the need of support an evidence-based policymaking through actions aiming at filtering, putting in context and visualise data and indicators to offer tailored and well balanced products, in terms of information content, comprehensiveness and conciseness, to really help responding to policy needs. To maximise the effectiveness of this process the design and implementation of tools is conducted in close collaboration with various EU Services, which are clearly identified as the primary users. However the final products will be offered to any other interested stakeholder, analyst and researcher as well as to the general public. The delivered tools serve the primary objective to provide a robust cross sectorial data and knowledge basis on which specialised tools and/or further in-depth analysis may build on. As for its 2020 edition, which encompass a thematic section on COVID-19 pandemic & migration, the Atlas will focus on relevant and	JRC.E.6	HOME	JRC	ECHO EEAS INTPA JRC NEAR RTD SG	2021-01-01	2022-12-31	INS-RS	3013491	AoM	Atlas of Migration - online version	Continuous update, maintenance and further development of the Atlas of Migration online version. This may include further development of additional visualization (maps and comparative tables) as well as specific dashboards providing in depth information on specific areas the Atlas is structured around. Additional dashboards based on the same AoM online concept and methodology may be also developed as stand alone products on the basis of specific request of Partners DGs.	2021-12-20	Technical systems	N
																	3013492	AoM	Atlas of Migration - 2020 (printed version)	An updated printed version of the Atlas of Migration will be issued based on data as per 2020. This will include an A4 and an A3 format versions. Thie new issue will have a global coverage and follow the same format as the previos editions. The new release will contain the most updated data, time aligned to the end of 2020 and may reflect changes in the format (e.g. indicators and visualization) on the basis of a possible methodological revision.	2021-12-20	Books	N
																	3013966	TRA	Capacity building through training	Training and capacity building related to use of the Atlas of Migration (including the online version) to EU Services and External Stakeholders and Organisations	2021-12-15	Training	N
																	3035902	at3	Atlas of Migration online	Continuous update, maintenance and further development of the Atlas of Migration online version. This may include further development of additional visualization (maps and comparative tables) as well as specific dashboards providing in depth information on specific areas the Atlas is structured around. Additional dashboards based on the same AoM online concept and methodology may be also developed as stand alone products on the basis of specific request of Partners DGs.	2022-12-15	Sci information systems and databases	N
																	3035903	at4	Atlas of Migration 2012 issue	An updated printed version of the Atlas of Migration will be issued based on data as per 2021. This will include A4 and A3 format versions. The new issue will have a global coverage and follow the same format as the pervious editions. The new release will contain the most updated data, time aligned to the end of 2020 and may reflect changes in the format (e.g. indicators and visualization) on the basis of a possible methodological revision.	2022-12-15	Books	N
5. Promoting our European Way of Life	5.1 Migration and asylum	20396	DEMO-D	Demography and Democracy	JRC.E.6	30545	ESaLM	Education, Skills and Labor Market	Labour markets that can count on people with right skills is fundamental for preserving our European way of life as well as EU's global competitiveness. For that purpose, as the President von der Leyen stressed out in her mission letter to VP Schinas, 'we need to focus on education, labour mobility and integration, as well as on fairness and equality '. Education, training and employment have been for long time considered as core elements of the integration process and this rational has been fully reflected in the EU Action Plan on the Integration of Third-Country Nationals. The full potential of migrant integration can be achieved by effectively implementing the principles of inclusiveness of education and training policies and the equal opportunities on the labour market, set out in the European Pillar of Social Rights. For that purpose, also the new Skills Agenda for Europe set out a series of actions to support Member States efforts in integrating migrants and refugees. In this vast array of policy initiatives, the project aims to continue providing to policy makers with up-to-date insights on different dimensions of integration of migrants and EU mobile citizens in EU labour markets and the effects the overall economy of the Member States. The activities of this project will contribute to the achievement of project portfolio's objectives 5, 7 and 10.	JRC.E.6	HOME	JRC	AGRI EAC EMPL ESTAT JRC RTD SG	2021-01-01	2022-12-31	INS-RS	3013469	1	Female entrepreneurship in the EU: an intersectional analysis	The Science for Policy Report will aim at identifying the barriers to female entrepreneurship as well as opportunities for its development. The analysis will be developed adopting an intersectional approach: that is it will look how gender and migrant status intersect on EU's labour markets.	2022-12-31	Science for Policy reports	N
																	3097080	2	Projecting the net fiscal impact of immigration in the EU with new scenarios	The Technical report extends on the previous work by KCMD on estimating the net fiscal impact of immigration using micro-simulations published in 2020. The updated analysis will implement the new policy scenarios in its estimations, following the feedback received by relevant DGs.	2021-12-31	Technical Reports	N
																	3097081	3	Projecting the demand for health and long-term care services	The Science for Policy Report will provide estimates on the health and long-term care needs of the Europe's ageing population up until 2050 using micro simulations. Overall, the projections of the demand for health and LTC services will allow better planning of the supply of health and LTC workers also in the light of intra-EU mobility of workers.	2021-12-31	Science for Policy reports	N

JRC 2021 - 2022 DETAILED WORK PLAN (JPB extract as of 04 06 2021)

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5. Promoting our European Way of Life	5.2 Internal Security	20384	EU-HT	Hybrid Threats	JRC.E.2	30460	TECHRISK	Managing Technological and Hybrid Risks due to Natural Hazards	Technological systems, e.g. critical infrastructure (energy, transportation, etc.), chemical facilities, and military assets (ports, fuel, aviation, ground transportation), are vulnerable to natural hazards with impacts on safety, supply security and military readiness. Natural hazards can also render a country vulnerable to hybrid threats by exploiting the general confusion after a major event or via indirect impacts on critical facilities. This risk will increase in the future due to climate change and human development, putting natural and technological threats on a collision course. Although natural hazard impacts on critical infrastructure lead to more severe consequences and longer service outages, only little awareness and risk preparedness exists and guidance on how to manage the risk is scarce or non-existent. Since many technological systems provide society with indispensable goods and services, or are essential for safeguarding national security, it is of strategic interest to ensure that these systems are protected from natural hazards. Taking into account the development of a new European Security Strategy, the work on the Defence Union as well as the review of the ECI and NIS Directives, this project aims to enhance the capacity of the EU to manage the risks of natural-hazard impacts on its civilian and military critical infrastructure, and to contribute to the maintaining of EU security interests. Capitalizing on the unique knowledge and tools developed in previous JRC work (WPK 984 NATECH) that put the JRC at the forefront of Natech research	JRC.E.2	HOME	JRC	ECHO	2021-01-01	2025-12-31	INS-RS	3006273	2	Guidance for inspecting Natech risk management in high-risk industry	Development of guidance for authorities to identify if operators of high-risk industry in the EU have adequately addressed Natech risks in their onsite risk management. The guidance provides recommendations for inspectors to scrutinize operator processes for natural hazard identification onsite, Natech scenario building and risk assessment, emergency preparedness and response. This guidance may also be used for inspecting critical infrastructure operators' risk management processes in the case of natural hazard impact.	2021-12-17	Journal contributions (Clarivate)	N
																	3006275	4	Indicators for measuring Natech risk management performance	Development of indicators for measuring the performance of Natech risk management based on the most important Natech risk drivers. The indicators will provide an instrument to help countries to measure progress over time, or compare Natech risk management levels between countries for more effective and targeted resource allocation.	2022-12-16	Science for Policy reports	N
5. Promoting our European Way of Life	5.2 Internal Security	20384	EU-HT	Hybrid Threats	JRC.E.2	30601	H-CHEM	Chemical Disasters Risk Management to address Safety, Security needs and Hybrid Threats	This project is aimed to support chemical accident/incident risk management in the EU to support EU policy for controlling industrial risk and preventing chemical disasters in the EU and globally. This project supports implementation of several key EU policy areas, notably the Seveso Directive, Critical Infrastructure Protection and CBRN policy. The JRC has unique knowledge that it leverages to provide capacity building to Enlargement and Neighbourhood countryies and to collaborate with the international community, particularly OECD, UNECE, UNDRR, and UN Environment. The scientific products are also used to support initiatives associated with the Civil Protection Mechanism and the EU Instrument for Peace and Stability. Given the great diversity of production processes that use dangerous substances, the ongoing evolution of technology, the dynamics of the marketplace, the potential for adverse use of dangerous substances in countries with limited competence on how to handle them, there is a demonstrated need for continuous analysis and information exchange to prevent the chemical accidents of the future. The JRC uses its unique position to help operators and governments address the newest and greatest concerns, particularly impacts of climate change (changes in types of fuels being produced) and the advent of hybrid threats, where chemical incidents may be part of a multi-faceted attack.	JRC.E.2	ENV	JRC	ECHO HOME NEAR	2021-01-01	2025-12-31	INS-RS	3006384	2021INS001	Seveso Capacity Building in EU Enlargement and Neighbourhood Countries	Technical support to EU Enlargement and Neighbourhood countries on implementation of chemical accident prevention and preparedness programmes in alignment with the Seveso Directive. The deliverable will primrily focus on development and testing of the online version of the Seveso progress measurement tool in collaboration with selected Enlaretment and Neighbourhood countries and,bitlateral or multilateral workshops on chemical accident risk management with individual Enlargement and Neighbourhood countries as needed.	2021-12-17	Technical systems	N
																	3006417	2022INS001	Seveso Capacity Building in EU Enlargement and Neighbourhood Countries	Technical support to EU Enlargement and Neighbourhood countries on implementation of chemical accident prevention and preparedness programmes in alignment with the Seveso Directive. The deliverable will primrily focus on development and testing of the online version of the Seveso progress measurement tool in collaboration with selected Enlaretment and Neighbourhood countries and,bitlateral or multilateral workshops on chemical accident risk management topics with individual Enlargement and Neighbourhood countries as needed.	2022-12-16	Technical systems	N
																	3006418	2023INS001	Seveso Capacity Building in EU Enlargement and Neighbourhood Countries	Technical support to EU Enlargement and Neighbourhood countries on implementation of chemical accident prevention and preparedness programmes in alignment with the Seveso Directive. The deliverable will primrily focus on development and testing of the online version of the Seveso progress measurement tool in collaboration with selected Enlaretment and Neighbourhood countries and,bitlateral or multilateral workshops on chemical accident risk management with individual Enlargement and Neighbourhood countries as needed. In this year collaboration may be extended to working to refine and disseminate the indices with additional countries and international organisations.	2023-12-15	Technical systems	N
																	3006419	2024INS001	Seveso Capacity Building in EU Enlargement and Neighbourhood Countries	Technical support to EU Enlargement and Neighbourhood countries on implementation of chemical accident prevention and preparedness programmes in alignment with the Seveso Directive. The deliverable will primrily focus on development and testing of the online version of the Seveso progress measurement tool in collaboration with selected Enlaretment and Neighbourhood countries and,bitlateral or multilateral workshops on chemical accident risk management with individual Enlargement and Neighbourhood countries as needed. Work will continue on refining and disseminating the indices with additional countries and international organisations.	2024-12-13	Technical systems	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3006420	2025INS001	Seveso Capacity Building in EU Enlargement and Neighbourhood Countries	Technical support to EU Enlargement and Neighbourhood countries on implementation of chemical accident prevention and preparedness programmes in alignment with the Seveso Directive. The deliverable will primrily focus on development and testing of the online version of the Seveso progress measurement tool in collaboration with selected Enlaretment and Neighbourhood countries and,bitlateral or multilateral workshops on chemical accident risk management with individual Enlargement and Neighbourhood countries as needed. Work will continue on refining and disseminating the indices with additional countries and international organisations.	2025-12-19	Technical systems	N
																	3006421	2021INS002	Accident Analysis Handbook for Inspectors	This deliverable will consist of publicationof the accident analysis handbook for inspectors produced by the JRC Accident Analysis Benchmarking Exercise project group, launched in 2015.	2021-12-17	Technical Reports	N
																	3006422	2022INS002	Accident Analysis Benchmarking Study II	This is a collaborative project with industry, government and researchers to improve existing accident analysis methods and lessons learned communication for Seveso inspectors, examining current commonly used methods and potentially identifying gaps and weaknesses in current models, elaborating typologies, providing examples of applications. This will start with a JRC workshop or carried out in collaboration with the European Safety, Data and Reliability Association (ESReDA).	2022-12-16	Technical Reports	N
																	3006423	2023INS002	Accident Analysis Benchmarking Study II	This is a collaborative project with industry, government and researchers to improve existing accident analysis methods and lessons learned communication for Seveso inspectors, examining current commonly used methods and potentially identifying gaps and weaknesses in current models, elaborating typologies, providing examples of applications.	2023-12-15	Technical Reports	N
																	3006424	2024INS002	Accident Analysis Benchmarking Study Phase II	The deliverable will be an interim progress report. This is a collaborative project with industry, government and researchers to improve existing accident analysis methods and lessons learned communication for Seveso inspectors, examining current commonly used methods and potentially identifying gaps and weaknesses in current models, elaborating typologies, providing examples of applications. The deliverable will be an interim progress report.	2024-12-20	Technical Reports	N
																	3006425	2025INS002	Accident Analysis Benchmarking Study II	This is a collaborative project with industry, government and researchers to improve existing accident analysis methods and lessons learned communication for Seveso inspectors, examining current commonly used methods and potentially identifying gaps and weaknesses in current models, elaborating typologies, providing examples of applications. The deliverable will be a publication of results of this project, including any methodology improvements or guidance produced.	2025-12-19	Technical Reports	N
																	3006426	2021INS003	EU/International Policy Development for Chemical Disaster Risk Management and CBRN	This deliverable consists of JRC scientific and training publications and contributions in the calendar year ncluding bilateral exchanges or training, e.g., on the on the JRC ADAM risk analysis tool, chemical accident reporting and contribution/leadership roles supporting UNEP, UNECE, OECD and other partners. JRC may also contribute accident analyses to the CBRN Centres of Excellence, the Sendair Framework for Disaster Risk Reduction, and other international initiatives. This deiverable also includes a summary of annual statistics from the GMI-CHEM database of chemical incidents reported in the global media..As a member of the Bureau of the OECD Chemical Accident Working Group, the JRC will contribute to the development of its work programm, revision of the OECD Guidnig Principles for Chemical Accident Risk Management and foster the exchange of chemical accident lessons learned through eMARS, a new chemical accident data portal, and other mechanisms.	2021-12-17	Technical Reports	N
																	3006427	2022INS003	EU/International Policy Development for Chemical Disaster Risk Management and CBRN	This deliverable consists of JRC scientific and training publications and contributions in the calendar year ncluding bilateral exchanges or training, e.g., on the on the JRC ADAM risk analysis tool, chemical accident reporting and contribution/leadership roles supporting UNEP, UNECE, OECD and other partners. JRC may also contribute accident analyses to the CBRN Centres of Excellence, the Sendair Framework for Disaster Risk Reduction, and other international initiatives. This deiverable also includes a summary of annual statistics from the GMI-CHEM database of chemical incidents reported in the global media..As a member of the Bureau of the OECD Chemical Accident Working Group, the JRC will contribute to the development of its work programm, revision of the OECD Guidnig Principles for Chemical Accident Risk Management and foster the exchange of chemical accident lessons learned through eMARS, a new chemical accident data portal, and other mechanisms.	2023-12-15	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3006428	2023INS00	EU/International Policy Development for Chemical Disaster Risk Management and CBRN	This deliverable consists of JRC scientific and training publications and contributions in the calendar year ncluding bilateral exchanges or training, e.g., on the on the JRC ADAM risk analysis tool, chemical accident reporting and contribution/leadership roles supporting UNEP, UNECE, OECD and other partners. JRC may also contribute accident analyses to the CBRN Centres of Excellence, the Sendair Framework for Disaster Risk Reduction, and other international initiatives. This deiverable also includes a summary of annual statistics from the GMI-CHEM database of chemical incidents reported in the global media..As a member of the Bureau of the OECD Chemical Accident Working Group, the JRC will contribute to the development of its work programm, revision of the OECD Guidnig Principles for Chemical Accident Risk Management and foster the exchange of chemical accident lessons learned through eMARS, a new chemical accident data portal, and other mechanisms.	2022-12-16	Technical Reports	N
																	3006429	2024INS00	EU/International Policy Development for Chemical Disaster Risk Management and CBRN	This deliverable consists of JRC scientific and training publications and contributions in the calendar year ncluding bilateral exchanges or training, e.g., on the on the JRC ADAM risk analysis tool, chemical accident reporting and contribution/leadership roles supporting UNEP, UNECE, OECD and other partners. JRC may also contribute accident analyses to the CBRN Centres of Excellence, the Sendair Framework for Disaster Risk Reduction, and other international initiatives. This deiverable also includes a summary of annual statistics from the GMI-CHEM database of chemical incidents reported in the global media..As a member of the Bureau of the OECD Chemical Accident Working Group, the JRC will contribute to the development of its work programm, revision of the OECD Guidnig Principles for Chemical Accident Risk Management and foster the exchange of chemical accident lessons learned through eMARS, a new chemical accident data portal, and other mechanisms.	2024-12-20	Technical Reports	N
																	3006430	2025INS00	EU/International Policy Development for Chemical Disaster Risk Management and CBRN	This deliverable consists of JRC scientific and training publications and contributions in the calendar year ncluding bilateral exchanges or training, e.g., on the on the JRC ADAM risk analysis tool, chemical accident reporting and contribution/leadership roles supporting UNEP, UNECE, OECD and other partners. JRC may also contribute accident analyses to the CBRN Centres of Excellence, the Sendair Framework for Disaster Risk Reduction, and other international initiatives. This deiverable also includes a summary of annual statistics from the GMI-CHEM database of chemical incidents reported in the global media..As a member of the Bureau of the OECD Chemical Accident Working Group, the JRC will contribute to the development of its work programm, revision of the OECD Guidnig Principles for Chemical Accident Risk Management and foster the exchange of chemical accident lessons learned through eMARS, a new chemical accident data portal, and other mechanisms.	2025-12-19	Technical Reports	N
																	3006446	2021INS00	Common Inspection Criteria	In collaboration with EU Seveso inspectors produce at least 1 technical brief (CICs) on inspection good practice/risk management topics for inspectors of EU chemical processing sites for stakeholders in EU and implement pilot programme of new knowledge management strategy to increase visibility, accessibility, usability for inspectorates (online structure, design,translation, etc.) The topic in 2021 is likely to be common inspection criteria on power failure risk management.	2024-12-20	Technical Reports	N
																	3006447	2022INS00	Common Inspection Criteria	In collaboration with EU Seveso inspectors produce at least 1 technical brief (CICs) on inspection good practice/risk management topics for inspectors of EU chemical processing sites for stakeholders in EU and implement pilot programme of new knowledge management strategy to increase visibility, accessibility, usability for inspectorates (online structure, design,translation, etc.) The topics will be decided to together with the Technical Working Group for Seveso Inspectors (TWG 2) based on current trends, priorities and emerging issues.	2022-12-16	Technical Reports	N
																	3006465	2023INS00	Common Inspection Criteria	In collaboration with EU Seveso inspectors produce at least 1 technical brief (CICs) on inspection good practice/risk management topics for inspectors of EU chemical processing sites for stakeholders in EU and implement pilot programme of new knowledge management strategy to increase visibility, accessibility, usability for inspectorates (online structure, design,translation, etc.) The topics will be decided to together with the Technical Working Group for Seveso Inspectors (TWG 2) based on current trends, priorities and emerging issues.	2023-12-15	Technical Reports	N
																	3006466	2024INS00	Common Inspection Criteria	In collaboration with EU Seveso inspectors produce at least 1 technical brief (CICs) on inspection good practice/risk management topics for inspectors of EU chemical processing sites for stakeholders in EU and implement pilot programme of new knowledge management strategy to increase visibility, accessibility, usability for inspectorates (online structure, design,translation, etc.) The topics will be decided to together with the Technical Working Group for Seveso Inspectors (TWG 2) based on current trends, priorities and emerging issues.	2024-12-20	Technical Reports	N
																	3006467	2025INS00	Common Inspection Criteria	In collaboration with EU Seveso inspectors produce at least 1 technical brief (CICs) on inspection good practice/risk management topics for inspectors of EU chemical processing sites for stakeholders in EU and implement pilot programme of new knowledge management strategy to increase visibility, accessibility, usability for inspectorates (online structure, design,translation, etc.) The topics will be decided to together with the Technical Working Group for Seveso Inspectors (TWG 2) based on current trends, priorities and emerging issues.	2025-12-19	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3006864	2021INS00	Chemical Accident Emerging Trends	In fulfilment of Seveso Directive Article 21, MAHB will produce a Lessons Learned Bulletins containing analytical briefs of lessons learned from chemical accidents related to specific thematic topics from the eMARS database and other open sources.. The annual analyses also fulfils the JRCs role as leader of lessons learned exchange within the OECD Working Group on Chemical Accidents. The topics are chosen based on recent trends, and accidents with input from current projects and collaborations with international partners and Member States. Several topics are currently under discussion.	2021-12-17	Technical Reports	N
																	3006886	2022INS00	Chemical Accident Emerging Trends	In fulfilment of Seveso Directive Article 21, MAHB will produce a Lessons Learned Bulletins containing analytical briefs of lessons learned from chemical accidents related to specific thematic topics from the eMARS database and other open sources.. The annual analyses also fulfils the JRCs role as leader of lessons learned exchange within the OECD Working Group on Chemical Accidents. The topics are chosen based on recent trends, and accidents with input from current projects and collaborations with international partners and Member States.	2022-12-16	Technical Reports	N
																	3006887	2023INS00	Chemical Accident Emerging Trends	In fulfilment of Seveso Directive Article 21, MAHB will produce a Lessons Learned Bulletins containing analytical briefs of lessons learned from chemical accidents related to specific thematic topics from the eMARS database and other open sources.. The annual analyses also fulfils the JRCs role as leader of lessons learned exchange within the OECD Working Group on Chemical Accidents. The topics are chosen based on recent trends, and accidents with input from current projects and collaborations with international partners and Member States.	2023-12-15	Technical Reports	N
																	3006888	2024INS00	Chemical Accident Emerging Trends	In fulfilment of Seveso Directive Article 21, MAHB will produce a Lessons Learned Bulletins containing analytical briefs of lessons learned from chemical accidents related to specific thematic topics from the eMARS database and other open sources.. The annual analyses also fulfils the JRCs role as leader of lessons learned exchange within the OECD Working Group on Chemical Accidents. The topics are chosen based on recent trends, and accidents with input from current projects and collaborations with international partners and Member States.	2024-12-20	Technical Reports	N
																	3006889	2025INS00	Chemical Accident Emerging Trends	In fulfilment of Seveso Directive Article 21, MAHB will produce a Lessons Learned Bulletins containing analytical briefs of lessons learned from chemical accidents related to specific thematic topics from the eMARS database and other open sources.. The annual analyses also fulfils the JRCs role as leader of lessons learned exchange within the OECD Working Group on Chemical Accidents. The topics are chosen based on recent trends, and accidents with input from current projects and collaborations with international partners and Member States.	2025-12-19	Technical Reports	N
																	3006918	2021INS00	Risk Management Good Practice	The deliverable will consist of a good practice document for inspectors, summarising results of a workshop for Seveso inspectors hosted by Croatia on Seveso Directive Article 14, Information to the Publlic, as well as ad hoc exchange between Seveso inspectors throughout the year on particular issues that arise. This deliverable supports fulfilment of Seveso Directive Article 20 (10).	2021-12-17	Technical Reports	N
																	3006945	2022INS00	Risk Management Good Practice Report	The deliverable will consist of a good practice document for inspectors, summarising results of a workshop for Seveso inspectors hosted by Portugal on Seveso Directive lower tier sites, as well as ad hoc exchange between Seveso inspectors throughout the year on particular issues that arise. This deliverable supports fulfilment of Seveso Directive Article 20 (10).	2022-12-16	Technical Reports	N
																	3006973	2023INS00	Risk Management Good Practice	The deliverable will consist of a good practice document for inspectors, summarising results of a workshop for Seveso inspectors hosted by a Member State on a topic relevant to implementation of the Seveso Directive and monitoring and enforcement of operator risk management. This deliverable supports fulfilment of Seveso Directive Article 20 (10).	2023-12-20	Technical Reports	N
																	3006974	2024INS00	Risk Management Good Practice	The deliverable will consist of a good practice document for inspectors, summarising results of a workshop for Seveso inspectors hosted by a Member State on a topic relevant to implementation of the Seveso Directive and monitoring and enforcement of operator risk management. This deliverable supports fulfilment of Seveso Directive Article 20 (10).	2024-12-20	Technical Reports	N
																	3006975	2025INS00	Risk Management Good Practice	The deliverable will consist of a good practice document for inspectors, summarising results of a workshop for Seveso inspectors hosted by a Member State on a topic relevant to implementation of the Seveso Directive and monitoring and enforcement of operator risk management. This deliverable supports fulfilment of Seveso Directive Article 20 (10).	2025-12-19	Technical Reports	N
																	3007006	2021AA001	Minerva Web Platform and eMARS and eSPIRS Maintenance and Help Desk	This deliverable consists of support to the Minerva web platform and delivery of the final report summarising assistance and support in 2019 to DG ENV and Member States on management of the eMARS (chemical accident reports and lessons learned) and eSPIRS (Seveso establishments) reporting systems, an obligation of the Commission established in Seveso Directive Article 21. It includes the provision of ongoing help to Member States in reporting to eMARS and eSPIRS (regulatory obligations), including completion of data fields properly, quality control and report follow-up, problem-solving on specific cases, advice and support on using the XML, improving the funcationality of the database, and providing statistical analyses, and support to Member States and the public in using the data. The Minerva platform supports all chemical accident risk web services of MAHB, including ADAM (developed with ECHO) and its chemical accident reference portals for chemical safety and security policy	2021-12-17	Sci information systems and databases	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3007007	2022AA001	Minerva Web Platform and eMARS and eSPIRS Maintenance and Help Desk	This deliverable consists of support to the Minerva web platform and delivery of the final report summarising assistance and support in 2019 to DG ENV and Member States on management of the eMARS (chemical accident reports and lessons learned) and eSPIRS (Seveso establishments) reporting systems, an obligation of the Commission established in Seveso Directive Article 21. It includes the provision of ongoing help to Member States in reporting to eMARS and eSPIRS (regulatory obligations), including completion of data fields properly, quality control and report follow-up, problem-solving on specific cases, advice and support on using the XML, improving the funcationality of the database, and providing statistical analyses, and support to Member States and the public in using the data. The Minerva platform supports all chemical accident risk web services of MAHB, including ADAM (developed with ECHO) and its chemical accident reference portals for chemical safety and security policy	2022-12-16	Sci information systems and databases	N
																	3007040	2023AA001	Minerva Web Platform and eMARS and eSPIRS Maintenance and Help Desk	This deliverable consists of support to the Minerva web platform and delivery of the final report summarising assistance and support in 2019 to DG ENV and Member States on management of the eMARS (chemical accident reports and lessons learned) and eSPIRS (Seveso establishments) reporting systems, an obligation of the Commission established in Seveso Directive Article 21. It includes the provision of ongoing help to Member States in reporting to eMARS and eSPIRS (regulatory obligations), including completion of data fields properly, quality control and report follow-up, problem-solving on specific cases, advice and support on using the XML, improving the funcationality of the database, and providing statistical analyses, and support to Member States and the public in using the data. The Minerva platform supports all chemical accident risk web services of MAHB, including ADAM (developed with ECHO) and its chemical accident reference portals for chemical safety and security policy	2023-12-15	Sci information systems and databases	N
																	3007041	2024AA001	Minera Web Platform and eMARS and eSPIRS Maintenance and Help Desk	This deliverable consists of support to the Minerva web platform and delivery of the final report summarising assistance and support in 2019 to DG ENV and Member States on management of the eMARS (chemical accident reports and lessons learned) and eSPIRS (Seveso establishments) reporting systems, an obligation of the Commission established in Seveso Directive Article 21. It includes the provision of ongoing help to Member States in reporting to eMARS and eSPIRS (regulatory obligations), including completion of data fields properly, quality control and report follow-up, problem-solving on specific cases, advice and support on using the XML, improving the funcationality of the database, and providing statistical analyses, and support to Member States and the public in using the data. The Minerva platform supports all chemical accident risk web services of MAHB, including ADAM (developed with ECHO) and its chemical accident reference portals for chemical safety and security policy	2024-12-20	Sci information systems and databases	N
																	3007076	2025AA001	Minerva Web Platform and eMARS and eSPIRS Maintenance and Help Desk	This deliverable consists of support to the Minerva web platform and delivery of the final report summarising assistance and support in 2019 to DG ENV and Member States on management of the eMARS (chemical accident reports and lessons learned) and eSPIRS (Seveso establishments) reporting systems, an obligation of the Commission established in Seveso Directive Article 21. It includes the provision of ongoing help to Member States in reporting to eMARS and eSPIRS (regulatory obligations), including completion of data fields properly, quality control and report follow-up, problem-solving on specific cases, advice and support on using the XML, improving the funcationality of the database, and providing statistical analyses, and support to Member States and the public in using the data. The Minerva platform supports all chemical accident risk web services of MAHB, including ADAM (developed with ECHO) and its chemical accident reference portals for chemical safety and security policy	2025-12-19	Sci information systems and databases	N
																	3008204	2021INS007	Sensitivity Analysis of ADAM	Extension of the global sensitivity analysis of the atmospheric dispersion module of the ADAM suite, which was previously conducted on series of reference scenarios involving chlorine. The purpose is to conduct a follow-up of the past sensitivity study, and to analyse whether the main conclusions obtained for chlorine accidental outflows can also be extended to a broader range of toxics, which are commonly employed in the EU chemical industry. The objective is to assess the impact and the relevance of the different input parameters of atmospheric dispersion modelling on the output uncertainty.	2021-06-30	Sci information systems and databases	N
																	3008205	2021INS008	Understanding of Potential CBRN Related Incidents	Identification in the ADAM database of some selected chemicals, which have CBRN relevance due to their inherent toxicity or because potential precursors of chemical weapons. Definition of possible accident scenarios involving those substances of CBRN relevance. Simulation of the accident scenarios, by using the atmospheric dispersion module of the ADAM suite in order to assess the impact of those accidents on potentially affected areas	2021-10-31	Technical Reports	N
																	3008353	2021INS009	Development of ADAM 3.0	Development of a new release of the ADAM suite, ready for final testing and evaluation. This version should incorporate methodological improvements as well as the resolution of existing bugs, as identified after its extensive use within the ADAM community. The new release will include a completely renewed and up-to speed Graphic Users Interface.	2021-07-31	Sci information systems and databases	N

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																	3008354	2021INS010	EU/International ADAM users' scientific exchanges.	Technical assistance to the community of ADAM users to support the implementation of the Seveso legislation in their countries or other legislation associated with chemical safety and security. As for the past year, the feedback resulting from this activity will be used for possible improvement of the ADAM software. Participation in international related activities to exploit the use of consequence modelling and to improve simulation/validation methods.	2021-12-17	Sci information systems and databases	N
																	3008441	2022INS007	Testing, launch, and technical support of ADAM 3.0	Testing of the new release of the ADAM suite. Official launch after validation, and technical support to the ADAM user community to support the implementation of the Seveso legislation in their countries or other legislation associated with chemical safety and security.	2022-06-30	Sci information systems and databases	N
																	3008442	2022INS008	Follow Up on Potential CBRN Related Incidents	Follow up of the analysis of potential CBRN accidents, which was previously conducted on the selected substances and scenarios with CBRN relevance. Identification of other relevant scenarios and/or substances using the atmospheric dispersion module of ADAM in order to assess their impact on potentially affected areas	2021-07-31	Sci information systems and databases	N
																	3008443	2022INS009	Extension of Modeling within the ADAM Suite	Elaboration, analysis and possible implementation of other accident consequence models to incorporate into the ADAM suite the release of compressed and liquefied pressurised gases from long pipelines. Identification of field test campaigns involving the release of dangerous substances from pipelines to be used in the scientific evaluation of the above mentioned models.	2022-12-22	Sci information systems and databases	N
5. Promoting our European Way of Life	5.2 Internal Security	20384	EU-HT	Hybrid Threats	JRC.E.2	30920	HYBRIDCOF	Hybrid Threats Conceptual Framework	The JRC in collaboration with the Centre of Excellence for Countering Hybrid Threats has developed the conceptual framework which has been praised by policy makers and analysis as well as MS. In particular, JRC is considered a key player in this area and there is formal recognition of JRC's work by the Horizontal Working Group on Fostering Resilience and Countering Hybrid Threats in the Council. MS are currently developing their strategy for countering Hybrid Threats and the input provided by the JRC is instrumental. To this end, the continuation of the development of the conceptual model, which should be a living document in order to take into account the developments in this highly evolving and dynamic domain, is of paramount importance for European security. In addition, the future European Security Strategy will make reference to hybrid threats as one of the most acute threats that Europe will have to collectively address. This project will contribute to the project's portfolio objectives by providing the foundation and theoretical work in order to put in context technological aspects, societal aspects, detection and response which are topics addressed by the other projects of the portfolio. In particular it will also look upon issues related to the multilateralism and role of international organisations in the new reality in the aftermath of Covid-19 crisis. The project will also explore links with other projects beyond the EU-HT portfolio such as EU-RES (30631), CBAE (30288) on issues related to energy investments and with the project portfolio on strategic autonomy.	JRC.E.2	DEFIS	JRC	CNECT HOME NEAR RTD SG	2021-01-01	2022-12-31	INS-CDP INS-RS	3022029	1	Hybrid THreats conceptual framework ver 2.0	The report will be an updated version of the conceptual framework with more details on the domains and how can be affected by specific hybrid tools, update of the hybrid tools and proposals for hybrid resilience tools	2021-12-31	Science for Policy reports	N
5. Promoting our European Way of Life	5.2 Internal Security	20384	EU-HT	Hybrid Threats	JRC.E.2	30921	ERNCIP	European Reference Network for Critical Infrastructure Protection	ERNCIP (European Reference Network for Critical Infrastructure Protection) is the flagship project of the European Programme for Critical Infrastructure Protection. In this framework, the ERNCIP project has developed a vast network of European experts and stakeholders (more than 900) to work in close collaboration with JRC to collect testing gaps and needs, identify promising areas for the development of standards, test protocols and certification procedures in the domain of security and resilience of critical infrastructures. In the framework of supporting the EPCIP (European Programme for Critical Infrastructure Protection), CBRNE (Chemical Biological Radiological Nuclear and Explosives) and Cybersecurity Act policies, ERNCIP steers several thematic groups (TGs) in different areas of security of critical infrastructures. ERNCIP is conducting the main work to transform the output of thematic groups into technical requirements for feeding-in the work of Standardisation bodies and Committees as well as policy making at EU level. The main impact of this work is the development of more secure and resilient societies as well as a stronger and more competitive European security industry which translates to growth and jobs. JRC is in the unique position to steer the groups of experts and as a consequence leverages the work of the security community thus acting as a force multiplicator for the Commission. The work of ERNCIP is particularly important for the period 2021-2022 due to the review of the European Programme for Critical Infrastructure Protection. ERNCIP has been very active in the Covid-19 pandemic by developing large scale Pan-European	JRC.E.2	HOME	HOME HOME JRC	CNECT DEFIS TAXUD	2021-01-01	2022-12-31	CON-AA CON-AA INS-RS	3022036	2	GUidance on drones and AI for early warning zones in critical infrastructures	The report will provide elements on how operators should include novel technologies such as drones and AI in their security perimeters and also assess how these technologies might be at the same time a threat to critical infrastructures.	2021-12-31	Technical Reports	N
																	3022040	3	Emerging technologies and challenges for critical infrastructure protection and resilience	The report will look upon the future of critical infrastructure evolution and the adoption of emerging technologies and how this will change their security posture and also how it will change the skills needsed for improving their protection	2022-12-31	Science for Policy reports	N

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5. Promoting our European Way of Life	5.2 Internal Security	20384	EU-HT	Hybrid Threats	JRC.E.2	30923	HYBRIDE TECH	Hybrid Threats Detection and Technology	One of the most important challenges in the domain of Hybrid Threats is their early detection and clear situational awareness. Detection efforts require the collection and analysis of datasets from various sources which often look uncorrelated. This project will aim at identifying those datasets that are necessary to be analysed in order to have more chances to identify a Hybrid Threat during the priming phase and develop the respective tools. Considering the fact that several MS receive a large amount of security related reports, including Open Source Intelligence, providing the tools to store and retrieve datasets which can help identify patterns of hybrid activities are particularly useful. In more detail, data from media, internet, as well as from other technological sectors will be considered. The media monitoring related work by the JRC led by I.3 will be fundamental for the success of this project. In addition synergies will be exploited with the HUMAINT project portfolio for the deep fake and AI impact on societies. To this end E.2 has already started the development of HYTHINK, a structured database based on the JRC-CoE Conceptual model to store and retrieve datasets related to hybrid activities. Technology is a fundamental aspect in Hybrid Threats and might affect specific technological sectors and services (critical infrastructures, energy, transport, administration, water, telecommunications, health, etc.). Moreover, threat vectors may employ technological means such as Chemical, Biological, Radiological and Nuclear threats (CBRNE), cyber-attacks, terrorist attacks etc. To this end, it is important to analyse interdependencies and better understand technological	JRC.E.2	DEFIS	HOME RTD JRC	CNECT HOME	2021-01-01	2022-12-31	CON-AA CON-AA INS-RS	3022626	2	Further development of POSEIDON	POSEIDON is the reference tool at EU level which has been used in PACE 18, RESOLUTE 20 and it will be used in the next PACE exercise in collaboration with NATO. The system will include new visualisation techniques and geospatial intelligence.	2021-12-31	Technical systems	N
																	3022627	1	Further development of GRRASP	GRRASP is the reference tool for critical infrastructure interdependencies analysis. It will be further developed in order to take into account new developments in the field in particular on machine learning and artificial intelligence	2021-12-31	Technical systems	N
																	3023433	3	A hybrid threats database incorporated in POSEIDON	POSEIDON is a tool that can be used for the execution of large scale exercises on Hybrid Threats. It will be further enhanced with capabilities to support the planning of exercises by providing a body of knowledge based on past events which can be used for planning future exercises.	2022-12-31	Technical systems	N
																	3023437	4	Scientific publications in the domain of complex systems, interdependencies, machine learning and AI	Scientific excellence is an important element of the work in this workpackage. To this end 2 scientific publications in journals and/or conference will be published in 2021.	2021-12-31	Journal contributions (Scopus)	N
																	3023438	5	Scientific publications in the domain of complex systems, interdependencies, machine learning and AI	Scientific excellence is an important element of the work in this workpackage. To this end 2 scientific publications in journals and/or conference will be published in 2022	2022-12-31	Journal contributions (Scopus)	N
																	3023444	6	Analysis of large scale infrastructures and implications for EU's security posture	This deliverable will asses EU's dependency on large scale global infrastructures and in particular its access to global commons and how this can be hindered by hybrid actors (state and non-state).	2021-12-31	Science for Policy reports	N
																	3023445	7	Interdependencies and cascade effects in critical defence infrastructure compromised by hybrid activities	Defence heavily depends on civilian critical infrastructures and as a consequence it is important to understand how the access to such infrastructures can be compromised during peace times but also during operations.	2022-12-31	Technical Reports	N
5. Promoting our European Way of Life	5.2 Internal Security	20384	EU-HT	Hybrid Threats	JRC.E.2	30925	PCCT	Proactive measures for Counter Terrorism	The PCCT project addresses the challenges to the civil society through Improvised Explosive Devices (IEDs) with particular focus to TATP. Jihadist terrorist activity is expected to rise when the veterans of the IS return/migrate to Europe. It poses a threat to the civil society not only when it is intentionally detonated, but also (due to its instability) during production, storage, transport and during crime-scene investigations, particularly if they face a malfunctioned device. It is therefore high time to develop proactive concepts, which shall allow law enforcement agencies to identify IED production. In an Exploratory Research Project (TIED_UP, 2018 – 2019), it was demonstrated, that the highly sensitive detection techniques used by the JRC in the field of environmental trace chemistry, got a real potential to successfully detect TATP production sites. Combining the competences from several JRC institutes, the PCCT project picks up on the experience from TIED_UP, aiming at moving the concept from a pilot scale to a real world application scenario. This shall be achieved by disseminating the innovative methodologies developed so far by the JRC and its partners in law enforcement. In parallel, the methodologies will be refined and documented in Standard Operation Procedures (SOPs), which will be shared and tested together with forensic police labs.	JRC.E.2	HOME	JRC	(blank)	2021-01-01	2022-12-31	INS-RS							

