



Service Public
Fédéral
FINANCES

ACCESS TO INTEROPERABILITY CHECKING TOOLS

2021-07-12



GLOBAL OVERVIEW

- INSPIRE gestion in the Member-states
 - Each administration is responsible for her datasets/services
 - Administration in charge of the push to the EU portal cannot fix interoperability problems of other administrations' datasets and services
- INSPIRE interoperability checks
 - Based on the manual push
 - Global results are invisible for unauthenticated persons
 - ➔ Useless for the involved administrations



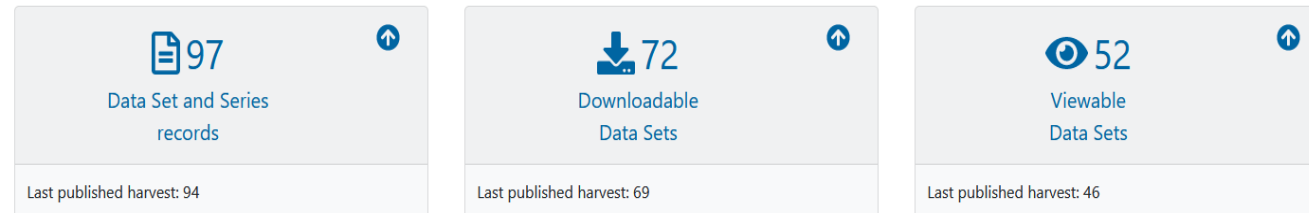
EXISTING CHECKS

- Datasets global interoperability monitoring

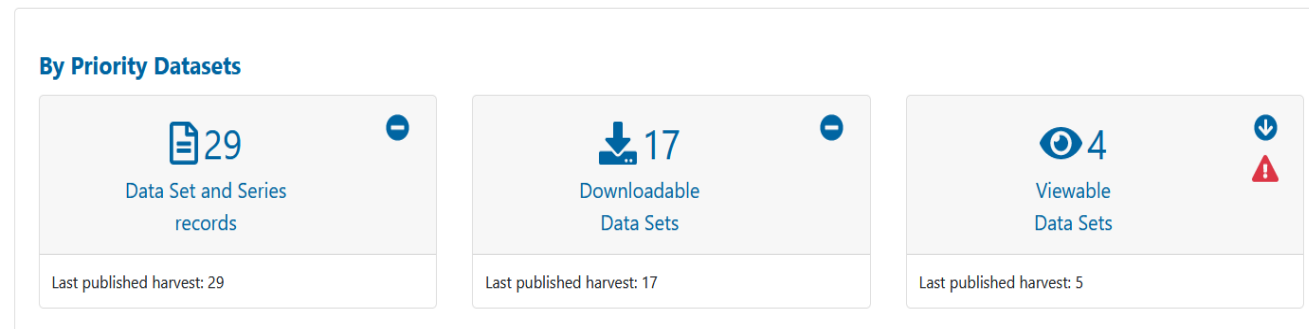
Harvesting report

 Executed on 2021-07-08 11:06:02. Retrieved metadata records count: 138

Complete overview of the harvest session



Filtered results





EXISTING CHECKS

- Unfully interoperable datasets monitoring

INSPIRE Geoportal Harvest console

Resource title	Resource FileId	Responsible organization	View service	Download service	Download link	Details
Geological map of Belgium (1:250000)	4df0c9b9-61d9-4895-8872-4776ff2c9af2	Royal Belgian Institute for Natural Sciences, Directorate Earth and History of life, Geological Survey of Belgium (GSB)	Not available	Not available	Not available	View the details
Population demographic characteristics dataset in support of the Marine Strategy Framework Directive (MSFD) Descriptor 1 (D01C03, 2018 Reporting)	bmdc.be:dataset:2036	Royal Belgian Institute for Natural Sciences (RBINS), Directorate Natural Environment (OD Nature), Belgian Marine Data Centre (BMDC) Instituut voor Natuur- en Bosonderzoek / Research Institute for Nature and Forest (INBO)	Not available	Not available	Not available	View the details



