

INSPIRE Geoportal Towards a new EU data ecosystem



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INSPIRE The geospatial pineapple

- One of the biggest geospatial data sharing initiatives in the world (7000+ providers).
- Multi-faceted Spatial Data Infrastructure framework
 - Legal: Directive, Implementing provisions, transposition in MS.
 - Organisational:
 - Governance structure with National contact points / structures, Multiple Commission Services.
 - Maintenance and Implementation Work programme;
 - Technical: Reusing building blocks from standardisation bodies (OGC, ISO, etc.)
 - Full stack of guidelines for discoverability, metadata, data encoding and data sharing.
- Status of implementation
 - Directive entered into force in 2007 / Roadmap finished by December 2021.
 - Lights and shadows. Objectives partially achieved. Heterogeneity of implementations across EU. Pan European coverage yet do be achieved.

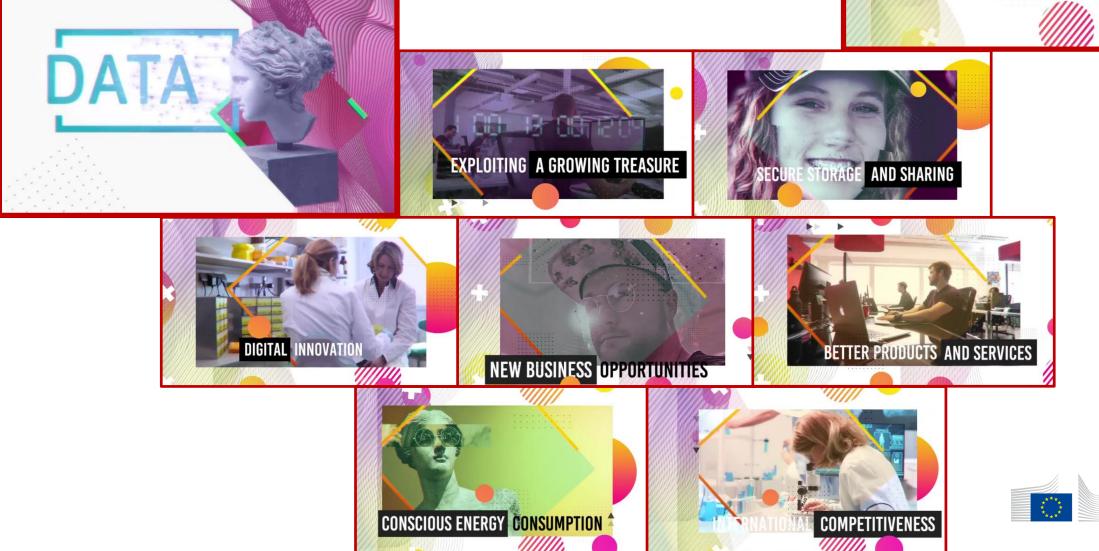




A new context is ahead New European digital society



European Commission



Adaptation New European legal framework

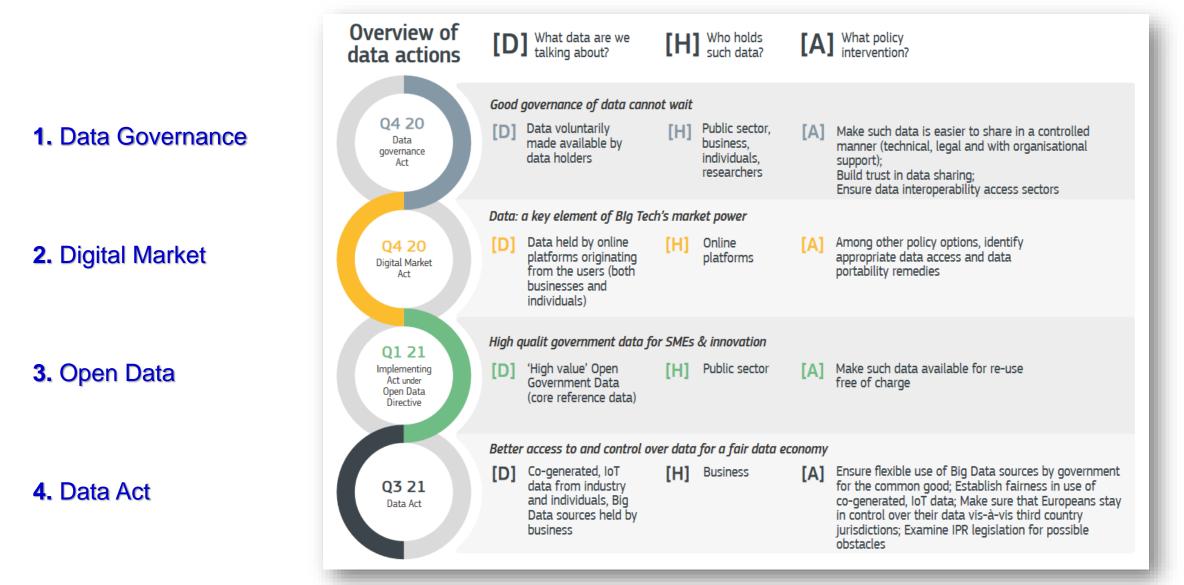
- "Europe fit for the Digital Age"
 - Priority of the European Commission.
- European Strategy for Data
