IACS data sharing

25th MARS conference
Prague (CZ)
28 November 2020

European Commission
DG AGRI D.3

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What happenned since the last MARS Conference in Dubrovnik ?

Presentation

Policy context for data sharing

DG AGRI Process for IACS data sharing

EU policy context

Declaration for A smart and sustainable digital future for agriculture and rural areas

Signed in April 2019 **(almost all MS)**

(…)

increase CAP administration efficiency, ***notably in sharing geospatial information among public administrations***

(…)

https://ec.europa.eu/digital-single-market/en/news/eu-member-states-join-forces-digitalisation-european-agriculture-and-rural-areas

EU policy context

- A European Green Deal
- An economy that works for people
- A Europe fit for the digital age
- Protecting our European way of life
- A stronger Europe in the world
- A new push for European democracy

- **Data** and AI are the ingredients for innovation that can help us to find solutions to **societal challenges**, from health to **farming**, from security to manufacturing.
- **Balance** the flow and wide **use of data** while **preserving high privacy, security, safety and ethical standards**.
- Need to move from **"need to know" to "need to share"**
- **The public sector** has an important role in stimulating digital transformation.

Digital under the next MFF

Digital Europe
Capacities & roll out

1. High Performance Computing (HPC)
2. Artificial Intelligence (AI)
3. Cybersecurity
4. Advanced digital skills
5. Digital transformation and interoperability

Horizon Europe
Digital in R&D&I

1. Digital under "global challenges"
   - Digital, Industry and Space cluster
   - Digital in other clusters - health, mobility, energy, environment,..
2. Open Innovation
3. Research Infra under Open Science

Connecting Europe Facility
Digital Connectivity

- 5G roll out
- BB 4EU, Connecting communities
- Synergies with Transport /Energy

Creative Europe
MEDIA

Invest EU
Research, innovation & digitisation

European Regional Development Fund/ Cohesion Fund

EU policy context

CAP 2020+
Cross-cutting objective : fostering knowledge, innovation and digitalisation

Data keeping and sharing *[Art. 65 / HZR]*

Data keeping

(…)

Data sharing

- concerns existing data !
  - necessary for environment-climate purposes (Directive 2007/2/EC)
  - relevant for monitoring Union policies
  - necessary for the production of European statistics (Regulation (EC) No 223/2009)

Stepwise process conducted by DG AGRI

1. Definition of **spatial** and **non-personal data** in IACS (LS opinion) √

2. Access and sharing of data primarily for **environmental**, **climatic and related policy** purposes **by (MS + EC) administration** √

3. Collaboration with MS:
   - current **practice** and **obstacles** (e-survey) √
   - **list of IACS spatial data** to be shared (workshop) √

4. Collaboration with EC services: list of most important **use cases (and in the interest of the MS)**

5. Support to MS:
   - **legal (Q&A) and technical "guidelines"**
   - pilot implementation (JRC D5) to define **dataset metadata** & **use cases**

6. "Validation workshop" and final guideline documents

7. Extension to all MS

IACS current setup and its data to be shared

Article 68

Elements of the integrated system

1. The integrated system shall comprise the following elements:

(a) a computerised database;

(b) an identification system for agricultural parcels;

(c) a system for the identification and registration of payment entitlements;

(d) aid applications and payment claims;

(e) an integrated control system;

(f) a single system to record the identity of each beneficiary of the support referred to in Article 67(2) who submits an aid application or a payment claim.

LPIS data
Reference parcel boundaries
Maximum eligible area
Land Cover Classification (AL, PC, PG)
Stable Ecological Focus Areas (EFA-layer: terraces, buffer strips, agro-forestry, short rotation coppice, ...)
Other landscape elements
RD agri-environment-climate measures
Other area-related information (relevant for eligibility e.g. Natura 2000, WFD, ANC, ...)
Eligibilty profile (as described in LPIS QA)

GSAA data
Agricultural parcels boundaries and areas
Data on individual arable crops (by crop group as defined by MS or by crop if this is relevant at MS/region level)
Data on individual permanent crops (by crop group as defined by MS or by crop if this is relevant at MS/region level)
Permanent grassland (geo-localised)
Uses on arable land (for crop diversification; >10ha)
Individual Ecological Focus Areas
Area-related rural development commitments

