



MIWP Action 2.4 Central INSPIRE Infrastructure Components

INSPIRE Geoportals

JRC INSPIRE Team

70th MIG-T meeting – July 7, 2022

INSPIRE Geoportal Revamp

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

Main access point to INSPIRE Infrastructure tools and resources.

- Based on own development.
- Main focus: INSPIRE M&R.
- Being revamped using a 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 breadcrumb trail: 'European Commission > INSPIRE > Geoportal'. A secondary navigation bar contains 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 statistics is a 'Spatial scope' section with radio buttons for 'National coverage' and 'Regional'. At the bottom of the map area is a 'Select a COUNTRY' section with a grid of country names, flags, and icons representing data set counts. A 'Download stats' button is located at the bottom right of the page. 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: National coverage 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

- **Available** – Filtering by High Value Datasets (HVDs).

To be launched when the Implementing Act on HVDs is entering into force.

- **Ongoing** – Additional developments to integrate the new user interface with the new backend: GeoNetwork.

The screenshot shows the INSPIRE Geoportal homepage. At the top, there is the European Commission logo and a language selector set to 'English'. Below the header, a navigation menu includes 'Home', 'High-Value Data Sets', 'Thematic Data', 'Harvesting status', and 'Find out more about'. The main content area features a 'Welcome to the INSPIRE Geoportal' section with a brief introduction and a list of key functionalities: monitoring data set availability, discovering data sets based on metadata, and accessing data sets for view or download. Below this, there are two main sections: 'High-Value Data Sets' and 'INSPIRE Thematic Data'. Each section includes a map-based icon (a color palette for HVDs and an apple for Thematic Data) 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 | EN English

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 (in the cloud)



- Prototype:
Available and revised
- Working system:
Delivered
JRC Testing finished
GeoCat polishing
remaining issues

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 name, protocol (OGC CSW 2.0.2), and status (remote harvester). The right panel shows the configuration for the selected 'BE-GEOBRU' harvester. It includes sections for 'Harvest status' (with a 'Harvest' button), 'Settings' (with 'Harvester history' and '106 Metadata records'), and 'Update harvester BE-GEOBRU' (with 'Delete' and 'Save' buttons). The configuration is split into 'Identification' and 'Schedule' tabs. Under 'Identification', there are fields for 'Node name and logo' (BE-GEOBRU), 'Group' (Belgium), and 'User' (admin admin (admin)). Under 'Schedule', there is a 'Service URL' field containing 'https://geobru-geonetwork.irisnet.be/geonetwork/inspire/fre/csw' and a checkbox for 'Process CSW endpoints in the service metadata'. At the bottom, there is a field for 'Number of records to retrieve per request' set to 20.

INSPIRE Geoportal

Testing - Overview

- **Special thanks to Davide Artasensi & GeoCat for the HUGE technical work.**
- Testing of the new GeoNetwork backend is finished by JRC:
 - Harvesters of all MS and EFTA countries endpoints were tested.
 - Overall, acceptable results - Not perfect.
 - Performance approximately reduced to 1/3 (depending on endpoint).
 - Issues (due to national infrastructure specificities) pending to be resolved.

GeoCat still working in polishing the system (workarounds + smart solutions).

- 2 endpoints harvesters almost solved (HU, PL).
- 3 endpoints harvesters under analysis (SK, BE md Vlaanderen, DE).