 - Data Governance.
 - Digital Market.
 - Open Data Directive implementation.
 - Data Act.
- Open Data Directive (EU) 2019/1024
- INSPIRE Directive Directive 2007/2/EC
 - Evolution: Green Deal data space.



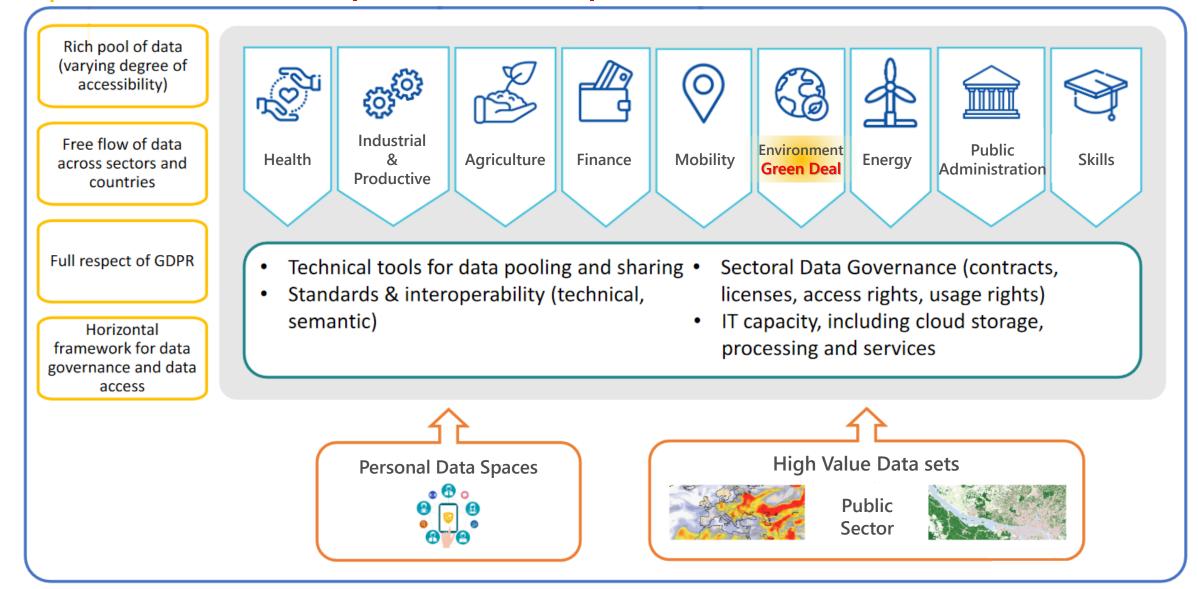




Implementation European Strategy for Data



Defining now the future! Sectoral European data spaces



INSPIRE Evaluation & Future JRC Science for Policy Report

• INSPIRE - A Public Sector Contribution to the European Green Deal Data Space

https://publications.jrc.ec.europa.eu/repository/handle/JRC126319

- Prepared by JRC, Geonovum and DG ENV.
- Sneak peek:
 - Overview of the status
 - Policy and technological context
 - Lessons learned
 - Vision for the technological evolution
 - Actions and roadmap
 - Prototype reference framework



INSPIRE Evaluation & Future Vision





- Evolution to a data ecosystem.
- Broadening the scope:
 - New sectors: public, private/businesses, academia.
 - New communities: developers, users.
- Widening the range of applications and use cases.
- Making the INSPIRE framework more simple, flexible and agile.
- Lowering the knowledge entry-level for implementing and/or using data.
- Reusing well-adopted and working standards and technologies.