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5. Promoting our European Way of Life	5.2 Internal Security	20388	BOSS	Border Security Solutions	JRC.E.5	30861	CISERO	CISE Roll Out	The CISE (Common Information Sharing Environment for Maritime Surveillance) is supported by the Commission Communication COM(2009)538 and the Commission Communication COM(2014) 451 final. CISE is also an important action of the European Union Maritime Security Strategy Action Plan (EUMSS AP), directly contributing to the work strand II - enhancing maritime awareness. The EUMSS Action Plan also reiterates the Member States agreement to implement CISE by 2020. The EUCISE2020 FP7 project created and tested a pre-operational network for information exchange among the MS maritime-surveillance authorities based on the CISE interoperability solutions developed in previous projects. The project finished in March 2018 and work is still necessary to transform the current pre-operational network into an operational one. The Commission has put therefore in place a preparatory action to facilitate the operational implementation of the CISE by 2020. Supporting the transition to operations, the main objective of the preparatory action should be to further support MS efforts to implement the CISE interoperability building blocks in their systems. It implies the implementation of a technical, operational and administrative framework to manage the transition phase and support the definition of the future framework for the day-to-day operations in the CISE network and the interoperability solutions. The European Maritime Safety Agency (EMSA) has been tasked with setting up and coordinating the preparatory action. The CISE Transitional Phase also	JRC.E.5	MARE	MARE	(blank)	2019-03-01	2022-02-28	CON-AA	3038886	12	Feasibility study on the integration of CEF building blocks in the operational CISE phase	This document contains the feasibility study on the integration of CEF building blocks in the operational CISE phase.	2021-03-01	Technical Reports	N
																	3038887	13	Pilot development report N 2	This document describes the activities conducted by the JRC to develop the pilot development with Member States under the CISE transitional phase.	2021-03-01	Technical Reports	N
																	3038888	14	Bi-annual report on the progress of the CISE Transitional phase N 5	This deliverable describes the different activities linked to the CISE Transitional phase	2021-09-01	Technical Reports	N
																	3038889	15	Architecture and technical specifications of the CISE Node v2	This document describes the new architecture of the CISE Node and the technical specifications of the software	2021-06-01	Technical Reports	N
																	3038890	16	CISE Node v2 software and installation manuals	This deliverable contains the CISE Node v2 software developed in collaboration with EMSA.	2021-10-01	Sci information systems and databases	N
																	3038891	17	Conformity test tool - version 3 (software and user manuals)	This deliverable contains the software and user manuals developed by the JRC, related to the conformity test tool of CISE.	2021-09-01	Sci information systems and databases	N
																	3038892	11	Bi-annual report on the progress of the CISE Transitional phase N 4	This deliverable describes the different activities linked to the CISE Transitional phase	2021-03-01	Technical Reports	N
5. Promoting our European Way of Life	5.2 Internal Security	20388	BOSS	Border Security Solutions	JRC.E.5	30946	BORSEC	Border Security for people and goods	The increasing level of threats to the European External Borders, together with a higher focus on the effectiveness of the results of the research activities require a closer attention to the results achieved and the design of the new calls for research projects. The European Border and Coast Guard Agency (Frontex) has been given an increased role including responsibilities over research activities in conjunction with DG HOME. The recently signed MoU between DG HOME and Frontex, explicitly mention the JRC as a crucial partner in these tasks.	JRC.E.5	HOME	JRC	MARE TAXUD	2021-01-01	2022-12-30	INS-RS	3058974	BORSEC1	Progress Report 2021	Report of the activities carried out by the project in 2021	2021-12-16	Technical Reports	N
5. Promoting our European Way of Life	5.2 Internal Security	20388	BOSS	Border Security Solutions	JRC.E.5	31065	MOBAN	Mobility Analytics for Borders	The EU and its Member States are facing several new and complex security threats from outside the Schengen Borders. This situation requires an increased understanding of the cross border mobility, also linked to the spread of pandemic infection through borders,	JRC.E.5	HOME	JRC	MOVE	2021-01-01	2022-12-30	INS-RS	3058787	MOBAN2	Cross Border movement of people - final report	Final report of the project	2022-12-16	Technical Reports	N
																	3058788	MOBAN1	Identification of Data Sources and tools definition - Progrss Report 2021	This deliverable will describe the progress achieved in the identification/acquisition of data sources needed for the project as well as on the definition of the tools needed for the Cross Border Mobility analysis	2021-12-16	Technical Reports	N
5. Promoting our European Way of Life	5.2 Internal Security	20388	BOSS	Border Security Solutions	JRC.E.5	31066	BORTECH	Technologies for Border Security	The increasing level of threats to the European External Borders, both traditional and new , such as epidemic and bioterrorism risks, require improved collaboration among EU and MS institutions, the identification and implementation of new technologies and practices and assessment of their social and ethical aspects. One of the greatest challenges of the EU border management system is to reconcile humanitarian and security aspects relevant to its tasks and social sciences will play an important role in future (border) security research.. Therefore, border security research should include a pragmatic assessment of the social and human dimensions of security, and a critical review of the underlying assumptions and consequences of the security measures implemented at the borders.	JRC.E.5	HOME	JRC	(blank)	2021-01-01	2022-12-30	INS-RS	3058981	BORTECH2	Progress report	Report of the activities carried out by the project in 2021. The report will detail the activities carried out in collaboration with the Italian border police on e-Gates. The report will detail the activities carried out in the analysis of ongoing research project (selected with HOME and Frontex) from the point of view of their social component.	2021-12-10	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3058982	3ORTECH1	Review of social and behavioural aspects of Border Security	A critical analysis of the most promising research activities in the area of Border Security Overview of social and ethical aspects relevant to border security and Border Security technologies Overview of the behavioural analysis techniques used in Border Security. Through desk research and direct contact with relevant actors involved in Border Control (e.g. Italian Polizia di Frontiera), the deliverable will collect data and will review social and ethical aspects of border security and how behavioural analysis techniques are used by different MS in Border Security..	2021-10-01	Technical Reports	N
5. Promoting our European Way of Life	5.2 Internal Security	20390	TDSS	Threat Detection and Security Standards	JRC.E.5	30960	AVSEC+	Producing test materials to verify explosives detection equipment	Since 2002, the Commission has established common rules in the field of civil aviation security (AVSEC) aimed at protecting persons and goods from unlawful interference with civil aircraft, which includes technical requirements for security screening equipment. JRC will contribute to the implementation of technical elements in the 'Rolling programme for cooperation in aviation security' between DG MOVE and the European Civil Aviation Conference (ECAC), as well as in the 'Aviation Security Technology Roadmap', with a strong focus on aspects of measurement quality and performance testing of equipment. JRC will support the development and adoption of harmonised test methods and test materials, for both laboratory and field testing of screening equipment. We will perform research on explosives and chemical substances, and technical appraisal of detection equipment and testing methodologies for priority applications, e.g. aviation security, law enforcement, first responders and border control. The JRC will continue to support Commission and Member States' aviation security inspectors with test kits, testing methods and training (including hands-on) for the inspection of aviation security equipment in EU airports. This project will receive support from JRC.F.6 concerning the storage and distribution of test materials. The JRC also gives science-based advice and performs experimental work for DG HOME and the Standing Committee for Precursors (SCP), in support of Reg. 98/2013 on explosive precursors. Topics include: reducing the risk of misuse of certain chemicals to fabricate home-made explosives, performance of detection equipment and potential technology gaps.	JRC.E.5	MOVE	MOVE JRC	HOME TAXUD	2021-01-01	2023-12-31	CON-AA INS-RS	3033942	1	test materials for explosives detection equipment (including accompanying technical documentation)	Test materials to support aviation security inspectors and other stakeholders to verify the performance of detection equipment.(including accompanying technical documentation)	2021-12-31	Reference materials	N
																	3040405	2	Innovative production of high-purity explosives standards	A scientific article in a peer-reviewed journal describing JRC's state-of-the-art production of explosives standards using flow chemistry.	2022-12-31	Journal contributions (Clarivate)	N
																	3071855	3	Training material on use of ETD test kit	JRC will provide hands-on training to Member States' authorities on the use of the JRC test kit for ETD equipment. The accompanying training material, slides, workbook, etc. will be documented in a technical report.	2022-10-31	Training	N
5. Promoting our European Way of Life	5.2 Internal Security	20390	TDSS	Threat Detection and Security Standards	JRC.E.5	30961	PUBSEC	Establishing harmonised requirements for detection equipment for public spaces	Recent terrorist attacks have mainly focused on public spaces , exploiting their intrinsic vulnerability linked to their open and accessible nature. The risk picture is further complicated by the fact that different threats and their concealment methods by terrorists are continuously evolving. The early detection of threats in public areas can be facilitated by the deployment of effective detection equipment (such as x-ray or metal detectors) . However, outside aviation , there are no EU and very few national detection standards for equipment and detection trials have shown that the performance of equipment deployed in public areas and environments varies significantly. The increased number of attacks against public areas have led public and private operators of public spaces to consider purchase or rental of security equipment . This trend in increased demand for security equipment in different public areas is likely to continue, with major events such as the UEFA football championship (EURO) that will be held in 12 different locations in 2020, or other planned sports and cultural events. The demand for security equipment has also opened doors for many manufacturers from outside the EU, making it even more important to focus on ensuring that equipment deployed in the EU respects certain performance requirements. This project aims to build a foundation for a voluntary scheme to be developed in cooperation with industry and Member States experts. This could be put forward in a Memorandum of Understanding (MoU) between the European Commission and industry representatives	JRC.E.5	HOME	JRC	MOVE	2021-01-01	2023-12-31	CON-IA INS-RS	3040520	2	Harmonised testing protocols for technologies defined	After defining performance requirements, JRC in cooperation with Industry, Member State experts and DG HOME (in the working group format) will focus on developing harmonised testing methods. These will be used to verify the capability of the detection systems to fulfil all, or some, of the performance requirements. As a starting point, the efforts will be concentrated on developing testing methods for: a)Handheld detectors for explosives (E) and chemicals (C) including explosives field test kits b)Conventional x-ray	2022-06-01	Technical Reports	N
5. Promoting our European Way of Life	5.2 Internal Security	20390	TDSS	Threat Detection and Security Standards	JRC.E.5	30962	AI-4-SECURITY	Artificial Intelligence for EU Security	The project comprises a number of targeted applications of AI to security, including machine learning to automatically detect threats in X-ray images of scanned luggage, and investigating a new more objective test method to measure the image quality of X-ray equipment currently relies solely on human screeners to identify threats by evaluating a visual image. In 2019, there were over 1 billion air passengers in the EU. Furthermore, conventional x-ray is used outside aviation, e.g. to protect government buildings and other secured locations. This project can potentially make a significant impact and improvement in terms of frontline security. Additionally, the project will contribute to the growing knowledge and competence within JRC in the exciting field of artificial intelligence, and in particular within Directorate E's work on security.	JRC.E.5	HOME	JRC	MOVE	2021-01-01	2023-12-31	INS-RS	3042759	2	Develop a novel method and software for automated detection of morphed images.	Develop a novel method and software for automated detection of morphed images.	2022-07-01	Sci information systems and databases	N

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																	3042760	3	Algorithms for automatic threat detection and/or image quality assessment in X-ray images	computer vision and machine learning to automate certain tasks in x-ray screening which have been performed by subjective human analysis for many years.	2022-12-31	Technical Reports	N
																	3071844	4	Next-generation assessment of X-ray image quality	Conventional X-ray equipment has to provide a high-quality image to human screeners so that they can identify threats effectively. The standards and test method for X-ray image quality have not been changed in 20 years, and currently suffer from predictability and lack of objectivity. JRC will propose a new set of requirements and a new test method, underpinned by a scientific study highlighting the problem and high-quality test materials to implement the new test method. First steps in automatic assessment of X-ray image quality using computer vision will also be taken.	2022-06-30	Technical Reports	N
5. Promoting our European Way of Life	5.2 Internal Security	20430	SMART-PROTECT	Protection of Public Spaces	JRC.E.4	30309	TRAPS	Terrorism Risk Assessment for Public Spaces	The worldwide rise of terrorism has led many Member States and local authorities to the realisation that public spaces, critical infrastructures and other exposed assets may be potential targets of terrorist attacks. The aggressors may employ different attack strategies, including tactics that exploit recent technological developments, such as the use of Unmanned Aerial Systems. Risk assessment aims at estimating the potential impact of terrorist acts, their severity and their probability of occurrence. Assessing the risk of a certain asset against terrorist attacks is a complex procedure as it entails a great degree of uncertainty, due to the nature of the terrorist threat. As a result, the project responds to the high demand from several public authorities and private stakeholders for the development of a scientifically based risk assessment procedure that may assist them to prioritize and implement effective, resource-efficient and proportionate protection of their exposed assets.	JRC.E.4	HOME	JRC	EEAS HR MOVE OIB REGIO	2021-01-01	2023-12-31	INS-RS	3014106	002	Support the development of a vulnerability assessment tool	The risk assessment procedure will be integrated and developed in parallel to the tool developed by DG HOME concerning the vulnerability assessment of public spaces against terrorist attacks	2022-12-31	Technical Reports	N
																	3014107	001	Development of guidelines for the terrorism risk assessment of public spaces	As set out in the Action Plan to support the protection of public spaces, we need a better understanding of terrorism trends and risks regarding attacks against public spaces. The JRC will provide an updated methodology on the risk assessment against terrorism threats.	2021-12-31	Technical Reports	N
5. Promoting our European Way of Life	5.2 Internal Security	20430	SMART-PROTECT	Protection of Public Spaces	JRC.E.4	30310	TerrorData	Terrorism data for policy	The risk of terrorism is difficult to assess as terrorism is an intentional man-mad hazard, which follows no specific patterns. The terrorist threat is always changing and terrorists search new modus operandi and attack new targets in order to achieve their aims of spreading fear and instability. In an interconnected world, terrorists share ideas and experience of emerging threats through propaganda publications and social media. Attack methods used far away can quickly be applied on European soil. Event-based assessment of terrorism can provide indication of the level of probability and modus operandi of terrorist attacks helping decision making in quantifying threat levels. There are commercial databases listing terrorist events are available on one side but they are not tailor-made for the purposes of security operators and authorities in a EU urban set-up. In addition, commercial licenses and strict terms of use make it difficult to share the data with external partners. At the same time, daily media provides a valuable source of information even if challenging for statistical analysis. Collecting media data and processing it with machine learning approaches will provide a tool for which there is strong demand from several EU institutions (e.g. DG HOME, DG HR.DS, EEAS (field security and Intcen), EUROPOL).	JRC.E.4	HOME	JRC	ECHO EEAS HR MOVE	2021-01-01	2023-12-31	INS-RS	3002285	001	JRC Open Terrorism Database	EMM event module will be used to create an open terrorism dataset. Machine learning approaches should categorize the different inputs. User feedback should be used in order to enhance the results. The database should be open for EU institutions and MS institutions.	2022-12-31	Technical systems	N
																	3068971	1	Intermediate report convcerning the terrorism database	Report to document the ongoing work concerning the terrorism database.	2021-12-17	Technical Reports	N
																	3098568	004	Feasability study to use EMM to create data about radicalisation	The experience of the JRC open terrorism database should be extended for the use for radicalisation data. This study should show if that is feasible.	2022-12-31	Technical Reports	N
5. Promoting our European Way of Life	5.2 Internal Security	20430	SMART-PROTECT	Protection of Public Spaces	JRC.E.4	30311	Perimeter 5D	Protection of Public Spaces by Innovative Solutions	The activity addresses the need of the protection of public spaces against the risk of terrorism. The recent attacks in Europe have targeted public spaces which are the core of our social life. Attacks on unprotected public spaces can be done with low-cost weapons and without much preparation while they have high impact in terms of loss of human life, they steering fear and disrupt our way of life. The risk of terrorism can be mitigated by reducing the availability of modus operandi, limiting radicalization and extremist propaganda, or detection of potential perpetrators. Public spaces, however, will benefit from protection in their everyday functioning as intelligence services and police forces cannot provide full-proof removal of the terrorist threat. This project addresses the protection of public spaces through physical and technological measures, which are effective, proportionate and cost-efficient.	JRC.E.4	HOME	JRC	EEAS GROW HR MOVE OIB REGIO	2021-01-01	2024-12-31	INS-RS	3003804	002	Generic numerical vehicle models for barrier testing	Terrorist attacks on public spaces employing vehicle ramming as modus operandi have become recurrent in Europe in the last years. Different barrier types are implemented by the local authorities to protect city centres. What is still missing in exploiting the potential of numerical tools in the testing of vehicle barriers are generic harmonized numerical models for various vehicle classes. Such general vehicle models should be made available to the relevant stakeholders for the development of numerical techniques which should serve as a basis for harmonization and eventual standardization.	2021-12-17	Technical systems	N
																	3004767	003	Newsletter for the Protection of Public Spaces	The action plan to support the protection of public spaces highlight the importance for exchange related expertise and best practice. The newsletter issued in close cooperation with DG HOME will inform stakeholders about new material from EC level, new strategies or techniques, research results and future meetings.	2021-12-31	External study reports	N

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5. Promoting our European Way of Life	5.2 Internal Security	20430	SMART-PROTECT	Protection of Public Spaces	JRC.E.4	30445	SLA4F4E 2019-2021	Service Level Agreement for Fusion for Energy	The work is commissioned by Fusion for Energy (F4E) in support to the on-going ITER construction during which many technical problems/challenges need to be addressed. To do this, F4E intends to make use of the unique experimental and numerical know-how available in the E4 Unit.	JRC.E.4	ENER	(blank)	(blank)	2021-01-01	2021-12-09	CON-TW	3010869	001	Final report	...	2020-12-06	Technical Reports	N
																	3010873	002	Final report	Report about the numerical and experimental investigations	2021-12-06	Technical Reports	N
5. Promoting our European Way of Life	5.2 Internal Security	20430	SMART-PROTECT	Protection of Public Spaces	JRC.E.4	31061	DRONE	DRONE and counter DRONE security	The application of Unmanned Aircraft Systems (UAS) is becoming very popular in many areas and U-Space services are maturing in parallel with implementation of the new UAS regulations. In Europe common services have been defined to increase UAS use in agriculture, transport, survey, surveillance etc. These, U-SPACE services, harmonises the European UAS market and should increase applications, developments and services linked to UAS. While UASs has a very large potential for commercial applications there is also potential for misuse. UAS can be used to breach privacy rules, for espionage by using camera technologies, to hijack telecommunication signals and in combination with biological or chemicals agents, explosives or other weapons they can harm persons, disrupt services and damage infrastructure. UAS and components are available on the market off the self, which could be modified for a specific malicious purpose. There is therefore a need for counter measures to control non-collaborative or malicious use of UAS. Although the majority of non-collaborative use of UAS would probably fall into the category non-intentional (careless or clueless), it is not to be excluded that criminals and terrorists would increasingly make use of them. Across the globe, UAS have already been used in terrorist attacks. The events at Gatwick and Heathrow airports in December 2018 as well as similar events against critical infrastructure shows the importance for	JRC.E.5	HOME	JRC	DEFIS EEAS GROW HR MOVE REGIO	2021-01-01	2023-07-01	INS-RS	3058739	1	Support to counter UAS initatives (EASA, NATO,HOME, MOVE..)	There will be continous reporting from meetings and conferences	2021-12-31	Technical Reports	N
																	3072721	2	Living lab implementation project plan.	Living lab implementation project plan.	2021-08-01	Technical Reports	N
																	3072722	3	UAS and counter UAS connected site	UAS and counter UAS connected site	2021-04-01	Technical systems	N
																	3072723	4	Development of handbook with best practices for counter-drone solutions.	Development of handbook with best practices for counter-drone solutions. This will be the result of the living lab implemantation and this handbook will be a guide to critical infrastructure stakeholders on how to protect and what to include in the implementation project.	2021-12-31	Technical Reports	N
5. Promoting our European Way of Life	5.2 Internal Security	20720	CHARM	CBRN threats and risk mitigation	JRC.E.7	30610	CENIGN	Chemical Threats & Risk Management	An EU CBRN action plan was adopted in 2009 (and revised in 2017) with actions concerning prevention, detection, preparedness and response in the context of high-risk CBRN materials. Synergies were then identified with the Action Plan on Enhancing the Security of Explosives leading to a new CBRN-E Agenda and a corresponding communication (COM/2014/0247) on security of production, storage, handling and transportation of high-risk CBRN and E materials. EU Security Policy (COM/2018/0470) asked for improved cooperation at the EU level for a better understanding of the CBRN threat and pooling of resources to increase preparedness. This project aims take the recommendations of these policies focussing on Chemical Threat Risk Management and further hopes to mine the EU Chemicals framework 2030 to highlight gaps with respect to Chemical security. Though EU Member States are primarily responsible for protecting their citizens, it is clear that a coherent and consistent approach to Chemical Threat Risk Management at EU level would have even more added value especially for cross-border incidents. Seeing the disparate approach to Covid-19 crisis management amongst EU-MS it is thus likely that EU-MS would be more open to harmonising their Chemical Threat Preparedness & Response Plans too. To further support this, this project also aims to have strong links with communities of practice such as the	JRC.E.7	HOME	JRC	ECHO	2021-01-01	2025-12-31	INS-RS	3017847	202102	Provision of support to the Global Health Security Initiative by examining EU-MS preparedness for Chemical threats	Contribute to improving / extending the Global Health Security Initiative by examining EU-MS preparedness for Chemical threats in areas such as Prevention, Detection & Reporting, Speed of Response, Health System, Compliance with International Standards and Risk Environment.	2022-05-31	Technical Reports	N
																	3017848	202101	Tailored Needs Assessment Questionnaire covering chemical security	Supporting EU-MS by creating a tailored Needs Assessment Questionnaire covering chemical security.	2021-09-30	Technical Reports	N
																	3017855	202103	Support EU MS law enforcement forensics laboratories and other laboratories for testing and detection of Chemical agents (provision of online training)	Support EU MS law enforcement forensics laboratories and other laboratories for testing and detection of Chemical agents (provision of online training)	2022-06-30	Training	N
																	3017856	202104	Mine the EU Chemicals framework 2030 for chemical security gaps	Mine the EU Chemicals framework 2030 for chemical security gaps, including in early warning systems and for gaps in safety and transport labelling (CLP, GHS and ADR) as well as suggesting a system for security labelling.	2022-11-30	Technical Reports	N
																	3017857	202105	CENIGN Annual Activity Report 2021	Annual Activity Report for all work done under the CENIGN project in 2021	2021-12-31	Technical Reports	N
																	3017858	202106	CENIGN Annual Activity Report 2022	CENIGN Annual Activity Report 2022 for all work done in 2022.	2022-12-31	Technical Reports	N

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5. Promoting our European Way of Life	5.2 Internal Security	20840	DFILE	Digital Forensic Investigation Techniques for Law Enforcement	JRC.E.3	30800	FORECAST	FOrensic REsearch on Cyber, Automotive and Smarthome Technologies	Digital technologies are the underlying enablers of the digital transformation process that is changing the way in which people live their lives, interacting with each other and their environment. The increased adoption of digital products and services in citizen's homes and the digitalization of vehicles have opened new opportunities to law enforcement forensic investigators. Smarthome environments and modern vehicles have become a new rich source of potential evidence to assist in the investigation and prosecution of crimes. There is currently a high demand in the European Law Enforcement Community to design and develop new forensic techniques reinforcing and complementing the existing investigative capabilities of Member States and helping to overcome the increasing challenge of smart forensic countermeasures applied by criminals.	JRC.E.3	HOME	JRC	(blank)	2021-01-01	2022-12-30	INS-RS							
5. Promoting our European Way of Life	5.2 Internal Security	20840	DFILE	Digital Forensic Investigation Techniques for Law Enforcement	JRC.E.3	30820	BRASSA	Biometric Research Applied to Security in the Schengen Area	The implementation of biometrics within large scale IT systems triggered new challenges which need to be carefully addressed in order to mitigate error rates to lowest possible level and respect the fundamental right of data subjects with stringent safeguards. As main foundation of efficient systems, quality of data and its assessment are of paramount importance. Accurately defined with interoperable quality metrics, these levels will be determinant in the development of different ways of implementation in support of fight against crime with expert forensic techniques and border security with reliable access controls. This approach has been initiated with the proposal in May 2018 for amending VIS regulation lowering the age limit for collection children fingerprints and the revision of the SIS regulations in November 2018 introducing new biometric modalities. The performance of large scale IT systems will be fostered by improving their adaptability to the diversity of data subjects (age and gender) and to various biometric modalities (fingerprint, face, latent, palm-print) relying on innovating approaches such as touchless technologies.	JRC.E.3	HOME	JRC	JUST	2021-01-01	2022-12-30	INS-RS	3035125	FQ	A quality metric algorithm for face.	Starting from the initial development accomplished with the University Autonomous of Madrid (UAM) in 2020, this deliverable will group the project outcomes contributing to the design, development and promotion of a face quality metric algorithm. This metrics will determine the Quality value of each face image as a predictor of the matching performance. In other words, to determine the utility of any face image based on its quality score.	2021-12-31	Technical Reports	N
																	3035126	LAM	A comparison algorithm (matcher) for 3D scanned fingerprints.	Built on the preliminary results from 2020, this deliverable will consolidate the development of a Touchless fingerprint reader generating 3D scanned fingerprint.	2021-12-31	Technical Reports	N
																	3035127	FFQ	A quality metric algorithm for fingermarks	This deliverable will group the project outcomes contributing to the design, development and promotion of a fingermark quality metric algorithm. This metrics will determine the Quality value of each fingermark as a predictor of the matching performance. In other words, to determine the utility of any fingermark based on its quality score.	2022-12-30	Technical Reports	N
5. Promoting our European Way of Life	5.2 Internal Security	20840	DFILE	Digital Forensic Investigation Techniques for Law Enforcement	JRC.E.3	30821	AVICAO	Authors and Victims Identification of CSA On-Line	Within its portfolio DFILE (Digital Forensic Innovative techniques for Law Enforcement), unit E.3 has developed since 2013 a series of research activities combating the distribution of child abuse material through all kind of online environments as well as tackling forms of criminal online behavior against children, such as grooming, self-generated indecent material, sexual extortion and web live streaming. Those research activities have been identified and selected in close collaboration with DG HOME colleagues and Europol/EC3 Analysis Project TWINS. The unit is providing scientific contribution on a targeted way within the different steps addressing this crime from prevention to prosecution. Due to the always increasing huge amount of multimedia files to be processed fostered also by digital transformation, an average of 2,5 years backlog is today imposed before such evidences are presented to a judicial court. The objective is to reduce this processing time by efficiently assist investigators and foster the performance of those techniques so they can be used not only for intelligence purpose but also to produce solid and court-proof forensic evidence that can be used during legal prosecution. Triggered by the 2013 EU cybersecurity strategy (renewed in September 2017) on the fight against Child Sexual Abuse (CSA) on-line, the aim of the project is to support the new policy of the security of the Union (to be adopted in June) with innovative digital forensic investigation techniques. Those techniques are complemented by scientific support on the identification	JRC.E.3	HOME	JRC	JUST	2021-01-01	2022-12-30	INS-RS	3039872	PREV	EU member States knowledge portal for prevention policies	To be conceived as a Knowledge portal, this tool aims at actively guide Member States to comply with a series of Union initiatives (in particular Directive 2011/93/EU) and facilitate the identification of best practices for their implementation as prevention policies. It will rely on the large conference with MSs organised in 2020 and the new updated report produced by the JRC the same year.	2021-03-31	Sci information systems and databases	N

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5. Promoting our European Way of Life	5.2 Internal Security	20840	DFILE	Digital Forensic Investigation Techniques for Law Enforcement	JRC.E.3	30822	DOCIDT	Disrupting Organised Crime with Innovative Digital Technologies	The first generation of this project since 2013 has brought a determinant contribution to the development of efforts for disrupting organized crime and tackling terrorism in particular regarding the characterization of the criminal activities by improving access to digital evidences. Organised crime and terrorism are aggressively taking advantage of the digital transformation and most of their criminal activities are now supported by IT tools including sophisticated encryption solution and obfuscation techniques or new mode of attack based on Artificial intelligence. As demonstrated by the alarming data contained in reports such as the EU Drug Markets Report 2019, there is an urgent need for stronger EU-wide coordinated action on monitoring the Darknet to counter rising threats from criminal activities such as trafficking and distribution of drugs and other illegal substances, illegal arms trading and human trafficking. Hard-to-track communication on the Darknet has become a key element of such illegal operations, especially cross border, and its effective monitoring remains a challenge for EU Member States' law enforcement authorities. Not all these authorities possess adequate means to explore with targeted tools the Darknet or effectively coordinate joint EU actions and cooperation in this area. The aim of this project is to support the new security Union strategy (to be adopted in June 2020). The development of innovative technologies will further level the playing field of law enforcement authorities in full compliance with the EU charter for fundamental rights.	JRC.E.3	HOME	HOME JRC	JUST	2021-01-01	2022-12-30	CON-AA INS-UR	3048708	QT	Relevance of quantum programming languages to digital forensic techniques	This deliverable will map and identify existing quantum programming languages. It will provide a comparative analyse regarding their relevance for digital forensic techniques based on a series of simulations to be conducted within the HPC environment of the unit.	2021-11-26	Technical Reports	N
																	3048709	EDP	Europol decryption platform	This deliverable aims at contributing to the management of the Europol decryption platform, its further development phases and eventually the design of its 4th generation. The contribution of the deliverable range from customized application (hashtopolis and hashcat) running on the platform as well as the hardware used.	2022-12-30	Technical Reports	N
																	3048711	DW	An application suite for addressing the challenge of Darkweb	This deliverable will produce an application suite for efficient Darknet monitoring at EU level, which will be made available to the EU and the Member States' law enforcement authorities, together with training and assistance in coordination and capacity building for joint European Darknet monitoring. The solution should cover drugs, other commodities such as firearms as well as cybercrime and cyber enabled crime and child sexual abuse. It should build on operational knowledge and scientifc skills developed within Europol, the European Monitoring Centre for Drugs and Drug Addiction (EMCDDA) and the Joint Research Centre.	2022-12-30	Sci information systems and databases	N
5. Promoting our European Way of Life	5.3 Skills, education and youth	20466	LFL	Lifelong Learning	JRC.B.4	30637	LifeComp	Implementation of the LifeComp competence framework	The current AA (LifeCompintoPractice) foresees new work supporting the implementation of the LifeComp framework providing input and support to put the framework into practice. The LifeComp framework is developed by JRC on behalf of DG EAC, under the LLDA and LLDA-2 AAs. It is a contribution to the 2018 Council Recommendation on key competences for lifelong learning. Person, social and learning to learn (PSL) is one of the 8 key competences. Providing input and support to put the framework into practice.	JRC.B.4	EAC	EAC	RTD	2021-01-01	2021-12-31	CON-AA	3022343	1	Guidelines on teaching LifeComp competences	The report will describe how the LifeComp competences can be put into practice, based on analysis of existing innovative projects and teachers consultations.	2021-06-30	Science for Policy reports	N
																	3094769	2	Case studies report on the implementation of Lifecomp competences	The report will identify 3 to 5 existing scalable educational initiatives and/or Member States educational systems with whom the possible implementation of the LifeComp framework will be discussed. The report will focus on identifying the conditions such as school strategies, teaching and assessment practices, and continuing professional development policies, which facilitate the development of the LifeComp competences among the school community.	2021-09-30	Science for Policy reports	N
						30639	CompVal	Key Competences Validation (CompVal)	Key Competences for lifelong learning and employability are increasingly becoming important as a result of digitalisation of the economy and the changing nature of work, jobs and tasks. The competences refer to transversal skills such as entrepreneurship and digital, as well as non-cognitive skills such as resilience, creativity, collaboration, etc. This project covers work related to the 2018 Council Recommendation on key competences for lifelong learning, and is a contribution to the Commission's priority on Europe fit for the Digital Age and an Economy that works for people.	JRC.B.4	EMPL	EMPL	EAC	2021-01-01	2022-11-30	CON-AA	3022531	1	DigComp2.2: Update of the Digital Competence framework for citizens	The work will consist of creating examples of knowledge, skills and attitudes that are applicable to each one of the 21 competences that pertain to the conceptual model. The aim is to give new and fresh examples in order to demonstrate how DigComp can be used to deal with emerging topics such as critical reading of messages and content posted on social media (e.g. misinformation, disinformation, mal information; fake news, deep fakes); emerging ways in which algorithms are used to attract attention (e.g. product/content recommendations, filter bubbles and eco chambers); use of voice commands on AI based tools (e.g. Alexa, Siri) and how to become critical about the responses; personal data in the area of AI (e.g. training algorithms in face recognition); the use of robotics and human interaction with them, to mention but a few.	2021-12-10	Science for Policy reports	N
																	3022546	2	Bundling of key competence frameworks	JRC has developed several conceptual competence framework directed at individuals, in particular DigComp, EntreComp and LifEComp (Personal, Social and Learning to Learn). All these frameworks describe key competences people increasingly need to participate and work in our digital society, addressing what some describe also as 21st century skills. This work will focus on combining the different frameworks or their constituent individual competences to address more holistically individuals' needs in terms of up-skilling or re-skilling.	2021-12-05	Science for Policy Briefs	N
																	3022547	3	MOOCs for migrants and refugees	JRC developed a catalogue of initiatives on MOOCs and free online learning opportunities for migrants and refugees. This report will provide and update of initiatives and an anlysis focussed on bottlenecks and opportunities.	2021-12-20	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
5. Promoting our European Way of Life	5.3 Skills, education and youth	20466	LFL	Lifelong Learning	JRC.B.4	30640	KeyComp-INST	Key Competences for lifelong learning - INST	Institutional support activities for the Key Competences for lifelong learning project portfolio, containing also contributions to JRC institutional projects and exploration of new avenues for research on key competences for lifelong learning.	JRC.B.4	EMPL	JRC	EAC	2021-01-01	2022-12-31	INS-RS	3022570	1	Key Competences for lifelong learning	Science for Policy brief on new issues related to key competences for lifelong learning.	2021-12-13	Science for Policy Briefs	N
5. Promoting our European Way of Life	5.3 Skills, education and youth	20466	LFL	Lifelong Learning	JRC.B.4	31260	GreenComp	Development of a European Framework for Education for Environmental Sustainability	The purpose of this project is to support DG EAC in the development of a European Competence Framework on Education for Environmental Sustainability by providing desk research on existing frameworks and approaches, organising an expert seminar, and elaborating a draft framework.	JRC.B.4	EAC	EAC	CLIMA	2021-01-01	2021-12-31	CON-AA	3078670	1	Draft EES competence framework	The report will describe the draft EES framework, providing a common definition and conceptual framework consisting of a list of competences, clearly defined and described and structured around a number of competence areas.	2021-10-04	Technical Reports	N
5. Promoting our European Way of Life	5.4 Health	20000	Combat Disease	Combatting cancer and other diseases	JRC.F.1	30000	KCC	EC Knowledge Centre on Cancer	Cancer causes more deaths in people under 65 than any other disease in the EU. If no action is taken, the number of citizens newly diagnosed with cancer every year will increase from the current 3.5 million to over 4.3 million by 2035. On 04 February, 2020 new Commission President, Ursula von der Leyen, endorsed the 'Europe's Beating Cancer Plan', to support MSs in improving cancer control and care'. The new EC Knowledge Centre on Cancer (which is referenced in the draft Cancer Plan) will foster one EC coordinated approach to tackling cancer, it will incorporate cancer-related activities within the JRC; within the EC; and include the most important cancer stakeholders, societies, and advocacy groups in Europe. It will support the new Europe's Beating Cancer Plan (DG SANTE); the new Mission on Cancer (DG R&I); and the future European Health Data Space. This project will foster one coordinated and united approach to tackling cancer at the Commission level. This will effectively facilitate prospective planning and foresight, in a coordinated way, for future programmes such as the Action Plan and Mission. This will represent a break from the past when such programmes were planned and executed in isolation. JRC has the independence, the S&T competence and the networks to set it up while the governance of this Knowledge Centre will be with three DGs, namely JRC, SANTE and R&I. An inter-service group of all DGs working, either directly or indirectly, on cancer, will be established and stakeholder networks will be engaged, as needed, to ensure coordination and synergy.	JRC.F.1	SANTE	SANTE JRC JRC	RTD	2021-01-01	2025-12-31	CON-AA CON-AA CON-AA INS-PoC INS-RS	3000000	KCC1	KCC Website/Platform	This Website/Platform is the entry point to the Knowledge Centre on Cancer and includes links to all cancer related activities in the JRC and in the European Commission (with links to stakeholder relevant activities on cancer)	2021-07-15	Technical systems	N
																	3001056	ECIS1	Training activities of the European Network of Cancer Registries and the JRC	Organisation and scientific coordination of ENCR-JRC on-site training courses, plus development and implementation of e-learning platform.	2022-12-20	Training	N
																	3003856	KCC2	Definition of metadata of CR core data variables, with semantic linkage	Description of metadata defining the ENCR (European Network of Cancer Registries) core data set. Metadata will be defined in terms of the ISO 1119 (Metadata Registry standard). Semantic links to standardised terms will be defined using SKOS (Simple Knowledge Organisation System).	2021-11-20	Technical Reports	N
																	3003860	PoC1	Ontology-based toolkit for validating ENCR (European Network of Cancer Registries) data sets	Toolkit for checking the consistency of data variables against the predefined ENCR rules of data sets submitted for inclusion into the European Cancer Information System (ECIS). The toolkit is developed under JRC's Proof of Concept programme and is based on a novel way of validating data using knowledge systems, allowing an easier devolvement of the toolkit to the local level.	2021-11-20	Technical systems	N
																	3003865	ECIS2	Support to ENCR activities for the harmonisation of European cancer-registration processes, practices and data	Release of reports, guidelines, recommendations, software tools and field visits to the European cancer registries aimed at harmonising their data coding and data collection processes. Organisation and scientific coordination of ENCR meetings and events (three/four Steering Committee meetings per year, plus the 2022 ENCR Scientific Meeting and General Assembly), and maintenance/improvement of the information-exchange infrastructure (ENCR web-site, newsflashes, mailbox) to keep the cancer-registries community informed and networked.	2022-12-20	Technical Reports	N
																	3003866	ECIS3	Enhancement and formalisation of the cancer data processing workflow	Revision and improvements of software and procedures to centralize the management, analysis and dissemination of European cancer registries data (patient-level records).	2022-12-15	Sci information systems and databases	N
																	3003873	ECIS4	Computation of geographical estimates and predictions of cancer burden indicators, computation of statistics on childhood tumours	Release of 2022 cancer incidence and mortality predictions, release of updated country-level statistics to complement historical statistics for the countries without full-registration coverage, release of statistics on childhood tumours.	2022-12-15	Datasets	N
																	3003894	ECIS5	Publication of updated statistics in the ECIS web application	Updating the ECIS website with the following statistics: up-to-date historical indicators computed from the cancer-registry data (patient-level records) collected through the 2020 call, geographical estimates to display country-level statistics for the countries without full-registration coverage, 2022 incidence and mortality predictions, statistics on childhood tumours.	2022-12-20	Sci information systems and databases	N
																	3003895	ECIS6	Federating the computation of European cancer burden indicators	Implementing a decentralised approach for the computation of cancer burden indicators from cancer registries data.	2022-12-16	Sci information systems and databases	N
																	3003905	ECIS7	Geocoding the cancer burden indicators	Enable the dissemination of cancer burden indicators in the ECIS web application according to geographical detail, rather than by registry.	2022-12-22	Sci information systems and databases	N
																	3003916	RD1	Provision of the EU RD Platform's infrastructure and tools to cancer registries	The information needed for registering in the EU RD Platform's Directory of Registries and Central Metadata Repository will be provided to cancer registries, together with guidance, support, training. The Platform's website will be updated including participating cancer registries which will become available for public search via EU RD Platform's tools	2022-12-20	Sci information systems and databases	N