EXISTING TOOLS

- Datasets and services interoperability monitoring

Resources In This Group Needing Review

Spatial data set			
Hydro - Physical Waters (National Geographic Institute)	Population distribution per statistical sector-Belgium (FPS Economy, SMEs, Self-Employed and Energy, Statistics Belgium)	Hydro - Network (National Geographic Institute)	Top10Vector – Particular Zones (National Geographic Institute)
Administrative units - Provinces (FPS Finances - General Administration of Patrimonial Documentation (GAPD))	ROB Seismic and Accelerometric Stations (Royal Observatory of Belgium)	Top10Vector – Constructions (National Geographic Institute)	Administrative units - Countries (FPS Finances - General Administration of Patrimonial Documentation (GAPD))
Radon levels in Belgium (Royal Belgian Institute for	Air quality assessment zones of Belgium (Belgian	Interpolated air quality maps of Belgium (Belgian	Marine Reporting Units in the Belgian Part of the
Spatial data set series			
Administrative units (FPS Finances - General Administration of Patrimonial Documentation (GAPD))			
Spatial data service			
INSPIRE download service for the 2014 Marine Spatial Plan-WFS (Royal Belgian Institute for Natural Sciences, Directo...	INSPIRE view service for the core sample collection dataset-WMS (Royal Belgian Institute for Natural Sciences, Direc...	Download service - Royal Observatory of Belgium (Royal Observatory of Belgium)	View service - Royal Observatory of Belgium (Royal Observatory of Belgium)
View service - Orthophotos (National Geographic Institute)	INSPIRE download service for the 2019 Marine Spatial Plan-WFS (Royal Belgian Institute for Natural Sciences, Directo...	INSPIRE View Service - FPS Economy (FPS Economy, SMEs, Self-Employed and Energy, Statistics Belgium)	INSPIRE view service for general marine datasets-WMS (Royal Belgian Institute for Natural Sciences, Directorate Natu...
Discovery Service - resources entered for the	View service Air Quality Data Belgium - WMS	Federal download service (National Geographic	INSPIRE view service for the 2019 Marine Spatial



EXISTING TOOLS

- Datasets and services interoperability monitoring

Layers Needing Review

1	2	3	4	5	6	7
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Schema Validation Issues

Relevant documentation:

- See *INSPIRE Metadata Implementing Rules: Technical Guidelines based on EN ISO 19115 and EN ISO 19119 (Version 1.2)*

Validation Schema(s) used for validation: 19139 XSchemas TS RC (2006 May 4)

- **In content of element <MD_Keywords>: Empty content is not allowed. Expected <Q{.../gmd}keyword>. at column 37, line 679**

INSPIRE Evaluation Potential Warning

- **The Get View Service Metadata Response has validation warnings**

Relevant documentation:

- See *Technical Guidance for the implementation of INSPIRE View Services (Version 3.11)*

Expert documentation

- *UML Requirement Diagram*

A copy of the original source file is available [here](#) (Media Type application/vnd.iso.19139+xml)

```

+<gmd:MD_Metadata xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:geonet="http://www.fao.org/geonetwork" xmlns:xsi="http://www.w
/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/srv http://schemas.opengis.net/iso/19139/20060504/srv/srv.xsd">
</gmd:MD_Metadata>

```

INSPIRE Resources Interoperability Aspects (Documentation)

Verified	Missing	Unverified (rea
<ul style="list-style-type: none"> • NETWORK_SERVICE_MATCHING_SERVICE_IS_AVAILABLE • RESOURCE_METADATA_IS_COMPLETE • NETWORK_SERVICE_MATCHING_SERVICE_HAS_COMPLETE_METADATA 	<ul style="list-style-type: none"> • CHILDREN_INTEROPERABILITY 	



EXISTING TOOLS

- Many tools are available for CSW administrators
 - Global summary of interoperability of datasets and services (slide 4)
 - Problems concerning unvisibile or undownloadable datasets (slide 5)
 - Global overview of unvisibile/undownloadable datasets AND unfully interoperable services (slide 6)
- None for the datasets/services custodians



PROPOSITION

- Proposition 1 : making global summary accessible to all unauthenticated persons (or giving access to anyone asking for it)
- Proposition 2 : making rapport concerning unvisible/undownloadable accessible for all unauthenticated persons (or giving access to anyone asking for it)
- Proposition 3 :
 - making global overview of unvisible/undownloadable datasets AND unfully interoperable services more user friendly
 - Making it compliant with TG 2.0
 - Making it accessible to all unauthenticated persons (or giving access to anyone asking for it)