Addressing the challenge Maintenance and Implementation Work programme (MIWP 2021-2024)

Context for modernising the technological framework of INSPIRE.

6 core actions

- 1.1 Towards a digital ecosystem for the environment and sustainability
- 2.1 Need-driven data prioritisation
- 2.2 Roadmap for priority-driven implementation
- 2.3 Simplification of INSPIRE implementation

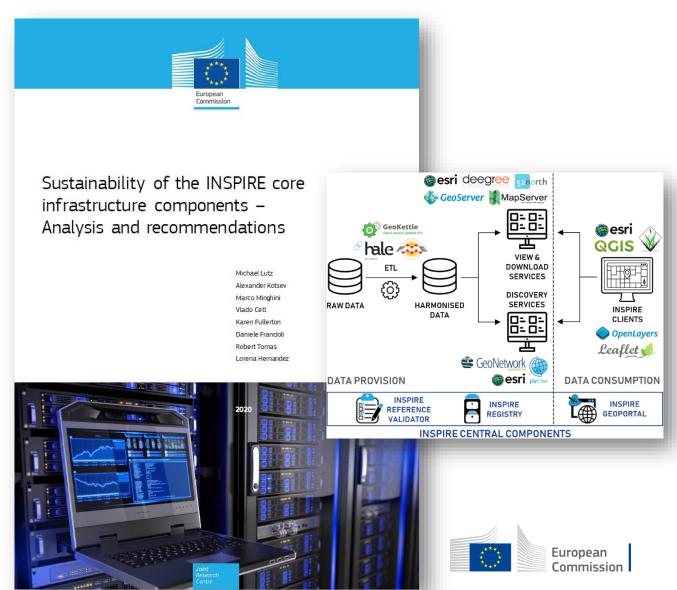
2.4 Central infrastructure components

3.1 GreenData4all initiative



Central INSPIRE Components Sustainability approach

- Sustainability of the INSPIRE core infrastructure components
 - Support by tools is the default.
 - Build strategic partnerships with communities: OSGeo, GeoNetwork
 - Focus on the INSPIRE-specificity and not on mainstream tool development.
 - Harmonise the approaches for helpdesk.
 - Decouple tools from infrastructure.
 - Extensive use of the cloud.



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INSPIRE Geoportal What we have

https://inspiregeoportal.ec.europa.eu

Main access point to INSPIRE Infrastructure tools and resources.

• Own development (GeoNetwork, in near future).



INSPIRE GEOPORTAL

Enhancing access to European spatial data

European Commission > INSPIRE > Geoportal

🕷 Home 🛛 🖃 Priority Data Sets Viewer 🔹 📰 Thematic Viewer 🔹 🗳 Harvesting status 📲 Find out more about 🔹

Welcome to the INSPIRE Geoportal

The INSPIRE Geoportal is the central European access point to the data provided by EU Member States and several EFTA countries under the INSPIRE Directive. The Geoportal allows:

- · monitoring the availability of INSPIRE data sets;
- discovering suitable data sets based on their descriptions (metadata);
- · accessing the selected data sets through their view or download services.

The metadata used in the Geoportal are regularly harvested from the discovery services of EU Member States and EFTA countries. The status of harvesting is available here.

Feedback regarding the functionality as well as data set availability is welcome here.



allows filtering by environmental domain, environmental legislation

Browse Priority Data Sets

and country, as well as individual priority data sets.

INSPIRE Thematic Viewer

Credits: Map data: Google Map style: snazzymap 1con: INSPIRE

The application displays the availability and provides access to all EU MS data sets falling under the scope of INSPIRE Directive filtered by data themes and countries (i.e. Annex I, II and III).