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																	3003928	HP1	Health Promotion and Disease prevention Knowledge gateway briefs	Web-based technical reports providing reliable, independent and up-to date information on topics related to the promotion of health and well-being, in particular the prevention of non-communicable diseases like cardiovascular disease, diabetes and cancer.	2022-12-20	Technical Reports	N
																	3003953	HCQuality1	European Commission Initiative on Breast Cancer (ECIBC): Release of the feasibility-checked Quality Assurance scheme with up-to-date European Breast Cancer Guidelines used across Europe and beyond	After finalisation of the first version of the QA scheme, the feasibility check will be completed in real settings leading to a revised QA scheme incorporating the feed-back received and making it ready for implementation by breast cancer services. In due course the European Breast Cancer Guidelines will be kept up-to-date and practical use fostered. OUTPUTS: •Output 1: Release of the QA Scheme (Scheme Owner Manual, Manual for Conformity Assessment Bodies, Manual for Breast Cancer Services, tools to support the implementation – self assessment tool and Quality Indicators' calculator) •Output 2: Up-to-date European Guidelines on Breast Cancer Screening and Diagnosis •Output 3: Increased use of European Guidelines on Breast Cancer Screening and Diagnosis in more countries (already in process of being used/adapted/implemented in 13 countries)	2021-12-20	Technical Reports	N
																	3003979	HCQuality2	European Commission Initiative on Colorectal Cancer (ECICC): Activities launched by training the newly formed expert panel (ECICC executive) and publication of the first recommendations on colorectal	After selection of the executive expert panel, a session will be organised to inform and train the experts on the new methodology applied by the Commission for the definition of recommendations on primary prevention, screening and diagnosis of colorectal cancer, together with the corresponding quality indicators covering possibly the entire cancer care pathway. OUTPUTS FOR 2021: •Output 1: ECICC executive training session •Output 2: Selection of healthcare questions to be covered within ECICC guidelines and quality assurance scheme •Output 3: Evaluation on screening indicators •Output 4: Healthcare quality website adapted to host the ECICC project •Output 5: First recommendations on colorectal cancer primary prevention, screening or diagnosis published together with the corresponding quality indicators	2021-12-15	Technical Reports	N
5. Promoting our European Way of Life	5.4 Health	20000	Combat Disease	Combatting cancer and other diseases	JRC.F.1	30025	ECHT	Emerging & Converging Health Technologies	Healthcare is key to well-being, productivity and quality of life. Yet, it is challenged by various 'stressors': an aging population, the cancer burden and new diseases, e.g. COVID-19. Modern healthcare rests on health technologies, defined by WHO as the 'application of organized knowledge and skills in the form of devices, medicines, vaccines, procedures and systems developed to solve a health problem and improve quality of lives'. Innovative health technologies are critical for coping with above stressors. Increasingly, technologies converge in single products or services linked along a clinical pathway. There are three major strands of such innovation: (1) big data, connected devices and artificial intelligence (AI) enhancing accuracy of diagnostics/treatment, fostering the understanding of disease causation and enabling patient self-care; (2) hybrid technologies to address unmet medical needs; (3) advanced source materials for enhanced safety, performance and sustainability profiles. The new EU regulatory framework for medical devices/diagnostics contains pathways for safe innovation. The Commission priorities emphasize data, artificial intelligence/AI and machine learning in health, but also the need for a future-ready economy (e.g. new industrial strategy) and societal equality (e.g. access to modern healthcare). However, there are uncertainties concerning the assessment framework of innovative products, possibly hampering industry's capacity to innovate as well as the EU's strategic autonomy. Health technology assessment (HTA) needs to become more efficient to ensure continued access to innovative and	JRC.F.2	SANTE	SANTE SANTE RTD RTD SANTE JRC JRC	CNECT GROW RTD	2021-01-01	2025-12-31	CON-AA CON-AA CON-IA CON-IA CON-IA INS-RS INS-UR	3014218	˙1framework	The AI-Innovation in healthcare: towards a risk-benefit assessment of AI-based hybrid technologies	The advent of AI-based technologies in healthcare and in particular diagnostics promises to deliver several advantages to clinical practice, including enhanced accuracy, reliability and speed of diagnostic decision making. When used within clinical pathways AI-based tools will have a major influence on treatment decision-making and overall outcomes. However, risk, disadvantages and pitfalls concerning the use of AI-based hybrid health technologies are currently insufficiently discussed – in particular concerning safety assessment, stakeholder empowerment and aspects of privacy and data control. The report aims to explore advantages and disadvantages of such technologies in clinical practice, determining a possible framework for standardised risk-benefit determination, taking some idiosyncrasies of AI-technologies into account, notably the lack of transparency of decision making by self-optimising machine learning / statistical tools.	2021-12-31	Journal contributions (Scopus)	N
																	3027596	ovidDiagno	A systematic review of the value of Artificial Intelligence in imaging applications for lung diseases – from lung cancer, COPD, tuberculosis to pneumonia and COVID-19	AI-based systems supporting imaging of lung diseases promise to speed up diagnostic decision making and accuracy. This is particularly relevant for large-scale applications of such diagnostic tools, e.g. for cancer screening and to cope with acute challenges due to pandemics as illustrated by the COVID-19 outbreak. The systematic review will examine the experiences with AI-based systems for various lung diseases in view of concluding on potential gains or need to improve existing systems. A particular emphasis will be on the interaction of the AI-based decision system with health practitioners.	2021-10-31	Journal contributions (Scopus)	N
																	3027597	3DiabetesLo	Towards improved patient autonomy: a systematic review of the value of Artificial Intelligence in closed-loop systems for diabetes treatment	Diabetes treatment has long suffered from the lack of coupling between acute information on glucose levels and the initiation of (bolus) injections of insulin, impacting on patient's autonomy and quality of life, in particular in respect to physical activity. Recent advances have let to hybrid technologies, involving the combination of advanced minimally invasive glucose sensor technologies and delivery systems, arranged in 'closed loops' as cybernetic feedback-control systems. Artificial intelligence promises to take this a step further by involving machine learning algorithms for patient-specific settings and adaptability of closed-loop systems. The review will examine the experiences with closed-loop systems for clinical care of diabetes and explore to which extent AI-based technologies enhances patient independence.	2022-04-30	Journal contributions (Scopus)	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3027598	CovidComo	Big data and AI for the analysis of comorbidity-related risks for COVID-19	Although there may be many communalities of COVID-19 with SARS, the precise specifics of disease mechanisms and risk factors in terms of genetic disposition and existing comorbidities (independent on whether these are due to genetic factors or not), will emerge over the next months and years. Based on a literature review of published studies, the report will examine the utility of big data / AI for determining causative factors related to comorbidities and COVID-19 course of disease (e.g. general etiophathology, severity, duration, long-term effects and complications).	2022-07-31	Journal contributions (Scopus)	N
																	3027719	CovidRemot	Telehealth and telemonitoring tools used during the COVID-19 outbreak: a lessons-learned analysis for future preparedness of health systems under stress	COVID-19 has presented unprecedented challenges to health systems and required quarantine and isolation measures of a hitherto unknown scale. The report will, map innovative (e)health technology-based solutions developed or deployed during the Covid-19 pandemic to alleviate stress on health system and analyse what lessons can be learned to address shortcomings in crisis response or patient care for future outbreaks. A focus will be on telemedicine / remote monitoring. The review will explore the usefulness of inter alia (1) technologies to monitor and support patients who do not need to be hospitalised, (2) remote monitoring and quality assurance for other essential hospital services during reallocation of hospital resources to pandemic response; (3) Virtual health technology for cooperation between hospitals and urgent care services to share resource availability and best practices; (4) Use of telehealth strategies in the context of social and palliative care.	2022-08-31	Journal contributions (Scopus)	N
																	3027794	CovidTesting	Optimising disease detection during pandemic outbreaks: a lessons-learned analysis of testing strategies, case definitions and testing approaches during the COVID-19 outbreak in the EU	During the Covid-19 pandemic national contact tracing and testing strategies, target populations, case definitions and available test methods differ widely globally and at EU MS level. The review will provide a systematic comparison of different national testing strategies in EU MS, taking into account best practice from other countries (e.g. South Korea, Singapore, Hong Kong), timeliness of national preparedness efforts in the context of the overall pandemic development, involvement of public health stakeholders, manufacturers and laboratories.	2022-02-28	Journal contributions (Scopus)	N
																	3027857	CovidIndRepu	Industrial repurposing to overcome shortages of medical devices: a lessons-learned analysis of EU and global approaches with a focus on feasibility to scale-up and preparedness	Faced with shortages in PPE and medical equipment during the COVID-19 outbreak, several countries have repurposed textile and engineering industries to increase production or have employed innovative solutions to repurpose equipment or produce it differently, e.g. by 3D printing. The review will provide an analysis of different approaches taken by countries globally and assessment of speed of such interventions and feasibility to scale-up in view of determining best approaches for future preparedness.	2022-10-31	Journal contributions (Scopus)	N
																	3027991	Γ8CovidAT/	Immunotherapy against COVID-19	ATAC is an RTD-sponsored project and aims at developing passive immunotherapy against COVID-19. JRC is one of the partners of the project. Human antibodies will be obtained from blood of CoV-recovered donors from Italy and Germany with three independent approaches: polyclonal gamma-globulins, B cell monoclonals and phage libraries. Antibodies will be characterized by rapid experimental and computational work, optimized, produced and tested in consultation with EMA to ensure prompt embedding of regulatory aspects.	2022-12-31	Journal contributions (Scopus)	N
																	3028030	T9DigitalHT	Digital HTA: an analysis of smart tools and artificial intelligence to support throughput rate and objectivity of Health Technology Assessment	Health technology assessment (HTA) ensures that reimbursement decisions of health systems are based on evidence-based information about the comparative safety and efficacy of products. HTA therefore is a major gatekeeper for health technologies, determining fair access not only to basic but also advanced and novel technologies addressing hitherto unmet medical needs. So far, HTA assessment relies on expert-based data compilation and assessment which hampers its throughput rate and may impact the objectivity of the process. The study will assess available smart tools and AI-based techniques for their potential use along defined stages of the HTA pathway and address potential ethical implications of the use of AI technology for HTA.	2022-09-30	Journal contributions (Scopus)	N
																	3028087	InternalExp	Towards a scientific assessment framework of internal exposure to nanomaterials used in medical technology	Nanomaterials are increasingly used in a variety of implantable medical devices for a variety of purposes, including dentistry and orthopaedics. Typically, nanoparticles are part of a complex composite material, e.g. specific resins or nanoparticle-treated surfaces of articulating devices. To estimate risks due to possible long-term chronic exposure to nanoparticles leaching from materials that are in direct contact with body fluids, tissues and cells, appropriate test methods and assessment frameworks are required. The report aims at (1) identifying existing bio-elution test methods for leaching of chemicals and, where available, nanoparticles, (2) examining their suitability for determining estimated internal exposure and (3) testing existing methods in targeted laboratory studies. The ultimate aim of this work is the definition of critical elements of a comprehensive scientific assessment framework for determination of external exposure of nanomaterials used for medical purposes.	2022-12-31	Journal contributions (Scopus)	N
																	3028172	⌊1ExpertPai	Support to the establishment of an administrative cellule at JRC for the coordination of routine functions of expert panels.	Establish expert panels, necessary IT tools, processes, documents and template, coordinate panels in view of consultation procedures on specific high-risk devices until early 2022 when this activity will be handed over to SANTE or another entity identified by SANTE. Issue expert contracts and, in collaboration with other units and Directorates, ensure reimbursement of experts for their services as advisors to the expert panels.	2021-01-31	Science for Policy reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3028278	IT12EURL	Support the establishment of EU reference laboratories for in vitro diagnostic medical devices in agreement with the provisions of the in vitro diagnostics medical devices Regulation	(1) Establishment of EURLs; *Supporting the finalisation of implementing acts on (1) EURL tasks/criteria, (2) fees they may levy; *Supporting the finalisation of call for application for designation of EURLs; *Assessing the suitability of applicant laboratories in view of designation by SANTE (advised by DG JRC); shortlist of selected laboratories; *Identifying with SANTE necessary templates for interactions between stakeholders in view of harmonised delivery by EURLs; *Proposing drafts of templates and Rules of Procedure; *Supporting the induction of the EURLs after their designation by reviewing of training materials prepared by DG SANTE and finalising above templates. (2) Union contribution: *Roadmap towards future provision of a Union contribution to EURLs, *Technical advice concerning implementing act(s) on Union contribution. (3) Scientific advice on *development of common specifications, *In-house in vitro diagnostics, *Performance evaluation of in vitro diagnostic devices.	2021-08-31	Science for Policy reports	N
5. Promoting our European Way of Life	5.4 Health	20000	Combat Disease	Combatting cancer and other diseases	JRC.F.1	30026	HealthImpact	Impact of health related research	The EU invests heavily in health related research to support fundamental scientific investigation, improve the prevention, diagnosis and treatment of disease, and promote healthy aging. Although overall progress is evident, there are many areas where research results are sparse or lack the desired impact. In the development of new drugs, for example, attrition rates in the clinical phase are still unacceptably high (above 90%). Under Directive 2010/63 on the protection of animals used for scientific purposes, JRC has the mandate to operate the EU Reference Laboratory for alternatives to animal testing (EURL ECVAM). Considering that over half of the 10 million animals used each year in the EU are for basic and applied research, efforts need to target the promotion of uptake and use of non-animal methods, especially in areas where animal testing is high (nervous and mental disorder, oncology). The main aim of this project is to analyse the scientific, economic and societal impact of selected areas of biomedical research that have received funding from EU framework programmes over the past 20 years. We will consult with key stakeholder organisations such as scientific societies, industry associations, public health organisations and patient groups to benefit from their perspectives, knowledge and expertise, starting from three disease areas (Alzheimer, breast cancer and prostate cancer). Deliverables of the project will feed into public health related initiatives within the JRC, such as the new Knowledge Centre on Cancer, linked to the Commission's priority of promoting the European way of life. Particular focus will be on the reliability and	JRC.F.3	ENV	ENV JRC	JRC SANTE	2021-01-01	2022-12-31	CON-AA INS-RS	3015941	2	Creation and deployment of tools to support the acceptance of non-animal test methods in a receptive environment - "Act and Implement"	The receptive environment fostered through the outputs of deliverable P4-D1 will be enriched with tools, techniques, and initiatives made available in this deliverable P4-D2. IT-based knowledge and information sources, standardizing efforts, and international collaboration will influence the way health related research and chemical safety assessment is executed. Activities feeding their outputs into this deliverable: •Education and training resources creation (secondary and university level) •creation and improvement of new tools (e.g. for TSAR promotion in bioscience areas)	2022-10-31	Technical Reports	N
																	3015942	3	Increase of knowledge and skills concerning non-animal testing paradigm - "Train and Reach out"	To maintain a significant level of acceptance for the non-animal paradigm even in the most receptive environment (deliverable P4-D1) will require not only the (passive) pull-oriented offerings of deliverable P4-D2, but also (pro-active) outreach and training elements. Hands-on teaching tools, face-to-face conferences, novel techniques, and selected events will therefore complement and reinforce the impact of P4-D2. Activities feeding their outputs into this deliverable: •Summer School 2021 •Biomedical models reviews publication	2022-11-30	Technical Reports	N
																	3015943	4	Assess and review the impact on the way health research and chemical safety assessment are done	Do the measures envisaged and executed in the other deliverables have a measurable impact on the way health research and chemical safety assessment are done? The output associated with deliverable 4 will allow answering this question, which in turn will feed back into the next iteration of the planning – acting - assessing cycle. Activities feeding their outputs into this deliverable: •Non animal methods update, impact indicators •Biomedical research, impact indicators •Animal numbers •Status Report	2022-11-30	Science for Policy reports	N
																	3015944	1	Fostering of an environment receptive to the non-animal testing paradigm - "Plan and Prepare"	This deliverable will feature output that contributes to the creation, fostering and initial nourishment of an environment that is open for the acknowledgement, positive reception and ultimate acceptance of innovative methods and models, mostly of non-animal nature. Promoting interdisciplinarity will be a major element. The outputs of this deliverable will therefore set the scene for the subsequent application of tools developed in deliverable 2. Activities feeding their outputs into this deliverable: •Models & Methods knowledge sharing strategy definition •New publishing modalities analysis (BeAMS follow-up)	2022-10-31	Technical Reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
5. Promoting our European Way of Life	5.4 Health	20000	Combat Disease	Combatting cancer and other diseases	JRC.F.1	30889	Nano-AntiMicrobials	Nanomedicine for combatting microbial infections	The NANO-MICROBIALS project contributes to the Exploratory Research (ER) Programme. The main goal of project is to contribute to the need for novel solutions to treat infectious diseases as indicated in the EC "Action Plan against the Rising Threats from Antimicrobial Resistance". By combining the expertise existing at JRC on nanomedicine and antimicrobial resistance with scientists from the international research community we aim to develop techniques and methods for the accurate characterization and efficacy assessment of targeted nano-antimicrobials for combating microbial infections. The aim is to speed up the development and use of these innovative "targeted nano-antimicrobials by the antimicrobial research community by providing tools and procedure for their accurate characterization and testing.	JRC.F.2	SANTE	JRC JRC	RTD	2019-11-16	2021-12-30	INS-ER INS-RS	3019730	1	Final report	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project. A mid-term technical report will be produced at the end of year 1.	2021-11-30	Technical Reports	N
5. Promoting our European Way of Life	5.4 Health	20000	Combat Disease	Combatting cancer and other diseases	JRC.F.1	31080	CIAO	Modelling the pathogenesis of Covid-19 using the Adverse Outcome Pathway framework	A plethora of data are being made available on a daily basis concerning the population impacts of Covid-19 around the world. These have formed the basis for multiple approaches to modelling the trajectory of the disease which in turn have been used to support critical policy and healthcare decisions. What is missing, however, is the linking of this information with an understanding of the pathogenesis of the disease. In particular, there is an urgent need to develop insights into why some population groups are more vulnerable than others, as a result of biological, epidemiological and socioeconomic factors. The nature of the vulnerability will be crucial in determining appropriate prevention and mitigation measures. This project will help to make sense of the disparate information sources on Covid-19 pathogenesis by exploiting a well-established knowledge sharing framework, i.e. the Adverse Outcome Pathway (AOP) framework. Knowledge from different disciplines and specialists will be consolidated in a way that is understandable and actionable by relevant stakeholders (e.g. medical professionals, public health officials and policy makers, managers in the healthcare sector, …). Moreover, this mechanistic knowledge will be used to develop an understanding of the biological modulating factors that determine different clinical outcomes and will be exploited to develop mathematical models that simulate the pathogenesis and health impact of Covid-19. With the AOP knowledge framework, JRC.F.3 has	JRC.F.3	SANTE	JRC JRC	ENV RTD	2021-03-01	2023-02-28	INS-ER INS-RS	3068960	02	CIAO AOP work - AOP	A Covid-19 related Adverse Outcome Pathway (AOP) or AOP network entered into the AOP Knowledge Base (https://aopwiki.org).	2022-12-15	Technical Reports	N
																	3068961	01	CIAO modelling work - Report	Report describing the status of mathematical models related to the AOP (network) provided in Deliverable 2. The models will be characterised according to OECD modelling guidance, and in terms of their readiness for use. Identification of research needs to improve the modelling of relevant adverse outcomes, including pulmonary failure as well as effects on other target organs.	2022-12-15	Technical Reports	N
5. Promoting our European Way of Life	5.4 Health	20000	Combat Disease	Combatting cancer and other diseases	JRC.F.1	31083	COVIDEC	Corona Virus Decontamination	Health and safety protection for healthcare workers is of paramount importance in public health emergencies and ensuring them an adequate supply of standard personal protective equipment during emergency is one of the fundamental preparedness challenges. Disposable filtering facepiece respirators (FFRs) are not approved for routine decontamination and reuse as standard of care. However, lesson learnt from the actual SARS-CoV-2 crisis, FFR decontamination and reuse may need to be considered as a crisis capacity strategy to ensure their continued availability in medical facilities. Based on the limited research papers available, no existing disinfection method can achieve FFR surfaces decontamination without hampering medical device performance. Among existing technologies UV germicidal irradiation, vaporous hydrogen peroxide, and moist heat are shown to have been employed as FFRs decontamination methods during the emergency despite their limitations and lack of a standardized validation method for medical devices. Plasma-based medicine is an emerging broad interdisciplinary field that combines medicine, biology, physics, chemistry and engineering. The project proposes the investigation of a FFR decontamination methodology based on atmospheric pressure plasma jet (APPJ) technology, which allows for rapid, contact free sterilization without utilization of harmful chemical compounds, and is suitable to rapidly access even small pores and microscopic openings typical of FFR filter materials.	JRC.F.2	SANTE	JRC JRC	ENV RTD	2021-04-01	2023-03-31	INS-ER INS-RS	3070110	001	Peer review publication	Peer review publication	2022-12-31	Journal contributions (Scopus)	N
																	3070150	002	Final report	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project. The report will summarize also the outcomes of the environmental assessment of decontamination methodologies for FFR. A mid-term technical report will be produced at the end of year 1.	2022-12-31	Technical systems	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
5. Promoting our European Way of Life	5.4 Health	20000	Combat Disease	Combatting cancer and other diseases	JRC.F.1	31084	FutuRe	Future Response Strategies Against Coronaviruses	The COVID-19 pandemic, produced by the human coronavirus SARS-CoV-2, has caused unprecedented damage to our society, its public health, and economic and social consequences will be felt for years to come. It is clear that we need to get better at predicting, testing and treating pandemics. This is true not only for the current COVID-19 pandemics, but also for the possible future ones. The escalation of SARS-CoV in 2002, MERS-CoV in 2012 and the current SARS-CoV-2 shows that coronavirus outbreaks are unpredictable. One of the missing pieces in our ability to quickly respond to new viral threats is the lack of accessible methods for the functional characterization of coronaviruses. Current methods for testing and developing treatments against dangerous viruses are technically demanding and cumbersome, thus severely limiting our capacities to respond.	JRC.F.2	SANTE	JRC JRC	RTD	2021-04-01	2023-03-31	INS-ER INS-RS	3071651	1	Final report	The final technical report will report the scientific results of the project and provide a summary of the scientific articles, presentations and dissemination activities originated from the project.	2022-11-30	Technical Reports	N
5. Promoting our European Way of Life	5.4 Health	20000	Combat Disease	Combatting cancer and other diseases	JRC.F.1	31085	SENTINEL	SENsitive pepTIdes for aNomalous Epidemic Level	The SENTINEL project contributes to the Exploratory Research (ER) Programme. The recent Coronavirus outbreak suggests that the number of people already infected before the evidence of an epidemic outbreak is not negligible. Moreover, the infectivity (i.e. the viral load) of pre-symptomatic and asymptomatic individuals can be as high as or even higher than the one of the symptomatic ones. It is clear that the continuous monitoring of potential viral infection in the population using classical method (Polymerase Chain Reaction) is not sustainable. An alternative tool for the detection of such individuals would be extremely beneficial in terms of a positive management of any crisis related to an epidemic outbreak. The aim of SENTINEL is the development of such a tool. Within SENTINEL, a new early alarm system will be developed and tested.	JRC.F.2	SANTE	JRC JRC	SANTE	2021-03-01	2023-02-28	INS-ER INS-RS	3071365	D2	Peer-reviewed article on optimization of AVPs and virus simulants detection	Peer-reviewed article on optimization of AVPs and virus simulants detection	2021-12-31	Journal contributions (Clarivate)	N
																	3071366	D3	Peer-reviewed article on the SENTINEL proof-of-concept, detection of virus simulant by combination of AVPs and Image Analysis	Peer-reviewed article on the SENTINEL proof-of-concept, detection of virus simulant by combination of AVPs and Image Analysis	2022-04-30	Journal contributions (Clarivate)	N
																	3071367	D4	Report on medical records	Report on medical records	2022-06-30	Technical Reports	N
																	3071368	D5	Peer-reviewed article on the TVC measurements by SENTINEL and correlation with the medical records	Peer-reviewed article on the TVC measurements by SENTINEL and correlation with the medical records	2022-12-31	Journal contributions (Clarivate)	N
																	3071369	D1	Review in a peer-reviewed journal on AVPs	Review in a peer-reviewed journal on AVPs	2021-12-31	Journal contributions (Clarivate)	N
																	3071590	D6	Final report	Finale report of he project	2022-12-31	Technical Reports	N
5. Promoting our European Way of Life	5.4 Health	20020	ESD	European Strategy on Health-Related Data	JRC.F.7	30022	ERDP	EU Rare Diseases Platform	In Europe 30 million people are affected by rare diseases (RD). A disease is called “rare” when it affects not more than 5 in 10,000 persons. RD patients are spread across Europe and accordingly the information about these patients is extremely fragmented in hundreds of registries across Europe at national, regional and local level. This makes studies and research in the field of RD very difficult due to insufficient numbers of participating patients. An overview about RD registries and thus RD patients does not exist at European level. Only an initiative at EU level can help solving this problem and therefore the JRC in collaboration with DG Health and Food Safety (DG SANTE) developed the European Platform on Rare Disease Registration (EU RD Platform). The nature of the EU RD Platform’s work and its purpose are directly contributing to the achievement of the EU strategy for data, which is the project portfolio. Many different stakeholder groups will benefit from the outputs and deliverables of the project: patients, healthcare providers, researchers, pharmacological industry, policy-makers. The outputs will facilitate building of critical knowledge as basis for advancing diagnosis and treatment for RD patients and prompt future innovative research.	JRC.F.1	SANTE	SANTE SANTE SANTE JRC	(blank)	2021-01-01	2025-12-31	CON-AA CON-AA CON-AA INS-RS	3001470	RD1	Develpment of the EU RD Platform towards the central access point for information on RD registries in Europe; ensuring that national, regional and local registries join the EU RD Platform	This deliverable includes: further development of the EU RD Platform and its components. The focus is on the European Directory of Registries and the Central Metadata Repository as tools facilitating RD data sharing and use; adaptation to registries’ needs; interaction with RD registries at national, regional, local level for joining the EU RD Platform and implementing the provided infrastructure, tools and services as prerequisites for RD data exchange; provision of standards for data collection and sharing for future use in studies and research; guidance, training and support to new and existing RD registries.	2025-12-15	Sci information systems and databases	N
																	3001472	2	DEL DELETED		2022-12-01	Sci information systems and databases	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3001478	RD3	Supporting European Reference Networks (ERNs) for developing registries according to the EU RD Platform's infrastructure and standards	Continuous collaboration with the ERNs, provision of guidance and support for implementation of the Platform's infrastructure, tools and services; support to the ERNs individual registries, for establishing ERN central registries, facilitation of interoperability inside and across ERNs in view of data exchange as basis for multipurpose use and re-use of data for knowledge generation on rare diseases, their diagnosis and treatment; meetings for consensus building, delivery of training, organisation of workshops.	2022-12-01	Training	N
																	3001485	RD2	Making RD registries' data searchable and findable at EU level as a prerequisite for RD studies and research	Development of the ERDRI search tool and of the European RD Registry Data Warehouse; thus facilitating critical patient cohorts for epidemiological, clinical, pharmacological, policy studies and research and enabling the use of valuable spread RD data via a European central access point	2025-12-01	Sci information systems and databases	N
																	3001490	RD4	Annual monitoring of congenital anomalies and cerebral palsy in Europe	Coordination of the European network for the surveillance of congenital anomalies (EUROCAT) and the network for surveillance of cerebral palsy in Europe (SCPE); central data repository for the two networks; functioning as JRC-EUROCAT and JRC-SCPE Central Registries including all corresponding tasks: collection of individual case data from registries, secure management of central data repository for the two networks, data analysis, provision of statistical monitoring and public release of results on trends and clusters, public health indicators; release of data for scientific studies. JRC shall process individual case data received from the registries in accordance with Regulation (EU) 2018/1725.	2025-12-01	Technical Reports	N
5. Promoting our European Way of Life	5.4 Health	20020	ESD	European Strategy on Health-Related Data	JRC.F.7	30023	DTHC	Digital Transformation of Health and Care	The speed and increasing pervasiveness of digital technologies in all aspects of our life is now a fact. Health and care, in particular, are areas in which applications of digital technologies are expanding enormously, touching the citizen's attention, and that requires specific attention. Commission Priority 3, "A Europe fit for the digital age", aims at realising the full potential of the opportunities brought to society by the digital age, while providing safe and ethical boundaries for the technologies to thrive. Data and Artificial Intelligence (AI) are acknowledged as key ingredients to innovation needed to tackle societal challenges in a wide array of policy sectors, including health. The project intends support the transformation that the digital technologies, data and AI are promising in the healthcare sector by addressing the issues that still give concern and that need to be adequately addressed.	JRC.F.7	SANTE	JRC	(blank)	2021-01-01	2025-12-31	INS-RS	3014585	1	Definition of cancer registries and omics-related metadata, with semantic linkage	Metadata will be defined in terms of the ISO 1119 (Metadata Registry standard). Semantic links to standardised terms will be defined using SKOS (Simple Knowledge Organisation System).	2021-11-20	Technical Reports	N
																	3022150	2	Implementing a 'European Exposure Science Strategy' 2020-2030: an action plan for exposure analytics and repositories in support of EU policies	Guidance will be provided for a more integrated European exposure data production and management, in support of building, implementing and harvesting comprehensive and coherent exposure datasets and repositories for use in science and policy. This will be achieved by: (a) overviewing of the existing exposure data landscape and related requirements for data analytics and repositories across European regulations; (b) Mapping available exposure data to data requirements in order to identify needs and ways forward for improved data analytics and repositories; (c) Translating the identified exposure data needs into an operational action plan to advance the production, management and regulatory uptake of exposure data in Europe, and prioritize actions and translate them into specific tasks with clear timelines. The resulting action plan for exposure data analytics and repositories is considered an important part of defining and implementing a 'European Exposure Science Strategy' 2020-2030.	2021-12-15	Technical Reports	N
																	3022151	3	Health and care data mining use cases	In the context of the Collaborative Doctoral Partnership (CDP) in Genomics and Bioinformatics, collaboration with the University College Dublin (UCD), the Katholieke Universiteit Leuven (KU Leuven) and Università degli Studi di Milano (UniMi) have been established. The collaborations include the use of Bioinformatics tools for Public health applications like software-based monitoring system of public sequence databases for the detection of pathogens and biological threats (CBRNE), Standardisation of clinical grade Whole Genome Sequencing and Genomic Data Sharing by respecting Privacy; and the Application of Artificial Intelligence to study the interaction between genomic and environmental factors underlying human diseases. In all cases the regulatory issues and possible boundaries on use of Bioinformatics tools to mine -omics data will be assessed.	2024-11-20	Technical Reports	N