Collaboration with MS

- **Sept 18 -** list of IACS data to share (ES, DK, SI, CZ)
- **April 19 -** kick-off meeting for pilot implementation (ES, DK, SI, BG)
- **Sep – Oct 19** AGRI D3 visits PT (+JRC) , LU, FR
- **Oct – Nov 19** AGRI D3 + CLIMA (GR, LT) & JRC + CLIMA (BG)
- Contacts in the frame of **projects** (NIVA and OpenIACs ;GR, IT)

11 MS: ES, DK, SI, CZ, BG, PT, LU, FR, GR, LT, IT

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Collaboration to define use cases for EC/MS benefit

ENV - Biodiversity

CLIMA - LULUCF

ESTAT - IFS , LUCAS

GROW - COPERNICUS

AGRI - CAP indicators, crop yield/production forecast, …

With the support of JRC

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Results of the workshop

MARS Conference, Prague (CZ)
28 November 2019

European Commission
DG AGRI D.3, Implementation support and IACS

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Workshop programme

- A GIS project
- Questions and Answers: Legal clarifications
- Use cases **pilot**
- Metadata **pilot**
- Actions for 2020

I am LULUCF accounting officer

I would like to access
IACS data & Forestry data & …

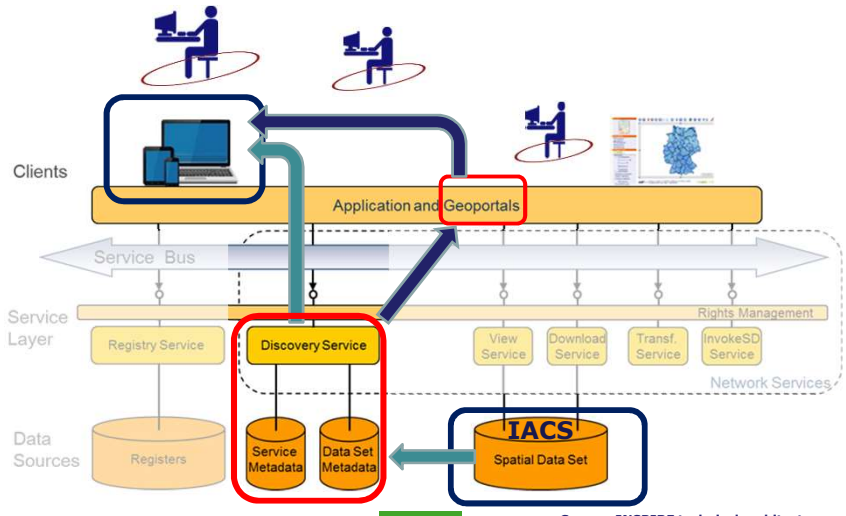
How to do that?

Objectives of the GIS Project

- **To construct a dashboard by participating country**
  - What data are available
  - Where to find them
  - What is still to be done
- **To create a GIS environment where an AGRI-user can easily and effectively access some IACS data**
  - Software to be used: ArcGIS and QGIS
  - What are main obstacles in **data integration**
  - What are main obstacles in **data use**

Process conducted by DG AGRI

Infrastructure



Source: INSPIRE technical architecture overview

Disclaimer

- DG AGRI considered, for the time being and taking its resource capacity into account, only the "metadata pilot MS" and "programmed joint visits AGRI-CLIMA MS" = 13 Member States
- Currently this GIS-trial does **not** provide a full inventory
- **Member States: please feel free to provide the link to your on-line IACS resources ☺**
- EC will update the table and provide you with assistance to create a set of compliant metadata to be registered in the INSPIRE portal, following fully-fledged rigorous JRC-designed method.

