"What's new in INSPIRE"

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DIGITALLY ENABLED DEVELOPMENT

ENGAGING STAKEHOLDERS IN EASTERN
EUROPE FOR A SUSTAINABLE FUTURE

19 September 2019, Vrdnik, Serbia

Joint Research Centre
The European Commission's science and knowledge service

INSPIRE Directive – Where are we in 2019?

in force since 2007

https://inspire.ec.europa.eu/inspire-roadmap

- Coherent legal framework is in place
- New Geoportal – single access point to EU SDI is in place

2005 - 2014   2007 - 2021   2014 - ...

1   2   3

draft   implement   use

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INSPIRE Directive – Better regulation, Refit, Mid-term evaluation (2014-2016)

Main results from "Commission stock taking exercise":

- MS data access & use **simplification = New INSPIRE GEOPORTAL, Tools, Pilots**
- Better Regulation in e-reporting = **re-use** of INSPIRE **= Priority data sets for e-reporting**
- Revision of Monitoring and Reporting Decision
- Revision of EC Regulation on spatial data an service interoperability

Hiding complexity → More flexibility

New Maintenance and Implementation Work Plan MIWP 2016-2020

JRC TECHNICAL REPORTS
Summary Report on Status of implementation of the INSPIRE Directive in EU

https://webgate.ec.europa.eu/fpfis/wikis/pages/viewpage.action?pageId=268249090

INSPIRE – State of Play

in force since 2007

Agenda

- INSPIRE Data accessibility & usability
  - MIWPs 2019.2, 2017.2, 2017.3
- Priority data sets for e-Reporting
  - MIWP 2016.5
- Validation & conformity testing
  - MIWP 2017.4
- New INSPIRE Monitoring & Reporting
  - MIWP 2018.1
- Capacity building, Community Forum, Conferences
  - MIWP 2016.4
- Short, long term INSPIRE activity, visions, UN SDGs

New INSPIRE GEOPORTAL
Officially launched 18.9. 2018 during the INSPIRE Conference 2018

- **Single access point** to EU Spatial Data Infrastructure
  - Harvests data (Metadata) from 36 national catalogues
  - 150 000+ data sets described (by Metadata)
  - 30 000 + data sets viewable (by View services)
  - 24 000 + data sets downloadable (by Download services)
- Based on the concept of "**THEMATIC VIEWS**":
  - **User-centric** = easy to use – set of predefined thematic views.
  - **Data sets-centric** = main goal is to get the data!!
  - **Provide clear & reliable overviews** of INSPIRE data sets availability.

http://inspire-geoportal.ec.europa.eu/

Improving MS data accessibility and usability MIWP 2019.2

in force since 2007

- INSPIRE Geoportal WS (Ispra 23-24.1)
  - Mobilizing the MS MD catalogue admins. (common planning)
  - Common understanding of Geoportal (backend, frontend systems + National SW environments)
- New system for harvesting of MS data (launched 31.3.)
  - MS in full control of the harvesting process
  - From "pull" to "push" method
- INSPIRE Resource Linkage Checker (beta version from 3.6.)
  - Checking linkages for MD (not yet harvested, harvested)
- Simplification of data x service linking – test (on-going)

More info:
https://webgate.ec.europa.eu/fpfis/wikis/display/InspireMIG/Action+2019.2%3A+Improving+accessibility+of+data+sets+through+network+services

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Alternative encodings for INSPIRE data – MIWP 2017.2

in force since 2007

Objectives:
- Define alternative encoding rules
- Emphasis on viewing/analysis in mainstream GIS
- Submit results as good practice

Results - the work of the sub-group is being completed

GeoJSON
http://geojson.org/

Outcomes:
- GeoJSON encoding rules (generic)
- Several model transformation rules
- GeoJSON encoding rules for simplified AD and EF (incl. observations)
- Glossary
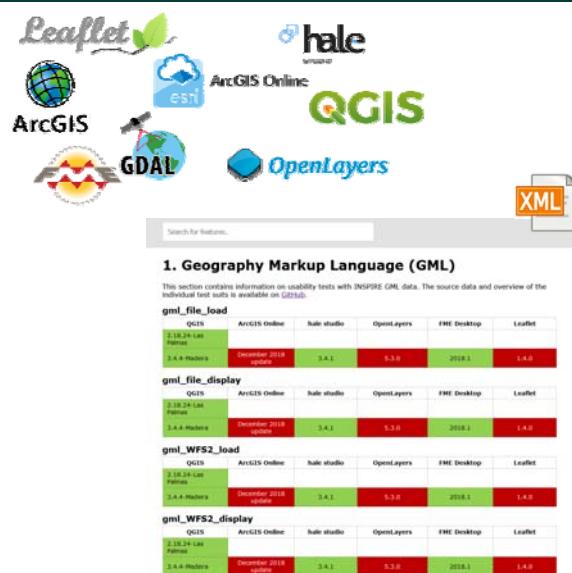- Examples
- Template for further encoding rules