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		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
5. Promoting our European Way of Life	5.4 Health	20020	ESD	European Strategy on Health-Related Data	JRC.F.7	30027	O&R	OMICs & Regulations	Omics technologies, and in particular genomics, are disruptive technologies that are significantly impacting on the individual's life and on society in general and therefore there will be a permanent need for policy makers to have hands-on scientific support in this complex and heterogeneous field. Application of Omics technologies inside routine healthcare is boosting preventive medicine practices and has the requisites to lead to personalised treatments as it can both improve the healthcare services together with patients' health, and provides a wealth of data for medical research in the same time. In addition to that, these technologies have also led to the development of commercial opportunities to provide citizens with the possibility of having their genomes sequenced in a way that is both appealing and affordable. As the JRC is holding the responsibility for the knowledge management of health-related scientific information for policy, a series of activities have been initiated, aimed to provide support to EU legislators in anticipating and addressing the regulatory challenges and opportunities brought by Omics technologies. The most prominent example of the implications of Omics technologies is their impact during the SARS-CoV-2 spread. Genomics has been used to quickly identify SARS-CoV-2 and to characterize thousand SARS-CoV-2 genomes that have been shared among scientists all over the world. However, at EU level, this action is heterogeneous and not harmonised. Moreover, hundreds of different diagnostic kits are available on the market to test the presence of SARS-CoV-2 in patients, but no harmonised EU validation	JRC.F.7	SANTE	JRC	CNECT RTD SANTE	2021-01-01	2025-12-31	INS-RS	3017323	xxx	Omics technologies for improving citizens' health and well-being	Provision of scientific recommendations and advices in the form of guidelines, reports, briefs, fact sheets or scientific publications, in order to support and facilitate the implementation of correct and regulated use of Omics technologies on healthcare for improving citizens and societal well-being.	2025-12-01	Technical Reports	N
																	3064259	20	COVID Registry	Establishment of shared, harmonised and standardised repositories and registries related to Omics data in the context of COVID-19 pandemics	2025-12-01	Technical Reports	N
5. Promoting our European Way of Life	5.4 Health	20020	ESD	European Strategy on Health-Related Data	JRC.F.7	30040	HCC	Health threats: prevention, preparedness and response	Epidemics will be a key element of the upcoming work of the EC. This is in line with the work of the Commissioner on Crisis Management on health emergencies such as epidemics/pandemics and the foresight in emerging health threats. It also fits to the broader framework of the recently adopted strategy of WHO on global health that explicitly devotes a strategy on health, environment, and climate to which the EC has committed to contribute. The portfolio fit also to the European Green Deal initiative due to its topic on health and climate. Global catastrophic biological risks as pandemics pose a permanent public health threat due to their potential for rapid uncontrolled global spread. Global interconnectedness facilitates the spread of infectious diseases making it a high consequence public health risk. Proliferation of bioengineering and biotechnological tools changes the security paradigm in terms of bio-terrorism and the associated global risk. Low probability but high consequential risks such as escape of a laboratory generated highly pathogenic viral strain can be devastating. Deliberate use of pathogens on purpose for dual-use research may be misused and pose an enormous public health threat. Natural, deliberate, accidental health threat emergence, introduce societal, policy and regulatory demands that need to be addressed. Many infectious diseases are sensitive to climatic conditions and the largest part of the global population is at risk of vector-borne diseases. Changing climatic condition may affect vector-borne disease dynamics by changing the ecology of vectors such as mosquitoes	JRC.F.7	SANTE	JRC	CLIMA ECHO ENV HOME	2021-01-01	2025-12-31	INS-RS	3022233	1	Epidemics/pandemics: dynamics and control	Research in the epidemiology and control of emerging infectious diseases and corresponding control strategies to inform policy decision making. Climate-related impacts on infectious diseases and the importance of the One Health approach. The potential of improvement of surveillance using new technologies will be addressed. A review and analysis of research studies in the biology and epidemiology of within the OH approach frame aiming at identifying the current state of art and the research gaps to be filled. The outcome documents will focus on the assessment of all the possible sources of infection (animal reservoirs); pathways of transmission (air born infection and to explore (or eventually rule out) the food borne infection hypothesis); risk factors (involved in triggering the zoonotic spill over)	2021-12-31	Journal contributions (Scopus)	N
																	3022237	2	Climate change-related health effects: Infectious diseases including the One Health approach	A review about the state of the art on adaptation to climate change related health effects of infectious diseases in Europe. The potential of improvement of surveillance will be addressed. A review and analysis of research studies in the biology and epidemiology of within the OH approach frame aiming at identify the current state of art and the research gaps to be filled. The outcome documents will focus on the assessment of all the possible sources of infection (animal reservoirs); pathways of transmission (air born infection and to explore (or eventually rule out) the food borne infection hypothesis); risk factors (involved in triggering the zoonotic spillover)	2022-05-10	Technical Reports	N
																	3022238	3	The One Health approach in the case of SARS-CoV2	A review and analysis of research studies in the biology and epidemiology of SARS-like CoV2 (as case study) within the OH approach frame aiming at identify the current state of art and the research gaps to be filled. The outcome documents will focus on the assessment of all the possible sources of infection (animal reservoirs); pathways of transmission (air born infection and to explore (or eventually rule out) the food borne infection hypothesis); risk factors (involved in triggering the zoonotic spillover).	2021-12-31	Science for Policy reports	N
																	3022239	4	Hybrid threats and CBRNE	Contribution to the CBRNE activities. Bio-preparedness tools and analysis such as software-based monitoring system of public sequence databases for the correct classification and detection of microbial sequences, with a focus on pathogens; Geographical/ geospatial. Contribution to the hybrid threats activity of Unit E.2 and on the deliberate and dual use of biological agents. Surveillance system(s) for MS bio-preparedness & epidemics risk assessment.	2021-12-31	Sci information systems and databases	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
5. Promoting our European Way of Life	5.4 Health	20020	ESD	European Strategy on Health-Related Data	JRC.F.7	30043	KMFC	Knowledge Management & Foresight Coordination	In an increasingly complex and fast evolving context, the need for the European Union to be prepared to act timely in response to the upcoming global challenges while meeting consumers' expectations becomes impellent. In this context, it is fundamental to be able to examine and integrate all the relevant information to learn from the past and to extrapolate into the future. President von der Leyen, in her Mission letter to Maroš Šefčovič, Vice-President for Interinstitutional Relations and Foresight, clearly stated the fundamental relevance, for the European Commission, to strengthen evidence-based policymaking, to identify long-term trends requiring attention and swift action, and to define (policy) intervention priorities accordingly. The role of Knowledge Management, within Directorate F, is to support EU policies on consumers, food safety and health by mapping, collating, analysing, quality checking and communicating in a systematic and effective way all the relevant scientific data, methods, tools and knowledge available worldwide in the corresponding policy area. In this context, this Project is conceived as a pure Knowledge Management activity, not linked to a specific tangible mandate. It is rather intended to support the JRC in the development of tools and mechanisms for carrying out foresight studies, identify potential threats in the topics of the Directorate, and to support the activities of the directorate or JRC Management with data mining and analysis.	JRC.F.7	JRC	JRC	SANTE	2021-01-01	2025-12-31	INS-RS	3018508	2	TOPICAL BRIEFS AND REPORTS	The deliverable will include production of topical briefs and selected (foresight) reports for anticipating knowledge based policy needs, mapping knowledge gaps and suggesting research topics to be tackled / reinforced within the JRC. Discussions, knowledge gathering and elaboration of the reports will also be done in collaboration with external experts and through the organisation of science-policy workshops on priority topics.	2021-12-31	Science for Policy reports	N
																	3018509	3	BRIEFING, INTERSERVICE CONSULTATIONS, PARLAMENT QUESTIONS	Coordination of the internal and external communication of the Directorate and timely contribution the institutional tasks with respect to briefings, inter-service consultations etc.	2021-12-31	Science for Policy Briefs	N
																	3018510	1	KNOWLEDGE SCANNING & TOOLS	JRC.F.7 participates to the JRC horizon-scanning initiative (lead by Dir I) contributing in the Foresight and Sense Making workshops to identify specific scientific and technological developments of potential policy relevance & anticipation of future policy needs. In this frame, the Unit develops and uses tools & strategies to map and mine knowledge related to health and consumer protection in public resources (web, scientific literature), as well as to map Directorate F scientific competences. It will also provide specific ad-hoc support to the different units of the Directorate in the form of text/data mining and foresight.	2021-12-31	Technical Reports	N
5. Promoting our European Way of Life	5.4 Health	20145	Bioeconomy for EGD	Sustainable and circular bioeconomy for the European Green Deal	JRC.D.1	31120	COV&ENV for ONEH	Coronaviruses and environment: One health approach	The COV&ENV for ONEH project contributes to the Exploratory Research (ER) Programme. The main goal of the ER project COV&ENV for ONEH is to provide an innovative molecular-based method to anticipate and mitigate the risk of coronavirus spreading. COVID-19 pandemic has been caused by the severe acute respiratory syndrome (SARS)-associated coronavirus, named SARS-CoV-2. Although the majority of human cases of coronavirus-associated diseases have been attributed to human-to-human infections, scientific evidence suggests that wild animals are the major reservoir host. Therefore, there is the urgent need to anticipate and predict these types of infection by targeting the source before the spreading occurs. One health (human, animal and environment) is the core of this project, the three aspects are correlated and only the holistic approach will provide the overall picture to reduce the risk. To do so, "Cov&ENV for ONEH" will embrace four areas: detection, mutation rate frequency, climate data and economy. The detection approach, aims to design a system to target mutations in the coronavirus genome, able to trace the passage from natural to intermediate host and then to humans. The contribution of the environmental factors to the spreading of the coronavirus, will be explored in the project. Indeed viruses and more in general all living creatures are affected by atmospheric conditions. Favourable conditions could enhance survival, fitness and success of the virus. Finally, the economic aspect will be also analysed, as part of the health approach, since human and economic health comes together.	JRC.D.2	SANTE	JRC JRC	CLIMA ENV GROW	2021-04-01	2023-08-31	INS-ER INS-RS	3070402	012023	Final report	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project. A mid-term technical report will be produced at the end of year 1.	2023-07-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
5. Promoting our European Way of Life	5.4 Health	20394	DKMD	Data and Knowledge for Migration and Demography	JRC.E.6	31500	MDI4COVID-19	Mobility Data Innovation to Help Fight COVID-19	Due to an unprecedented agreement between the European Commission and the European Mobile Network Operators (https://www.gsma.com/gsmaeurope/resources/d4c/), the Joint Research Centre has been has been identified as the scientific counterpart for collecting and analyze mobile positioning data to provide scientific evidence to policy makers in order to face the COVID-19 pandemic. Indeed, human mobility has played a key role in the initial spread of COVID-19 at global scale in 2020, and containment interventions have been undertaken throughout Europe to limit its propagation but also in the second winter wave. We are in a phase of de-escalation and recovery, especially now that vaccination is on-going on a global scale, but still aware about risks of a third wave due to variants of the coronavirus. As a matter of fact, anonymised and aggregated data, which are being processed by telecom operators, can help better understand and predict the spread of the COVID-19, evaluate the effectiveness and the implementation of public health policies and measures, and support effective delivery of medical services, food and other critical services. The work is carried out in collaboration with the private sector (Mobile Network Operators), across JRC Directorates, DGs (CNECT, ESTAT) and with international organisations such as ECDC and the European University Institute – Migration Policy Centre (EUI-MPC).	JRC.E.6	CNECT	JRC	(blank)	2021-02-25	2021-12-31	INS-RS	3100636	MVP	Mobility Visualization Platform	Mobility Visualization Platform (MVP): an interactive dahsboard that allow to visualize and explore interactively mobility data indicators, mobility connectivity between different NUTS3 regions and mobility functional areas. The tool is intended to be used by Member States authorities, DG Sathe, and other stakeholders. It is meant to be intuitive yet accurate and timely. The tool will also allow to compare mobility patterns and virus spreading using ECDC data and other MSs data.	2021-12-31	Sci information systems and databases	N
																	3100747	MI	Mobility Indicators	Mobility Indicators: after normalization in time, space and volume across EU, the project delivers several indicators distributed as streams of data through the JEODPP platform or secure FTP transfers internally to the JRC network to feed tools and dashboard developed by other JRC units. The indicator are of three main categories: volumes of total, internal, inbound and outbound mobility; connectivity matrixes and mobility functional areas.	2021-12-31	Sci information systems and databases	N
																	3100749	TechRep	Technical And Scientific Reports	series of technical and scientific reports on the socio-economic impact of mobility restrictions and on pandemic	2021-12-31	Journal contributions (Clarivate)	N
																	3100750	ADT	Anomaly Detection Tool	Anomaly Detection Tool (ADT): the anomaly detection tool is aimed at identifying through automatic statistical procedures, any anomaly in the mobility data, like sudden drops or unexpected increase of different types of mobility definitions: total, internal, inbound and outbound mobility. The tool is interactive and work at the highest resolution avaiable in the MNO data (up to LAU/ACE). It classifies signals in to low, medium and high level of anomaly and automatically raises warnings.	2021-12-31	Sci information systems and databases	N
5. Promoting our European Way of Life	5.5 Nuclear R&I for protecting citizens	20067	PROTECT	Nuclear R&I for Protecting Citizens	JRC.G.2	30061	REMON	Radioactivity Environmental Monitoring and Nuclear Emergency Preparedness & Response	The REMON project supports the European Commission, and indirectly the EU Member States, to fulfill its commitments in the implementation of: - art.35 and 36 of the Health and Safety Chapter of the Euratom Treaty; - its arrangements for the early exchange of information in the event of a nuclear/radiological emergency (Council Decision 87/600); - the Basic Safety Standards (BSS) Directive (2013/59/EURATOM). In addition to the data monitoring the quality of the submitted data is controlled by organising proficiency tests (PTs) and carrying out verifications of radioactivity monitoring facilities in the EU Member States. Article 35-36 national experts and DG ENER encourage JRC to carry out PTs and provide reference materials to support MS laboratories in their work on quality management and to helps them to gain accreditation. PTs carried out by JRC enables the Commission to perform a verification to every MS every year at limited resources and contributes to standardisation within the field of environmental radioactivity measurements. Under the auspices of DG DEVCO strategy for regional cooperation on emergency preparedness and response, Cooperation with the Gulf Cooperation Council (GCC) and Countries from the Western Balkans is being maintained by establishing 'state of the art' capabilities for providing decision support in an emergency, creating or enhancing national on-line, real time radiation monitoring networks, and exchanging monitoring data with EURDEP. The project also provides tools to directly inform the	JRC.G.9	ENER	INTPA RTD JRC	INTPA JRC	2021-01-01	2025-12-31	CON-AA CON-IA INS-RS	3007212	006120220	Radiological/nuclear emergency preparedness support	Scientific/technical assistance to ECURIE & EURDEP participants during bi-/multi-lateral exercises and incidents, including writing of ad-hoc emergency/incident reports. Atmospheric dispersion simulations to complement nuclear accident studies by providing radioactivity dispersion analyses.	2022-12-31	Science for Policy reports	N
																	3007389	006120220	Scientific output on Environmental Radioactivity	Scientific output (mainly articles, but also reports, special studies,..) on environmental radioactivity in the environment	2022-12-31	Journal contributions (Scopus)	N
																	3007390	006120220	Environmental Radioactivity in the European Community	Multi annual monitoring reports describing quarterly averages of radioactivity levels in airborne particulates, surface water, drinking water, milk and mixed diet for the 28/27 countries of the European Union.	2022-12-31	Science for Policy reports	N
																	3007391	006120220	Annual training course on REM DST	Annual training courses to instruct member state authorities how to correctly use the Radioactivity Environmental Monitoring Data Submission Tool (obligatory under the Euratom Treaty Ch III art. 36)	2022-05-31	Training	N
																	3007436	006120220	European proficiency tests	Reports describing European Proficiency Tests in support of article 35 on radioactivity in the environment, including building materials	2022-06-30	Science for Policy reports	N
																	3012501	006120220	Workshops and training courses following proficiency tests on radioactivity in environment and building materials	Workshops and training courses following proficiency tests on radioactivity in environment and building materials	2022-12-31	Training	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3035797	006120211	Summary report on newly available process-based radon flux maps with high temporal (daily) resolution.	Summary report on newly available process-based radon flux maps with high temporal (daily) resolution	2022-09-30	Technical Reports	N
																	3035898	006120211	Proof of concept of GCC-RDEP	Proof of concept version the Gulf Cooperation Council Radiological Data Exchange Platform with Kuwait monitoring stations	2021-11-30	Technical systems	N
																	3036333	006120221	Radon in schools	The objective is to carry out in various European Schools the "radon in schools" educational project. It aims to give the possibility to the students to get familiar with JRC activities on ionizing radiation through projects based on radon measurements.	2022-12-31	Training	N
5. Promoting our European Way of Life	5.5 Nuclear R&I for protecting citizens	20067	PROTECT	Nuclear R&I for Protecting Citizens	JRC.G.2	30146	NuSta4EU	Nuclear Standards for Europe	Standards have a direct public interest due to their role in protecting health, environment, safety and security. European standards support European legislation and the internal market. Compliance with international standards provide a competitive advantage to European businesses. Being impartial from national or commercial interest, and making use of its high-level scientific and technical expertise, its state-of-the-art infrastructure and its close relation with policy-making directorates-general and with international and European standardisation organisations, the JRC is in the ideal position to contribute to the development process of standards: • The JRC uses its official liaisons to the international standardisation bodies ISO and IEC to provide technical comments on standards during their development and revision, taking into account the needs of the policy-DGs and the current societal challenges. • The JRC has a cooperation agreement with the European Standardisation Organisations (ESOs) CEN and CENELEC, to enhance the exchange of knowledge and expertise. The JRC has been involved already several times in addressing European standardisation issues and regularly supports the ESOs by developing or validating methods, requested by the Commission via standardisation requests (mandates). Standardisation is a broad domain, which leads to somewhat divers objectives in this project: - The JRC will address a validation request from DG	JRC.G.2	GROW	GROW JRC	ENER SANTE	2021-01-01	2025-12-31	CON-AA INS-RS	3002629	)14620240(	Contributions to international or European standards for radionuclide calibrators.	Technical report(s) with suggestions for improvements to international or European standards for radionuclide calibrators.	2024-12-31	Contributions to standards	N
																	3002660	)14620220(	Validation report on the method described in current working draft European standard WD EN 17216	Validation report on the method described in current working draft European standard WD EN 17216. The method will become the reference method to determine the radioactivity concentration index specified in the Basic Safety Standard and required for CE marking of construction products.	2022-07-01	Validated methods, reference methods and measurements	N
																	3002661	)14620230(	Interlaboratory comparison report on the use of steel disks and/or tubes by measurement facilities	Interlaboratory comparison report on the use of steel disks and/or tubes by measurement facilities. (e.g. relevant for Strategic Partnership with STUDSVIK)	2023-12-31	Validated methods, reference methods and measurements	N
																	3002662	)14620250(	Technical report on the realisation of a setup and describing the method to study diffusion of radioactive contamination in concrete.	Technical report on the realisation of a setup and describing the method to study diffusion of radioactive contamination in concrete.	2025-12-31	Technical systems	N
5. Promoting our European Way of Life	5.5 Nuclear R&I for protecting citizens	20067	PROTECT	Nuclear R&I for Protecting Citizens	JRC.G.2	30161	RadioMed	Radionuclides for medicine	Public healthcare systems free at the point of need to everyone are a main component of the European way of life. In the current demographic scenario with an aging population, high-level healthcare must be made economically sustainable. In this context, both the supply of established medical radionuclides and the development of novel, more effective and cheaper methods for treating widespread diseases are important aspects of nuclear science. The EU is a world leader in the market for well-established diagnostic and therapeutic radionuclides, such as I-131, Tc-99m and Y-90. Their secure supply is a prerequisite for further development of radiopharmaceuticals, their widespread clinical application, and equal patient access in throughout the EU. Aware of these challenges, the EU Council has adopted several conclusions (2009-2019) stressing the importance of medical radionuclides and has asked the EC to perform market studies to better understand market dynamics and present and future patient needs. Other related initiatives of the EU include the EU Beating Cancer Plan and the Strategic Agenda for Medical, Industrial and Research Applications of nuclear and radiation technology (SAMIRA). In the field of emerging medical radionuclides, JRC.G has pioneered the therapeutic use of alpha-emitters in oncology, in particular by developing therapies which target single cells and address micro-metastases of various cancer types. Based on recent clinical results, targeted therapies with alpha emitters are expected to play a key role in the treatment of cancer in the future. To facilitate this development, new production paths will be investigated in order to ensure a safe, sustainable	JRC.G.I.5	SANTE	JRC JRC	ENER RTD	2021-01-01	2023-01-31	INS-RS INS-UR	3010701	)16120230(	Technical report on Ra-226 target fabrication	Technical report on the fabrication of solid-state or liquid Ra-226 targets for Ac-225 production	2023-01-31	Technical Reports	N
																	3010702	)16120210(	Publication on Ac-225 ISOLDE production yield	Peer-reviewed publication on measurements of the Ac-225 production yield at CERN's ISOLDE facility from U-238 and/or Th-232 spallation	2021-12-31	Journal contributions (Clarivate)	N
																	3010705	)16120220(	Technical report on Mo nanoparticle production and characterization	Technical report on the preparation and characterization of Mo-98,100 nanoparticles for Tc-99m production by neutron irradiation	2022-12-15	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3011800	)16120220(	Construction of new beamline at GELINA	Report describing a new beamline at the GELINA facility for direct irradiations with a mono-energetic electron beam. Mono-energetic electrons will allow the production of well-characterized gamma irradiation fields for studying radionuclide production rates and cross sections.	2022-06-15	Technical Reports	N
																	3081217	)16120210(	Policy Report on EU market of radionuclide therapy	JRC assessment and recommendations based on the survey of the EU market of radionuclide therapy	2021-04-30	Science for Policy reports	N
																	3081218	)16120220(	Update on the EU market of medical radioisotopes	Policy report on the evolution of the market of radionuclide based diagnostic and therapy in the EU	2022-10-31	Science for Policy reports	N
5. Promoting our European Way of Life	5.5 Nuclear R&I for protecting citizens	20067	PROTECT	Nuclear R&I for Protecting Citizens	JRC.G.2	30162	TAT	Targeted alpha therapy	Public health care systems free at the point of need to everyone are a main component of the European way of life. In the current population-ageing scenario, the challenge is to make high-level healthcare economically sustainable. The development of novel, more effective and cheaper methods for treating widespread diseases contributes to achieving this goal. Dir. G is collaborating with clinical centres worldwide in developing the therapeutic use of alpha-emitters in oncology, in particular Actinium-225 and bismuth-213. The exceptionally successful recent development of an alpha emitter labeled drug for treatment of prostate cancer has demonstrated that the concept of targeted alpha therapy has the potential to change the future treatment of metastatic cancer in general. Within Dir. G the project is connected to the project RadioMed (same portfolio) that is aiming at securing the supply of alpha emitters for medical use, and to the project Access (portfolio COMPETE). Through its contribution to the EC Knowledge Center on Cancer (portfolio COMBAT DISEASE) the TAT project has multiple connections throughout JRC and other DGs and is contributing to "Europe's Beating Cancer Plan" endorsed by Commission President, Ursula von der Leyen.	JRC.G.I.5	SANTE	JRC	ENER GROW RTD	2021-01-01	2022-12-31	INS-RS	3002624	301622021:	Development of radioconjugates and standardization of clinical protocols	Development, pre-clinical and clinical testing of novel compounds for targeted alpha therapy of cancer. Optimisation and standardization of protocols for clinical application of novel compounds in oncology	2022-12-31	Journal contributions (Clarivate)	N
																	3002628	301622021:	Knowledge transfer and support to hospitals in EU member states and worldwide	Targeted alpha therapy is a promising novel approach to cancer therapy. Support will be given to hospitals and cancer centres in establishing the capability to offer TAT to patients, including training in the safe handling of alpha emitters in clinical settings and the synthesis and formulation of radiopharmaceuticals labeleld with alpha emitters. The support activities will focus on member states and will extend worldwide in collaboration with IAEA through conduction of regional training workshops. Knowledge dissemination on developments in targeted alpha therapy will further be supported through organisation of international symposia bringing together 400-500 experts in the field. In March 2022 the upcoming symposium will be held in Cape Town, South Africa, organised jointly with the University of Pretoria, showcasing JRC's activities in TAT capacity building in Southern Africa.	2022-12-31	Training	N
																	3026732	016220221	Contribution to EC Knowledge Center on Cancer	Contribution to EC Knowledge Center on Cancer (PRJ Id 30000) with focus on developing novel compounds for targeted alpha therapy of cancer and to monitor advances in the field and developing and disseminating standardised protocols for safe handling, synthesis, quality control and application of alpha emitter labelled compounds in clinical settings to improve patient care.	2022-12-31	Journal contributions (Clarivate)	N
5. Promoting our European Way of Life	5.5 Nuclear R&I for protecting citizens	20067	PROTECT	Nuclear R&I for Protecting Citizens	JRC.G.2	30241	NUFIT	Nuclear Forensic Investigations	Nuclear forensic investigations rely on accurate and precise measurement techniques and methods that have been accepted by international nuclear forensics community as well as on sound interpretation of results supported by a nuclear forensics database. JRC Karlsruhe has an excellent reputation in nuclear forensics due to the long-lasting R&D efforts as well as demonstrated competence in international exercises and real case analysis. This experience will be applied to support EU MS and other partner countries by providing nuclear forensic analysis for intercepted radioactive materials by request. Moreover, nuclear forensics support may be exercised by so-called joint analysis in order to prepare EU MS for possible events. To maintain the knowledge, JRC will continue to participate in international collaborative materials exercises and virtual nuclear forensic exercises. On the other hand, underpinning research enabling method and nuclear forensic signature development is of fundamental importance to understand the correlations between measurable material properties and the history of the material. Therefore, to complement the nuclear forensics "toolbox", new nuclear forensic signatures will be studied and improved methods will be applied to well-established signatures. At last, it is vital to implement traditional forensic techniques in nuclear environment to help in establishing link between the material out of regulatory control and the perpetrator.	JRC.G.II.8	HOME	JRC	ENER	2021-01-01	2022-12-31	INS-RS	3002190	024120220	Scientific publication in a peer-reviewed journal	Paper on novel methodology for determining impurities in various uranium materials by laser ablation ICP-MS.	2022-12-31	Journal contributions (Scopus)	N
																	3002193	024120210	Scientific publication in a peer-reviewed journal	Paper on novel methodology for determining age of uranium in various types of materials by laser ablation MC-ICP-MS.	2021-12-31	Journal contributions (Scopus)	N
																	3002206	024120210	Presentations in scientific conferences	R&D results on new nuclear forensic signatures or improved measurement methods will be presented in conferences.	2021-12-31	Training	N
																	3005024	024120220	Presentations in scientific conferences	R&D results on new nuclear forensic signatures or improved measurement methods will be presented in conferences.	2022-12-31	Training	N
																	3089155	024120210	Report on application of traditional forensics on radioactively contaminated evidence	Technical report describing the new achievements in implementing traditional forensic methods (e.g. fingerprinting, DNA extraction) in nuclear environment.	2021-12-31	Technical Reports	N

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5. Promoting our European Way of Life	5.5 Nuclear R&I for protecting citizens	20067	PROTECT	Nuclear R&I for Protecting Citizens	JRC.G.2	30887	Ir-NANO	Irradiation of Nanoparticles to produce Radio-isotopes	The Ir-NANO project contributes to the Exploratory Research (ER) Programme. The project proposes to develop and characterise innovative processes allowing the separation of radio-isotopes by exploiting the energy of the recoils produced by the nuclear reaction during irradiation. The material to be irradiated is a liquid nanoparticle suspension, with nanoparticle diameter inferior to the range of the produced recoil. The process could avoid or strongly reduce the use of chemical processes and even mass separation to isolate the isotopes synthesised during irradiation. The project is particulartly important for the synthesis of new radio-isotopes from accelerators and could reduce the costs for preparation of medical radio-isotopes.	JRC.G.I.4	SANTE	JRC JRC JRC	JRC	2021-01-01	2022-12-31	INS-ER INS-RS INS-UR	3011801	)88720220(	Design and implementation of an irradiation setup at MONNET	Report describing the design of a setup for direct irradiation of liquid samples with mono-energetic fast neutrons to study radionuclide production yields with subsequent high-resolution gamma-ray spectrometry	2022-06-15	Technical Reports	N
																	3019556	)88720220(	Final report on Mo nanoparticle production and characterization	The final report will summarise the scientific results of the project and provide an overview of the papers originating from the project.	2022-12-31	Technical Reports	N
6. A New Push for European Democracy	6.1 Protecting and supporting EU democracy	20392	EDM	External Dimension of Migration	JRC.E.6	31480	AoD	Atlas of Demography	Upon a request by Vice-President Šuica and inspired by the JRC Atlas of Migration, JRC has been required to develop an Atlas of Demography as a new knowledge management tool in support of the new Commission's portfolio 'Demography and Democradicy'. In the framework of the priorities of the new Commission emphasis was placed on the need 'to strengthen evidence-based policymaking and identify long-term trends on which we need to act and about which we need to know more.' This project will further develop the work carried out by the Knowledge Centre on Migration and Demography of the EC in implementing the above-mentioned overall objective in the field of demography, which is now receiving a growing attention as an element underpinning several EU internal and external policy areas, particularly with its capacity to project future scenarios. It has been explicitly required to integrate existing relevant official statistics and combine them with additional high resolution data produced by JRC in order to reach the highest possible geographical granularity. This is the necessary level for analysing efficiently most of the processes of interest, such as the impacts of population ageing, unbalances in services accessibility, public attitudes and political behaviour and support specific policy initiatives, such as the Green Paper on Ageing and the Long Term Vision for Rural Areas. The JRC has already demonstrated to have the necessary skills and expertise to develop the Atlas of Migration that proven to be a well balanced products, in terms of information content, comprehensiveness and conciseness, to really respond to policy need. A similar	JRC.E.6	COLLÈGE	JRC	AGRI EAC EEAS EMPL ESTAT HOME INTPA MOVE NEAR REGIO RTD SG	2021-01-01	2022-12-31	INS-RS	3097659	002	Atlas of Demography – Release 2.0	Atlas of Demography – Release 2.0 - An interactive on-line book containing in addition to release 1.0: EU population Projections (EU to NUTS3 level – 2021 ESTAT release; Demographic Determinants (Fertility, Mortality, Net Migration) from EU Indicators on Accessibility to Services at local level.	2021-12-10	Books	N
																	3097660	001	Atlas of Demography – Release 1.0	Atlas of Demography – Release 1.0 - An interactive on-line book containing; EU Population data by age from EU to NUTS3 level (provinces) from ESTAT; EU population data by age in urban/rural areas; Population data, including projections, at 1 Km resolution (LUISA dataset). (04/2021). Various demographic analyses	2021-05-01	Books	N
																	3097721	003	Atlas of Demography – Release 3.0	Atlas of Demography – Release 3.0 - An interactive on-line book containing in addition to release 2.0: Population data by age structure, including projections, at national level with a global coverage; new dataset at higher geographical details on population, fertility, mortality and net migration; additional indicators for EU at high geographical detail	2022-12-16	Books	N
6. A New Push for European Democracy	6.1 Protecting and supporting EU democracy	20396	DEMO-D	Demography and Democracy	JRC.E.6	30452	MDM	Modelling for Demography and Migration	Demographic change is, and will continue to be, a key factor shaping European societies. Its increasing importance, requires preparedness at both the European and the national level. Population in Europe is ageing as a result of the long-term trends of mortality and fertility decline. Ageing has potentially significant implications for the size of the labour force, welfare and pension systems and care services as a growing proportion of retired citizens are dependent on a smaller labour force. Furthermore, and while until recently mortality and fertility trends seemed rather robust and predictable among EU member states, the covid-19 epidemics is likely to impact several demographic indicators such as life expectancy and natality, with most likely varied impact at the territorial level. Mobility trends are also important for the long-term demographic structure, as mobility intended either within the boundaries of countries, across European countries or internationally. At the national level, countries are facing major challenges with increased mobility trends from rural to urban areas leaving large areas under populated with remaining populations at risk of isolation through reduced mobility and increased pressure on care services. Mobility between EU member states is reinforcing old age dependency in some countries with large segments of the labour force seeking employment in another Member State, with substantial impacts on the population sizes and composition as well as the distribution of skills across Europe. This leads, in some areas, to brain drain and lower productive potential. The demography of Europe is entangled with population change in the rest of the	JRC.E.6	COLLÈGE	REGIO JRC	EAC EEAS EMPL ESTAT HOME INTPA JRC NEAR REGIO RTD	2021-01-01	2022-12-31	CON-AA INS-RS	3016081	ID2	Mapping of international demographic modelling approaches	Report on Mapping of international demographic modelling approaches: Mapping of international demographic modelling approaches (activity started in 2019) to offer a tool for producers and users to understand differences in inputs and outputs of projections.	2021-12-31	Science for Policy reports	N
																	3016082	ID3	Organization of a platform and meeting with major projection producers resulting in a jointly written forward-looking report.	Organization of a platform and meeting with major projection producers resulting in a jointly written forward-looking report. Providing a discussion platform on population projections models (inputs and outputs) between the main providers of population projections: IIASA, UN-DESA, Eurostat's, PRB, US census and possibly some others.	2021-12-31	Validated methods, reference methods and measurements	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
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																	3016083	ID4	Demographic impact of COVID19 after the crisis	The report on the demographic impact of COVID19 after the crisis will study the medium term impact of covid19 on demographic structure: while we are in the middle of the epidemic, some impacts will be of longer term. We will study the impact of COVID-19 on fertility (expected decline and recuperation) and on life expectancy, possibly also at sub-national level.	2021-12-31	Journal contributions (Scopus)	N
																	3016084	ID5	Expert questionnaires to derive fertility, mortality, migration and education scenario assumptions for projections.	In the framework of the new round of population projections developed at IIASA linking education with demographic trends, particularly in organising (possibly together with Eurostat and UN-DESA) the questionnaire.to experts about the future of fertility, mortality, migration and education, that helps in deriving the scenario assumptions. The new projections to be released in 2023 will take stock of the 2020 census rounds. They will cover the whole world including countries in the Global south whose demographic and human capital future is greatly entangled with that of Europe.	2021-12-31	Validated methods, reference methods and measurements	N
																	3016085	ID1	Territorial demographic change analysing several scenarios to 2050	Report on territorial demographic change analysing several scenarios to 2050: Demographic projections are usually confined at the national level (and sometimes disaggregated at the regional level) but many of the present and future demographic and socio-economic challenges are at the territorial level (below NUTS3) where future trends should also be assessed. We will pursue in 2021 the exercise started in 2020 with the analysis and projection of territorial ageing, in collaboration with B3, refining the demographic components of the LUISA model to arrive at comprehensive analysis of the different components of territorial demographic change of MS.	2021-06-30	Science for Policy reports	N
6. A New Push for European Democracy	6.1 Protecting and supporting EU democracy	20396	DEMO-D	Demography and Democracy	JRC.E.6	30543	DeMigIn	Demography Migration and Inclusion	The new Commission acknowledges the scope of the impact and impilcations that societal changes triggered by demographic transition and migration generate in European societies, including the risk that they may lead to a "loss of faith in our democracy", as mentioned in the mission letter to Commissioner Dubravka Šuica (Democracy and Demography). In this respect, part of the Commission Work Programme strives to "make our communities and society more cohesive and integrated" (mission letter to Commissioner Ylva Johansson – Home Affairs) and "strengthen its commitment to inclusion and equality in all of its senses, irrespective of sex, racial or ethnic origin, age, disability, sexual orientation or religious belief" (mission letter to Commissioner Helena Dalli - Equality). The project centres on inclusion as a primary policy issue that cuts across two EC priorities (Promoting our European way of life, A New Push for European Democracy). It aims to provide evidence-based knowledge, methodological support and tools to several portfolios, strategies and actions (Demography and Democracy, Action plan on integration and inclusion, Cohesion Policy and LTVRA). The project looks at inclusion along several intersecting dimensions (Gender, Migrants, Ethnic Minorities, Elderly/Youth, Territories). The project will provide analyses and knowledge in the domains of inclusion and integration, including at regional and local level when possible, to understand how challenges due to demographic change (e.g. ageing),territorial disparities, depopulation, marginalisation and isolation, changing in labour force	JRC.E.6	HOME	JRC	COLLÈGE EMPL JRC JUST REGIO	2021-01-01	2022-12-31	INS-RS	3014621	1	A rural-urban divide in Europe? An analysis of political attitudes and behaviour	Technical report that examines if and how a rural-urban divide may correlate and impact on Europeans' opinions and political choices, with specific reference to a series of issues considered to be particularly divisive in European public discourses in recent times. The study is based on survey data (Eurobarometer) and electoral data (European Parliament elections of 2014 and 2019). In close cooperation with DG REGIO, the report aims to support the Commission's activities towards a Communication on a Long-Term Vision for Rural Areas.	2021-02-15	Technical Reports	N
																	3018106	2	EU place-based policies and migrant integration	The work builds on a collaboration with the Territorial Development Unit (B3). The analysis looks at migrant integration in FUAs and relies on a quantitative description at EU level that cross demographic and socio-economic data (EUROSTAT) with data on sustainable urban development strategies (STRAT-Board). In addition, it draws from five case studies in the following FUAs: Venice, Paris, Liege, Malmo, and Athens.	2021-12-22	Science for Policy reports	N
																	3099486	3	From lonely places to places of opportunities	The work builds on a partnership with the Territorial Development Unit (B3). The aim is to translate the concept of loneliness from individuals to places, to gain analytical perspective on territorial disparities focusing on spatial data as primary source. This JRC Flagship Report will identify priority areas of interventions by looking at opportunities and instruments offered by the EU main funding schemes. The WP will contribute with a chapter focused on the role of Cohesion Policy in migrant integration.	2021-12-15	Science for Policy reports	N
																	3099487	4	Loneliness and Social Isolation in the EU: findings from surveys and media reporting	In close consultation with Cabinet Šuica, DG EMPL and the EP, with a view to support the launch of a policy initiative dedicated to loneliness in 2022. This technical report provides findings on self-reported loneliness in Europe as captured by the European survey datasets and on how Loneliness and Social Isolation have been reported in the Media of EU MS pre and post Covid-19.	2021-10-15	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
6. A New Push for European Democracy	6.1 Protecting and supporting EU democracy	20396	DEMO-D	Demography and Democracy	JRC.E.6	30544	ADV	Attitudes, Discrimination and Vulnerable Groups	This activity is based on a series of studies of the KCMD related to main factors shaping attitudes towards migration and related to children in migration. With respect to attitudes, previous work focussed on the relationship between the presence of migrants and anti-immigration and euro-sceptic attitudes at local level. This type of relationships still needs further exploration and correlation with other aspects related to migration and societal development in general. On migrant children, the previous work covered country specific data collections, an analysis of the controversial medical age assessment as well as alternatives to immigration detention for children. For a number of further issues related to migrant children, data and information is much more fragmented, less comparable and with significant gaps that require new investigations. Both the work on attitudes and the work on migrant children have also triggered a number of considerations related to various discriminatory aspects towards migrants. These considerations, are planned to be intensified in close cooperation with DG HOME and DG JUST as well as with FRA.	JRC.E.6	REGIO	JRC	EAC EMPL HOME JRC JUST RTD SG	2021-01-01	2022-12-31	INS-RS	3042260	ADV2	Data on Children in Migration - Focus on Child Well-Being	Following a first report that covered basic data on children in migration, the second shall cover less explored or where data is very fragmented. The tentative list of subjects would include: •Data on child well-being in EU countries (e.g. rate of children in risk of poverty) •Data on reception provisions (guardian, housing, schooling, health care, administrative status, age assessment) •Data on children in immigration detention and alternatives to detentio, drawing partially on the UN Global Study on Children Deprived of Liberty	2021-09-30	Science for Policy reports	N
																	3042261	ADV1	Attitudes towards the EU and migration	The report shall provide an overview of changing attitudes over the last two decades. This requires a closes look at both salience and preferences. For example, within ideological groups, have issues of concern – namely, salience - become more similar through time? Would that happened only at the national level or Europe-wide? Or, within ideological groups, have attitudes towards a wide range of issues become more similar through time? The answers to these question have important policy and political consequences. If both trends were to be occurring – namely, polarisation in both salience and preferences –, by knowing someone's ideological self-identification one would be better able to predict his/her stances on a host of different issues as compared to 20 years ago. Also, to the extent that polarisation is occurring, compromise becomes more difficult, which complicates makes policy making at the EU level.	2021-09-01	Science for Policy reports	N
6. A New Push for European Democracy	6.1 Protecting and supporting EU democracy	20527	ENLIGHTENMENT 2.0	Evidence, Policy and Democracy	JRC.H.1	30342	ENLIGHT TECH	- Technology and Democracy	Building on the 2020 work that examines the potential causality between online technologies and political behaviour, this project in 2021 will seek to understand the potential ramifications of different communication strategies that use different methods, tools and channels with a specific focus on technologies. Working with a consortium of international experts, H1 will lead the investigation into the science necessary to transform the insights about political communication established in Understanding our political nature and subsequently developed in the Science of Values into practical tools and advice for public bodies. This state-of-the-art interdisciplinary science review will reflect upon the extent that public institutions can meaningfully and ethically communicate using values, narratives, metaphors and frames as well as causal reasoning.	JRC.H.1	COMM	JRC	EEAS SG	2021-01-01	2022-12-31	INS-RS	3064245	D202101	State-of-the-art report on the potential ramifications of public Institutions' communication strategies	State-of-the-art, interdisciplinary science review report on the potential ramifications of communication strategies that use different methods, tools and channels with a specific focus on technologies.It will reflect upon the extent that public institutions can meaningfully and ethically communicate using values, narratives, metaphors and frames as well as causal reasoning.	2021-12-31	Science for Policy reports	N
6. A New Push for European Democracy	6.1 Protecting and supporting EU democracy	20396	DEMO-D	Demography and Democracy	JRC.E.6	30344	ENLIGHT VALUES	- Science of Values and Identities	Values, understood as abstract ideals that guide our individual behaviour are the core building blocks of our worldviews and identities. They therefore have a central position in political decision-making. Several political ideologies and worldviews currently compete in the EU, each embedding different values propositions and identities, while polarisation along the ideological lines appears to be growing. At the same time traditional left-right political orientations seem to be becoming less relevant with other values related cleavages (e.g. universalism vs. conservation) becoming more salient as a guiding principle for political orientation. In times of COVID-19 and the potential for future global pandemics, values and identities are also changing more rapidly than under normal circumstances and rational arguments become more difficult to sustain. There is considerable scope to support the political process by analysing policy needs from the perspective of different values preferences they engage and identities they relate to. Identifying values trade-offs and building support for a proposed solution among groups with different values preferences is central to policymaking and politics.	JRC.H.1	SG	JRC	EMPL ENV GROW IDEA JRC MARE	2021-01-01	2022-12-31	INS-RS	3007188	V1	Values and Identities Toolkit - First Working Version	Practical toolkit on the values and identities in the EU and how to incorporate their diversity into a) policy scoping b) policy adaptation and c) policy communication. The first part of the project will synthesize the findings from the flagship report and Eurobarometer results from 2020. The toolkit should serve the need of policy makers and is informed by a collaborative process with the members of a inter-service group (setup in March 2020). Overall, the development will follow multiple steps to insure its efficacy and fit-for-purpose. Initial toolkit available in September, from then on continuous improvement until end 2022 through lab and field experimentation, e.g. through the ecosystem for evidence informed policy (other project in unit H.1).	2021-09-30	Validated methods, reference methods and measurements	N
																	3010085	V3	Training for policy makers in values and identities policy making	Concept of a training for policy makers in understanding and applying the science of values and identities to concrete policy issues using the toolkit (as a bridge between report and toolkit). The concept will serve as a basis for further development of the training as a bridge for daily use of all the project outputs, such as the flagship report, the empirical analyses and the toolkit.	2021-12-31	Training	N
																	3010086	V4	Science-for-policy report on values and identities in the EU	Science-for-policy report on updated empirical analysis of the values and identities landscapes in the European Union. Follow-up from the initial Eurobarometer in 2020, which maps the values and identities across the EU. Necessary next step to take into account (slowly) shifting values and associations of them with political attitudes, as well as validity post COVID-19. Further specific issues to be identified by the toolkit users.	2022-03-31	Science for Policy reports	N

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																	3108456	D202004	The Science of Values and Identity in the Political Process	The JRC project "Science of values and identity in the political process" aims to improve the understanding of the values held by European citizens' and political parties in general terms and engaged by different political issues. The project aims also to develop a practical analytical framework for policymakers to use in supporting political choices by clarifying the values behind each issue, informing the values trade-off process and communicating with citizens. The main activities will include expert analytical work, developing an analytical framework for values in the policy context, and a special Eurobarometer on values.	2021-06-01	Technical Reports	N
6. A New Push for European Democracy	6.1 Protecting and supporting EU democracy	20396	DEMO-D	Demography and Democracy	JRC.E.6	30346	ENLIGHT - EVIDENCE	Evidence and policy external capacity building	In a world flooded with information from a multitude of sources, providing, managing and making sense of knowledge for policy is more important than ever. With scientific controversies, post-fact politics and societal challenges to the use of evidence in public policy, evidence-informed policymaking needs to be underpinned by strong institutional mechanisms and structures, as well as skilled practitioners, both in the scientific and policy realm. The Covid-19 crisis underlines the vital importance of robust evidence for policy systems with high public trust. This project aims at strengthening and connecting capacities found at national and sub-national level for evidence-informed policymaking in EU Member States (MS). To achieve this objective, the project includes undertaking analysis and assessments of existing capacities, creating dense networks of practitioners and experts with a keen interest in strengthening and connecting capacities for evidence-informed policymaking within and across MS, and developing training for external scientists and policymakers. Building capacities for evidence-informed policymaking within MS improves the quality of public policies and administrations in Europe, thus strengthening European democratic governance, promoting the EU's better regulation agenda, and meeting reform ambitions promoted through the European Semester. The knowledge gained through this project on evidence for policy eco-systems across the EU will provide important insights as to how to further improve the EU's evidence-informed policymaking. The JRC, as leading science for policy practitioner at	JRC.H.1	REFORM	JRC	REGIO RTD SG	2021-01-01	2022-12-31	INS-RS	3008677	E4P2	Two participatory workshops with policymakers and practitioners responsible/developing projects for capacity building for evidence-informed policymaking, 2021	In order to build and connect evidence for policy capacity at national and sub-national level within Member States, two participatory workshops will be organised in order to raise awareness among policymakers and practitioners working at the science-policy interface of shared interests and challenges within and across Member States, facilitate mutual learning and community building, and the development of concrete project proposals or roadmaps to build and connect evidence for policy eco-system capacity. Each of the workshops (to be continued in 2022) will be focusing on a particular aspect of the evidence for policy eco-system, such as advice for Parliament, capacity building for academies, and coordinating evidence in central government. The two workshops build on the networks created during a large capacity building workshop in autumn 2020, as well as past and envisaged future activities in the context of science for regions/parliament and cities.	2021-12-13	Training	N
																	3008678	E4P3	Two participatory workshops with policymakers and practitioners responsible/developing projects for capacity building for evidence-informed policymaking, 2022	In order to build and connect evidence for policy capacity within Member States, two participatory workshops will be organised with A.3. They aim to raise awareness among policymakers and practitioners working at the science-policy interface of shared interests and challenges within Member States, facilitate mutual learning and community building, and develop concrete project proposals to build and connect evidence for policy eco-system. Each workshop will be focusing on a particular aspect of the evidence for policy eco-system, such as advice for Parliament or capacity building for academies. The workshops will include practitioners from the EU (such as the GCSA or EFSA) that share their experiences and learn about best science-policy practice within MS.The workshops build on networks created during a series of virtual workshops launched in autumn 2020, the two 2021 workshops, as well as past and envisaged future activities of the science for regions/parliament/cities project.	2022-12-12	Training	N
																	3008679	E4P4	Expanded/consolidated expert network for evidence-informed policymaking	In order to further improve the JRC's understanding of evidence-informed policy and to share the JRC knowledge in this field (including the Science for Policy Handbook and Enlightenment 2.0 output), it is important to develop and strengthen a network of experts in academia and practice. To this end, the JRC envisages to conclude a JRC Collaborative Research Agreement with the International Network of Government Science Advice (INGSA). It envisages a continued collaboration with the OECD. In addition, part of this deliverable is to organise events and sessions at major conferences to improve our understanding of the knowledge for policy interface and connect with relevant academic communities (e.g. INGSA 2021; Society for Risk Analysis-Europe 2021; European Group of Public Administration 2021; European Consortium of Political Scientists Regulation & Governance conference (ECPR) 2022; European Science Open Forum 2022).	2022-12-01	Training	N
																	3008680	E4P5	Assessment methods for quality of public administration in relation to evidence-informed policymaking	In order to understand where capacity still needs building and how effective the building of capacity has been, the development of methods for assessing evidence-informed policymaking are beneficial. Policy impact of science has been notoriously difficult to measure but interest and expertise has been growing in past years, including for the European Semester process. Using insights from a systematic review of academic and policy literature, along with the results of an expert workshop, and in close collaboration with colleagues from the JRC. working on research impact, evaluation, and indicator building, this deliverable will explore different methods and criteria for assessment EIPM in public administrations, their use (if already in place), and their relevance in the context of the European Semester process.	2021-12-01	Science for Policy reports	N