Continuation from the Valladolid workshop

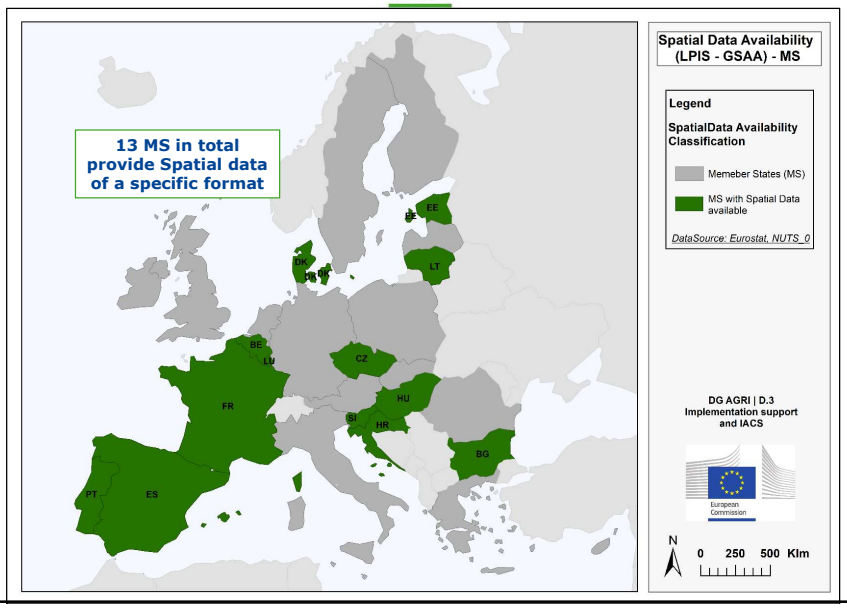
A table providing resource locators

"DISCOVERY SERVICE" 🙂

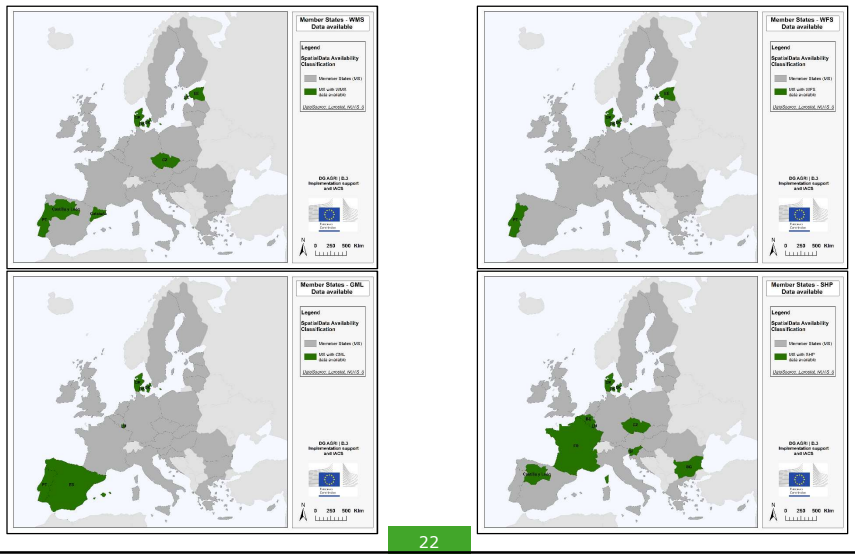
	Country	IACS portal access ("http")	Access through WMS	Access through WFS
1	ES	http://wms.mapama.es/wms/wms.aspx		
		http://sigpac.mapama.gob.es/fega/visor/		
		http://aplicacions.agricultura.gencat.cat/sigpac2/visor/		
			http://sig.gencat.cat.ows/AGRICULTURA/wms	
		http://www.sigpac.jcyl.es/visH5-1905/	https://idecyl.jcyl.es/geoserver/lc/wms?	
2	PT	https://publico-isip.ifap.pt/web/Index.aspx		https://ows-isip.ifap.pt/isip.data/o
3	FR	https://www.geoportail.gouv.fr/donnees/registre-parcellaire-graphique-rpg-2017	http://wxs.ign.fr/CLEF/geoportail/r/wms	http://wxs.ign.fr/CLEF/geoportail/
4	DK	https://www.geodata-info.dk/srv/api/records/470694c0-69fd-43ca-81b2-6f994972bc9f/formatters/xml		
		http://miljoegis.mim.dk/spatialmap?profile=lbst	http://geodata.fvm.dk/geoserver/wms?request=getcapabilities& .	
5	GR			
6	LU	https://map.geoportail.lu/theme/agriculture?version=3&zoom=8&X=667917&Y=6394482&lang=fr		
7	CZ	http://eagri.cz/public/app/lpisext/lpis/verejny2/plpis/	http://eagri.cz/public/app/wms/public_dotace.fcgi, http://eagri.cz/public/app/wms/public_DPB_PB_OPV.fcgi, http://eagri.cz/public/app/wms/public_eroze.fcgi, http://eagri.cz/public/app/wms/public_EVP_EFA.fcgi, http://eagri.cz/public/app/wms/public_ns.fcgi, http://eagri.cz/public/app/wms/public_podklad.fcgi	http://eagri.cz/public/app/wms/plpis.fcgi wfs.fcgi
8	HU	https://www.mepar.hu/mepar/		
9	SI	http://rkg.gov.si/GERK/WebViewer/		
10	BG	https://seu.dfz.bg/seu/f?p=727:8500:::NO:::		
11	HR	http://preglednik.arkod.hr/ARKOD-Web		
12	EE	http://inspire.maaamet.ee/map		
13	LT			