Browse INSPIRE Thematic Data Sets

INSPIRE Reference Validator

The validator application is to help data providers, solution providers and national coordinators to check whether their data sets, network services and metadata meet the requirements defined in the INSPIRE Technical Guidelines.

The validation tests are based on the Abstract Test Suites agreed between Member States and the Commission in the INSPIRE Maintenance and Implementation Group.



INSPIRE Geoportal What we have

https://inspiregeoportal.ec.europa.eu

Main access point to INSPIRE Infrastructure tools and resources.

- Own development (GeoNetwork, in near future).
- Focus: INSPIRE M&R.





Select a COUNTRY

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Version: 1.5.0

INSPIRE Geoportal

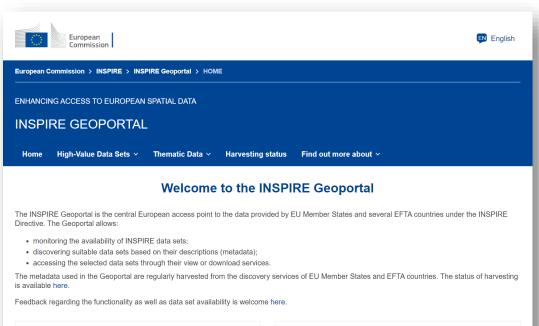
INSPIRE Geoportal Revamp

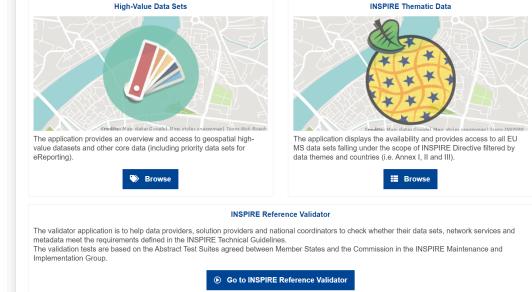
Objectives

- Geoportal Backend: Ongoing
 - Migration to a GeoNetwork-based architecture.
 - Functionality of the current Geoportal is maintained.
 - Improved Harvesting processes and performance (use of micro-services).
 - Migration to a cloud environment: assure system availability / scalability.
- Geoportal Frontend: Ready + Backend integration ongoing
 - New UI filtering INSPIRE datasets according to High-Value Datasets.
 - Launch still waiting for the publication of the HVDs Implementing Act.