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																	3008681	E4P6	Knowledge Management skills training and capacity building for external scientists and policymakers, 2021	Building upon its training modules for JRC scientists, as well as Evidence for Policy schools, the JRC plans to organise 1-2 schools in 2021 - along with ad-hoc capacity building workshops focusing on evidence-handling skills at events organised by external, European/International partners, including ESOF, INGSA and GYA. In addition, a second e-learning module will be developed – with unit A.5 – based on existing training material under the auspices of the EU Academy. Finally, the development of a Training-of-Trainers (ToT) programme is planned to build the capacity among research organisation and institutions working at the evidence-policy interface to deliver the course at national, regional and/or local level. Engaging with external policymakers and scientists during training modules and workshops (E4P2 & E4P3) directly contributes to the continuous elaboration and refinement of EC-internal training courses, currently ongoing and to be continued under KM-POLICYPRO.	2021-12-20	Training	N
																	3008682	E4P7	Knowledge Management skills training and capacity building for external scientists and policymakers, 2022	Building upon its training modules for JRC scientists, as well as Evidence for Policy schools, the JRC plans to organise 1-2 schools in 2022 - along with ad-hoc capacity building workshops focusing on evidence-handling skills at events organised by external, European/International partners, including ESOF, INGSA and GYA. In addition, a third e-learning module will be developed – with unit A.5 – based on existing training material under the auspices of the EU Academy. Finally, the development of a Training-of-Trainers (ToT) programme is planned to build the capacity among research organisation and institutions working at the evidence-policy interface to deliver the course at national, regional and/or local level. Engaging with external policymakers and scientists during training modules and workshops (E4P2 & E4P3) directly contributes to the continuous elaboration and refinement of EC-internal training courses, currently ongoing and to be continued under KM-POLICYPRO.	2022-12-19	Training	N
																	3008683	E4P1	Producing maps of evidence for policy eco-systems in EU Member States, 2021-22	In order to build and connect capacities for the generation and integration of evidence into policymaking in EU Member States, as well as to gather insights about evidence for policy institutions across Europe that may hold lessons for EU evidence for policy practices, it is important to map and analyse the capacities that exist at national and sub-national levels in the Member States. Using a combination of a systematic review of academic and policy literature, interviews with national and international experts, as well as data collection during workshops with representatives of evidence for policy eco-systems within Member States, a technical report will map existing structures, mechanisms, and bodies and how they relate to different functions of evidence for policy eco-systems. Based on this report, 27 maps will be produced for knowledge sharing and connecting capacity. Shorter notes to share insights within EU institutions will be prepared, e.g. for DG REFORM's Policy Briefs.	2022-06-01	Technical Reports	N
																	3009965	x8	Learning lessons of Covid-19 for organising a robust, well-connected evidence for policy eco-system	The Covid-19 pandemic seems to accentuate all the problems found at the science-policy interface, from scientific uncertainty and political ambiguity to significant time pressures, blame games, high complexity, and more. What lessons can be drawn from this for creating a robust, well-connected, multi-level evidence for policy eco-system capable of responding to global societal challenges? An analysis of some of the key challenges experienced in the crisis and the diverse responses at different governance levels in Europe will be undertaken on the basis of a review of policy and academic literature - along with input from external and internal experts (E.1).	2021-06-30	Science for Policy reports	N
6. A New Push for European Democracy	6.1 Protecting and supporting EU democracy	20396	DEMO-D	Demography and Democracy	JRC.E.6	30497	ENLIGHT - DISINFO	Fighting disinformation in defense of EU democracy	The ability to reach and to influence global or closely targeted audiences is now available to all, at minimal cost, through internet based communication platforms such as social media. In recent years we have seen an explosion of disinformation and of organised attempts to manipulate opinion. There is a clear risk to democracy, through direct attempt to influence elections and referendums, but also through attacks on democratic institutions and the media. The provision of an evidence base for policy making is the core of the JRC mission, and the acceptance of scientific evidence over impassioned rhetoric - in daily life as in politics in many countries - has been sorely tested in recent years. World Health Organisation Director Ghebreyesus has described the wave of disinformation around COVID-19 as an Infodemic " just as dangerous" as the virus itself. JRC has a strong track record in working against disinformation. JRC tools for detecting and managing disinformation were used by DG COMM and the European Parliament in the run up to the European Parliamentary elections and during the COVID-19 crisis. JRC analysts have provided daily briefings on COVID-19 related disinformation to the SG, DG SANTE, the ECDC, the WHO as well as to disinformation analysts in DG COMM, the European Parliament and the European External Action Service. More sophisticated tools are needed to help detect disinformation, to follow the evolution of campaigns and narratives and to identify potential disinformation	JRC.I.3	SG	JRC JRC	COMM JRC	2021-01-01	2027-12-31	INS-PoC INS-RS	3053850	Disinfo2102	Workshop	Disinformation is a multifaceted phenomenon, and its study crosses from domains such as psychology, communication and behavioural science to natural language processing and network mining. The JRC has successfully run a series of multidisciplinary workshops, bringing together policy makers, academics, journalists, fact checkers and experts in media literacy and in text mining. This workshop will continue the series, promoting communication across different filter bubbles, the exchange of best practice and the formation of new collaborations.	2021-09-30	Training	N
																	3053851	Disinfo2201	Report on disinformation activities in 2022	This report will describe the research, prototyping, analysis and networking activities performed during the year within the Disinfo project.	2022-12-31	Technical Reports	N

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																	3053852	Disinfo2202	Workshop	Disinformation is a multifaceted phenomenon, and its study crosses from domains such as psychology, communication and behavioural science to natural language processing and network mining. The JRC has successfully run a series of multidisciplinary workshops, bringing together policy makers, academics, journalists, fact checkers and experts in media literacy and in text mining. This workshop will continue the series, promoting communication across different filter bubbles, the exchange of best practice and the formation of new collaborations.	2022-09-30	Training	N
																	3053853	Disinfo2101	Report on disinformation activities in 2021	This report will describe the research, prototyping, analysis and networking activities performed during the year within the Disinfo project.	2021-12-31	Technical Reports	N
																	3054177	Disinfo2103	Disinformation Tools	Tools for the detection, management and visualisation of disinformation. These will be developed in close collaboration with the Text Mining and Analysis Competence Centre, through an iterative cycle from research, through prototyping to analysis and feedback. Research into underlying challenges such as the reliable detection of strong emotion in social media posts, cross lingual clustering, following the propagation of narratives across languages will be used in the production of prototype tools used by JRC analysts to investigate and report on disinformation. The resulting tools will be made available to analysts within the EU Institutions and, on the basis of collaboration agreements, to external disinformation experts and fact checkers.	2021-12-31	Sci information systems and databases	N
																	3054211	Disinfo2203	Disinformation Tools	Tools for the detection, management and visualisation of disinformation. These will be developed in close collaboration with the Text Mining and Analysis Competence Centre, through an iterative cycle from research, through prototyping to analysis and feedback. Research into underlying challenges such as the reliable detection of strong emotion in social media posts, cross lingual clustering, following the propagation of narratives across languages will be used in the production of prototype tools used by JRC analysts to investigate and report on disinformation. The resulting tools will be made available to analysts within the EU Institutions and, on the basis of collaboration agreements, to external disinformation experts and fact checkers.	2022-12-31	Sci information systems and databases	N
																	3109302	2204	Prototype Disinfo detection toolkit (Proof of Concept)	Proof of Concept - A set of control instruments for assessing the credibility of multimedia streaming data.	2022-11-30	Technical systems	N
6. A New Push for European Democracy	6.2 Citizen and stakeholder engagement	20544	ENGAGE	Citizen Engagement	JRC.H.1	30365	WE-ENGAGE	Theory and Practice of Citizen Engagement and Deliberative Democracy	This project responds to the 6th priority of the political agenda of the Commission, a “new push for democracy”, including ideas of deliberative democracy. In particular, this project, responds to a new wave of engagement of citizens in the policymaking processes. In 2020 the JRC contributed to draft the new European Democracy Action Plan (COM(2020)790) including provisions for civic engagement beyond voting in Member States. In the Commission, the earlier EC communication on “Better regulation for better results - An EU agenda” (COM(2015) 215), calls for openness, scrutiny, deeper and more effective stakeholder consultation, new forms of engagement and more proximity to EU citizens when it comes to designing and reviewing policies that affect all of us. The Conference on the Future of Europe sets context to seek meaningful involvement of citizens on the Commission's policymaking cycle. In fact, it is since early 2019 that a number of concrete requests from different services to advise or carry out citizen engagement beyond consultation at different phases of the policy cycle, have been reaching the JRC; to name a few, the Conference on the Future of Europe, Horizon Europe Missions, Pollinators initiative, Climate Pact and others. This project responds to this institutional request with strong both a theoretical underpinning framework and an operational agenda, which includes implementation guidance comprising procurement, capacity building, evaluation, as well as, piloting where applicable. This project sets a new Competence Centre on Participatory and Deliberative Democracy.	JRC.H.1	SG	JRC	CLIMA COMM EEAS ENV RTD	2021-01-01	2022-12-31	INS-RS	3017591	WE2	Guidance on Citizen Engagement - Online Toolkit	This deliverable consists of a reasoned inventory of organisations, methodologies and projects on citizen engagement and deliberative democracy, including institutionalised or in the making implementations of CE across governmental institutions. The tool is online and interactive to the extent that it serve as guidance for users who wish to both contribute to its progressive updating and to explore its resources. Its interface is purposefully built to invite users and practitioners around the world to register their projects and experience. Under this deliverable, the CoP website will continuously be updated, as regards inventories to organisations, practices, as well as tools, toolkits, online events and other resources to implement citizen engagement and deliberative democracy practices. The work will follow closely other similar endeavours such as OECD's focusing specifically on EU. It is orientated to practitioners inhouse and in MSs.	2022-11-30	Sci information systems and databases	N
																	3017592	WE3	Consultancy Service: Toolboxes, Protocols and Pilots of citizen engagement and participatory democracy	This deliverable is a container of consultancy work to different DGs collecting various contributions to the co-design, conduct, analyse and evaluate citizen engagement in their respective policy files, as part of the Competence Centre’s mission and support to the implementation of EDAP. It is in that sense an envelope of different documents that will be produced on demand by policy DGs (existing CE files fall on these broad areas: climate, biodiversity, energy, food and mobility).	2022-12-03	Technical Reports	N
																	3017593	WE1	Guidance on Citizen Engagement: Support to procurement provisions and Evaluation framings	This deliverable will consist of a protocol to guide policy services and JRC on the rationales, design, methodologies and procedural steps to implement citizen engagement initiatives. The protocol will be the basis to deliver on one hand the terms of reference for a framework contract, so as to enable the Commission to launch large scale citizen engagement around relevant policy development and evaluation files; and on the other hand, for constructing an evaluation framework on the quality of citizen engagement and deliberative democracy for Commission initiatives. These two documents will be developed in close connection to Commission services to ensure fitness for purpose.	2022-03-31	Technical Reports	N

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																	3017690	WE5	4th Festival of Citizen Engagement and Deliberative Democracy	This deliverable is a key event of the Community of Practice on Citizen Engagement, aiming at maintaining the network and its expansion, as well as demonstrating its leadership. Each year a thematic challenge will be the thread guiding the organisation of the festival; as in previous editions, an exhibition of citizen engagement will be carried out.	2022-03-31	Training	N
																	3017691	WE6	5th Festival of Citizen Engagement and Deliberative Democracy	This deliverable is a key event of the Community of Practice on Citizen Engagement and Deliberative Democracy, aiming at maintaining the network and its expansion, as well as demonstrating its leadership. Each year a thematic challenge will be the thread guiding the organisation of the festival; as in previous editions, an exhibition of citizen engagement will be carried out.	2023-06-30	Training	N
																	3017692	WE4	Lessons learnt from on-line engagement: harnessing innovation on online deliberation	This deliverable consists of the lessons learnt from deploying online engagement tools mainly based on RTD HE missions and COFE, developing recommendations for future usage by the Commission of online platforms to engage citizens. This deliverable will be done in collaboration with JRC.I3 and JRC.E2. With the former, collaboration is done through the project in the same portfolio, COFE-Response. With the latter a collaboration will explore automatic ways of understanding logics of debate to improve moderation of online debate.	2023-11-30	Science for Policy reports	N
																	3017693	WE7	Spaces for and institutionalisation of citizen engagement and deliberative democracy: lessons from above and below	This deliverable shall contain a reflection on the importance of physical spaces in citizen engagement practices, especially those of deliberative nature, taking into account the different spaces that will be experimented through the various CE applications envisaged in this project.	2022-11-30	Science for Policy reports	N
																	3017735	WE8	Participatory and Deliberative Democracy practices across the EU. Mapping and Repository	This deliverable consists of a review study and database development of institutionalised or in the making implementations of CE across governmental institutions. It will depart from the OECD reports to focus on EU. The inventory will follow the same logics of existing inventories run by this project, i.e. a continuously updatable reasoned catalogue based on the evaluation framing that will be developed by the project. All relevant governance levels will be available (national, regional and local levels). If necessary, the analysis of the citizen engagement implementations and the ascertaining of their actual uptake will be based on ethnographic and other types of social research work.	2022-12-31	Journal contributions (Clarivate)	N
																	3017754	WE9	Capacity Building: Training on Citizen Engagement	This deliverable is a container of different training events on citizen engagement, to different audiences, in the Commission or other European institutions, or even Member States. This is organised under the CoP's roadmap.	2022-12-31	Training	N
6. A New Push for European Democracy	6.2 Citizen and stakeholder engagement	20544	ENGAGE	Citizen Engagement	JRC.H.1	30498	CoFE - RESPONSE	Support to the Conference on the Future of Europe - Response Analysis	President Ursula von der Leyen's 6th political priority, "a new push for European democracy" and her commitment to "strengthen the links between people, nations and institutions" has set the momentum for a different contract with citizens, when it comes to develop policies that affect us all. Citizen engagement is relevant at all levels of the EU policy cycle, namely for (1) policy design and preparation, e.g. by contributing both to define policy objectives and relevant expertise; (2) policy adoption, by e.g. contributing to study its social impacts; (3) policy implementation, by e.g. fitting social and cultural contexts, or by engaging the public in monitoring and reporting; (4) policy application, by e.g. extending its outcomes' evaluation to wider sectors of society. Already the EC communication on "Better regulation for better results - An EU agenda" (COM(2015) 215) called for openness, scrutiny, deeper and more effective stakeholder consultation, new forms of engagement and more proximity to EU citizens when it comes to designing and reviewing policies that affect all of us. The JRC has contributed largely to mainstream this thinking, starting from small collaborations through to more recently supporting large scale engagements envisaged by policy DGs, such as the Horizon Europe Missions (RTD), the Conference on the Future of Europe (COMM). In 2018, the JRC launched a Community of Practice on Citizen Engagement, which at present has more than 200 members, establishing a roadmap that included mapping, guidance and applications. Online engagement platforms provide a promising	JRC.I.3	COMM	JRC	COMM SG	2021-01-01	2022-12-31	INS-RS	3060158	RES2101	Automated analytical tools	This deliverable is a container for the different releases of analytical tools, dashboards and prototypes to be provided under this project.	2021-12-31	Sci information systems and databases	N
																	3060164	RES2102	Analysis reports	This deliverable is a container for the different analyses and reports to be provided by the project, which will interpret different aspects of citizens' inputs through online engagement means, using the tools developed in this project.	2021-12-31	Technical Reports	N
																	3060165	RES2201	Automated analytical tools	This deliverable is a container for the different releases of analytical tools, dashboards and prototypes to be provided under this project.	2022-12-31	Sci information systems and databases	N
																	3060166	RED2202	Analysis reports	This deliverable is a container for the different analyses and reports to be provided by the project, which will interpret different aspects of citizens' inputs through online engagement means, using the tools developed in this project.	2022-12-31	Technical Reports	N

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6. A New Push for European Democracy	6.2 Citizen and stakeholder engagement	20548	SCIENCE4ALL	Integrated developments for science communication	JRC.H.2	30378	SCI4ALL-INNOVATION	Innovations in Communication and Storytelling	The JRC strategy 2030 aims for the JRC to step up the ways in which different groups both internal and external perceive the JRC as well as engage and interact with it. Underpinning this objective relies on an awareness and a mapping of groups the JRC aims to influence, from policy makers to external partners to civil society. The "Communication from the President to the Commission P(2019)2 on the Working Methods of the European Commission" (Section X) highlights that Communications activities should aim to engage in a language that everyone understands. It also points out that it is best done by its own advocates whose media and public perception depends on their ability to communicate convincingly on a large number of issues in all Member States. In this context the JRC offers an rich array of science contents that provide the backbone to EU policies and can influence positively the trust in science and evidence for policymaking. This implies that there is a key role for a transversal projects to (re)shape the panorama of scientific and integrated science communication approaches into meaningful deliveries for our various audience from stakeholder to citizens. This context also implies that there is a need to rely on a better alignment to political agendas, and it places a renewed drive to prioritise and tailor messages that are appropriate and relevant for each audience. In this endeavour the project SCI4ALL innovation intends to identity and guide innovative communication and apply knowledge management approaches to the mapping, the strategy, action plans and means to an end of the communication efforts, built around the	JRC.H.2	JRC	JRC	COMM EAC RTD	2021-01-01	2022-12-31	INS-RS	3014936	)22D1musp	Third collaboration action in partnership with museums - Paris Universcience	Report on the deployment and evaluation of the science museum collaboration: Paris Universcience	2022-10-21	Technical Reports	N
																	3014951	1D3scicom	Activity report on science communication 2021	Annual report of science communication developments and actions 2021. This will cover external networks, new formats and storytelling, external and internal communication and processes.	2021-12-22	Technical Reports	N
																	3014952	1D4comms	Updated communication strategy	Strategic and implementation document towards an updated JRC communication strategy. This deliverable includes the setting and coordination of the working group and its deliverables	2021-07-16	Technical Reports	N
																	3028972	21D2conte	Visitors Centre and Digital Contents development report	Stemming from emerging priorities and tying in with other audience engagement projects, e.g. Project 30380 - SCI4ALL-YOUTHPRO and Project 30365 - WE-ENGAGE, this deliverable will develop contents outreach and stakeholder engagement activities aimed at refreshing and enhancing user experience for 1) the Visitors' Centre and 2) the JRC Digital Media Hub. For the JRC Digital media hub it will include the regular upkeep, integration and co-creation of new/revamped digital content assets, the adaption/ maintenance of the underlying database. . The resulting deliverable report will summarise the progress, achievements made of activities developed, barriers encountered, evaluation of the success of completed projects and suggestions for future projects. It will include the impact measured through analytics.	2021-12-22	Technical Reports	N
																	3028973	22D2Conte	Visitors' Centre and digital contents developments	This deliverable will develop contents outreach and stakeholder engagement activities aimed at refreshing and enhancing user experience for 1) the Visitors' Centre and 2) the JRC Digital Media Hub. It will exploit thematic priorities and tying in with other audience engagement projects, e.g. Project 30380 - SCI4ALL-YOUTHPRO and Project 30365 - WE-ENGAGE. For the JRC Digital media hub it will include the regular upkeep, integration and co-creation of new/revamped digital content assets, the adaption/ maintenance of the underlying database. . The resulting deliverable report will summarise the progress, achievements made of activities developed, barriers encountered, evaluation of the success of completed projects and suggestions for future projects. It will include the impact measured through analytics.	2021-12-31	Technical Reports	N
																	3031210	2D3scicom	Annual report of science comm developments 2022	Annual report of science comm developments 2022, this will cover external networks, new formats and storytelling, external and internal communication and processes	2022-12-22	Technical Reports	N
																	3032466	)21D1musn	Second collaboration action in partnership with museums: Milan museum	Report on the deployment and evaluation of the science museum collaboration with the museum of technology on the theme of artificial Intelligence (You&AI), which includes workshops, digital experiences using stories, and interactive creations.	2021-09-30	Technical Reports	N

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6. A New Push for European Democracy	6.2 Citizen and stakeholder engagement	20548	SCIENCE4ALL	Integrated developments for science communication	JRC.H.2	30379	SCI4ALL-VISUAL	Visual Communication	The SCIENCE4ALL portfolio responds to the Commission priority 6 which clearly identifies the needs to 'Stepping up the Europeans' engagement in the EU project. There is more emphasis than ever to better engage Citizens with EU policies, and this trend also reflects on the ways the JRC disseminates its knowledge. In this project SCI4ALL-VISUAL. In this context, visual communication is no longer reserved purely for communication products. The Commission is increasingly using visuals to make its political documents more appealing and accessible. Knowledge visualisation and graphics capacity will be further developed as this is becoming a game changer in political and science communication in order to explain complex knowledge insights to different audiences. This transversal science has become a key tool in storytelling and visual assets are also the dominant form for social media content and data visualisation. The continuous innovation stems forms the core of a science of graphic and visual design (distinct from activities such as social media), which are specialities on their own right, where visual communication is now seen as a valuable tool for persuasion, an indispensable component of a successful communication campaign and an impactful means of engaging with audiences.	JRC.H.2	JRC	JRC	COMM OP	2021-01-01	2022-12-31	INS-RS	3014962	202101	Annual report visual communication 2021	This deliverable encompasses the visuals/graphics for promotion material, publications, social media, and events as services for both corporate and thematic requests. This deliverable also includes the photo and video materials produced for events, social media, publications etc, as well as photo reportages and stock footage of JRC laboratories. These products will help raising the visibility of JRC corporate initiatives and JRC scientific activities and results. It also includes the full production service (from proof reading to printing and distribution) of corporate publications and flagship reports, based on the final manuscript provided by content owners.	2021-12-30	Technical Reports	N
																	3031145	202201	Annual report visual communication 2022	This deliverable encompasses the visuals/graphics for promotion material, publications, social media, and events as services for both corporate and thematic requests. This deliverable also includes the photo and video materials produced for events, social media, publications etc, as well as photo reportages and stock footage of JRC laboratories. These products will help raising the visibility of JRC corporate initiatives and JRC scientific activities and results. It also includes the full production service (from proof reading to printing and distribution) of corporate publications and flagship reports, based on the final manuscript provided by content owners.	2022-12-29	Technical Reports	N
																	3039233	202102	Visual communication training, guidelines and awareness raising	This deliverable includes the development and delivery of training courses for JRC staff about various aspects of visual communication. It also includes internal communication and ad hoc advice related to the use of the EC/JRC visual identity and the creation and maintenance of various templates on Connected. It reports on the exploitation of networking opportunities within and beyond the JRC, including maintenance of an inventory of JRC science visualisation products on Connected. Under this deliverable we will create (or update) guidelines related to the production process of publications, to the graphic and infographic production, and JRC audio-visual productions, including the delivery of JRC audio-visual products to DG COMM's Audio-visual service for wider reach and professional archive.	2021-12-31	Training	N
																	3039294	202202	Visual communication training, guidelines and awareness raising	This deliverable includes the development and delivery of training courses for JRC staff about various aspects of visual communication. It also includes internal communication and ad hoc advice related to the use of the EC/JRC visual identity and the creation and maintenance of various templates on Connected. It reports also on the exploitation of networking opportunities within and beyond the JRC, including the maintenance of an inventory of JRC science visualisation products on Connected. Under this deliverable we will create (or update) guidelines related to the production process of publications, to the production of graphic and infographic and guidelines for JRC audio-visual productions, including the delivery of JRC audio-visual products to DG COMM's Audio-visual service for wider reach and professional archive.	2022-12-31	Training	N

JRC 2021 - 2022 DETAILED WORK PLAN (JPB extract as of 04 06 2021)

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6. A New Push for European Democracy	6.2 Citizen and stakeholder engagement	20548	SCIENCE4ALL	Integrated developments for science communication	JRC.H.2	30380	SCI4ALL-YOUTHPRO	JRC Youth Programmes	Targeting young generations as a specific audience is of significant importance as they are the future of the EU. This age group are also creators of new powerful citizen youth movements we start to see today and which can have leverage on policymakers. Any major policy initiative like the green deal will also tackle the societal and behavioural issues in order to increase their impact (like e.g. with the Climate pact of DG CLIMA) and hence youth as target will be a key driver in this strategy. Teachers and professors play a fundamental role as multipliers of our science-society narrative and as actors in the co-creation of educational material. Innovative solutions need to be produced in order to have tailored materials for students of different ages. As such, this project supports the Public Engagement with Science (SCIENCE4ALL) portfolio responding to the Commission priority 6 which clearly identifies the needs to 'Stepping up the Europeans' engagement in the EU activities. At the policy level, Commission-wide efforts are being set up by DG EAC like the Sustainable skills and behaviour coalition in the frame of the forthcoming European Education Area Communication and by DG MARE like the Ocean Literacy, to name two policy initiatives targeting schools. There is a need for developments of contents that can bridge the gap and by developing and enhancing two-way communication channels between the JRC science on the one hand and school actors and young citizens on the other.	JRC.H.2	EAC	JRC	COMM EAC RTD	2021-01-01	2022-12-31	INS-RS	3014963	202101	Activity report of the youth programme and evaluation 2021	The report includes: (1) description of activities put into place; covering the first pilot on digital content in the sustainability and green deal areas and embedded in a MOOC framework in collaboration with EU Academy; (2) analyses and evaluation (3) mapping of relevant EU school/teacher networks and policy initiatives (4) roadmap for follow up activities for 2022.	2021-12-31	Technical Reports	N
																	3045396	202201	Activity report of the youth programme and evaluation 2022	The report includes: (1) description of activities put into place; (2) analyses and evaluation	2022-12-31	Technical Reports	N
6. A New Push for European Democracy	6.2 Citizen and stakeholder engagement	20548	SCIENCE4ALL	Integrated developments for science communication	JRC.H.2	30381	SCI4ALL-EVENTS	Events and exhibitions	The Public Engagement with Science (SCIENCE4ALL) portfolio responds to the need, clearly identified in the von der Leyen Commission Priority 6, to 'Step up the Europeans' engagement in the EU project. In doing so, it embodies the implementation of the JRC Strategy 2030 where it calls for re-thinking JRC approach to communications, to alter the perceptions that different target audience have of the JRC and the way in which they engage or interact with us. Organising JRC events and exhibitions play an important role in this framework, by helping bringing JRC science to major stakeholders, including policy DGs, JRC external partners and ultimately EU citizens. In the context of the COVID-19 pandemic, which provoked a major disruption of the very concept of promotional events organisation for several years to come, it is also imperative to assess and develop new formats and platforms for events, with increased emphasis on competence building in digital and hybrid events form both the organisational and technical perspectives. The project support the portfolio SCI4ALL in supporting the management of all events of corporate of thematic or global nature with specificities to stakeholders to respond to these new challenges. This will encompass the future of events(including the flagships and science lectures), and the JRC participation to global events of various nature. Moreover by means of the recently established JRC Network4Events it will provide guidance and expertise advice on the organisation of events across the JRC	JRC.H.2	JRC	JRC	RTD	2021-01-01	2022-12-31	INS-RS	3014964	202101	Annual report events	the report inlcudes (1) a harmonised QA process for JRC events planning and management; (2) JRC-led events in and JRC participation to external events for corporate outreach visibility ,Stakeholder event (e.g. SmP, participation in RTD and DG weeks events) (3) Science lecture series	2021-12-31	Technical Reports	N
																	3032119	2021001	Annual Report Events 2021 including digital events capacity	The report includes (1) a harmonized QA process for JRC events planning and management; (2) description and analysis of JRC-led digital or hybrid events (3) Science lecture and annual lecture series (4) description of training provided related to the organization of events in the JRC	2021-12-31	Technical Reports	N
																	3053179	2022001	Annual Report events 2022	The report includes (1) a updated where needed of the QA process for JRC events planning and management; (2) description and analysis of JRC-led events and JRC participation to external events for corporate outreach visibility, stakeholder events (e.g. SmP, participation in RTD and DG weeks events) (3) Science lecture series (4) description of training provided related to the organization of events in the JRC	2022-12-22	Technical Reports	N

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6. A New Push for European Democracy	6.2 Citizen and stakeholder engagement	20548	SCIENCE4ALL	Integrated developments for science communication	JRC.H.2	30382	SCI4ALL-DIGITAL	Digital Communications Strategy and Social Media Campaigns	The project SCI4ALL-DIGITAL is a key project of the portfolio SCI4ALL by developing Digital communications strategies and social media campaigns by innovating and delivering for two-way digital science communication on priority areas. Coherent with EC policies under guidance of DG COMM, It supports the role of JRC as science and knowledge service for policy making by enabling multiplying effect of dissemination, and engagement to reach policymakers, press, stakeholders and the public at large. The project will further build on the very successful JRC social media activity with impact increasing by an average of 25% per year in followership. Moreover SM training sessions organised by the team resulted in 250 JRC staff acting as digital ambassadors on Twitter at the end of 2019. The project also constitutes the most effective channelling of high traffic to its web site (EU science hub). Its customer service on social media is also a unique conduit for receiving and answering questions and concerns form citizens, and in doing so it contributes to knowledge dissemination of the JRC. This project also supports the "one Commission" and working across silos initiative by consolidation of social media platforms such as Linked In for the dissemination of state of the art forefront knowledge across all the Commission research DGs.	JRC.H.2	JRC	JRC	COMM	2021-01-01	2022-12-31	INS-RS	3014965	202101	Annual report of JRC on social media 2021	Annual report of JRC on social media 2021 - Management of the JRC Social Media presence including Facebook, Twitter, Linkedin, and Youtube to connect with policy-makers and stakeholders	2021-12-31	Technical Reports	N
																	3014967	202102	training on social media	training materials of courses given on social media	2021-12-31	Training	N
																	3054684	202201	Annual report social media 2022	Annual report of JRC on social media 2022 - Management of the JRC Social Media presence including Facebook, Twitter, Linkedin, and Youtube to connect with policy-makers and stakeholders	2022-12-22	Technical Reports	N
6. A New Push for European Democracy	6.2 Citizen and stakeholder engagement	20548	SCIENCE4ALL	Integrated developments for science communication	JRC.H.2	31000	SCI4ALL-TECH	Mixed Reality for Innovation in Next Gen Interactive Technology, Training and Science Communication	Interactive technologies, such as Augmented (AR) and Virtual Reality (VR) are widely considered to be game-changing technologies that redefine ways to communicate information or visualise scientific data. AS such they have key implications to science communication and in education. In the context of the "Communication from the President to the Commission P(2019)2 on the Working Methods of the European Commission" (Section X), the driving argumentation is to engage by means of a language that everyone understands. This implies that novel technological means of communication will become more and more a key aspect that will leverage the impacts in par with the story telling in the new disruptively up-scaled digital landscape. In a parallel context, the Next Generation of Internet (NGI) programme (DG CONNECT) underlines that such technologies are going to transform the ways in which people interact and share information on the Internet and beyond. In the context of the portfolio Integrated developments for JRC communication (SCI4ALL), the project SCI4ALL-TECH brings both a unique niche of technological answers for the JRC to support policy DGs dealing with this societal and digital transformation (including for DG EAC and the education endeavours), to create new forms of science engagement for thematic DGs (DG ENV) and to place the JRC at the forefront of innovative solutions and pairing a technological watch to the mapping of potential key applications in the field of interactive technologies.	JRC.E.2	CNECT	JRC	EAC ENV JRC RTD	2021-01-01	2023-12-31	INS-RS	3044604	S1D2	On the use of Mixed Reality in support of Research and Science communication in 2022	This technical report will aim at reporting on how mixed reality impacted scientific and communication activities in the JRC in 2022. This report will cover the Digital experiences in AI and its deployment in the MUST museum in milan an in the UniverSciences museums in Paris, among others.	2022-12-16	Technical Reports	N
																	3044605	S1D3	On the use of Mixed Reality in support of Research and Science communication.	This technical report will aim at reporting on how mixed reality impacted scientific and communication activities over the project duration. This report will cover the STING exhibition in partnership with ENV, as well as the design of the Digital experiences in AI and its deployment in the MUST museum in milano and in Paris, along with other activities stemming from Policy Support administrative arrangements and from the JRC museum pilot project.	2023-12-15	Technical Reports	N
																	3044606	S1D1	On the use of Mixed Reality in support of Research and Science communication in 2021	This technical report will aim at reporting on how mixed reality impacted scientific and communication activities in the JRC in 2021. This report will cover the STING exhibition in partnership with ENV, as well as the design of the Digital experiences in AI and its deployment in the MUST museum in milano.	2021-12-17	Technical Reports	N
																	3061361	Verification	Experimental verification of communication network performance and computing topology for online application based on interactive technology	This report will summarise finding in the VRlab experimental facility on the performance evaluation of communication networks in typical online application setup using interactive technology, such as Virtual Reality and Augmented Reality and comparison with expected requirements.	2021-12-17	Science for Policy reports	N
																	3061362	Review	Review of communication network performance and computing requirements to enable online interactive applications	This deliverable consists of reviews of relevant scientific and commercial literature on the technical characteristics of communication networks and server topology to deploy an operational online application including interactive technology, in particular Virtual and Augmented Reality.	2021-12-17	Science for Policy reports	N
																	3076166	S2D1	Review of existing interactive technology applied to online education and training applications	This deliverable will consist of reviews of relevant scientific and commercial literature on the use of interactive technology, in particular Virtual and Augmented Reality, applied to online education and training application	2021-12-17	Technical Reports	N

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																	3079161	S3D1	Review of computing architecture and networking topology to enable online interactive applications	This deliverable consists of reviews of relevant scientific and commercial literature on the technical requirements on computing architecture and networking topology to enable online interactive applications, in particular Virtual and Augmented Reality.	2021-12-17	Technical Reports	N
6. A New Push for European Democracy	6.2 Citizen and stakeholder engagement	20548	SCIENCE4ALL	Integrated developments for science communication	JRC.H.2	31420	ECCO	Education for Climate Coalition	This project aims to set up a Coalition called Education for Climate. Education is strongly represented in the European Green Deal/Climate Pact, but needs more than mere awareness raising. As a flagship initiative of the new European Education Area Communication, the coalition must become a key instrument for the educational community in the EU to become more efficiently mobilised in supporting innovation towards the transition to climate neutrality, particularly in relation to green skills development and change in behaviour. It aims to mobilise available expertise, commitment and networks in education across MS and supports the creation, testing and implementation of innovative solutions with teachers, pupils and students. It will combine EAC's deep insight of education systems the the JRCs scientific approach and expertise in exploiting JRC knowledge for educational purposes. The role of the JRC is to run the executive support service to EAC for designing the coalition, for coordination and communication activities and for providing community management.	JRC.H.2	EAC	EAC	(blank)	2021-01-01	2022-12-31	CON-AA	3091542	2	Define Focus Groups	Exploring of the set-up and implementation of the Education for Climate Coalition with relevant audiences, and identify the elements that are necessary and conducive to support it. This includes identifying a number of existing innovative case studies in 3 to 5 Member States, and use them as pilots to test the possible implementation of the coalition.	2021-05-31	Technical Reports	N
																	3091543	3	Design of composition of coalition	Design of the main components of the Education for Climate Coalition. Based on an agreed vision and mission of the Education for Climate Coalition, the main components include: -National Coalitions with associated guidelines to support the implementation of the coalition; -A framework for pledges (content structure of pledges; thematic taxonomy issues linked to the subject of the project and/or initiatives (e.g. energy, biodiversity, etc); quality standards, a monitoring mechanism, community management framework and governance.	2021-06-30	Technical Reports	N
																	3091544	4	Design and the implementation of an online platform dedicated to the Education for Climate Coalition	Design and the implementation of an online platform dedicated to the Education for Climate Coalition. General policy information and organisation of the Education for Climate Coalition will be available on this platform, guidelines on how to become active in the movement, upcoming events and news items, reports and studies, etc. It will furthermore include a collaborative online space where pedagogical experts, innovative professionals of education and stakeholders can upload information and participate in discussions. The platform will take stock of existing platforms like eTwinning and School gateway in view of being complementary. A specific section will be dedicated to a pledges viewer.	2021-11-30	Technical systems	N
																	3091545	5	Education for Climate Coalition Community Management	Management of the community of the Education for Climate Coalition. This includes : (1)Collecting and monitoring individual and collective pledges (2)Setting-up, advising and supporting National coalitions (3)Setting up of a helpdesk for users and contributors to the Coalition (4)Management of information available on the platform.	2022-12-31	Technical Reports	N
																	3091546	6	Managing of Communication Activities of the Education for Climate Coalition	Defining a communication campaign and organising key events for the purpose of giving visibility, keeping the momentum and informing about progress in the context of the Education for Climate Coalition.	2022-12-31	Technical systems	N
																	3091547	1	Report on analysis and mapping of existing national and international actors	Conducting a mapping and analysis exercise of existing actors, networks and projects in the educational field with a focus on educating young people relevant for the Education for Climate Coalition.	2021-02-28	Technical Reports	N
7. High Performance Modern Commision	7.1 Knowledge and data management	20550	KM-COLLAB	Knowledge Management and Collaboration	JRC.H.2	30354	One-Stop Shop	EC One-Stop-Shop for Collaboration	In January 2018, the One-Stop-Shop for Collaboration ('One-Stop Shop') was set up as a pilot by the IMSB (***) to provide a single source of advice for Commission staff on collaborative ways of working. After its first year of operation, in April 2019, the IMSB welcomed the success of the One-Stop-Shop and recommended the scaling up of its activities to support corporate priorities identified by the Board, underpinned by a Community of Practice on Collaboration ("the Collaboration Hub") that was launched in September 2019 during the Knowledge Week. The decision of the IMSB led to a section of the IMSB Work Programme 2020-2021 devoted to the One-Stop Shop's targets, deliverables and milestones. This project under the JRC Work Programme 2021-2022 will be aligned as closely as possible to the IMSB work programme for obvious consistency purpose, although the period of the two workprogrammes are different. Hence, the text here below will apply to the period 2020-2021. (***) The IMSB, Information Management Steering Board, is the highest level of governance, led by the Chief Operational Officer of the Commission (deputy SG) and composed of 19 general directors, steering the strategy and implementation of the Knowledge/Information/Data management in the Commission, as laid down in the EC Communication C(2016) 6626	JRC.H.1	SG	JRC	BUDG COMM DIGIT EAC ECFIN ECHO ENV FPI HOME HR INTPA JUST NEAR OLAF REFORM RTD SANTE SCIC TAXUD	2021-01-01	2022-12-31	INS-RS	3019090	/ledgeRepo	knowledge repository on knowledge management and collaboration	a knowledge repository of expertise, lessons learned, methods, guidance and training material on knowledge management and collaboration. The one-stop shop will enlarge its current pool of experts. After every project, it will collect users' feedback and experts' knowledge through brainstorming, participatory meetings, story-telling, active sharing of resources and documentation	2021-01-29	Technical Reports	N