INSPIRE Geoportal

Testing - Preliminary results

HARVESTING
BETTER RESULTS
SLIGHT DECREASED RESULTS
RELEVANT DECREASED RESULTS
UNSUCCESSFUL
NO COMPARISON AVAILABLE

INDICATORS
DECREASE IN INDICATOR

COUNTRY	OLD GEOPORTAL							NEW GEOPORTAL (GN Sandbox)							
	Harvest date	Aprox. Processing time	N. dataset metadata	N. series metadata	N. service metadata	N. viewable datasets	N. download. datasets	Harvest date	Aprox. Processing time	N. metadata records	N. dataset metadata	N. series metadata	N. service metadata	N. viewable datasets	N. download. datasets
AT	09/06/2022	-	689	0	608	483	458	10/06/2022	15 min	1305	695	0	610	502	672
BU	10/06/2022	13 min	173	0	35	20	29	10/06/2022	3 min	144	135	0	8	81	82
CH	05/05/2022	-	204	3	33	4	2	10/06/2022	5 min	251	206	3	33	4	2
CY	04/05/2022	-	42	0	61	32	33	10/06/2022	2 min	103	42	0	61	39	34
CZ	10/06/2022	10 min	66	25	195	79	74	10/06/2022	5 min	286	66	25	195	78	62
DK	10/06/2022	-	154	0	246	98	81	10/06/2022	4 min	451	205	0	246	100	84
EE	04/05/2022	-	86	1	121	57	52	10/06/2022	3 min	215	87	1	127	58	54
EL	10/06/2022	10 min	45	0	98	32	22	10/06/2022	2 min	143	45	0	98	44	43
ES	27/05/2022	-	241	1	300	186	183	10/06/2022	8 min	542	241	1	300	199	165
FI	01/06/2022	-	576	75	213	238	263	10/06/2022	10 min	879	594	68	215	241	281
FR	10/06/2022	18 min	172	55	55	2	54	10/06/2022	5 min	285	174	55	56	39	3
HR	11/06/2022	2h 50 min	132	15	224	93	40	12/06/2022	6 min	371	132	15	224	95	39
HU	05/05/2022	-	120	0	63	12	15	10/06/2022	3 min						
IE	10/06/2022	20 min	79	0	23	51	50	10/06/2022	2 min	102	79	0	23	51	45
IS	25/05/2022	-	95	0	27	0	47	10/06/2022	4 min	371	212	0	37	EMPTY	EMPTY
LT	24/05/2022	-	132	0	125	60	132	10/06/2022	4 min	257	132	0	125	60	132
LV	10/06/2022	-	156	1	240	96	99	10/06/2022	4 min	398	157	1	240	94	88
LU	11/06/2022	17 min	309	0	59	271	288	11/06/2022	6 min	368	309	0	59	278	304
LI	05/05/2022	-	71	0	3	12	11	11/06/2022	2 min	74	71	0	3	12	11
MT	25/05/2022	-	150	0	150	146	144	11/06/2022	4 min	300	150	0	150	145	141
NL	07/06/2022	-	213	2	345	133	129	11/06/2022	9 min	607	227	2	378	151	140
NO	12/06/2022	46 min	140	5	245	26	74	11/06/2022	4 min	390	140	5	245	28	62
PL	05/05/2022	-	143	4	246	56	68	11/06/2022							
PT	17/05/2022	-	500	5	528	260	261	11/06/2022	19 min	1033	500	5	528	372	326
RO								15/06/2022	?	183	106	1	76	39	38
SE	08/06/2022	-	243	0	220	200	191	15/06/2022	?	472	247	0	225	211	215
SI	12/06/2022	8 min	98	0	131	57	47	11/06/2022	5 min	229	94	0	131	59	49
SK	04/05/2022		255	2	403	167	164	11/06/2022							
GE	17/05/2022	-	71254	602	126905	53644	53004	20/06/2022							
BE1 (Federal)	06/05/2022	-	95	1	48	78	81	12/06/2022	3 min	144	95	1	48	78	82
BE2 (Geobru)	07/06/2022	-	56	0	50	43	40	12/06/2022	2 min	106	56	0	50	44	56
BE3 (Wallonie)	17/05/2022	-	127	42	43	165	166	12/06/2022	3 min	212	127	42	43	165	167
BE4 (MD Vlaan)	02/06/2022	-	258	20	98	243	94	12/06/2022							
IT	12/06/2022	-	6941	142	3139	514	879	12/06/2022	~ 11 hours	8708	6502	141	2065	559	472

INSPIRE Geoportal

Testing - Next steps

- Time to start the Beta testing of the system by outreaching MS and EFTA countries.
Opportunity to provide direct input to solve specific issues and make refinements of the system.
- Adapted INSPIRE Geoportal UI should be ready by end September 2022.
- The revamped INSPIRE Geoportal will be used in the next M&R round.

INSPIRE Geoportal

Beta testing with MS and EFTA countries

- INSPIRE Geoportal Beta Testing

- 1st short training session (~1 hour) to allow them use the harvester, explore and test it.
 - Using GeoNetwork Sandbox instance.
 - [15th July 2022](#) - The meeting will be recorded and shared (password protected).
- Provision of authentication details for accessing the instance:
 - To be requested by those MS / EFTA countries willing to participate in the testing.
 - **Deadline: 18th July** – How: Sending an email to JRC-INSPIRE-SUPPORT@ec.europa.eu
- Opening an Ad-hoc Online Survey to provide MS / EFTA countries feedback.
 - [22nd July 2022](#)
- 2nd training session (~6 hours), based on the analysis of the survey results.
 - Using the new INSPIRE Geoportal AWS cloud instance.
 - Including also training on the new Geoportal UI + Publication System.
 - [TBD - End September 2022](#)

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Thank you!



Jordi.ESCRIU@ec.europa.eu



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