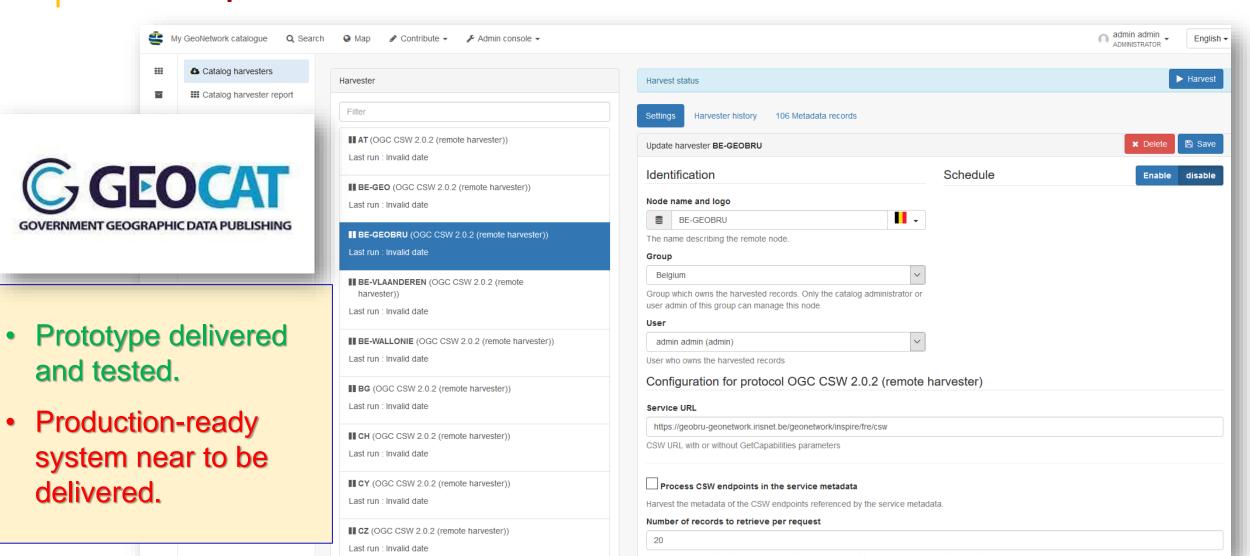
INSPIRE Geoportal Revamp: Frontend

- Ready Filtering by High Value Datasets (HVDs). To be launched when the Implementing Act on HVDs is published and enters into force.
- Ongoing Additional developments are currently on-going for integrating the UI to the new GeoNetwork backend.





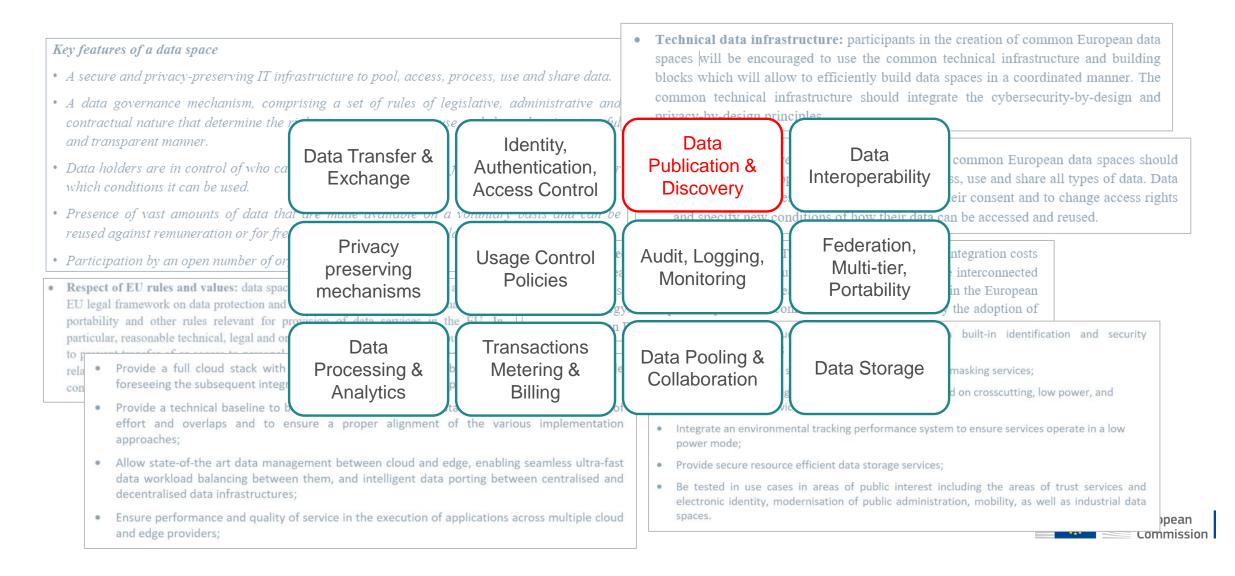
INSPIRE Geoportal Revamp: Backend



INSPIRE Geoportal future: Data spaces Analysis of relevant data sharing initiatives



INSPIRE Geoportal future: Data spaces Analysis of technical and non-technical requirements





INSPIRE Geoportal future: Data spaces Data spaces Cookbook (ongoing)

- JRC knowledge base to provide an easy entry point for data spaces stakeholders to JRC findings.
 - Ingredients: JRC research findings from articles, reports.
 - Mapped to the technical and non-technical requirements for data spaces as defined in:
 - The European Strategy for Data and SWD(2022) 45 final.
- Co-created and validated by different services (ENV, SANTE, GROW, DIGIT, JRC, AGRI, CNECT).
- Two products derived from the same knowledge base:
 - Living document (online).
 - Interactive component (chatbot, Q&A system).
- Complements the Data Spaces Support Centre and European Innovation Board.
- Some reflections for the future in the presentation after lunchbreak!



Keep in touch



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Thank you!

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