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																	3019091	Consultanc	Delivery of consultancy services to departments	Delivery of consultancy services to departments with the aim to improve the way the Commission collaborates and manages its knowledge. This includes the design of KM strategies, the choice of technical collaboration platforms, organisational change activities, soft people collaboration, engaging communities, etc. Activities will be summarised in an end-of-the-year report, with a light evaluation of the services (not to be be an administrative/bureaucratic report).	2022-03-01	Technical Reports	N
																	3019263	llaboration-	Nurturing the CollaborationHub	Lead, manage and facilitate the Collaboration Hub, as to grow the community members in terms of skills and experience in Collaboration and Knowledge sharing, so that themselves they can support people in their units/services/DGs/cross-DG teams.	2021-12-31	Training	N
																	3028233	Trainings	Trainings on collaboration methods and tools	Design and provision of trainings on collaboration methods and tools. The demand for improving collaboration in the Commission is huge and shall be matched by scaling up the capacity of One-Stop Shop. This can be done by increasing the average literacy for collaborative methods and tools in the departments, through training, conferences, seminars, etc.	2021-12-31	Training	N
7. High Performance Modern Commision	7.1 Knowledge and data management	20550	KM-COLLAB	Knowledge Management and Collaboration	JRC.H.2	30355	COUNTRYKNOW-PLUS	Enhancing Country Knowledge	The Commission does not do enough to share and exploit country- and region specific knowledge. Often, such information is requested several times across DGs, services and policy areas, instead of being re-used. In the last two Commission mandates, various initiatives (e.g. the European Semester and the RegioWiki) have been launched to enhance the management of country knowledge. In addition, many other types of country knowledge are available, but underutilised, including the insights and data harvested by the Commission's executive and decentralised agencies during their close cooperation with Member States. There is a growing need for more, better in quality, timelier, easily accessible, easier to integrate and well-managed country knowledge to improve the evaluations and the impact assessments of Commission policies, inform policymaking and contribute to the implementation of the common policies. Development of country knowledge management environment has been recognised as a Commission-wide priority by the Information Management Steering Board (IMSB). The project builds on past successful work done in applying the holistic approach to identify, coordinate and align processes in which country knowledge is produced, managed and used. The project supports teams across Commission working on country knowledge to collaborate with the support of easy-to-use digital tools.	JRC.H.1	SG	JRC	BUDG COMM ECFIN EMPL ENV GROW JRC REFORM REGIO	2021-01-01	2022-12-31	INS-RS	3018402	02	Automated extraction and presentation of key data on a single gateway	AI pilot of automated extraction and presentation (e.g. in digital reports/dashboards) of key indicators for selected policy areas in standardised formats that can be easily included in presentations, briefings and policy documents. Priority should be given to indicators and the needs of DGs and services involved in the preparation the European Semester and the representations and regional offices in the Member States.	2021-12-31	Technical systems	N
																	3018403	03	External community of experts	While many DGs and services support networks of external policy experts and organisations for their own policies, this expertise is neither joined up nor easily accessible across the Commission. Their combined knowledge can be of wider use and help integrate the Commission's analysis for country policy formulation (including in the European Semester process). The creation of external communities of practice for identifying, analysing, recognising, managing and utilising the country knowledge produced by national experts from different networks could be a solution to this challenge. Such communities will first be piloted and complement the work of internal country knowledge communities of practice	2021-12-31	Training	N
																	3018404	01	Automated extraction of media content on a single gateway	AI pilot of media monitoring for selected topics and events in a country, based on automated news analysis produced using natural language technology by EMM. The outcome of the analysis will be presented in dynamic dashboards	2021-06-30	Technical systems	N
7. High Performance Modern Commision	7.1 Knowledge and data management	20550	KM-COLLAB	Knowledge Management and Collaboration	JRC.H.2	30356	KM-POLICYPRO	Knowledge Management for policy Professionalisation	In a world flooded with information from a multitude of sources, providing, managing and making sense of knowledge for policy is more important than ever. With scientific controversies, post-fact politics and societal challenges to the use of evidence in public policy, evidence-informed policymaking needs advocates and skilled practitioners, both in scientific and policy bodies. In order to effectively incorporate science and evidence into policymaking, a new profession is emerging at the science-policy intersection. Meanwhile, the science and policy worlds, albeit interconnected, are ruled by different rhythms. Providing and using evidence in policymaking is therefore a complex task demanding a set of distinct skills and continuous dialogue and collaboration across the science-policy divide.	JRC.H.1	JRC	JRC	HR SG	2021-01-01	2022-12-31	INS-RS	3006703	D2	Training and capacity building for JRC scientists in evidence and policy in 2022	Training and capacity-building activities contributing to the professionalization of the collective KM for Policy skill set of the JRC. During the year of 2022 around 300 JRC scientists will have completed at least one of the two training (online or face-to-face) courses: 1) the 2-day training of the role of the JRC in EU decision-making; and 2) the 2-day training for JRC scientists on evidence for policy skills. This will not only benefit internal JRC colleagues, but also assisting the broader EC with achieving better evidence-informed policy-making.	2022-01-03	Training	N
																	3006704	D1	Training and capacity building for JRC scientists in evidence for policy in 2021	Training and capacity-building activities contributing to the professionalization of the collective KM for Policy skill set of the JRC. During the year of 2021 around 300 JRC scientists will have completed at least one of the two training (online or face-to-face) courses: 1) the 2-day training of the role of the JRC in EU decision-making; and 2) the 2-day training for JRC scientists on evidence for policy skills. This will not only benefit internal JRC colleagues, but also assisting the broader EC with achieving better evidence-informed policy-making.	2021-01-04	Training	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3006711	D3	Implementation of the conceptual work of the Competence Framework for Policy Making in the Commission	Development and piloting of two training modules targetting policymakers in the Commission: 1) Good Policymaking; and 2) Evidence Informed Policymaking. The modules will be developed on the basis of the Competence Framework for Civil Servants in the Commission to be implemented as part of the EU Policymaking Hub. Development and implementation of further products and activities to integrate the Competence Framework for Civil Servants into the professional development system of the Commission. This will provide guidance for staff, line managers and teams in evaluating competence portfolios and achieve long term professional development goals. The work will be done in collaboration with SG C, DG HR B.3 and will benefit SG C, DG HR B3	2021-12-06	Training	N
																	3006712	D4	DELETE	DELETE	2022-01-03	Training	N
																	3007527	D5	Pilot Policy Impact Clinic – Consultancy for JRC scientists seeking to increase their policy impact 2021	This activity envisages creation of a new consultancy service in the JRC, supporting scientists seeking to increase their policy impact. It will offer advisory services of facilitating strategic planning for policy impacts (both internal and external to the Commission) of JRC's scientific projects. The critical mass of knowledge contained in the Evidence for Policy training, Evidence for Policy Handbook, the Knowledge for Policy Skills Map and Professionalisation Pathway, as well as insights resulting from the Enlightenment 2.0 Programme, give a robust basis for such an advisory service. Additional potential involvement of units with complementary competences (e.g. Knowledge Management Units, Knowledge Centres, A.3, H.2, I.2) could further benefit the service. Depending on the researchers requesting advice, this project could also be linked to the citizen engagement activities of the unit.	2021-01-04	Training	N
																	3007538	D6	Policy Impact Clinic – Consultancy for JRC scientists seeking to increase their policy impact 2022	Following the pilot conducted in 2021, this activity would be scaled up in line with the demand and the capacity of the unit. The target number of requests for the service would increase compared to 2021, with a specific level to be determined by the end of 2021. This activity consists of providing a consultancy service in the JRC, supporting scientists seeking to increase their policy impact. It offers advisory services of facilitating strategic planning for policy impacts (both internal and external to the Commission) of JRC's scientific projects.	2022-01-03	Training	N
																	3017090	D7	Training on the Science of Values and Identities in the Political Process	Translation into concrete training sessions of the synthesised research and the toolkit in the 'Science of Values and Identities' project and the relating concept into training for the continuous professionalization of policymaking. The training will likely fit into the category of the cross-cutting skill of "Supporting the political process" under the new Policy Hub. The training should be the bridge between the knowledge provided in the several reports and the toolkit functionality in order to guarantee uptake of the findings. The number of people trained by the end of 2022 will depend on the usefulness of the toolkit and it's relevance for Better Regulation, which is currently undergoing substantial revisions.	2022-01-31	Training	N
7. High Performance Modern Commision	7.1 Knowledge and data management	20550	KM-COLLAB	Knowledge Management and Collaboration	JRC.H.2	30385	WEB-BASED KPs	Web-based Knowledge Platforms	WEB based platforms form a cornerstone for knowledge management and digital knowledge communications. The two JRC corporate web platforms are complementary and build to: A) EU Science Hub: disseminate JRC science to the public and its stakeholders B) Knowledge for Policy (K4P) platform: federate various emerging knowledge services into one single, cross-EC web platform and, to bridge the science-policy gap. The Science Hub is the JRC's corporate information web site. The Science Hub today is a platform with an unsustainable large amount of content that mostly seems outdated. With current organisation, workflows and resources, the Science Hub cannot maintain the high quality content demanded by our audience and required of a Commission website. With the coming into force of the Europa Web Guide in October 2019, the Science Hub needs to redesigned to ensure the EC's online visual identity and remain coherent, relevant and cost-effective. When Knowledge4Policy (K4P) was presented to the Directoire in late 2019, we were instructed to 'think strategic, think big'. This project is part of the response. A recent training in July 2020 on K4P to the PolicyMaking Hub's Summer School showed high interest from other DGs in K4P, demonstrating that our unique story resonates. This story puts K4P as the EC's 'leading edge' platform in evidence-informed policy and	JRC.H.2	JRC	JRC	COMM	2021-01-01	2022-12-31	INS-RS	3013256	2	Activity Report Corporate Web	Annual activity report of Corporate Web activities: To implement a data analytics method for measuring impact of web communications we need to a) Build KPIs b) Collect & analyse data with Europa Analytics The support of a data analyst to help define KPIs, interpret the data collected, write reports and, give actionable advice for change would be beneficial.	2022-01-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3013257	1	Capacity building package on K4P, web content and Content Management Systems (CMS)	Design and delivery of training to JRC for staff tasked with external and digital communication (web editors and content contributors) on the Science Hub & K4P (+ other web presences on demand). Growing demand by the political leadership to “provide clear, consistent and transparent information to citizens” , requires sufficient allocation of skilled staff and resources to maintain a successful, integrated communication effort. Staff involved in content creation for websites need specific skills & knowledge (e.g. Web writing guidelines; Commission style guide; How to write clearly; SEO (editorial aspect, formatting, writing); Content management a) Content inventory b) ROT analysis) c) taxonomies to ensure that web projects reflect a coherent view of JRC's vision and activities, and compliance with EC web standards (see Europa Web Guide).	2021-06-30	Training		N
7. High Performance Modern Commision	7.1 Knowledge and data management	20550	KM-COLLAB	Knowledge Management and Collaboration	JRC.H.2	30386	K-COCOSOL	Knowledge Communities and Collaboration Solutions	The 2016 Communication on Data, Information and Knowledge Management at the European Commission emphasizes that better gathering, sharing and use of data, information and knowledge in the Commission are essential to deliver integrated policy work and overcome silo mentalities. Communities of Practice (CoP) form an important instrument to reach that goal, stimulating cross-organisation collaboration and knowledge sharing. They enable practitioners in a certain field to meet in real life and virtually, share knowledge and learn from each other, ultimately building a collective knowledge capital in the respective area of work. Against this background, the project continues to work within two strands: 1) To provide capacity building support for the establishment and management of communities of practice with particularly targeting community managers. So fare 20 CoPs have been established in the JRC and guidance has been developed and coaching sessions have been delivered to community managers. 2) Further develop and maintain Connected as the comprehensive and open-by-default collaboration and knowledge sharing platform at Commission level, that is key in the Commission's new working methods to enhance cross organisational collaboration, internal communication and staff engagement. Within the Commission, it will continue acting as the business owner of Connected, delivering on the promise of better	JRC.H.2	SG	JRC	CNECT DIGIT ECFIN FPI GROW HR JRC REFORM RTD	2021-01-01	2022-12-31	INS-RS	3014403	2	Communities of Practice capacity building package	Training material (Community PlayBook) and training course for managing communities of practice to design, steer and animate CoPs	2021-06-30	Training		N
																	3014404	1	Connected 2021 status report and outlook	This report provides an overview of the achievements of Connected based on statistics, business processes and an action plan to further improve the collaboration practices and the tool.	2022-02-28	Technical Reports		N
																	3038938	3	Connected 2022 status report and outlook	2022 Status report and outlook	2023-02-28	Technical Reports		N
																	3069915	4	Connected anlaysis report vis-a-vis O365	With the introduction of O365 in the Commission, this report will provide a factual assessment of the Connected features and functionalities together with a cost benefit analysis of Connected.	2021-03-31	Technical Reports		N
7. High Performance Modern Commision	7.1 Knowledge and data management	20550	KM-COLLAB	Knowledge Management and Collaboration	JRC.H.2	30387	KM-DEVELOP	Knowledge Management Development	The JRC 2030 strategy and the Communication on Data, Information and Knowledge Management (C(2016) 6626) have put Knowledge Management as the foundation of JRC establishing a dedicated Directorate in charge of the overall coordination and implementation of relevant initiatives to achieve agreed objectives aimed at increasing impact and uptake of JRC work in the policymaking process. Knowledge Centres are a European Commission initiative to improve the knowledge base in specific crosscutting policy areas. The initiative of Knowledge Centres was pioneered within the JRC 2030 Strategy and officially endorsed in the Communication on Data, Information and Knowledge Management (C(2016) 6626). One of the key challenges for better regulation is ensuring that scientific knowledge is available in the right format to support EU policymakers, and particularly Commission services, with amongst others impact assessments, policy and decision-making. This project concerns the development of methodologies, guidance and capacity building to support the implementation of the JRC KM mandate, support to the establishment/operation of knowledge centres and similar knowledge integration initiatives like observatories, on selected policy topics. It will focus on a strong underpinning of thematic coordination via knowledge mapping both on knowledge management and its actors within and outside the Commission. It will build on recent initiatives to refocus KM in the JRC based on the experience made in the last 4 years,	JRC.H.2	JRC	JRC	(blank)	2021-01-01	2022-12-31	INS-RS	3014659	1	Guidance for Knowledge Centres: Roundtable and synergies - Annual status report	To ensure Knowledge Centre mandate of delivering scientific knowledge in the right format to support EU policymakers, and particularly Commission services, with amongst others impact assessments, policy and decision-making is fullfilled with similar practices and cohesive approach, a coordinating function and roundtable was set up in 2019. This deliverable will report on necessary activities and initiatives undertaken and linked to managing the KCs roundtable on KCs, developing synergies, providing methodological support and guidance to newly created KCs and ensuring an harmonised development and promotion within the Commission.	2021-12-31	Technical Reports		N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3027363	2	Guidance for Knowledge Management and KM Framework - Development and Annual status report	After 4 years since the set up of the Knowledge Management layer at JRC and based on lessons learned and the outcome of the 2020 Knowledge Management/Knowledge Centres roundtable, there is a need to better develop, communicate and embed in the organisation KM principles, activities, products and best practices by developing targeted initiatives and guidance documents. This deliverable is two-fold: 1. It will include the development and roll out of a JRC KM Framework that brings benefits to JRC work through a more cohesive implementation and awareness building around Knowledge Management. 2. Additionally, it will further develop existing initiatives such as JRC Knowledge Hub and JRC People Finder to better address evolving needs and ensure their long-term relevance and usefulness for the organisation.	2022-01-31	Technical Reports	N
																	3069955	3	Methodologies and processes to inform JRC DG office on JRC policy-relevant knowledge	To ensure JRC DG office is regularly and timely informed about JRC policy-relevant knowledge so as to feed into discussion with Cabinets, DGs and and other key stakeholders, a new process of mapping political drivers and delivering intelligence and analytical input highlighting specific JRC strands of work needs to be developed within JRC. This deliverable will look at the process design, implementation and optimisation. It will also include the development of methodologies for efficient capturing and distribution of knowledge. Based on specific requests from DG office, it will include proposals for translating information into knowledge products suitable for delivering the key message at political level.	2021-10-29	Technical Reports	N
7. High Performance Modern Commision	7.1 Knowledge and data management	20680	OS&FDM	OPEN SCIENCE AND FAIR DATA MANAGEMENT	JRC.I.3	30483	BDAP	Big Data Analytics Platform	As the European Commission's science and knowledge service, the JRC supports EU policies with independent scientific evidence throughout the whole policy cycle. This means that JRC is the place of choice whenever scientific evidence needs to be derived by appropriate research and data analytics. The provision of scientific evidence and information requires the domain expertise covered by the different JRC Knowledge Management and Production units. While the JRC expertise is needed for transforming the data sources into policy relevant indicators using scientific methods (data- and/or hypothesis-driven) backed by the JRC Big Data Platform or other systems, the results of the analysis are made available to the policy DGs, external partners, and the citizens through a series of private (dedicated) or public web services suitable for dynamic reporting and visualisation. These services complement information delivered in the form of static reports and briefings. They are currently powered by the JRC Big Data Platform (JEODPP), other JRC systems, or sometimes public cloud solutions. In contrast to most other available JRC systems, the JRC Big Data Platform offers a versatile shared environment for the full data lifecycle: storage, processing, analysis, visualisation, dissemination, reuse, preservation, etc. Through an evolutionary path, the BDAP will gradually evolve to serve all current and future JRC activities related to geospatial data and any other data associated with a location (i.e., deepening dimension) while considering other applications fitting the big data paradigm (i.e., broadening dimension). This evolution has the advantage of positioning the platform in a well-	JRC.I.3	DEFIS	DEFIS JRC JRC	CNECT ENV ESTAT RTD	2021-01-01	2027-12-31	CON-AA CON-IA INS-RS	3053823	01	Platform for Big Data Analytics: final report	This final report provides a comprehensive description of the Big Data Analytics Platform along the following key chapters: - Context - Architecture - Data collections - Data services - Data science - Use-cases and users - Recommendations - Publications	2027-12-31	Technical systems	N
																	3054752	02	Further development and integration of Data Science Environments	The JEO-desk interactive data science environments will be integrated into the federated Science Mesh. This will facilitate collaborative research and enabling cross-federation sharing of computational tools, algorithms and resources. Users will be able to access remote execution environments to replay (and modify) analysis algorithms without a need to setup upfront accounts in the remote system. The data science environments will be extended by functional integration of interactive features such as collaborative notebook editing, interactive widgets exposed as dashboards. The interface to computational resources (such as BigData Spark, HPC, batch clusters) enables users to scale their prototype analysis algorithms to full scale datasets and generate derived products. Earth Observation use-cases for collaborative workflow development and interactive data analysis and visualisation will be defined and presented as demonstrator.	2022-12-12	Technical systems	N
																	3060347	03	Big Data Analytics Platform: expand the data offerings and services as well as the generation of insights and foresight	- Evolve the infrastructure layer and associated software layers with the latest technological developments. - Expansion of data offerings through appropriate interfaces and systematic download of data of interest to JRC activities and their partners and Dgs and beyond. This includes geospatial data, any other data associated with a location, as well as big data sources (in terms of volume, velocity, and/or variety). - Hosting of JRC Data Repository in collaboration with the Data for Policy project and CERN for their research data management system. - Development of data science services enabling the linking of data and thematic experts in view of exploiting the full potential of the JRC for generating advanced policy relevant information (indicators and insights) as well as foresight. - Expand the depth and breadth of the applications powered by the BDAP. Widen the user basis beyond JRC. - Contribution to the FAIR data principles applied to analysis workflows by publishing fully fledged Jypyter notebooks and dashboards suitable for policy officers, management, and citizens. Release of the geospatial data analysis library pyjeo under an open-source license. - Liaise with DIGIT in the spirit of the co-creation concept expressed in the EC Data Strategy.	2022-12-31	Technical systems	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
7. High Performance Modern Commission	7.1 Knowledge and data management	20680	OS&FDM	OPEN SCIENCE AND FAIR DATA MANAGEMENT	JRC.I.3	30484	D4P	Data for Policy	With the wealth of data available in the JRC and in the rest of the Commission, the potential for new discoveries, innovations and new correlations of data are immense. However, for this potential to be realised, and for the JRC to live up to expectations and play a significant role in policymaking in the Commission we have to ensure that we have the right data practices, policies and infrastructure in place. We should also be aware that the Commission, as an institution, has an obligation to make all of its publicly-funded research data available to the public (Commission decision on reuse of documents, 2011/833/EU). Hence a major drive instigated in the JRC in 2018 to correctly catalogue all of our data assets and put in place an appropriate governance mechanism and at the same time JRC committed to contribute to the implementation of the Corporate Data Strategy as well. Apart from ensuring that JRC is implementing its own Data Policy (first published in April 2015, a revised version published in 2019), the Data for Policy project will also ensure that what is being done internally is in line with the new corporate data governance and policies (published by the Secretariat-General in November). The main vision is that JRC becomes proficient in the full data lifecycle management and that staff has full support in terms of data management tools and infrastructure. Thus, the Data for Policy project will also research into new and novel tools concerning data management. At corporate level, the Data for Policy project	JRC.I.3	SG	JRC	DIGIT ESTAT HR JRC OP	2021-01-01	2027-12-31	INS-RS	3018491	20211	EC Data Catalogue	The EC data catalogue will give access to an inventory of key data assets held by DGs, services and executive agencies that are relevant for the Commission's decision-making processes and functioning. This will be done via a dedicated tool that enables discovery of and access to data, requesting access where necessary, for analysis purposes in support of policymaking or improving internal operations. The data catalogue will be an integral component of the data platform. It will improve transparency and cooperation through the sharing and re-use of data.	2021-12-16	Sci information systems and databases	N
																	3018874	20212	Data Advisory	The objective is to create a one-stop shop for data analytics and management matters, to support the implementation of initiatives across the Commission. The data advisory service will make sure that each request is dispatched to the right competence centre. It will draw on the expertise and advice of relevant competence centres and communities of practice, the central IP service and the data protection coordinators network. Data experts from various (mainly central) DGs, will be available to help with local data strategies, data management, data licensing and related legal aspects, data quality, data analytics, data architecture, data interoperability, data security, etc.	2021-12-16	Technical Reports	N
																	3018875	20213	JRC Data Catalogue Infrastructure	Maintenance and update of the JRC Data Catalogue infrastructure which also includes the JRC Data Inventory. The catalogue infrastructure supports the description and publication of metadata of the data resources of JRC directorates. It further provides metadata for the EU Open Data Portal and potentially for other initiatives of the Commission. The catalogue infrastructure supports the JRC Data Policy implementation. This deliverable also includes maintenance of the JRC Data Policy Implementation Guidelines.	2021-12-15	Sci information systems and databases	N
																	3018876	20214	JRC Data Repository	The JRC data repository is a place where scientific research data can be retained and accessed. Most scientific research projects consider their data as extremely valuable assets, therefore, the availability of a place to archive and curate the datasets used and created in these projects is of increasing concern. The JRC research data repository, will address the gap that exists at JRC, namely the need for a general purpose persistent storage/archival facility for research data. The research data repository should be available for both open data and closed/sensitive research data.	2021-12-16	Sci information systems and databases	N
																	3018877	20215	JRC Data Governance - Annual report	The JRC's Data Governance structures were set up in June 2018 and consists of a Data Steering Board (DSB) with directors represented and a Data Committee (DC) with a HoU representative per directorate. The chair of the DSB is Director of Dir. I, who reports directly to the DG. The chair of the DC is HoU I.3. On top of the formal governance, an informal Data Contact Points network has been setup with representatives from all JRC units. This network is intended for collecting needs and for sharing information and best practice related to data management activities. Apart from ensuring that JRC is implementing its own Data Policy, the JRC data governance will also ensure that what is being done internally is in line with the new corporate data governance and policies (published by the Secretariat-General in November). This deliverable includes the activities that are initiated as part of the JRC Data Governance.	2021-12-16	Technical Reports	N
																	3018878	20216	Paper	Research in the area of semantic analysis of text which will be documented in a conference paper.	2021-12-16	Journal contributions (Scopus)	N
																	3018906	20221	JRC Data Governance - Annual report	The JRC's Data Governance structures were set up in June 2018 and consists of a Data Steering Board (DSB) with directors represented and a Data Committee (DC) with a HoU representative per directorate. The chair of the DSB is Director of Dir. I, who reports directly to the DG. The chair of the DC is HoU I.3. On top of the formal governance, an informal Data Contact Points network has been setup with representatives from all JRC units. This network is intended for collecting needs and for sharing information and best practice related to data management activities. Apart from ensuring that JRC is implementing its own Data Policy, the JRC data governance will also ensure that what is being done internally is in line with the new corporate data governance and policies (published by the Secretariat-General in November). This deliverable includes the activities that are initiated as part of the JRC Data Governance.	2022-12-16	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3018907	20222	JRC Data Catalogue Infrastructure	Maintenance and update of the JRC Data Catalogue infrastructure which also includes the JRC Data Inventory. The catalogue infrastructure supports the description and publication of metadata of the data resources of JRC directorates. It further provides metadata for the EU Open Data Portal and potentially for other initiatives of the Commission. The catalogue infrastructure supports the JRC Data Policy implementation. This deliverable also includes maintenance of the JRC Data Policy Implementation Guidelines.	2022-12-16	Sci information systems and databases	N
7. High Performance Modern Commision	7.1 Knowledge and data management	20680	OS&FDM	OPEN SCIENCE AND FAIR DATA MANAGEMENT	JRC.I.3	30485	SCI - ACCESS	Open Science and Knowledge Repositories	Open Science is a key component of Horizon Europe. It allows scientists and the public at large to access free of charge data, publications, citizen science apps as such promoting open sharing and scientific scrutiny. The JRC as the Commission's in house science organisation produces scientific output and manages its JRC publications repository currently holding with 60000 JRC scientific outputs with a large subset of these open to the public. Moreover the JRC manages a scientific eLibrary that is integrated in the Commission library system. The JRC has established in 2014 an open access policy ensuring open access to JRC journal articles and reports that is coherent with Horizon 2020 open access principles and will evolve its policy in the context of Horizon Europe from 2021 onwards. As such the JRC contributes with capacity and hands on implementation experience to the Open Science strategy of the Commission. In addition to operating the PUBSy and eLibrary services the project will also optimise the exploitation of JRC's work programme outputs from the JRC publications repository (PUBSY) that stores a vast amount of JRC knowledge. As such it supports KM and science communication by developing a better segmentation of JRC publications to maximise internal and external communication purposes. It will also better exploit the vast knowledge embedded in JRC's publications and scientific articles by structured anticipatory and data mining processes resulting in policy relevant digests. For this purpose, strong synergies with the KM develop project and the	JRC.H.2	RTD	JRC	JRC OP SG	2021-01-01	2027-12-31	INS-RS	3014804	2	JRC open access policy	Updated JRC open access policy in line with the Horizon Europe principles	2021-02-28	Technical Reports	N
																	3014805	3	JRC open access 2021 annual review report	Annual report with statistics and outlook	2022-02-28	Technical Reports	N
																	3014806	1	PUBSY 2021 annual activity report and outlook	Annual report with statistics, achievements and strategic outlook	2022-01-31	Technical Reports	N
																	3031481	4	Access to e-Resources	Operational continued implementation of the policy for selection of JRC Library acquisitions. Includes the review of the cost effectiveness of service offer taking into account budget constraints	2021-06-30	Technical Reports	N
																	3034896	5	PUBSY 2022 annual activity report and outlook	Annual report 2022 with statistics, achievements and strategic outlook	2023-01-31	Technical Reports	N
																	3034897	6	JRC open access 2022 annual review report	Annual report 2022 with statistics and outlook	2023-02-28	Technical Reports	N
7. High Performance Modern Commision	7.1 Knowledge and data management	20680	OS&FDM	OPEN SCIENCE AND FAIR DATA MANAGEMENT	JRC.I.3	31300	IMPARA	IMpact assessment of PAndemics through big data analytics ReseArch	The IMPARA project contributes to the Exploratory Research (ER) Programme. The main goal of the ER project IMPARA is to provide scientific evidence on how to find that balance. Using multi-parametric models and machine learning techniques applied to multi-source data, new insights on the impacts of different mitigation measures will be obtained. By learning from these data, these new insights may lead to better strategies on mitigation measures and may allow for an assessment of their effectiveness. The complexity of this multi-variate problem can only be addressed by combining different relevant data sources whether geospatial, epidemiological, or economic. Geospatial information will help to better understand the geographic context. For instance, geographic information on the availability of medical healthcare services can help to map problem areas and insufficient of these services are within reach. A new source of geospatial data include mobility data that are be obtained from (smart)phones, which will reveal information on social behaviour in time and space.	JRC.I.3	SANTE	JRC JRC	(blank)	2021-04-01	2023-03-31	INS-ER INS-RS	3081702	ERPAT	Final report	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project. A mid-term technical report will be produced at the end of year 1.	2023-03-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
7. High Performance Modern Commision	7.2 Competences for better policy making and regulation	20682	C4BPM&R	COMPETENCES FOR BETTER POLICY MAKING AND REGULATION	JRC.I.3	30501	EU Policy Lab	Design for Policy	Design for policy is promoting a new empirical approach and a "design attitude" to find concrete solutions to policy problems. Design tools and methods are used and experimented to better connect policy-makers with those who are directly involved with the issue (citizens, businesses, government administration, etc.). Policies and tools are developed through short cycles based on rapid problem analysis, development of solutions, prototyping and testing. The engagement of stakeholders, including citizens, in the problem analysis as well as in the design of solutions is a key feature of this approach. This is a field where the Commission has some rather scattered experience and where a more systematic experimentation and evaluation could open up new avenues to bridge the gap. The JRC has built-up such a design capacity and networked with leading Design policy Labs in Europe and internationally, to explore best practices, potential partnerships and initiate a specific hub function towards this community. Cooperation with the "makers community" (e.g. FabLabs) allows also exploring the interplay between science, citizens and policy. The JRC offers ad-hoc co-design services for policy DGs to address some concrete and pressing problems. The projects also lead to the development of new tools and processes in the field development and management of communities, service design, stakeholders' engagement, amongst others.	JRC.I.2	SG	SANTE JRC	(blank)	2021-01-01	2027-12-31	CON-AA INS-RS	3032464	1	Design for Policy - Strategic Update	Stock taking on realisation of objectives as agreed in the strategy Clarification of the path for the future	2022-03-07	Science for Policy reports	N
																	3032505	2	Design for Policy - Strategy update	Strategic outlook. Lessons learnt. Update of the strategy for Design for Policy	2022-03-04	Science for Policy reports	N
																	3039519	3	Service specification of a Better Regulation (BR) Transparency and Coherence Service	Service specification of a Better Regulation (BR) Transparency and Coherence Service that assists DGs in improving the transparency, coherence and traceability of evidence used in EC policy making.	2021-12-31	Technical Reports	N
7. High Performance Modern Commision	7.2 Competences for better policy making and regulation	20682	C4BPM&R	COMPETENCES FOR BETTER POLICY MAKING AND REGULATION	JRC.I.3	30502	CC-FOR	Competence Centre on Foresight	Foresight has gained visibility in the von der Leyen Commission as Vice-President Maroš Šefčovič was given the mandate to steer the Commission's efforts ton strategic foresight recognising the need to strengthen evidence-based policymaking and the importance of long-term trends to understand those that need actions already in the present and what we need to know more on trends to be able to tackle them appropriately. Strategic foresight is crucial for transition-led policy-making in the current challenging global and domestic context. It is also crucial to identify areas in which policy, research and technological developments need to align to drive societal, economic and environmental progress and to reach targets that could led Europe towards climate and digital transitions respecting European values. Strategic foresight can contribute to better design Commission's initiatives and to develop future-oriented policies. The Political Guidelines require drawing on the indispensable and increasingly prominent use of strategic foresight in the European Union's policy cycle. In particular, the JRC is required to contribute to a Yearly Foresight report, under the responsibility of VP Šefčovič, which priority is to adapt and improve priority setting and better linkages across policies. For this to be effective, it is not only policy-making that needs to change and become more future-proof, but also foresight that needs to adapt in order to optimise its policy relevance. Strategic foresight will not only identify important mega-trends and explore alternative pathways, but also provide options on how and at which pace to implement the six headlines ambitions.	JRC.I.2	SG	AGRI CNECT JRC	AGRI CLIMA CNECT COMM DEFIS EAC ECFIN EEAS EMPL ENER ENV GROW HOME IDEA INTPA JUST MARE MOVE REFORM REGIO RTD SANTE TAXUD TRADE	2021-01-01	2027-12-31	CON-AA CON-AA INS-RS	3048724	2	Annual Foresight Report 2022	The Annual foresight report in in support to VP Sefcovic mandate. It contributes to the priority setting of the Commission Workprogramme. The topic for 2022 will be defined in 2021. The Annual Foresight report is the result of a foresight process involving experts and stakeholders from JRC, the Commission, other EU institutions, academia, international organisations, Member States, NGOs and civil society organisations.	2022-09-30	Science for Policy reports	N
																	3048725	3	Foresight report on a vision for rural areas	The report will provide the results of a foresight process to identify a vision for rural areas. The report will provide a description of the foresight methodologies applied and the description and results of the content development.	2021-03-31	Science for Policy reports	N
																	3048726	1	Annual Foresight Report 2021	The Annual foresight report in in support to VP Sefcovic mandate. It contributes to the priority setting of the Commission Workprogramme. The topic for 2021 could be strategic autonomy (to be confirmed). The Annual Foresight report is the result of a foresight process involving experts and stakeholders from JRC, the Commission, other EU institutions, academia, international organisations, Member States, NGOs and civil society organisations.	2021-09-30	Science for Policy reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
7. High Performance Modern Commision	7.2 Competences for better policy making and regulation	20682	C4BPM&R	COMPETENCES FOR BETTER POLICY MAKING AND REGULATION	JRC.I.3	30503	COIN	Competence Centre on Composite Indicators and Scoreboards	The project provides scientific and analytical support to the European Commission policy process and decision-making related to the monitoring of multidimensional and interrelated phenomena through the use of indicator frameworks, scoreboards and composite indicators. The Competence Centre on Composite Indicators and Scoreboards (COIN) helps to ensure that indicator frameworks (indices, scoreboards) are developed sensibly and used responsibly in the Commissions and worldwide. 'Sensible development' of an index implies a quality control process based on both conceptual and statistical considerations. 'Responsible use' is a call for care in drawing conclusions and recommendations that properly take into account the conceptual context in which indices and scoreboards were developed. The JRC has worked on composite indicators since 2002. It now has international recognition as a world reference centre of methodological expertise on composite indicators and scoreboards. The JRC is also the only organization worldwide that audits composite indicators and scoreboards upon request of their developers. The project aims at strengthening the JRC role, visibility and impact on the measurement and monitoring of multidimensional phenomena that feed into the EU policy formulation and legislation in all policy areas, with primary focus on social issues (including fairness, culture and creativity, multidimensional inequality, gender disparities, SDGs, social progress, and other).	JRC.I.1	SG	EMPL GROW GROW JUST REGIO RTD JRC	BUDG CNECT COLLÈGE COMM EAC ECFIN EEAS EMPL FPI GROW JRC JUST NEAR REFORM REGIO RTD TAXUD	2021-01-01	2027-12-31	CON-AA CON-AA CON-AA CON-AA CON-AA CON-AA INS-RS	3032224	01FAIR	Fairness CoP	The Fairness CoP regularly organizes workshops aimed at bringing together colleagues from the Commission and relevant research and international institutions working on fairness related issues. These workshops, widely disseminated through the Fairness CoP mailing list, involve colleagues from DGs EMPL, JUST, ECFIN, TAXUD, GROW, REGIO, EAC as well as from EPSC, Eurofound or international organizations such as the OECD, and WB. These workshops, constitute an appropriate environment to identify synergies and areas of collaboration, as well as to generate new knowledge for evidence-based policy, while capitalizing on the multidisciplinary expertise of its members and the JRC. Four online workshops are already scheduled for 2021.	2021-12-31	Training	N
																	3032660	02FAIR	Eurobarometer survey on Fairness	Growing disparities in multiple dimensions have contributed to a sense of unfairness, stocking anger and discontent, as observed today in many parts of the EU. The Special Eurobarometer (EB) commissioned by the JRC two years ago gave the unique opportunity to monitor fairness and inequality perceptions as well as dynastic effects in the transmission of socio-economic status across generations. Another Special EB on Fairness is scheduled for end of 2021/early 2022 in order to collect additional data on fairness. This will allow the JRC wants to remain a leading actor on the monitoring of fairness perceptions. The survey will also allow to capture how the Covid-19 has exacerbated the living condition divides and inequality perceptions. Based on these new data. A report (third fairness report) and policy briefs will be produced.	2022-12-31	Science for Policy reports	N
																	3035311	05FAIR	Contribution to transversal activities	The Fairness project will contribute to the flagship report on Middle class which is under the lead of Unit B1. The Fairness project will be also involved in the analysis of the Special Eurobarometer on Values and Morality that are under the lead of H1.	2022-11-20	Science for Policy reports	N
																	3036782	06FAIR	Changing gender inequalities after the COVID crisis	The COVID pandemic is likely to affect men and women differently mainly because of the persistent gender differences in the labour market as well as in their involvement in unpaid labour. With schools being closed down, childcare work as well as household duties now expand significantly. Given the prevailing cultural norms, women will take a disproportionate share of this burden, affecting even their employment and career prospects. All this can have far-reaching and long term effects on gender inequalities in Europe. After the crisis, we aim at continuing to monitor the evolvement of gender inequalities in Europe in the labour market and beyond. To this end, we will exploit microdata (both regular surveys such as EU-SILC and new ones collected during the crisis) and also review existing gender equality indices.	2022-02-01	Science for Policy reports	N
																	3050780	07FAIR	Insights from the link between Google searches and socio-economic indicators	Traditional surveys on socio-economic indicators are potentially costly and have some degrees of delay between data collection reporting. Reliable official statistics will instead most likely not be available until the third quarter of 2020. Previous studies have demonstrated that it is possible to predict the incidence of health-related periodical issues (e.g., the season flu) from relevant Google search queries and Wikipedia page view statistics. This JRC project aims at monitoring at regional level the incidence of queries related to socio-economic aspects (e.g. at risk of poverty rates, employment rates) and their association with some specific sets of words and Google search queries (e.g. requests for unemployment benefits or state-aids to self-employed), which are assumed being a proxy of citizens concern on the specific topic. Such a project could provide a first insight into the increase in the share of individuals who have been economically affected by the COVID-19 pandemic an	2021-12-08	Science for Policy reports	N
																	3061742	202201	Cultural and Creative Cities Monitor	Analysis and insights on Europe's cultural and creative richness in an extended sample of 190 cities in 30 countries through a set of 30 indicators. The Cultural and Creative Cities Monitor is accompanied by a revamped online tool and country fact sheets.The Monitor was a basis for the economic impact assessment underpinning the 2018 'New European Agenda for Culture' and is one of the actions included in the 'European Framework for Action on Cultural Heritage' as well as the 'Commission Report on the implementation, results and overall assessment of the European Year of Cultural Heritage 2018' to help ensure that the European Year of Cultural Heritage 2018 has a lasting impact through evidence and examples of success stories related to cultural promotion and heritage management in cities.	2021-12-15	Science for Policy reports	N

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																	3061919	202102	Cultural Gems	Further developments to the JRC designed open-source web app for European cities and citizens to share and engage with culture and creativity. Cultural gems covers almost 200 cities in Europe and more than 100,000 cultural places. It supports citizens' engagement with Europe's cultural heritage, thus ensuring the legacy of the European Year of Cultural Heritage 2018.	2021-12-15	Sci information systems and databases	N
																	3061920	202103	EU - Asia Sustainable Connectivity	Analysis and insights on the EU -Asia Sustainable Connectivity through the further development of the JRC tool, the ASEM Sustainable Connectivity Portal. The data portal and the accompanying report is JRC's direct response to the EU's Strategy on "Connecting Europe and Asia - Building blocks for an EU Strategy", which calls for "new methods to assess the levels of connectivity, for instance connectivity indices, will help identify gaps and opportunities".	2021-12-15	Science for Policy reports	N
																	3061921	202104	Monitoring multidimensional Inequalities in Europe	This activity will deliver a novel and comprehensive framework of indicators for the analysis of inequalities within and across EU Member States and regions. Inequalities pose a threat to social cohesion and progress, and span multiple life domains such as health, education, material well-being, working life, social and family life, recreation and culture, and environmental conditions. The research carried out in this project will contribute to developing new analytical tools to measure and study a range of different aspects of inequality, from unacceptable disparities in life outcomes to inequalities of opportunity and obstacles to social mobility. In this light, the EU Multidimensional Inequality Framework will broaden and deepen the scope of current frameworks monitoring progress towards a more inclusive and cohesive Europe, such as the Social Scoreboard for the European Pillar of Social Rights.	2021-06-30	Science for Policy reports	N
																	3061922	202105	Monitoring Gender Equality and Quality of Life In the European Union	Analysis and insights on gender equality and quality of life issues at national and regional level in the EU in the context of the AA with DG REGIO and the monitoring progress along the priorities of the EC Gender Equality Strategy (with DG JUST).	2021-12-15	Science for Policy reports	N
																	3061923	202106	Monitoring SMEs performance along the Small Business Act Principles	Data analysis and development of the indicator framework (9 dimensions; 80 indicators) underpinning the monitoring of the Small Business Act for Europe, in collaboration with DG GROW.	2021-12-15	Technical Reports	N
																	3061924	202107	Studies, Indices and Dashboards on Research and Innovation	A series of studies, indices and scoreboards related to: (1) the links between Mergers and Acquisitions of companies and R&D spending, (2) the links between Artificial intelligence and productivity, (3) the Adjusted Research Excellence Indicator framework (adopted as the headline indicator measuring ERA Roadmap Priority 1), (4) Tracking Transition Performance and Focusing the European Semester on the SDGs following a new dashboard on People-Planet-Prosperity. All activities are conducted in collaboration with DG RTD.	2021-12-15	Technical Reports	N
																	3061925	202108	Scoreboards Explorer	A new inventory and online visualisation tool of over 400 indices and scoreboards with relevance to EU policies structured across the six EC policy priority areas and 17 SDGs. The interactive platform allows users to explore country profiles by combining dimensions from existing indices. The tool will be highly valuable in supporting the Better Regulation Agenda, the European Semester process and the monitoring of EU progress along the six EC priorities. Step-by-Step roll-out, first prototype to be launched November 2021 and continuous development throughout 2021-2022.	2021-12-15	Sci information systems and databases	N
																	3061926	202109	Supporting policy DGs on the development of new/revision of existing indices, scoreboards, and indicators frameworks	A series of other collaborations in support to policy DGs on the development of new/revision of existing indices, scoreboards, and indicators frameworks	2021-12-15	Technical Reports	N
																	3061927	202110	Statistical audits of international indices	A series of statistical audits, in support to international organisations and world-class universities on the revision of indicator frameworks that have high EU policy relevance	2021-12-15	Technical Reports	N
																	3061928	202112	Tools and guidelines on composite indicators and scoreboards	A series of outputs, including do-it-yourself tools, guidelines, training material, key take-away messages from the organisation of workshops and Communities of Practice on the quality control framework for developing and visualizing composite indicators and scoreboards	2021-12-15	Training	N
																	3061929	202115	Scientific advances in the field of composite indicators, scoreboards, and multi-criteria analysis	This deliverable includes research output produced by the Competence Centre on Composite Indicators and Scoreboards in carrying out its mission to develop scientifically sound composite indicators and scoreboards and innovate in the theory and application of applied statistics methods for performance monitoring and analysing inter linkages and trade-offs between social, environmental and economic issues.	2021-12-15	Journal contributions (Scopus)	N
																	3066194	03FAIR	Policy Brief Series on Fairness	A series of Science for Policy Briefs on Fairness, was launched in autumn 2018. These Policy Briefs (20 up until now) are available on the Fairness Science Hub (https://ec.europa.eu/jrc/en/research/crosscutting-activities/fairness). In order to ensure the quality of the Policy Briefs (PB), quality insurance mechanisms have been put in place. These Policy Briefs have been widely distributed through the Fairness CoP. CC-COIN will continue to produce Policy briefs on social issues based on recent research findings within the unit.	2022-12-15	Science for Policy Briefs	N