Total Grassland & Natura 2000 area available for all MS

IACS data available

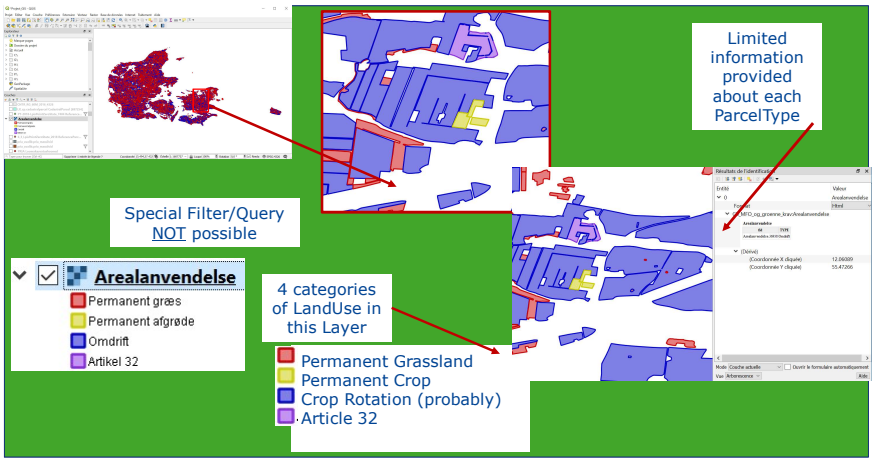


MS with WMS/WFS, GML AND .SHP Spatial Data



WMS of Denmark (LandUse data)

http://geodata.fvm.dk/geoserver/wms?request=getcapabilities& .



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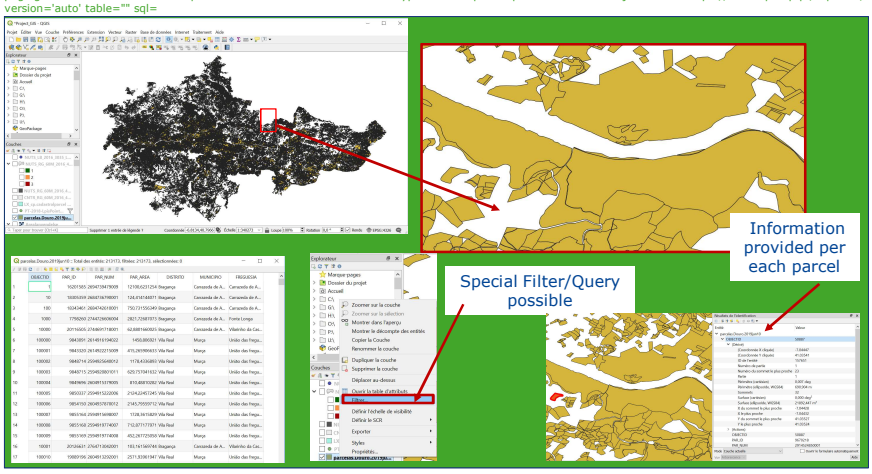
WFS of Portugal|intermunicipal community "Douro" (Parcels data)

pagingEnabled='true' restrictToRequestBBOX='1' srsname='EPSG:4326' typename='isip.data:parcelas.Douro.2019jun10' url='https://ows-isip.ifap.pt/isip.data/ows' version='auto' table="" sql=



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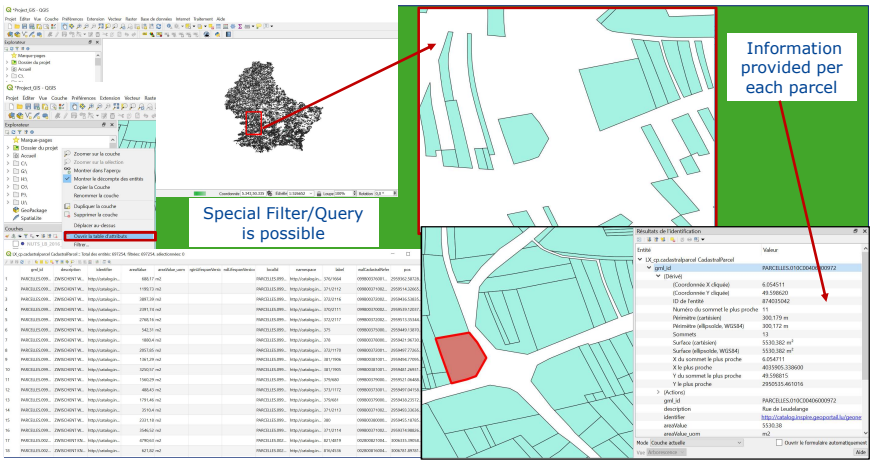
GML of Luxemburg (CadastralParcels data)

