



INSPIRE Geoportals

JRC INSPIRE Team



74th MIG-T meeting – April 28, 2023

INSPIRE Geoportal Revamp

<https://inspire-geoportal.ec.europa.eu>

Main access point to INSPIRE Infrastructure tools and resources.

- Main focus: INSPIRE M&R.
- Revamp on-going using the GeoNetwork-based backend.

The screenshot shows the INSPIRE Geoportal interface. At the top, there is a navigation bar with the European Commission logo and the text 'INSPIRE GEOPORTAL Enhancing access to European spatial data'. Below this is a secondary navigation bar with links for Home, Priority Data Sets Viewer, Thematic Viewer, Harvesting status, and Find out more about. The main content area is titled 'INSPIRE Data Sets - EU & EFTA Country overview'. It features a map of Europe with a 'Hover over a country' tooltip. To the right of the map is a 'Statistics' panel with three yellow and blue boxes: '84729 Metadata records', '57494 Downloadable Data Sets', and '57704 Viewable Data Sets'. Below the map is a 'Select a COUNTRY' section with a grid of country names, flags, and icons representing metadata records, downloadable data sets, and viewable data sets. At the bottom right, there is a 'Download stats' button. The footer contains 'INSPIRE Geoportal' and 'Version: 1.6.2'.

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

INSPIRE Data Sets - EU & EFTA Country overview

INSPIRE Geoportal Data Set Statistics

- 84729 Metadata records
- 57494 Downloadable Data Sets
- 57704 Viewable Data Sets

Spatial scope coverage: National Regional

Select a COUNTRY

Austria	692 461 447	Finland	651 263 238	Latvia	157 99 96	Portugal	503 257 272
Belgium	593 521 525	France	218 75 17	Liechtenstein	70 11 12	Romania	108 38 39
Bulgaria	305 110 103	Germany	71854 53004 53644	Lithuania	132 132 60	Slovakia	257 164 167
Croatia	147 42 95	Greece	45 43 44	Luxembourg	309 288 277	Slovenia	98 48 59
Cyprus	42 32 34	Hungary	121 23 20	Malta	150 145 148	Spain	242 183 186
Czech Republic	91 74 79	Iceland	95 47 0	Netherlands	217 131 135	Sweden	243 191 200
Denmark	202 95 98	Ireland	80 52 51	Norway	161 71 28	Switzerland	218 2 4
Estonia	88 54 59	Italy	6498 755 487	Poland	147 83 80		

Select the whole EUROPE

Download stats

INSPIRE Geoportal Version: 1.6.2

INSPIRE Geoportal

Revamp – User interface

User interface

- **Ready to be launched** – New user interface integrated within the new GeoNetwork backend.
- Including filtering by High Value Datasets (HVDs).

Based on Implementing Act on HVDs.

The screenshot shows the INSPIRE Geoportal homepage. At the top, there is the European Commission logo and the text 'European Commission'. A language selector shows 'EN English'. Below this is a navigation breadcrumb: 'European Commission > INSPIRE > INSPIRE Geoportal > HOME'. A dark blue header contains the text 'ENHANCING ACCESS TO EUROPEAN SPATIAL DATA' and 'INSPIRE GEOPORTAL'. A secondary navigation bar includes links for 'Home', 'High-Value Data Sets', 'Thematic Data', 'Harvesting status', and 'Find out more about'. The main content area starts with a 'Welcome to the INSPIRE Geoportal' section, followed by a paragraph explaining the portal's purpose and a bulleted list of functions: monitoring data set availability, discovering data sets based on metadata, and accessing data sets. Below this is a section for 'High-Value Data Sets' featuring a map with a color palette icon and a 'Browse' button. Next to it is a section for 'INSPIRE Thematic Data' featuring a map with a star-patterned apple icon and a 'Browse' button. At the bottom, there is a section for the 'INSPIRE Reference Validator' with a 'Go to INSPIRE Reference Validator' button.

European Commission > INSPIRE > INSPIRE Geoportal > HOME

ENHANCING ACCESS TO EUROPEAN SPATIAL DATA

INSPIRE GEOPORTAL

Home High-Value Data Sets Thematic Data 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](#).


High-Value Data Sets



The application provides an overview and access to geospatial high-value datasets and other core data (including priority data sets for eReporting).

[Browse](#)

INSPIRE Thematic Data



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 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.

[Go to INSPIRE Reference Validator](#)

INSPIRE Geoportal

Revamp – Backend: GeoNetwork (AWS cloud)



- Prototype:
Available and revised
- Working system:
Delivered
JRC Testing finished
Rollout on-going

The screenshot displays the 'My GeoNetwork catalogue' interface. On the left, a sidebar shows 'Catalog harvesters' and 'Catalog harvester report'. The main area is divided into two panels. The left panel, titled 'Harvester', lists several harvesters: AT, BE-GEO, BE-GEOBRU (highlighted), BE-VLAANDEREN, BE-WALLONIE, BG, CH, CY, and CZ. Each entry shows its type (OGC CSW 2.0.2 remote harvester) and 'Last run' status (Invalid date). The right panel shows the configuration for 'BE-GEOBRU'. It includes a 'Harvest status' bar with a 'Harvest' button, tabs for 'Settings', 'Harvester history', and '106 Metadata records', and buttons for 'Delete' and 'Save'. The configuration is split into 'Identification' and 'Schedule' sections. Under 'Identification', there are fields for 'Node name and logo' (BE-GEOBRU with a Belgium flag), 'Group' (Belgium), and 'User' (admin admin (admin)). Under 'Schedule', there is a 'Service URL' field and a checkbox for 'Process CSW endpoints in the service metadata'. A 'Number of records to retrieve per request' field is set to 20.

Used for the Monitoring and Reporting 2022

Revamped INSPIRE Geoportal Status and On-going work

Harvesting console

- New harvesting console available. On request for large catalogues (DE, IT).

Testing

- How to improve reliability and performance (e.g. database ingestion)
 - Tuning configuration for each service component (service interaction, memory assignation).
 - Periodical cleaning of RAM memory.

Security assessment

- Some vulnerabilities identified during the (internal) security assessment.
- Looking for additional stakeholders willing to collaborate in stabilizing GeoNetwork v4.2

Revamped INSPIRE Geoportal rollout

- Precondition: Resolve system vulnerabilities and EU Login integration.
- On-going: Preparation of documentation for security assessment (JRC).

Revamped INSPIRE Geoportal

Next steps

Revamped INSPIRE Geoportal rollout

- **On-going work** – Objective: in time for the Monitoring and Reporting work.

Preparing new service contract

Backend fine tuning

- Improvement of dataset accessibility analysis, including INSPIRE identifier checks and ATOM feeds processing.
 - Improve support for (complex) OGC Filters in GeoNetwork.
 - Solve the anomaly on accessibility of datasets (downloadable and viewable indicators).

Data-service Linking Simplification

- Complete the implementation of the good practice in the Geoportal (and Validator).

Completing missing functionalities from the Classic INSPIRE Geoportal

Thank you!



jordi.escriu@ec.europa.eu

© European Union 2023

Unless otherwise noted the reuse of this presentation is authorised under the [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/) license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.



Keep in touch



EU Science Hub: ec.europa.eu/jrc



@EU_ScienceHub



EU Science Hub – Joint Research Centre



EU Science, Research and Innovation



Eu Science Hub