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																	3066213	04FAIR	Trajectories of educational inequalities following the pandemic of Covid-19	The Covid-19 related school closures lead to children learning at home thereby becoming more dependent on existing home resources and parental support. Parents with lower socio-economic background are likely to have more limited resources and skills to support their children. Indeed, existing literature shows that more instruction time at school in contrast to home learning decreases socio-economic inequality in achievement. The deliverable aims at exploiting existing and future data to explore how social gaps in students' achievements change during the corona crisis. Existing data such as PIRLS 2016 and TIMSS 2019) and data to be collected in 2021 as well as the JRC online survey on Covid-19 will be employed for the quantitative analysis	2021-12-31	Science for Policy reports	N
																	3100829	09FAIR	Cross-National Achievement Surveys for Monitoring Educational Outcomes: Policies, Practices, and Political Reforms within the European Union	Cross-national achievement surveys such as the OECD's Programme for International Student Assessment (PISA) and the Programme for the International Assessment of Adult Competencies (PIAAC) have been widely used to monitor educational achievement, examine its determinants and derive education policy reform across the European Union and over time. This project examines the range and salience of different international achievement surveys for policy design and reform within European countries: Germany, France, Italy, Netherlands, Sweden, Finland, Ireland, Poland, Estonia, and Slovakia. Collectively, the national profiles provide a critical analysis of the use (and misuses) of cross-national achievement surveys for monitoring educational outcomes and policy formation. The project also discusses the trends and trajectories of education reform associated with cross-national achievement surveys and offers insights into the future of transnational governance within the European Union.	2021-12-31	Books	N
																	3100858	10FAIR	Fair climate policies: possible options and perceptions	Action on climate change is costly and a part of these costs will be shifted to consumers. However, increasing prices of energy, food, housing has regressive effects thereby burdening low income households more. Given growing inequalities due to the Covid-19 pandemic any kind of energy demand reduction policies could be considered as unfair and might lead to unrest (as i.e. seen with the yellow vests movement in France). This projects investigates first how we can explain the relatively high negative European perceptions on energy demand reduction policies. Second, it examines fair options for climate policy design by modelling the impact of different climate policies on income distributions.	2021-12-31	Science for Policy reports	N
																	3101610	202101	EU citizens' online interest on Commission Priorities	Using web searches performed on the Google search engine, the JRC is going to develop 6 indicator frameworks, one for each of the Commission's priorities for 2019-2024, with a view to provide real-time insights on EU citizens' concerns and interest on: (1) the European Green Deal, (2) A Europe fit for the digital age, (3) An economy that works for people, (4) A stronger Europe in the world, (5) Promoting our European way of life, and (6) A new push for European democracy. A series of six reports will be produced together with online visualization tools for the indicators frameworks and the data behind them.	2021-12-15	Science for Policy reports	N
																	3101848	202113	A monitoring framework for the Gender Equality Strategy	The JRC will develop an indicator framework, ad-hoc for the Commission's Gender Equality Strategy, which will be accompanied by an online visualization tool.	2021-12-15	Sci information systems and databases	N
																	3101849	08FAIR	Monitoring Loneliness across EU countries	Scientific expertise as well as methodological and econometric support to DG EMPL for the implementation of the Pilot project on Loneliness. The work will involve (i) statistical analysis of existing cross-national surveys, (ii) collecting new data to better apprehend the drivers as well as the health and societal consequences of loneliness, (iii) literature reviews on the risk factors associated with growing loneliness as well as on the effectiveness of interventions to prevent and cope loneliness and (iv) the implementation of a user-friendly web-platform to monitor loneliness across countries	2022-12-31	Science for Policy reports	N
																	3101850	202114	What Works at the intersection of Monitoring, Evaluation and Behavioral insights	The What Works activity contributes to the creation, sharing and use of high quality evidence for decision-making in the Commission. It does so by underlining the benefits that can be gained when working at the continuum of monitoring and evaluation studies – benchmarking performance and causal analysis– complemented by a strong component of behavioural insights. The What Works approach revolves around seven areas of activities: (1) reviewing research findings; (2) conducting original research where existing evidence is inconclusive or incomplete; (3) producing (causal) evidence; (4) maximising impact of communication material; (5) developing online visualisation tools that provide access to what is known about the evidence base ; (6) designing serious games for learning purposes; and (7) fostering the use of administrative or big data – and of partnerships with the private and the public sector - for evidence on what works.	2021-12-31	Technical Reports	N
																	3104554	202111	Data Science for Economics and Finance	A book covering the use of data science, including advanced machine learning, big data analytics, Semantic Web technologies, natural language processing, social media analysis, time series analysis, among others, for applications in economics and finance. The book will include successful applications of advanced data science solutions used to extract new knowledge from data in order to improve economic forecasting models.	2021-12-31	Books	N

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7. High Performance Modern Commission	7.2 Competences for better policy making and regulation	20682	C4BPM&R	COMPETENCES FOR BETTER POLICY MAKING AND REGULATION	JRC.I.3	30504	CC-ME	Competence Centre on Microeconomic Evaluation	The core activity of the Competence Centre on Microeconomic Evaluation (CC-ME) is to support the evaluation function in the Commission. This consists in providing methodological support and analysis to policy Directorates-General (DG) and Member States (MS) for establishing causal links between policy interventions and socio-economic and environmental outcomes. Appropriate empirical econometric analysis using micro data is applied. CC-ME serves several DGs and works to spread the culture of evidence-informed policy in the EC. This activity is indeed made particularly urgent in Europe given the existing budgetary constraints of MS, the need to ensure legitimacy and transparency for policy interventions, the focus on quantification of administrative costs and benefits (One-in-one-out), and the need to learn from experience. Evidence-informed policy-making is associated with robust understanding of what works and what does not and for whom. One of the main policy target for CC-ME is helping the gradual adoption of appropriate and effective evaluation frameworks in the areas of European Structural Investment Funds, for the European Semester and for all regulatory measures within the Better Regulation agenda. Over the years, CC-ME has developed structural collaborations with central Commission Services to support the Better Regulation agenda (The Regulatory Scrutiny Board, Sec Gen), with international organisations (OECD) for better policy making, with National experts in causal evaluation methods, with Managing Authorities in MS for access to administrative data for impact evaluation.	JRC.I.1	SG	COMP EMPL EMPL EMPL EMPL GROW INTPA CNECT	AGRI CNECT COMP ECFIN EMPL ENV GROW INTPA JRC JUST RTD	2021-01-01	2027-12-31	CON-AA CON-AA CON-AA CON-AA CON-AA CON-AA CON-AA CON-IA INS-RS	3005744	A1AA35682	Collaboration with DG INTPA (E4DEV)	The deliverable will provide methodological support to DG INTPA for the counterfactual evaluation of selected projects under the European Union Emergency Trust Fund for Africa (EUTF for Africa).	2022-02-28	Technical Reports	N
																	3051998	A3AA35824	Collaboration with DG EMPL.G.4 (CRIE VIII)	Collaboration with DG EMPL.G.4 for the support of Managing Authorities of the European Social Fund + for counterfactual impact evaluations. The activity involves organisation of ESF evaluation community of practice (CoP), production of guidance documents and other support services.	2021-12-31	Technical Reports	N
																	3060072	A2AA35823	Collaboration with DG COMP (EVALSA II)	This collaboration includes methodologic support for DG COMP - state aid, quality assurance of counterfactual impact evaluations performed by Member States under the block exemption regulation for state aid and other support services	2022-12-31	Technical Reports	N
																	3060073	A5AA35830	Collaboration with DG CNECT (SURR III)	This collaboration includes the methodological support to DG CNECT for the ex ante impact assessment, interim and ex post evaluation of the "Roam like at home" initiative, among other support services.	2022-12-31	Technical Reports	N
																	3060130	B1	Team-up with DG AGRI	This team-up support activity includes the support to DG AGRI on three evaluations for the Common Agricultural Policy (territorial development, local denominations, knowledge exchange).	2022-12-31	Technical Reports	N
																	3060131	B2	Support to evaluation and Team-up activities with other DGs	This deliverable includes other Team-up activities and support to evaluations for other DGs (e.g. DG RTD, ENV, ECFIN, SECGEN), comprising support to the monitoring and evaluation of the European Semester.	2022-12-31	Technical Reports	N
																	3060132	B3	Collaboration with OECD and other international organizations	This deliverable foresees the collaboration with OECD for the evaluation of Active Labour Market Policies using administrative records, in collaboration with DG EMPL.A.4, as well as other collaborations with international organizations.	2022-12-31	Technical Reports	N
																	3060133	B4	Support to the Regulatory Scrutiny Board on evaluation	This deliverable includes (a) providing comments on all upstream meetings of the RSB with policy DGs on impact assessments and evaluations for data plans and evaluation plans; (b) follow-up actions with policy DGs to provide methodological support.	2022-12-31	Technical Reports	N
																	3060648	B5	Methodological support	This deliverable includes methodological support provided to all policy DGs in support of the outsourcing of evaluation to contractors, including guidance on the terms of references, comments on interim and final reports.	2022-12-31	Technical Reports	N
																	3060649	B6	Support to JRC management and collaborations with other units	This deliverable includes support to the JRC management and collaboration activities with other units in the JRC on analysis and causal evaluation in various fields, including the ones of Energy and Climate change and the "what works" deliverable at project portfolio level.	2022-12-31	Technical Reports	N
																	3060752	B7	Trainings (in person and via web) on evaluation methods and applications - Communities of practice on Counterfactual Impact Evaluation	This deliverable contains trainings (in person and online) on evaluation methods and applications as well as Communities of Practice on Counterfactual Impact Evaluation.	2022-12-31	Training	N
																	3060753	B8	Workshops and international conferences on counterfactual impact evaluation	This deliverable includes the organisation of workshops and international conferences on counterfactual impact evaluation, such as "Counterfactual Methods for Policy Impact Evaluation" (COMPIE) and the "Health Econometrics Workshop" (HEW)	2022-12-31	Technical Reports	N
																	3060754	B9	Research output of the Competence Centre on Microeconomic Evaluation	This deliverable includes research output produced by the Competence Centre on Microeconomic Evaluation in carrying out its mission to perform exemplary impact evaluation and innovate in the theory and application of econometric causal methods for evaluation.	2022-12-31	Journal contributions (Scopus)	N
																	3069029	B10	Econometric analysis and forecasting related to the COVID-19 epidemic	This deliverable includes economic, econometric and quantitative analyses on the intersection of the pandemic and the economy. In particular, it combines studies and contributions related to the political and economic response and strategy adopted by Member States, such as the effects of state rescue packages, and the effect of the COVID-19 on demographics, environment, and education outcomes, as well as its impact on epidemiological and health related measures.	2022-12-31	Journal contributions (Scopus)	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
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																	3069030	A4AA35874	Collaboration with DG EMPL.A.4 (ESDE-REGDAT)	Collaboration with DG EMPL.A.4 to provide scientific expertise and methodological and econometric support to DG EMPL for the 2021 edition of the Employment and Social Developments in Europe (ESDE) annual review and for the preparation, design and conduct of impact evaluations using regional statistics and administrative data, with a focus on the geography of labour market performance and social outcomes and the socio-economic impacts of the COVID-19 pandemic	2021-12-31	Technical Reports	N
																	3069031	A8AA3582E	Collaboration with DG EMPL.G.4 (CRIE IX)	Collaboration with DG EMPL.G.4 for the support of Managing Authorities of the European Social Fund + for counterfactual impact evaluations. The activity involves organisation of ESF evaluation community of practice (CoP), production of guidance documents and other support services.	2022-12-31	Technical Reports	N
																	3069032	A7AA3587E	Collaboration with DG EMPL.A.4 (READIE)	Collaboration with DG EMPL.A.4 on "Mitigation, exit and recovery from Covid-19: Evaluating the effectiveness and impacts of labour market and social policy measures using (sub)national administrative data	2022-12-31	Technical Reports	N
																	3100123	A6AA36002	Collaboration with DG GROW (GROW – B2B)	Collaboration with DG GROW to assess the impacts on firms' outcomes of the business-to-business provisions of the Late Payment Directive.	2022-12-31	Technical Reports	N
7. High Performance Modern Commision	7.2 Competences for better policy making and regulation	20682	C4BPM&R	COMPETENCES FOR BETTER POLICY MAKING AND REGULATION	JRC.I.3	30505	CC-MOD	Competence Centre on Modelling	The Competence Centre on Modelling, CC-MOD, promotes a responsible use of models in EU policy making, by increasing the transparency, consistency and quality of model use, and by improving the efficiency and effectiveness of modelling resources. CC-MOD has been established as part of the rolling action plan of SWD(2016) 333 final on Data, Information, and Knowledge Management at the European Commission, and directly contributes to the Better Regulation policy and the Inter-Institutional Agreement on Better Law-making. CC-MOD is not competing with existing modelling activities in the EC, but focuses on horizontal aspects of modelling and model integration. Examples of CC-MOD activities are: the Commission-wide Modelling Inventory & Knowledge Management system, known as MIDAS; Transparency and coherence in science for policy; Peer-reviews and sensitivity analysis of models; and Social Multi-Criteria Evaluation of Policy Options. The Competence Centre also manages the Community of practice on Modelling, the EC-wide network of researchers and policymakers involved in model development and use. The CoP brings together modellers and policymakers to: 1) promote a responsible, transparent and coherent use of simulation models, underpinning the evidence base for EU policies; 2) facilitate collaboration and dialogue both between the modelling teams and with policymakers. The CoP also acts as a Think Tank for modelling related issues. The Competence Centre activity also provides the secretariat to the Inter-Service Group on Modelling. By teaming up with other Competence Centres, CC-MOD provides support to policy DGs in	JRC.I.2	SG	(blank)	AGRI CLIMA CNECT COMP DIGIT ECFIN ECHO EMPL ENER ENV ESTAT FISMA GROW INTPA JRC JUST MARE MOVE OP RTD SANTE TAXUD TRADE	2021-01-01	2027-12-31	INS-RS	3038939	202102	Modelling inventory and knowledge management system (MIDAS)	The Modelling Inventory and Knowledge Management System (MIDAS) is managed by the European Commission. It describes all models used by the EC to support the policy cycle, with a particular focus on the support to Impact Assessments. Information on models supporting impact assessments are accessible to the European Parliament and Council, and to the general public in the context of the CC-MOD support to Better Regulation. The activity includes the coordination of information about the models in use within the DGs, and its quality assurance. In 2021 the MIDAS team will continue to support the DGs to use MIDAS to transparently document their modelling activities. The team will design and implement workflows and connections to other existing information systems of the Commission for a regulated but smooth information flow. The evolution of the system will continue towards increased transparency and open science for better regulation and knowledge management.	2021-12-20	Technical systems	N
																	3038940	202103	Transparency and coherence in science for policy	CC-MOD seeks to advance the further development of a consistent approach towards transparency for the European Commission with a view to elucidate the structure and the causal mechanisms which make up a model, and the data and information flows within the model. CC-MOD supports the improvement of the quality and consistency of baseline scenarios used for policy modelling at the Commission. In close collaboration with modelling teams and relevant policy DGs, this activity includes mapping and comparing currently used baseline scenarios. Based on these insights, a number of recommendations will be put forward to facilitate the documentation of baseline assumptions, increasing transparency and improving the quantification of baseline assumptions in EU impact assessments. The latter also includes efforts to further integrate foresight methodologies and baseline development.	2021-12-20	Technical Reports	N
																	3038941	202104	Sensitivity analysis of models	Uncertainty and sensitivity analysis is an essential ingredient of modelling and is increasingly used in any field. In policy-making and assessment it evaluates how model-based inferences (and subsequently policy decisions) are impacted by different sources of uncertainty and acknowledge the main ones. This deliverable includes support to EC/JRC modellers, development of dedicated tools, technical reports, scientific publications, the organization of internal and external training courses, and an active collaboration with the international scientific community.	2021-12-20	Technical Reports	N
																	3038942	202105	Peer-review of models	The model reviews are done by external experts with involvement of the Commission staff. The review of models is coordinated with the Inter-Service Group on Modelling and the modelling teams, and follows the guidelines endorsed by the Inter-Service Group on Modelling.	2021-12-20	Technical Reports	N
																	3038943	202106	Social Multi-Criteria Evaluation for policy options	Social-Multi-Criteria Evaluation (SMCE) is an important branch of Operational Research; it builds on formal modelling techniques to support policy-making. Its basic methodological foundation is incommensurability, i.e. the notion that in comparing options, a plurality of technical dimensions and social perspectives have to be integrated in a coherent and transparent framework. SMCE allows the capture of distributional impacts (e.g. in terms of stakeholder types or EU regions/countries) and trade-offs between dimensions (such as between some economic, social or environmental impacts). A computer model specifically designed to support EC ex-ante impact assessment will be developed, tested and made available to all DGs. Practical examples, guidelines and training courses will be delivered too. Scientific publications and technical reports will be also produced. International scientific collaborations will be further developed.	2021-12-20	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3038944	202101	Community of Practice on Modelling and the Inter-Service Group on Modelling	Starting from the Health Check Criteria and Guidelines for COVID-19 modelling, and the wider context of evidence-informed policymaking and Open Science as discussed on Commission and International levels, the Community of Practice (CoP) will start a structured discussion on modelling requirements and best practices. The CoP will further facilitate collaboration between the modelling teams as well as regular dialogue with policy makers, and will help shaping the key elements of a shared vision and strategy on modelling. The CoP will facilitate the sharing of information on ongoing and planned modelling activities in view of maximizing synergies, promoting coherence and coordination of priorities and needs of model use for policy. In addition, the second edition of the EU Conference on Modelling for Policy support will be organised. The CoP will also act as a facilitator for the organization of working groups, workshops, seminars and trainings on topics of interest.	2021-12-20	Technical Reports	N
																	3061863	202107	Ad-hoc support	As a Competence Centre, an important part of the work concerns the ad-hoc support to policy Directorates General, to the Secretariat General, to the Regulatory Scrutiny Board, and to the policy DGs. This deliverable captures and summarises this ad-hoc support.	2021-12-20	Technical Reports	N
																	3061864	202201	Community of Practice on Modelling and the Inter-Service Group on Modelling	The Community of Practice will promote the exchange of information and best practices, and facilitate collaboration between the modelling teams as well as regular dialogue with policy makers. The 2022 activities of the CoP will include the finalisation facilitation of a shared vision on modelling. The CoP will continue facilitating the sharing of information on ongoing and planned modelling activities in view of maximizing synergies, promoting coherence and coordination of priorities and needs of model use for policy. In addition, the annual gathering of the Community of Practice will be organised. The CoP will also act as a facilitator for the organization of working groups, workshops, seminars and trainings on topics of interest.	2022-12-20	Technical Reports	N
																	3061865	202202	Corporate modelling inventory and knowledge management system (MIDAS)	The Modelling Inventory and Knowledge Management System (MIDAS) is managed by the European Commission. It describes all models used by the EC to support the policy cycle, with a particular focus on the support to Impact Assessments. Information on models supporting impact assessments are offered to the European Parliament and Council, and the public in the context of the CC-MOD support to Better Regulation. This includes the coordination of information about the models in use within the DGs, its Quality Assurance, and information provided by the operational CC-MOD. In 2022 the MIDAS team will continue to support the DGs to use MIDAS to transparently document their modelling activities. The team will implement workflows and connections to other existing information systems of the Commission for a regulated but smooth information flow. The evolution of the system will continue towards increased transparency and open science for better regulation and knowledge management.	2022-12-20	Technical Reports	N
																	3061866	202203	Transparency and coherence in science for policy	CC-MOD seeks to advance the further development of a consistent approach towards transparency for the European Commission with a view to elucidate the structure and the causal mechanisms which make up a model, and the data and information flows within the model. CC-MOD supports the improvement of the quality and consistency of baseline scenarios used for policy modelling at the Commission. In close collaboration with modelling teams and relevant policy DGs, this activity follows up on the recommendations put forward in 2021.	2022-12-20	Technical Reports	N
																	3061867	202204	Sensitivity analysis of models	Uncertainty and sensitivity analysis is an essential ingredient of modelling and is increasingly used in any field. In policy-making and assessment it evaluates how model-based inferences (and subsequently policy decisions) are impacted by different sources of uncertainty and acknowledge the main ones. This deliverable includes support to EC/JRC modellers, development of dedicated tools, technical reports, scientific publications, the organization of internal and external training courses, and an active collaboration with the international scientific community.	2022-12-20	Technical Reports	N
																	3061868	202205	Peer-review of models	The model reviews are done by external experts with involvement of the Commission staff. The review of models is coordinated with the Inter-Service Group on Modelling and the modelling teams, and follows the guidelines endorsed by the Inter-Service Group on Modelling.	2022-12-20	Technical Reports	N
																	3061869	202206	Social Multi-Criteria Evaluation for policy options	Uncertainty and sensitivity analysis is an essential ingredient of modelling and is increasingly used in any field. In policy-making and assessment it evaluates how model-based inferences (and subsequently policy decisions) are impacted by different sources of uncertainty and acknowledge the main ones. This deliverable includes support to EC/JRC modellers, development of dedicated tools, technical reports, scientific publications, the organization of internal and external training courses, and an active collaboration with the international scientific community.	2022-12-20	Technical Reports	N
																	3061889	202207	Ad-hoc support	As a Competence Centre, an important part of the work concerns the ad-hoc support to policy Directorates General, to the Secretariat General, to the Regulatory Scrutiny Board, and to the policy DGs. This deliverable captures and summarises this ad-hoc support.	2022-12-20	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3065874	COSI2021	Annual report on Complex Systems Research	The report will focus on the activities performed on : - managing the Community of Practice on Complexity (CoPoC), and its Connected space; - report on the coordination of the JRC experience on Complex Systems Research; - mapping JRC projects with a complexity dimension according to the following dimensions: megatrends, application areas, complex systems dynamics - report of lecture series on complexity	2021-12-31	Technical Reports	N
7. High Performance Modern Commision	7.2 Competences for better policy making and regulation	20682	C4BPM&R	COMPETENCES FOR BETTER POLICY MAKING AND REGULATION	JRC.I.3	30506	CC-BI	Competence Centre on Behavioural Insights	The application of behavioural sciences to policy is in high demand worldwide, and is in line with the strategic priorities of the JRC, i.e. "support other DGs wishing to use new approaches to policy making, for example, drawing on behavioural sciences" (JRC Strategy 2030, p. 4). The Competence Centre on Behavioural Insights (CC-BI) will promote and support the application of behavioural insights to EU policy: it will (a) directly support DGs in the incorporation of behavioural insights to their policy-making; (b) co-ordinate with Member States to run joint studies and work towards common approaches in applying behavioural insights at different levels of governance (e.g. regional, city); (c) strengthen the EC's capacity in this field through a series of training activities for Commission staff and by communicating the benefits of a behavioural approach to different DGs, (d) conduct underpinning and exploratory research that could in time inform EU policymaking and (e) build, promote and facilitate a Community of Practice in Behavioural Insights that includes a network of behavioural champions in each policy DGs and external experts.	JRC.I.2	SG	COMM ENER JUST JUST JUST SANTE SANTE JRC	COMM ENER JRC JUST SANTE	2021-01-01	2027-12-31	CON-AA CON-AA CON-AA CON-AA CON-AA CON-AA CON-AA INS-RS	3015940	021AA3566	Final report on applying behavioural insights to Vaccination	The final report will present the findings of the experimental work on vaccination hesitancy, including the results of the online experiment and of the planned field experiment.	2021-12-15	Technical Reports	N
																	3061845	ID2021AA3	Report on Behavioural Insights Applied to Consumer and Gender policy	The report will give account of the work conducted on consumer and gender policy, on behalf of DG JUST.	2021-12-15	Technical Reports	N
																	3061855	30506Fairne	Fairness: a behavioural perspective	The scientific publication should give account of the original experimental work on fairness.	2021-06-30	Journal contributions (Scopus)	N
																	3061856	ID30506Tra	Training on Behavioural Insights	We will provide a new version of the old training module on behavioural insights applied to policy. The training should be accompanied by its own syllabus, slides and primer.	2021-11-30	Training	N
																	3066222	2021KC	Literature Review: A behavioural perspective on cancer	Human behavior is central to the etiology and management of cancer outcomes. As a result, behavioral insights may play a central role for targeted intervention. This review will give account of the past research on the impact of psychosocial experiences (e.g., stress and health behaviors including tobacco use, sun exposure, poor diet, and a sedentary lifestyle), as well as of the preventive role of cancer screening and other health services. This work is also linked to the on-going work on vaccination, for the obvious links (e.g., between the HPV vaccine and cervical cancer).	2021-09-30	Technical Reports	N
																	3104093	30506AAF	Final Report on the impact of FoP systems, and on Country of Origin information	This is a follow-up of our 2018 AA on Front-of-Package labelling. We will updating the literature review informing future SANTE policy in this area. We will also enrich it with relevant information on the impact of Country of 0rigin information.	2021-09-30	Training	N
																	3104094	30506AAF	Final Report on the use and impact of Digital food information	This is a follow-up of our 2018 AA on Front-of-Package labelling. We will be conducting a literature review on the use and impact of digital information about food, reviewing the evidence across EU Countries and outside EU..	2022-06-30	Training	N
																	3104095	ID2021AA3	Final Report on Behavioural Insights Applied to Consumer and Gender policy	The report will give account of the work conducted on consumer and gender policy, on behalf of DG JUST, in the context of the AA35836.	2021-06-30	Technical Reports	N
7. High Performance Modern Commision	7.2 Competences for better policy making and regulation	20682	C4BPM&R	COMPETENCES FOR BETTER POLICY MAKING AND REGULATION	JRC.I.3	30507	TMA-CC	Competence Centre on Text Mining and Analysis	Accurate, targeted, and timely information is needed by EU institutions at almost every stage of the decision making process, and yet much of the information needed is embedded in large amounts of textual data e.g. in traditional or social media, or in large public or proprietary document sets. The sheer volume of data makes manual information extraction impractical. Text mining and analysis (TMA) tools are needed to manage large volumes of text quickly in order to provide the right information in the proper format for the decision making process, in a variety of contexts. To meet these needs, the JRC set up a Text Mining and Analysis Competence Centre (TMA-CC), extending existing JRC work on text mining. This provides a focal point for TMA across the Commission; drives forward a research agenda to meet the tomorrow's challenges; animates a Community of Practice, promoting collaboration and sharing of best practice; provides consultancy and support; and provides leading edge TMA systems in support of services across the EU institutions and beyond. The JRC Europe Media Monitor is a strategic, well-established system providing internet media monitoring and analysis tools, through a multi-lingual data harvesting and analysis platform that has become an asset of the Commission strengthening its strategic autonomy in respect of information access. EMM is an unconventional data source based on open source news and publications, which provides timely relevant information in support of EU policy. To further extend the utility of EMM data, a new system is being created:	JRC.I.3	SG	COMM COMM COMM CONS CONS CONS ECFIN ECHO ECHO ECJ ECJ EEAS EEAS EP EP EP EP EP HOME HOME HOME INTPA NEAR NEAR RTD DIGIT JRC	COMM DIGIT ECFIN ECHO EEAS HOME HR INTPA JRC NEAR RTD	2021-01-01	2027-12-31	CON-AA CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW	3053391	EMMMAC	Media Analysis Capability	Applied research to create, maintain and operate a new data platform integrating resources derived from the retrieval and automated analysis of textual documents from media outlets and open source sites over the years. The core component of MAC will be the EMM archive, currently fragmented, and its daily updates (see EMM deliverable), an index of about two billions news articles together with the metadata extracted by means of text-mining techniques. MAC will enhance JRC analytical capacity and could serve a wide community of analysts inside the Commission. Perform computational linguistic research to develop new analytical products in support of policy. Develop new tools, including visualisation techniques to disseminate high-level information analysis. MAC will enable several kind of analytics from statistics through network analysis, mapping, time series and trend analysis, indicators for early warning and week signals, especially when official data are not yet available.	2027-12-31	Technical systems	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3053392	IMCOREGE	Text Mining Media Monitoring (Europe Media Monitor)	Applied research to advance, maintain and operate multi-lingual data harvesting and analysis components of the JRC European Media Monitor (EMM) that has become an asset of the Commission strengthening its strategic autonomy in respect of information access. EMM is an unconventional data source based on open source news and publications and that provides timely relevant information in support to EU policy. Research into monitoring and analysis of social media data to enable effective social listening. Perform computational linguistic research to develop new analysis products in support of policy. Develop new delivery platforms & tools, including visualisation techniques to disseminate high-level information analysis. Integration and extension of the research results to support the detection and handling of disinformation (see DISINFO project) and to constantly feed the Media Analysis Capability (see deliverable MAC) with new unique data.	2027-12-31	Technical systems	N
																	3054487	MECMMHI	European Commission Media Monitoring Services (HE-0)	Support to DG-COMM to provide the President and the College on a daily basis with specific press reviews and news agency wires covering the latest news developments throughout the year. Harmonization of media monitoring tools and methodologies within the Commission (e.g. MyNews network). Improved media monitoring and analysis tools for a better informed and aware EC at all levels, enabling EC services to deliver their key aims, which is to provide the Union with the necessary impetus for its development and to define the general political directions and priorities thereof.	2021-07-12	Technical systems	N
																	3054489	MECMMHI	European Commission Media Monitoring Services (HE-2)	Support to DG-COMM to provide the President and the College on a daily basis with specific press reviews and news agency wires covering the latest news developments throughout the year. Harmonization of media monitoring tools and methodologies within the Commission (e.g. MyNews network). Improved media monitoring and analysis tools for a better informed and aware EC at all levels, enabling EC services to deliver their key aims, which is to provide the Union with the necessary impetus for its development and to define the general political directions and priorities thereof.	2023-07-12	Technical systems	N
																	3054490	MEPMMHI	EP Media Monitor HE-0	Improved media monitoring and analysis tools for a better informed and aware European Parliament assisting it to provide the Union with the necessary impetus for EU policy and to define the general political directions and priorities thereof.	2021-08-15	Technical systems	N
																	3054491	MEPMMHI	EP Media Monitor HE-1	Improved media monitoring and analysis tools for a better informed and aware European Parliament assisting it to provide the Union with the necessary impetus for EU policy and to define the general political directions and priorities thereof.	2022-08-15	Technical systems	N
																	3054492	MEPMMHI	EP Media Monitor HE-2	Improved media monitoring and analysis tools for a better informed and aware European Parliament assisting it to provide the Union with the necessary impetus for EU policy and to define the general political directions and priorities thereof.	2023-08-15	Technical systems	N
																	3054493	MMOSESH	European Council Media Monitoring HE-0	Improved media monitoring and analysis tools for a better informed and aware European Council, enabling it to deliver its aims, which is to provide the Union with the necessary impetus for its development and to define the general political directions and priorities thereof.	2021-02-07	Technical systems	N
																	3054494	MMOSESH	European Council Media Monitoring HE-1	Improved media monitoring and analysis tools for a better informed and aware European Council, enabling it to deliver its aims, which is to provide the Union with the necessary impetus for its development and to define the general political directions and priorities thereof.	2022-02-07	Technical systems	N
																	3054495	MMOSESH	European Council Media Monitoring HE-2	Improved media monitoring and analysis tools for a better informed and aware European Council, enabling it to deliver its aims, which is to provide the Union with the necessary impetus for its development and to define the general political directions and priorities thereof.	2023-02-07	Technical systems	N
																	3054496	MMFMMHE	FRONTEX Media Monitoring HE-0	Enhanced Open Source monitoring capabilities at FRONTEX helping it to fulfil its responsibilities related to border management including migration.	2021-06-01	Technical systems	N
																	3054497	MMFMMHE	FRONTEX Media Monitoring HE-1	Enhanced Open Source monitoring capabilities at FRONTEX helping it to fulfil its responsibilities related to border management including migration.	2022-06-01	Technical systems	N
																	3054498	MMFMMHE	FRONTEX Media Monitoring HE2	Enhanced Open Source monitoring capabilities at FRONTEX helping it to fulfil its responsibilities related to border management including migration.	2023-06-01	Technical systems	N
																	3054499	MCJMMHI	Court of Justice Media Monitor HE-2	Media monitoring and analysis tools customized for the Communication Directorate of the Court of Justice.	2022-12-19	Technical systems	N
																	3054500	MHRMMHI	Building media monitoring capacity within the Office of the High Commissioner of Human Rights at the UN (HE1)	Design and develop tools to increase media monitoring coverage and support for the UN Office of the High Commissioner of Human Rights.	2021-12-31	Technical systems	N
																	3054501	MHRMMHI	Building media monitoring capacity for the Office of the High Commissioner of Human Rights at the UN (HE-2).	Design and develop tools to increase media monitoring coverage and support for the UN Office of the High Commissioner of Human Rights.	2022-12-31	Technical systems	N
																	3054503	MEEASHI	Media monitoring and analysis tools customized for EEAS HE-2	Improved media monitoring and analysis tools for a better informed and aware European External Action Service (EEAS) assisting it to provide the Union with the necessary impetus for the external dimension of EU policy, especially crisis management, and to define the general political directions and priorities thereof.	2022-12-31	Technical systems	N
																	3054504	EMMGGMI	Building media intelligence capacity for the Georgian Government	Design and develop tools to increase media monitoring capacity within the Georgian Government.	2021-11-15	Technical systems	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3054505	MMSRBHE	SRB Media Monitoring HE-1	The SRB Media Monitor (SRB-MM) is a media monitoring tool aimed at facilitating and automating the collection,classification and dissemination of Open Source Information. The tool increases the Single Resolution Board capacity to perform media monitoring and provides a specialized tool to SRB staff and external partners on financial and banking related news. The tool helps SRB to fulfil its responsibilities within the Banking Union including resolution planning to avoid the potential negative impacts of a bank failure on the economy and financial stability	2022-10-03	Technical systems	N
																	3054506	MMSRBHE	SRB Media Monitoring HE-2	The SRB Media Monitor (SRB-MM) is a media monitoring tool aimed at facilitating and automating the collection,classification and dissemination of Open Source Information. The tool increases the Single Resolution Board capacity to perform media monitoring and provides a specialized tool to SRB staff and external partners on financial and banking related news. The tool helps SRB to fulfil its responsibilities within the Banking Union including resolution planning to avoid the potential negative impacts of a bank failure on the economy and financial stability	2023-10-03	Technical systems	N
																	3054508	MMEuMMHI	Europol Media Monitoring HE-2	Europol's Corporate Communications Unit performs open source monitoring on behalf of operational Units in Europol. The Unit also produces a daily newsletter for the whole organisation. The purpose of this deliverable is to enhance Europol's capabilities in preventing and combating organised crime, terrorism and other forms of serious crimes by maintaining the provided software.	2022-12-31	Technical systems	N
																	3054509	MMESMHHI	EMM support to the European Science Media-HUB HE-0	Extensions of the European Parliament Media Monitoring platform + Technology monitoring system to support the EU Science Media Hub (ESMH) project. Close collaboration with European Parliament Science and Technology Options Assessment (STOA) Panel leveraging our investment in the development of a Media Monitoring system and a technology monitoring system for the Commission. The work to support the ESMH will provide us with useful feedback from another serious institutional customer and new business scenarios to validate and further improve our existing technology.	2021-12-31	Technical systems	N
																	3054510	MMESMHHI	EMM support to the European Science Media-HUB HE-1	Extensions of the European Parliament Media Monitoring platform + Technology monitoring system to support the EU Science Media Hub (ESMH) project. Close collaboration with European Parliament Science and Technology Options Assessment (STOA) Panel leveraging our investment in the development of a Media Monitoring system and a technology monitoring system for the Commission. The work to support the ESMH will provide us with useful feedback from another serious institutional customer and new business scenarios to validate and further improve our existing technology.	2022-12-01	Technical systems	N
																	3054511	MMEFSAHE	EFSA Media Monitoring & Data Analysis HE-0	The general objective of the SLA is to further develop the media monitoring system MedISys for the early identification, monitoring and reporting of signals on existing and emerging plant health threats. EFSA has become one of the main users of JRC's event-based surveillance system MEDISYS, e.g. monitoring the spread of Xylella fastidiosa in the EU. This SLA will further enhance our capacity for event-based surveillance and crisis management on the needs of the EU in health crisis management. Collaboration between EFSA, EU member states and JRC will be further strengthened, also via contact with the plant health panel at EFSA.	2022-12-31	Technical systems	N
																	3054512	MedysisDrug	MedysisDrugs HE-0	Research and development of text mining and analysis capabilities to further the quality and capabilities of the current software and services supported by MEDISYS. Respond to Institutional ad-hoc requests for advice on, or execution of text mining and analysis tasks. Deliver the systems, operational support and provide services. Research will focus on the identification of new psychoactive substances from internet and darknet sources using a machine-learning algorithm to identify brands and street names currently used for drugs in the EU.	2021-06-01	Technical systems	N
																	3054513	MMEIOSHE	Epidemic Intelligence from Open Sources HE-1	Development and implementation of the Epidemic Intelligence from Open Sources (EIOS) system. The EIOS system is a main deliverable of the EIOS initiative and has become a key tool for WHO increasing the capacity of the organization to early detect, assess and communicate new and changes in ongoing public health risks. Following the first phase of the EIOS expansion plan access has been/is being granted to additional user communities including supra- and international organizations and networks (GOARN, FAO, OIE, GHSI, UNICEF, African CDC) as well as Member States (Albania, Egypt, Nigeria, Japan, Argentina, Brazil, Republic of Korea, Moldova, Oman, Nepal, Uganda). The ultimate goal is to provide access to all Member States in need, strengthening public health security from national to global level.	2021-12-31	Technical systems	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3054514	MMEIOSHE	Epidemic Intelligence from Open Sources HE-2	Development and implementation of the Epidemic Intelligence from Open Sources (EIOS) system. The EIOS system is a main deliverable of the EIOS initiative and has become a key tool for WHO increasing the capacity of the organization to early detect, assess and communicate new and changes in ongoing public health risks. Following the first phase of the EIOS expansion plan access has been/is being granted to additional user communities including supra- and international organizations and networks (GOARN, FAO, OIE, GHSI, UNICEF, African CDC) as well as Member States (Albania, Egypt, Nigeria, Japan, Argentina, Brazil, Republic of Korea, Moldova, Oman, Nepal, Uganda). The ultimate goal is to provide access to all Member States in need, strengthening public health security from national to global level.	2022-12-31	Technical systems	N
																	3054515	MMCEWSV	Software Services for Continental Early Warning – V5	Deliver software based services to support the Continental Early Warning (CEWS) System of the African Union. The software is based on the EMM text mining technologies that will be customised specifically for CEWS and deliver products to the Continental Alerting and Analysis system being developed by E.1	2024-06-30	Technical systems	N
																	3054516	MMCJMMHE	Court of Justice Media Monitor HE-1	Media monitoring and analysis tools customized for the Communication Directorate of the Court of Justice.	2021-12-19	Technical systems	N
																	3055132	TIMESMH	TIM for the European Science Media Hub of the European Parliament	Technology monitoring system for the European Parliament in the context of the European Science Media hub. TIM system is used to help debunking fake news in science and fake debates.	2021-12-31	Technical systems	N
																	3055133	andEMMfori	TIM AND EMM for Fuel Cell and Hydrogen JU	A TIM Technology monitoring system is adapted to the needs and technology base of the fuel cell and hydrogen JU. Similarly, a media monitoring based on EMM is customized for the needs of FCH JU.	2022-12-31	Technical systems	N
																	3055134	TIMRandIT	TIM Research and IT engineering activities	This deliverable gathers all research, development, and IT engineering activities carried on in the TIM Analytics project. These activities are underpinning all the other deliverables of the project. It includes the development and deployment of new IT components of TIM like for example new text mining methods (e.g. LDA, clustering, entity matching, layout algorithms) or new visualisations (e.g. dashboards, 3D visualisations) and research activities including scientific publications in peer-reviewed journals, participation to or organisations of workshops and conferences. It also includes all research made to improve the TIM trends systems used for technology anticipation. The activities in this deliverable fuel all TIM systems with new features and functionalities. TIM Trends, TIM Technology, TIM Custom, TIM Open Access, Compared all benefit from the underpinning R&IT	2026-12-31	Technical systems	N
																	3055135	TIMTM	TIM Technology Monitoring	The deliverable TIM TM includes all the IT systems implemented and all the reports delivered by the TIM Analytics project in relation to technology monitoring and landscaping: -TIM Technology: Technology monitoring tool containing scientific literature, Patents, EU projects, accessible to all Commission staff and some agencies. -Information systems on for example emerging technologies (TIM Edge), on energy technologies (TIM Energy), on cybersecurity (TIM Cybersecurity), on Covid-19 and on Climate (TIM Climate) -TIM for Science parks, dedicated to technology monitoring for science parks -Ad-hoc Reports. Activities in this deliverable will be summarized in the annual report	2026-12-31	Sci information systems and databases	N
																	3055136	TIMTrends	TIM TRENDS	Flagship deliverable of the TIM Trends project (technology anticipation). The flagship deliverable of the TIM analytics team regarding technology anticipation is the TIM Trends report 2020: weak signals in science and technologies in 2020. It relies on the continuous development of the TIM Trends software. An in-depth analysis of weak signals detected in large datasets about science and innovation (Scientific literature and patents) is performed to identify new emerging technologies of thematics.	2021-05-31	Technical Reports	N
																	3057103	TIMforEFSA	TIM systems for the European food Safety authority	Various Data analytics systems based on TIM tools will be customized/developer for EFSA on emerging chemical risks, competence mapping, plant health, animal diseases.	2022-12-31	Technical systems	N
																	3057104	TIMFusion	TIM system for monitoring technologies in the field of Nuclear Fusion	A TIM Technology monitoring system is customized and adapted to monitor technologies related to the fusion programme of the Commission and to visualise historical data on fusion research projects funded by the EU. Work done for DG RTD.	2023-12-31	Technical systems	N
																	3057105	CompareD	CompareD, a semantic similarity platform for comparing documents	The Compared project aims at developing, implementing and operating a semantic similarity platform to support the evaluation of research proposals by public research funding agencies. With Compared, evaluators will have access to a dedicated web-based semantic platform where they can retrieve information about similar grants that have already been funded. The use of the platform will therefore contribute to more evidence-based funding decisions. More specifically, the project aims to reduce fraud and duplication of research, help increase the quality and originality of publicly funded research and innovation projects, and facilitate the sharing of data related to public funding of research in Europe. Further applications of the CompareD platform are being explored e.g. to compare entrant Erasmus+ projects to past granted projects.	2021-12-31	Technical systems	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
																	3057106	DIMforEDA	Defence Innovation Monitoring system for the European Defence agency	A technology monitoring system based on JRC TIM technology is developed and adapted to the needs of the European Defence Agency.	2021-12-31	Technical systems	N
																	3058200	ıcubatorRes	Text Mining and Analysis Incubator – Research activities	Scientific activities are essential to keep the overall Competence Centre ahead of the curve. Such activities are : publication of peer-review articles ; presentation to scientific conferences ; organisation of workshops ; edition and review of proceedings, books, etc. ; participation in relevant innovation networking activities ; supervision of PhD students, …These activities are strongly coordinated within the TMACC and of the JRC at large, through the implementation of a Text Mining Research Agenda which identified 9 research areas including: knowledge graph extraction, sentiment analysis, semantic analysis of texts, event extraction, multi-modal analysis, and more. This deliverable consists in periodic reports describing the activities performed as part of the Research function of TMA Incubator.	2027-12-31	Technical Reports	N
																	3058291	ncubatorSu	Text Mining and Analysis Incubator – Support activities	This regroups all activities related to the continued support to the TMACC beneficiaries such as: -Organisation of Text Mining Training for JRC, Commission and EU staff; -Animation of a JRC-wide Community of practice; -Ad hoc assistance to JRC, Commission and EU staff to tackle specific Text Mining challenges (about 50 request per year ranging from simple advice, to assistance in solution design, or even specific developments); -Provision of fast prototypes and reusable software components, in particular TMA Box, an online system allowing to discover and test reusable Text Mining components; -Representation of JRC in forums related to text mining within the Commission and the EU institutions; -Representation of the JRC in events and networks, follow up of possible partnerships with external stakeholders. This deliverable consists in the TMA BOX itself, as well as in periodic reports describing the activities performed as part of the Support function of TMA Incubator.	2027-12-31	Technical Reports	N
																	3058335	ıIncubatorS	Semantic Text Analyser (SeTA)	Much of the world's data is textual. The information contained in text is invaluable and yet hard to access. The challenges of accessing such information are very relevant to this mission of the JRC, as timely, relevant information is needed at all stages of the policy development process. JRC has produced a tool SeTA which applies advanced text analysis techniques to large document collections, helping policy analysts to navigate them by following the concepts. A pilot version has been populated with hundreds of thousands of documents from EUR-Lex, the EU Bookshop and Pubsy, CORDIS. This prototype will be converted into a fully-fledged software service, with improved usability, and user support (most notably in the Better Regulation context). Based on feedback, further use cases will be envisaged for subsequent releases, with new functionalities and new text corpora ingested. This deliverable consists in the SeTA tool itself periodic and reports describing the activities.	2022-12-31	Sci information systems and databases	N
																	3058380	ıAOSINT20	Open Sources Intelligence for EU 2021	Collection and analysis of information from open sources is playing an important role in the overall Intelligence Cycle. Text Mining technology is crucial in this respect, in order to make sense of vast amounts of heterogeneous text. The aim of this deliverable is to support DG HOME's – as well as potentially other EU services' – Open Source Intelligence (OSINT) capability. The planned activities include the maintenance, use and further development of the customised version of JRC software modules, as well as the support to the OSINT community from EU institutions, MS authorities. The Administrative Arrangement foresees inter alia the organisation of meetings and workshops to foster networking and the exchange of the latest know-how and techniques. The Technical annex of the renewed Administrative Agreement will provide a detailed plan of the various deliverables foreseen for this activity. Its final report will be provided here for traceability purposes.	2021-12-31	Technical Reports	N
																	3058381	ıAOSINT20	Open Sources Intelligence for EU 2022	Collection and analysis of information from open sources is playing an important role in the overall Intelligence Cycle. Text Mining technology is crucial in this respect, in order to make sense of vast amounts of heterogeneous text. The aim of this deliverable is to support DG HOME's – as well as potentially other EU services' – Open Source Intelligence (OSINT) capability. The planned activities include the maintenance, use and further development of the customised version of JRC software modules, as well as the support to the OSINT community from EU institutions, MS authorities. The Administrative Arrangement foresees inter alia the organisation of meetings and workshops to foster networking and the exchange of the latest know-how and techniques. The Technical annex of the renewed Administrative Agreement will provide a detailed plan of the various deliverables foreseen for this activity. Its final report will be provided here for traceability purposes.	2022-12-31	Technical Reports	N

