



# **LUXEMBOURG**

and its collaboration with the European Commission's science and knowledge service



### Who are we?

The Joint Research Centre (JRC) is a department of the European Commission. Our mission is to support EU policies with scientific evidence throughout the entire policy process. We are independent of national, commercial or stakeholder interests.

Our 2 800 staff are based in Belgium, Germany, Spain, Italy and the Netherlands. In addition to performing our own research, we make sense of collective scientific knowledge from multiple sources for smarter EU policies. Capacity building is one of our key roles. We often work in partnerships with universities, government offices, agencies and stakeholders.





# JRC priorities

Most of our scientific work is undertaken in direct support to EU policies. We add value by providing knowledge or services that others are less well placed to provide. And we strive for excellence in all our activities.

In carrying out our work, integrity is a core value: in our approach to science, in the way we treat people, and in avoiding conflicts of interest. We strive always to deliver on our commitments, to promote an open exchange of knowledge and to foster innovation.

Our scientific work covers a wide range of EU policy domains: energy and transport; sustainability and climate; migration; economic questions; education and employment; food, nutrition and health; digital transformation; and innovation. We endeavour to address new societal challenges as they emerge.



# **Examples of cooperation**



### Identifying risks to Luxembourg's gas supply

The new EU policy on security of gas supplies has shifted from a national to a regional focus, the aim being to ensure coordinated responses to future risks. Luxembourg belongs to 2 regional groups in this context, and the JRC has conducted scenario analyses to estimate supply risks to the country from the perspective of both groups. This helps boost Luxembourg's preparedness. Part of that is having alternatives the country can fall back if its gas supply is cut off.



#### A harmonised approach to monitoring land and soil

The JRC supported Luxembourg in implementing EU land and soil monitoring schemes. The cooperation allowed Luxembourg to participate in an EU-wide system for comparable statistics and harmonised data for the study of challenges, such as, soil degradation, biodiversity and land take due to urbanisation.



#### Can resilience be increased to absorb disruptions to global trade flows?

Global supply chains can be disrupted by factors such as natural disasters, terrorism, and illegal activities. The JRC has therefore partnered with European governments and industry to ensure their security and resilience. Specifically, the JRC's cooperation with a Luxembourg-based company demonstrated the degree to which resilience can be increased without harming trade flows.

# Working together?



#### **USING OUR LABS AND INFRASTRUCTURE**

Since 2017 the JRC has opened up 16 of its physical research infrastructures to academia, research organisations and industry (including small and medium-sized businesses). There are opportunities for scientists to work and receive further training in JRC laboratories dealing with nuclear safety and security, chemistry, life sciences, physical sciences, ICT, and 'foresight' (the branch of scientific research that explores how the future will look).



► https://europa.eu/!Mx93Uf



#### **SMART SPECIALISATION**

The JRC hosts the Smart Specialisation Platform, which helps European countries and regions identify which research and innovation areas to invest in. The Platform takes into account a country or region's existing strengths and upcoming challenges. We have provided science-based advice for policymakers, businesses and research institutions. And we have developed more than one hundred **Smart Specialisation Strategies** for various European regions and Member States, e.g. for the agri-food and energy sectors. The Platform has helped foster many partnerships both within the EU and beyond.



► https://europa.eu/!NQ77mM

### **KNOWLEDGE CENTRES AND COMPETENCE CENTRES**

The JRC hosts several Commission Knowledge Centres and Competence Centres. These Centres bring together experts, stakeholders and knowledge from both within and outside the European Commission. Knowledge Centres are built around topics, while Competence Centres focus on analytical tools. Together, they inform policymakers, stakeholders and the general public about the latest scientific findings that are relevant for policy. They provide contextualised evidence, reviews, data analysis and data visualisation.



https://europa.eu/!DF34qN

### **JRC SUPPORT FOR STANDARDISATION**

Standardisation and harmonisation promote innovation and competitiveness. They also build consumer trust and are essential for the European single market. For these reasons, more than 70 % of the JRC's projects involve work on standardisation and harmonisation. The JRC also participates in more than 160 technical committees linked to standardisation organisations. The JRC also plays a key role in the development of reference materials. The JRC carries out research to lay the scientific foundations before a standard is adopted, for example, by developing analytical methods.



► https://europa.eu/!qT77BB



### **BRIDGING THE GAP BETWEEN SCIENTISTS AND POLICYMAKERS**

The JRC regularly organises or facilitates events known as 'Science meets Regions' and 'Science meets Parliaments'. At these events, scientists and policymakers are brought together to learn about each other's challenges, tackle issues specific to a given region or country, build relationships and promote a culture of evidence-based policymaking.



► https://europa.eu/!pY73yB

### **ACCESSING OUR DATABASES AND MODELS**

In line with our values of openness and transparency, we grant access to the JRC's services, databases and tools, including more than 100 models.



► https://europa.eu/!nV43gg

### **COLLABORATIVE DOCTORAL PARTNERSHIPS**

In 2016, the JRC launched the Collaborative Doctoral Partnerships programme to establish strategic cooperation with institutions of higher education that have excellent research credentials and an international reputation. The programme is designed to train a new generation of doctoral students in specific scientific fields, with a focus on the science-policy



■ http://europa.eu/!Tu68Ft

# **USING OUR SITES AS LIVING**

The JRC is offering startups the chance to use 'living labs' at its sites in Ispra, Italy, and Petten, the Netherlands. We welcome applications from those working in the fields of mobility (ride sharing, last mile delivery, robotaxis) and digital energy (smart meters and sensors, data analytics). Interested parties wanting to test their tech in a controlled, city-like environment with access to state-of-the-art labs, technical support and scientific expertise should apply here.



# Did you know?



Supported by the JRC, scientists have discussed during a 'Science meets Parliament' event with members of parliament and policy-makers opportunities and factors hindering the use of space based data to increase sustainability in Luxembourg.



The JRC is also working with partners from Luxembourg on nuclear safety, radiological data exchange, and financial research.



Police officers from Luxembourg have taken part in a JRC training course on how to approach and manage crime scenes where radioactive materials are present.



The Luxembourg member of the JRC Board of Governors is Léon Diederich, First Advisor to Government in the Ministry for Higher Education and Research.



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#### **SEE WHICH MODELS AND DATABASES WE HAVE**

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#### **LOOK AT OUR LATEST ANNUAL REPORT**

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#### **READ OUR STRATEGY**

https://ec.europa.eu/jrc/sites/jrcsh/files/jrc-strategy-2030\_en.pdf



#### **COME WORK WITH US**

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#### **MEET US AT AN EVENT!**

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## **Your National Contact Points**



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https://ec.europa.eu/jrc/en/working-with-us/jrc-national-contact-points