http://catalog.inspire.geoportail.lu/geonetwork/dataset/fd44bcae-cf83-4531-b42b-5aadf2de26d8



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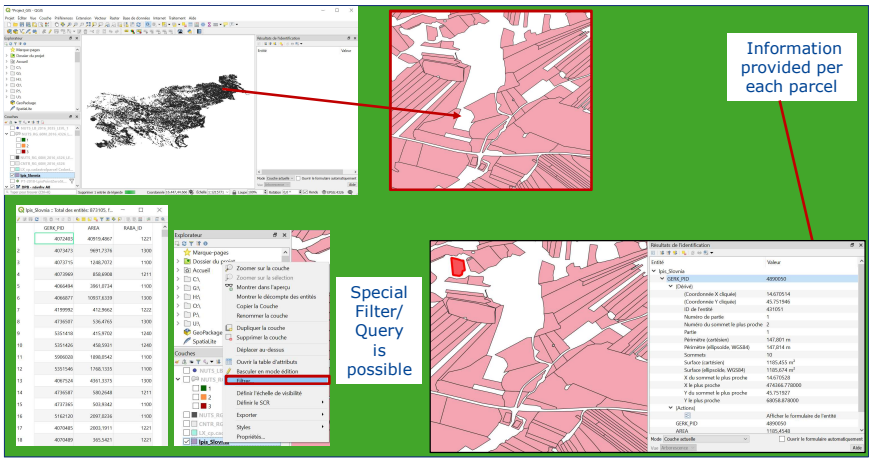
Shapefiles of Slovenia (LPIS data)

lpis.shp



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Q&A – clarification of INSPIRE for IACS

1. Document presented to the MS on 20 Feb 2019
2. Enriched with questions from MS
3. Second revision by the Legal Service (EC)
4. Final version received on 20 November 2019
5. Will be presented to the MS during an upcoming CDP (+CIRCABC)

Questions and Answers (Q&A)

- How do the INSPIRE legal provisions apply to IACS geographical data?
- What data, with whom and when?
- How? (from the legal point of view)

Q&A related to IACS spatial data in the context of INSPIRE

a) Stable information (LPIS) at reference parcel level:

- a stable identification of reference parcels;
- the Maximum Eligible Area (MEA) per reference parcel (i.e. the basis for eligibility for any scheme);
- an inventory of stable ecological focus areas (**EFA-layer**); and
- other area-related information[19] relevant for eligibility: e.g. areas with natural/specific constraints, Natura 2000 areas, Water Frame Directive, etc.

b) Yearly information provided through the beneficiary declaration (GSAA) at agricultural parcel level:

- boundaries and areas;
- the uses (by crop or crop group as defined by MS):
  - permanent grassland (geo-localised);
  - the uses on arable land for crop diversification (>10ha);
- individual Ecological Focus Areas; and,
- area-related rural development measures.

Conclusions from the workshop (harvested from MS)

- Further clarification of the legal provisions
- Technical support and assistance
- Hands-on training
- Area-related measures… I & II Pillar
- Links with indicators
- Use-cases to be implemented

Next steps

- Support of DG AGRI to MS will continue in 2020
  - in close collaboration with other DGs and the JRC

  Taking into account the results of:
  - The workshop (IACS data sharing Prague Nov 2019)
  - The workshop on data protection (PA's conference in Helsinki Nov 2019)

- e-mail address and contact point for IACS data sharing

- Make the data available as-is

- Harmonisation will come at a later stage, to be tune-in with use-cases

Workshop

1st IACS data sharing workshop
25 November 2019

Participants
BG, CZ, DK, ES, FR, LT, LU, PT, SI, PT
&
DG CLIMA

Thanks for the support

CZ Paying agency
L. Savelkova

JRC
P. Milenov
K. Toth

Thank you for your attention