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																	3058522	AERCC20	Text Mining for Enhancing the monitoring, early warning and analytical capacities of ERCC 2021	This works support DG ECHO's Emergency Response Coordination Centre (ERCC) and will contribute to enhance its role as a crisis coordination hub. This deliverable focuses specifically on the contribution of JRC.I.3 in an AA led by JRC.E.1. JRC.I.3's text mining contribution consists in (Work packages 8 and 9): -Maintain and enhance Disaster watch component of GDACS, which collects and analyses massive amounts of geolocated Tweets in support to disaster response;; -Study the usage of automated Event Extraction technology on news for disaster reporting and analysis capability of ERCC; -Maintain EMM system for ERCC; -Study and prototype Media Analysis components for the ERCC SecAid System, aiming at feeding analysts responsible of threat assessments of DG ECHO operations worldwide. The Technical annex of the renewed Administrative Agreement will provide a detailed plan of the various deliverables foreseen for this activity. Its final report will be provided here for traceability purposes	2021-12-31	Technical Reports	N
																	3058523	AERCC20	Text Mining for Enhancing the monitoring, early warning and analytical capacities of ERCC 2022	This works support DG ECHO's Emergency Response Coordination Centre (ERCC) and will contribute to enhance its role as a crisis coordination hub. This deliverable focuses specifically on the contribution of JRC.I.3 in an AA led by JRC.E.1. JRC.I.3's text mining contribution consists in (Work packages 8 and 9): -Maintain and enhance Disaster watch component of GDACS, which collects and analyses massive amounts of geolocated Tweets in support to disaster response;; -Study the usage of automated Event Extraction technology on news for disaster reporting and analysis capability of ERCC; -Maintain EMM system for ERCC; -Study and prototype Media Analysis components for the ERCC SecAid System, aiming at feeding analysts responsible of threat assessments of DG ECHO operations worldwide. The Technical annex of the renewed Administrative Agreement will provide a detailed plan of the various deliverables foreseen for this activity. Its final report will be provided here for traceability puroses	2022-12-31	Technical Reports	N
																	3058524	AOSINTBC	JRC OSINT BOX : Interoperable Text Mining Solution for the Open Sources Intelligence Community	The use of open information is crucial in investigations in law enforcement, tax, competition, immigration and customs authorities. However, the amount of data requires the use of automated tools. A typical software solution for OSINT consists in a tool chain that is a mix of components. Solutions from Member States authorities are often not interoperable with each other, leading duplication of expenses. JRC OSINT Box is a technical solution developed by the JRC to overcome that issue. Based on interoperable Open Source technology (the KNIME platform), it integrates the JRC Text Mining solutions into reusable processing components, and provides tailor-made workflows addressing specific OSINT us cases. It is based on its long experience on supporting a large community of OSINT users in EU Institutions and Member States (though DG HOM STAR administrative agreement).	2022-12-31	Technical systems	N
																	3059683	MMSRBHE	SRB Media Monitoring HE-0	The SRB Media Monitor (SRB-MM) is a media monitoring tool aimed at facilitating and automating the collection,classification and dissemination of Open Source Information. The tool increases the Single Resolution Board capacity to perform media monitoring and provides a specialized tool to SRB staff and external partners on financial and banking related news. The tool helps SRB to fulfil its responsibilities within the Banking Union including resolution planning to avoid the potential negative impacts of a bank failure on the economy and financial stability.	2021-10-03	Technical systems	N
																	3062728	MECFINHI	Media Impact: fiscal surveillance (HE-0)	Support to ECFIN to assess national media coverage of EU fiscal surveillance using EMM sources and data. The data collection will focus on Member States and will address intensity of reporting over time comparing EU average and differences across countries.	2021-02-28	Technical Reports	N
																	3062997	MECMMHI	European Commission Media Monitoring services (HE-1)	Support to DG-COMM to provide the President and the College on a daily basis with specific press reviews and news agency wires covering the latest news developments throughout the year. Harmonization of media monitoring tools and methodologies within the Commission (e.g. MyNews network). Improved media monitoring and analysis tools for a better informed and aware EC at all levels, enabling EC services to deliver their key aims, which is to provide the Union with the necessary impetus for its development and to define the general political directions and priorities thereof.	2022-07-12	Technical systems	N

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						30508	DARS-CC	Competence Centre in Data Analysis and Robust Statistics	The importance of statistics in policymaking is well known. What is less known or often overlooked is that many times the available data deviate from the assumed models or contain outliers and errors that can alter severely the conclusions if standard (non-robust) statistical methods are employed. JRC has long experience in developing and applying robust statistical methods, especially on financial and customs data, and has proven their value in various policy-related cases of great effect. On the other hand, robust statistics is just a component of larger data analysis effort, where data management, data pre-processing and data visualization play a role that is as important as the one of building sophisticated machine learning methods with learning capacity and adaptive behaviour. JRC expertise and competences cover to a good degree also these topics, which appear to be important for addressing a series of policy problems. Policy DGs often cannot dedicate necessary resources to technical problems and find it difficult to obtain assistance in the design and implementation of appropriate data analysis techniques and the correct application of robust statistical methods. In many cases, they are not even aware of how important such techniques can be for their domain. The Competence Centre in Data Analysis and Robust Statistics (DARS-CC) is established with the objective of efficiently addressing these problems by promoting the use and uptake of state-of-the-art data analysis and robust statistical methods in the lifecycle of EU policies, in line with the DataStrategy@EC Action Plan. In this context,	JRC.I.3	SG	FPI FPI OLAF OLAF TAXUD TAXUD RTD	BUDG FPI OLAF TAXUD	2021-01-01	2027-12-31	CON-AA CON-AA CON-AA CON-AA CON-AA CON-AA CON-IA INS-RS	3024291	DARSCC00	Customs Anti-Fraud Enabling Technologies, supporting the anti-fraud strategy of the European Anti-Fraud Office with state-of-the-art scientific approaches and modern investigative instruments.	The deliverable provides scientific and technical support to OLAF and its partners in the Member States, to strengthen their antifraud and customs controls strategies at European level. The outcomes are in the form of analysis methods and monitoring tools specific to customs data. The governing principle is that all the activities performed (including research studies, data analyses and prototyping) are conducted with the view of their integration in the European Anti-Fraud System (technology transfer) and their dissemination to the wider EU Customs community (knowledge transfer). As a result, the anti-fraud community will be assisted in their operations by a fortified AFIS platform and, at the same time, will be able to test emerging methods, models and tools through the JRC THESEUS resource. The project is organised in four tracks: (1) Applied research for anti-fraud; (2) Experimental anti-fraud services and prototypes; (3) Technology support and transfer; (4) Knowledge management.	2027-12-31	Technical Reports	N
																	3024292	DARSCC00	Scientific and technological support regarding data analysis and robust statistical methods for an integrated European approach to reinforce customs risk management and effective controls by the MS	The deliverable contributes to the modernization and reinforcement of customs risk assessment practices performed by Member States through scientific advice and technical support on the usage, or evolution, of state-of-the-art data analysis methods, including robust statistical methods, Machine Learning and Artificial Intelligence based techniques, which make use even of additional, non-conventional, data sources. The work covers both the domain of Financial Risks and the domain of Safety and Security Risks with distinct outputs agreed with DG TAXUD. The outputs of this deliverable include studies, reports as well as presentations and oral consultancy given during meetings.	2023-12-31	Technical Reports	N
																	3024293	DARSCC00	Scientific and technical support regarding state-of-the-art data analysis and robust statistical methods for reinforcing, by 2023, the implementation of EU taxation policies and their instruments.	The deliverable contributes to the advances in the implementation of instruments used to support EU taxation policies through scientific advice and technical support on the usage, or evolution, of state-of-the-art data analysis methods, including robust statistical methods and AI-based techniques. The support is mostly focused towards the Fiscalis programme, the implementation of the Directive on Administrative Cooperation (DAC) and the EUROFISC. The outputs of this deliverable include studies, reports as well as presentations and oral consultancy given during meetings with relevant TAXUD services and during working groups with Member States representatives.	2023-12-31	Technical systems	N
																	3024294	DARSCC00	Undervaluation Strategy of the Joint Analytical Capacity for the protection of the Traditional Own Resources, with extensions to misdeclaration of product and origin frauds and anti-money laundering.	The deliverable meets the most cogent priority of the single "Customs Union Agency and Joint Analytical Capacity" put forward by OLAF for the European Commission agenda. It will provide a solid methodological framework for the harmonized undervaluation strategy promoted by BUDG, in agreement with OLAF and TAXUD. The deliverable capitalizes activities conducted under deliverables (2) and (3), with a clear distinctive objective: the estimation of the potential loss due to the undervaluation component of the Customs gap (difference between duties collected and duties legally due). This amount is unknown and currently not measured, despite recommendations of the European Parliament and Court of Auditors, but examples of identified cases with significant duty and VAT losses indicate that the overall losses are substantial. The deliverable is articulated in: (1) Definition and statistical assessment of an Undervaluation Risk Threshold; (2) its application in pilot projects with EU Customs.	2023-12-31	Technical Reports	N
																	3024295	DARSCC00	Kimberley Process monitoring, with possible extensions to raw material certification system.	The deliverable is in support of the Kimberley Process (KP), an international scheme for regulating the trade in rough diamonds. The KP plays an important role in the rehabilitation of many post-war countries, as rough diamond production and trade accounts for a substantial part of their revenues and contributes to the livelihood of many. On the other hand, revenues of illicit activities constitute a risk for the peace and stability of those countries. Every year, the outcomes of the annual KP Plenary, in which the JRC supports the Service for Foreign Policy Instruments (FPI), are a subject on the agenda of the UN's General Assembly. This deliverable provides scientific and technical support to the FPI, by monitoring 'conflict diamonds' with a multi-modal approach: statistical analysis of KP data for the reconciliation of the certificates registered on the import/export sides, collection and analysis of open source news, and satellite-based analysis.	2022-12-31	Technical Reports	N

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																	3024296	DARSCC00	DARS-CC Enabling Technologies and Data Resources, increasing the scientific and technical capabilities of JRC staff, customers and end-users of analysing data in autonomy and minimal training effort.	DARS-CC develops and uses data analysis tools falling in the areas of statistics and computer science. Consolidated methods and procedures are packaged in general-purpose tools deployed on JRC web-based resources and software libraries. The deliverable involves four tracks: (1) Methodological research in statistics and computer science; (2) Flexible Statistics for Data Analysis (FSDA) software for robust statistical analysis, developed with academia for experienced analysts with statistical programming skills; (3) Web-Ariadne, a web-based resource progressively enriched to reduce the burden of repetitive tasks that could be performed in autonomy by customers and CC collaborators. (4) Integration and exploitation of existing and new data streams available in the Commission and Member States (e.g. Surveillance trade and energy price markets). Both FSDA and We-Ariadne rely on MATLAB, R and SAS code. FSDA is functional to the rapid development of derivative Web-Ariadne technologies.	2027-12-31	Journal contributions (Clarivate)	N
																	3029485	DARSCC00	Customs Union Performance Evaluation, providing scientific support on the design of Customs Union Performance metrics, a key tool for converging towards a uniform Customs Union	The deliverable covers scientific support on the design of Customs Union Performance (CUP) metrics, a key tool for achieving effective customs controls in Member States. The CUP system is a mechanism for measuring Customs activities and monitoring trends at EU level and in each participating country. The target is to show how Customs operations support the achievement of the strategic objectives of the Customs Union. The agenda for strengthening the development and use of CUP is the Vienna Declaration on the CUP, which put stress on developing outcome-driven evidence to drive policymaking initiatives. The deliverable will assist TAXUD in: (i) the design of relevant IT platforms for data gathering, validation and analysis of KPI; (ii) the development of appropriate web-based visualization and assessment tools; (iii) the exploitation of knowledge obtained by KPI, aiming at linking the CUP to specific over-arching priorities and policy items high in the TAXUD/Commission Agenda.	2021-06-30	Technical Reports	N
																	3030388	SCC08xLEG	PROFILE	PROFILE seeks to accelerate the uptake of state-of-the-art data analytics and incorporation of new data sources for more effective and efficient European customs risk management. The project provides tailored solutions, that build on modern methods in machine learning, graph-based analytics, and natural language processing, to help targeting officers and strategic analysts to collect and organise unstructured data, data-mine large datasets, apply semi-supervised machine learning that utilises feedback of control results, and to visualize complex data sets. PROFILE enables customs-to-customs systematic sharing of Entry Summary Declarations (ENS) and other risk-relevant information through the EU-wide PROFILE Risk Data Sharing Architecture (RDSA).	2021-07-31	Technical Reports	N
																	3030852	SCC9xLEG	AMT5 Phase 2	The AMT phase II project will deliver methods and tools for the detection of specific patterns in declaration level data. These are clusters and systematic under/over-valuation and price outliers for heteroscedastic populations. This work is meant to intensify the support to Member States, especially in view of the revision of the 515/97 Regulation. The deliverable consists of a report on the software and the anti-fraud resources developed for OLAF. The report shall specify the results linked to the support to the INTEL4CUSTAF working groups.	2021-02-02	Technical Reports	N
		30509	TT-CC	Competence Centre on Technology Transfer		The Competence Centre on Technology Transfer was established in 2018 to operate as a platform giving access to expertise on technology and IP dissemination, exploitation and commercialization and on creating and supporting innovation ecosystems that can facilitate these. Its activities cover the dissemination and exploitation of the JRC's (mainly) codified knowledge - in the form of patents, copyright, software, databases, etc. The Competences developed in the domains of technology dissemination, exploitation and commercialisation are also harnessed to support the development and implementation of EU policies related to technology transfer (e.g. research, pre-accession, industry). The Competence Centre on Technology Transfer also manages the TTO Circle, several research activities related to technology transfer as well as a number of capacity building projects.	JRC.I.4	RTD	NEAR REGIO JRC JRC	CNECT EAC EEAS FISMA GROW INTPA NEAR REGIO RTD	2021-01-01	2027-12-31	CON-AA CON-AA INS-E&IA INS-PoC INS-RS	3005748	022AA3549	Final report from the Administrative Agreement 35498 with DG NEAR	The report will provide a detailed description of the JRC activities carried out in support to a regional programme for proof of concept support for the western balkans that will be implemented on behalf of DG NEAR and the beneficiary countries.	2022-07-31	Technical Reports	N
																	3019388	ghbourhoo	Diagnostic and Benchmark Analysis of the Technology Transfer state in twelve European neighbouring countries	The purpose of this study is to conduct a brief diagnostic analysis and comparative overview of the state of Technology Transfer in twelve Eastern and Southern EU neighbouring countries. The main objectives are to i) describe the main characteristics of the landscape, including relevant stakeholders, players and technology transfer models, ii) identify strengths and weaknesses of the ecosystem, and iii) provide conclusions and recommendations for the countries. The ultimate objective is to inform policy-making in this area. The project started in 2019 and is in its last stage (organisation of roundtables with policy makers) and is expected continue throughout 2021, due to the disruptions caused by the COVID-19 outbreak. The study is being completed with the assistance of a pool of 12 independent experts.	2021-10-31	External study reports	N

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																	3019429	TTMetrics2	Second Report on Technology Transfer Metrics	The purpose of the follow-up study on technology transfer metrics is to operationalize the recommendations made in the first part of the study, which was finalized in February 2020. The objective is to create a composite indicator/scoreboard that allows to measure progress on the different elements identified as essential for knowledge transfer activities. For this purpose work with relevant stakeholders and technology transfer Offices of Public Research Organizations (PROs), is needed to gain consensus on adoption of the indicators and mechanisms to implement. This follow-up study will result in a design of a blueprint for a possible web-based tool that can be used for data acquisition, and allows self-assessment and benchmarking of PROs.	2021-03-31	External study reports	N
7. High Performance Modern Commision	7.2 Competences for better policy making and regulation	20682	C4BPM&R	COMPETENCES FOR BETTER POLICY MAKING AND REGULATION	JRC.I.3	30510	CIPS	Central Intellectual Property Service	The Central IP Service was established under SEC(2012)103 with a view to coordinate all IPR activities in the Commission with the aim to facilitate further use of EU owned IP assets and to ensure IP compliant use of third party owned IP by Commission staff.	JRC.I.4	GROW	EP GROW RTD	AGRI BUDG CLIMA CNECT COMM COMP DEFIS EAC ECFIN ECHO EMPL ENER ENV FISMA GROW HOME INTPA JRC JUST MARE MOVE NEAR OP REGIO RTD SANTE SJ TAXUD TRADE	2021-01-01	2027-12-31	CON-AA CON-AA CON-AA CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW CON-TW INS-RS	3028182	1	Central IP Service Annual Report	The Annual Report will give an overview of all operational activities of the Central IP Service in relation to each of its five obectives.	2022-01-31	Technical Reports	N
																	3041626	2	Evaluation of CIPS 2020 training activities	This report evaluates the trainings on Intellectual Property that were imparted in the previous year, set out against the objectives.	2022-01-31	Technical Reports	N
7. High Performance Modern Commision	7.2 Competences for better policy making and regulation	20682	C4BPM&R	COMPETENCES FOR BETTER POLICY MAKING AND REGULATION	JRC.I.3	31301	COCOMI	Countering the negative effects of misinformation during global crises through targeted behavioural interventions	The COCOMI (Countering Covid Misinformation) project contributes to the Exploratory Research (ER) Programme. Its main goal is to assess the effectiveness of strategies to fight misinformation on Covid. The project focuses on ways to target strategies to specific groups of individuals. The strategies aim at reducing the effect and spread of misinformation	JRC.I.2	JRC	JRC JRC	(blank)	2021-01-01	2022-02-28	INS-ER INS-RS	3081907	ERPAT	Final report	The Final technical report will summarise the scientific results of the project and provide a summary of the scientific papers originating from the project. A mid-term technical report will be produced at the end of year 1.	2021-12-31	Technical Reports	N
7. High Performance Modern Commision	7.3 Capacity building	20750	IGNITE	ExplorInG, buildiNg capacITy innovatE	JRC.A.5	30551	ER-PAT	Exploratory Research Project and Activity Tier	The Exploratory Research Programme (ER) is a strategic initiative of the JRC to enhance its scientific excellence and innovation capabilities. It enables the JRC's scientific and technical staff to pursue ambitious research of exploratory nature to build new scientific competences for future policy demands. It offers opportunities to its motivated researchers to engage in blue sky thinking, to consider possible futures and to challenge accepted paradigms. ER projects and activities can be considered as incubator projects which have an intrinsic risk to fail. The importance of providing this opportunity for blue sky thinking is recognised in the JRC Strategy 2030, in line with the mandate for fostering exploratory research at JRC in Horizon 2020. The strategic target is that 5% of the JRC's resources are devoted to Exploratory Research. Designed as a bottom up process, JRC scientists can submit proposals for either ER activities or projects across a wide variety of themes to realize their ideas without immediate direction from policy makers. In the past, ER projects have shown that their results can have significant impact on policy making, can lead to patents or have anticipated applications of future widespread use. ER Activities such as scoping workshops or small expert studies have short term duration, while projects present a more substantial research agenda and can last up to two years. ER projects and activities are embedded in the knowledge production units and foster cross-unit collaborations. ER output is registered against the respective project portfolio of the host unit.	JRC.A.5	JRC	JRC	EAC RTD	2021-01-01	2022-12-31	INS-ER	3004500	2021	ER Annual Report- 2021	An annual report on the progress of the programme is being produced based on the outcome of the ER Annual workshop including an overview of the ongoing projects, activities and statistics on the programme. Each successful ER proposals has its own project with thematic description, resources and deliverables. Each ER project or activity must produce a final report at the end of the project, covering all publications during the period.	2021-12-31	Technical Reports	N
																	3024943	2022	ER Annual Report - 2022	An annual report on the progress of the programme is being produced based on the outcome of the ER Annual workshop including an overview of the ongoing projects, activities and statistics on the programme. Each successful ER proposals has its own project with thematic description, resources and deliverables. Each ER project or activity must produce a final report at the end of the project, covering all publications during the period.	2022-12-31	Technical Reports	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
		ID	Acronym	Title	Unit	ID	Acronym	Title	Context	Unit	Main policy DG	Funding DG	Beneficiary DGs	Start date	End date	Funding type	MASTER ID	USER ID	Title	Description	Expected release date	Category	Sensitive
7. High Performance Modern Commission	7.3 Capacity building	20750	IGNITE	ExplorInG, buildiNg capacITy innovatE	JRC.A.5	30585	SciArt	Science and Art for Policy and Society	The Covid-19 crisis has shown that the work of many disciplines, scientific but not only, conflate in a prompt and efficient reaction of society to a major crisis. The SciArt project nurtures this inter- and transdisciplinary capacity to bring innovation. Introducing artists with their societal sensibilities into JRC research within an experimental DIY setting, the SciArt project intends to stimulate lateral and out-of-the-box thinking. The interaction with artists contributes to bringing research closer to the real needs of society while improving JRC outreach. It introduces valuable knowledge on the rapprochement between science and art into the JRC and disseminates its potentialities with a DIY philosophy. It contributes to developing and honing a holistic viewpoint that can empower JRC capacity to address societal concerns, thus reinforcing its mission of science in support of policy. As such, it is an important lever in A.5's Ignite portfolio, stimulating innovation and lateral thinking in tangible and concrete ways.	JRC.A.5	JRC	JRC	COMM EAC RTD	2021-01-01	2022-12-31	INS-UR	3004995	2021001	SciArt Events Programme - Report	Yearly report on SciArt Events held during the year, with deadline on 15 January of the following year. The report will discuss the objectives, programmes, target, participation and results for major event scheduled by the programme (e.g. in 2021 theater performance in collaboration with 'Parola di Donna' in Varese, 'Parola di Donna' Workshop, Resonances IV summer school, ...).	2021-12-31	External study reports	N
																	3024876	2021002	SciArt Residence Programme - Report	Report on the AiR residence programme of the year, with deadline on 15 January of the following year. The report will discuss the objectives, programmes, target, participation and results of the 2021 Residence programme, with a view on improving on the results.	2021-06-30	Technical Reports	N
																	3024941	OBSOLETE	Resonances Residence Programme "A-i-R"	Finalised calendar of the Artists-in-Resonances/Residences programme for the period from January to May 2022	2021-12-31	Technical systems	N
																	3025634	2022001	SciArt Events Programme - Report	Yearly report on SciArt Events held during the year, with deadline on 15 January of the following year. The report will discuss the objectives, programmes, target, participation and results for major event scheduled by the programme (e.g. in 2021 theater performance in collaboration with 'Parola di Donna' in Varese, Resonances IV Festival and Exhibition, ...). As the AiR programme is part of the Resonances, it will also be integrated in this report.EAC	2022-06-30	Journal contributions non-listed	N
																	3025635	20220000	OBSOLETE	Trimmed-down version (in function of 2020 evaluation exercise) of the Resonances Festival in Ispra, with talks and (a selection of) the installations resulting from the 2021 SciArt Summer School. Organisation, form and character of the festival will be the result of the 2020 evaluation exercise.	2022-10-31	Journal contributions non-listed	N
																	3025636	202200000	OBSOLETE	Trimmed-down version (in function of 2020 evaluation exercise) of the Resonances exhibition in a European venue to be defined, with a showing of (a selection of) the installations resulting from the 2021 SciArt Summer School. Organisation, form and character of the exhibition will be the result of the 2020 evaluation exercise.	2022-12-31	Science for Policy reports	N
																	3025637	2022000	OBSOLETE	Participation to the scientist-in-residence programme organised by Künstlerhaus Bethanien in Berlin, with one JRC scientist present for three days in Berling during 6/8 months, collaborating with artists.	2022-12-31	Journal contributions non-listed	N
7. High Performance Modern Commission	7.3 Capacity building	20750	IGNITE	ExplorInG, buildiNg capacITy innovatE	JRC.A.5	30602	CAS NP Detection	CAS - Towards a Technological Platform for Nanoplastics	Micro(nano)plastics and are now being found throughout the environment and there is growing concern that their accumulation could, in the future, present serious risks to the environment and to human health through the contamination of land, water and even air. Until now the impacts of said accumulations have been hard or impossible to define meaningfully. Therefore there is a pressing need to analyse such gaps and risk. The JRC will be in a unique position to be a game changer and develop the analytical tools which are essential for the overall development of this field, especially because of its proven knowledge in nanomaterials and nanotechnology combined with expertise across other JRC Directorates in different policy areas the JRC can contribute to a faster generation of the knowledge base needed for possible future policy actions. A more complete and comprehensive project description will be furnished with in-put from the Project Manager, as soon as the post is occupied.	JRC.A.5	ENV	JRC	GROW	2020-04-08	2022-12-31	INS-CAS	3024759	2	Results	Description of new methodology, platform and results	2022-12-31	Science for Policy reports	N
																	3024760	1	State of the art in NP detection	Description of the state of the art in NP detection, literature review, methodology applied in the project and outline of first results	2021-12-31	Journal contributions (Clarivate)	N

COM Priority	COM Policy area	Project Portfolio				Project											Deliverable						
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7. High Performance Modern Commission	7.3 Capacity building	20750	IGNITE	ExplorInG, buildiNg capacITy innovatE	JRC.A.5	30603	CAS CSS4P	CAS-Computational Social Science for Policy	This CAS project is about using Computational Social Science for EU policy support. Computational Social Science has the potential to impact and transform all phases of the policy cycle, from improving the understanding of the problem to the better definition of policy options, their assessment, evaluation and monitoring. There is unprecedented data and digital footprints being created everyday, however, these results are mostly confined to the realm of scientific publications because of the lack of systematic access to data beyond ad-hoc pilot studies. The JRC can be better positioned to address pressing policy questions through a coordinated access to non-traditional data. It also has a significant quantitative analysis capacity, while it is also acquiring more qualitative analysis skills in the social sciences. Given its technical and scientific expertise, the JRC can eventually act as a trusted intermediary between policymakers and the private sector. A more complete and comprehensive project description will be furnished with in-put from the Project Manager/Lead Scientist, as soon as that position has been filled.	JRC.A.5	HOME	JRC	CNECT ECHO EEAS ESTAT INTPA JRC NEAR RTD SG	2021-01-01	2022-12-31	INS-CAS	3025133	2021	State of the art review, methodology and first results	Scientific output on state of the art research in the field, description of methodoloy, description of data, modelling and first results	2021-12-31	Journal contributions (Clarivate)	N
																	3025145	2022	Presentation of results and policy recommendations	Reporting on results including policy recommendations.	2022-12-31	Science for Policy reports	N
7. High Performance Modern Commission	7.3 Capacity building	20750	IGNITE	ExplorInG, buildiNg capacITy innovatE	JRC.A.5	30605	CAS-DIGCLASS	CAS - Social Classes in the Digital Age	The main goal of the project is to update the Social Sciences concept of Social Class to the new economic realities of the Digital Age, operationalise it into a set of analytical tools such as new class taxonomies, and apply them to contemporary phenomena such as the decline of the middle class and job polarisation, the effects of digital technologies on inequalities and life chances or the emergence of new types of economic relations. Different units in the JRC are conducting projects which are strongly related to the concept of Social Class, but none of them use this approach. Thus, there is a large potential for synergies and cross-fertilisation across units and projects linking with this CAS, enhancing their impact and policy relevance. The project description will be adapted following its implementation and at the direction of the lead scientists and experts.	JRC.A.5	JRC	JRC	CNECT DIGIT EMPL ESTAT GROW REFORM REGIO RTD	2021-01-01	2022-12-31	INS-CAS	3025218	2021	State of the art, methodology and first results	Scientific output on the state of the art, literature review, methodologies, data and first results.	2021-12-31	Journal contributions (Clarivate)	N
																	3025229	2022	Scientific output and policy recommendations	Summary and conclusion on scientific output and policy recommendation	2022-12-31	Science for Policy reports	N
7. High Performance Modern Commission	7.3 Capacity building	20750	IGNITE	ExplorInG, buildiNg capacITy innovatE	JRC.A.5	30608	CAS 9	Place holder: CAS 9 resources to thematic research related to pandemics or other possible unexpected events with a potential for long-term global impact.	The project aims to address thematic research related to unexpected events, with a potential for long-term global impact, such as pandemics and black swan events, and will inevitably be of concern for the policy DG's in several years to come. The project is typically trans-disciplinary, cross-cutting and are not yet part of the JRC's portfolio.	JRC.A.5	SANTE	JRC	(blank)	2021-01-01	2022-12-31	INS-CAS	3031412	1	State of play of pandemic/global impact events, etc.	Description of the state of play, literature review, methodology applied in the project and outline of first results	2022-12-31	Journal contributions (Clarivate)	N
																	3031416	2	Results	Description of new methodology, platform and results, potential impact on policy agenda	2022-12-31	Science for Policy reports	N
7. High Performance Modern Commission	7.3 Capacity building	20750	IGNITE	ExplorInG, buildiNg capacITy innovatE	JRC.A.5	30681	CAS 10	Place holder: CAS 10 resources to thematic research related to pandemics or other possible unexpected events with a potential for long-term global impact.	The project aims to address thematic research related to unexpected events, with a potential for long-term global impact, such as pandemics and black swan events, and will inevitably be of concern for the policy DG's in several years to come. The project is typically trans-disciplinary, cross-cutting and are not yet part of the JRC's portfolio.	JRC.A.5	SANTE	JRC	RTD	2021-01-01	2022-12-31	INS-CAS	3031421	1	State of the play regarding pandemics, global impact events, sytemic risk management	Description of the state of play, literature review, methodology applied in the project and outline of first results	2022-12-31	Journal contributions (Clarivate)	N
																	3031427	2	Results	Description of new methodology, platform and results, with possible impact on policy formulation.	2022-12-31	Science for Policy reports	N

JRC 2021 - 2022 DETAILED WORK PLAN (JPB extract as of 04 06 2021)

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7. High Performance Modern Commission	7.3 Capacity building	20750	IGNITE	ExplorInG, buildiNg capacITy innovatE	JRC.A.5	30862	CAS-SHIFTINCOMM	CAS-Paradigm Shift in Communicaton	Over the past decade, Internet's explosion, the broad establishment of new media, the rapid technological advancements, the data eruption alongside the spread of misinformation have all affected the way people communicate amongst themselves, the way institutions interact with citizens, media with news consumers or providers with users. Growing research evidence provides us with the opportunity of better understanding the on-going paradigm shift within the communication landscape, affecting both the political decision-making process as well the engagement of citizens in the political process. The Commission as well as all relevant public institutions ought to gain better understanding of this shift, so as to better respond to citizens' need and concerns. In the JRC, various scientists are conducting research partially related to this ongoing paradigm shift in communication from different perspectives. Thus, this CAS project aims to connect the JRC's growing knowledge and scientific outcomes across different research teams, and draw complex understanding on the phenomenon of continuous and rapid growth of Internet usage as a communication means. A more complete and comprehensive project description will be furnished with in-put from the Project Manager, as soon as this position is occupied/filled.	JRC.A.5	JRC	JRC	CNECT COMM IDEAOP	2021-01-01	2022-12-31	INS-CAS	3087878	1	State of the art review and study reports on different aspects of Paradigm shift in Communication	State of the art review and study reports on different aspects of Paradigm shift in Communication. These reports are based on or directly produced by experts contracted on the subjects.	2022-12-31	External study reports	N
7. High Performance Modern Commission	7.3 Capacity building	20750	IGNITE	ExplorInG, buildiNg capacITy innovatE	JRC.A.5	30955	CAS-BigNomics	CAS - BigNomics	Many important indicators of economic activity are measured at the quarterly frequency and with significant delays. These delays are the result of the complexity involved in estimating GDP and other macroeconomic variables. Measuring the value of goods and services produced by a country in a certain period of time depends on monthly and quarterly surveys of consumers, establishments, firms, importers/exporters, and stores among others. The survey data are often available with significant delays and even after 75 days from the end of the quarter only a fraction of this information might be available. Despite the difficulty of producing official statistics, the public and policy makers are interested in real-time measures of the state of the economy which becomes particularly urgent during stressful times such as recessions.	JRC.A.5	ECFIN	JRC	JRC	2018-05-01	2021-06-01	INS-CAS	3030612	2021	BigNomics Final Report	Final report summarising the research findings of the BigNomics project and policy recommendations	2021-05-31	Science for Policy reports	N