More info: https://github.com/INSPIRE-MIF/2017.2

European Commission

Improved client support for INSPIRE data MIWP 2017.3

in force since 2007

Objectives:
- Identify usability issues
- Analyse issues
- Event with Vendors
- Roadmap

Outcomes:
- Preparation of test data
  – extended, enriched GML for AD, EMF
- Preparation of 9 ETL Tests
- Testing / Results of tests

More info: https://inspire-mif.github.io/caniuse/

Leaflet   hale

ArcGIS Online   QGIS

ArcGIS   GDAL   OpenLayers

XML

1. Geography Markup Language (GML)

This section contains information on usability tests with INSPIRE GML data. The source data and overview of the individual test suits is available on GitHub.

gml_file_load

gml_file_display

gml_WFS2_load

gml_WFS2_display

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Priority List of eReporting data sets
MIWP 2016.5. Action

Work Programme 2016-2020

4 Core Tasks:

T1: Manage and update the priority list of eReporting datasets

T2: Make **data available as-is**: identify datasets, document metadata, make metadata and data available on the **EU geoportal** by providing network services

T3: Common and **interoperable European data models** per reporting obligation/data flow that are fit for purpose for the envisaged use case.

T4: Monitor the availability of **pan-European data sets**

https://webgate.ec.europa.eu/fpfis/wikis/display/InspireMIG/Action+2016.5%3A+Priority+list+of+datasets+for+e-Reporting

2017.4 Validation & conformity testing

- Development of new Abstract and Executable Test Suites (**ATS**, **ETS**):
  - Metadata TG v. 2.0
  - View Services (WMS, WMTS)
  - Download Services (WCS, SOS)

- Development of new functionality of the **ETF Validator**:
  - improvement proposals status: https://github.com/orgs/etf-validator/projects/2

- **Helpdesk** support:
  - status of currently open requests:
    https://github.com/inspire-eu-validation/community/issues

MIWP 2018.1 - Streamlining the monitoring and reporting for 2019

Policy context

- A proposal for a EC Regulation on the "*alignment of reporting obligations in the field of environment policy*" was adopted on 31 May 2018
  - The adoption of the alignment proposal is replacing the tri-annual implementation report by an annual update of the summary report (country fiche)

- New *INSPIRE Reporting Decision* (adopted in August 2019)
  - The aim is to simplify & streamline monitoring and reporting, support better comparison of the implementation progress across Member States
  - Reduces the amount of indicators from 48 to 19 calculated based on the metadata for spatial data sets and spatial data services already created and published by Member States

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Capacity building, collaboration platforms, conferences
https://inspire.ec.europa.eu/

- **On-line collaborations**
  - INSPIRE Community Forum / Thematic Clusters: http://inspire.ec.europa.eu/forum
  - Good practises, implementation examples: https://inspire.ec.europa.eu/inspire-tools

- **Free SDI trainings**
  - Geospatial Knowledge Base (GKB) Training Platform: https://www.geo-train.eu/
  - INSPIRE web site / knowledge base: https://inspire.ec.europa.eu/

INSPIRE Knowledge base
https://inspire.ec.europa.eu/

Inspire Helsinki 2019
22–24 October, Finland

https://www.inspire-helsinki-2019.fi/

Technical INSPIRE event organized around:
- Technology workshops and hands on
- 4 selected data challenges
- Forward looking – inspiring invited talks

"Bringing sustainability and digitalisation together"
INSPIRE CONFERENCE 2020

12-15 May 2020
Dubrovnik, Croatia

https://inspire.ec.europa.eu/conference2020

INSPIRE
2019-2022

Short term:

Build a basic EU capacity for sharing spatial data to build on

Finalise on-going work on:

- IR updates (Interoperability, M&R)

- Geoportal & validation tools – improving MS data usability

- Simplification of network services to support existing and emerging technology

- Showcase the usage of priority data sets and wider core data sets in European and National use cases

- Data sharing and licensing

INSPIRE
2022-2030

Long term:

INSPIRE 2030 - towards a spatial data ecosystem for sustainability

- 2022 – INSPIRE Directive evaluation activity
  - Explore options to align/merge with other digital initiatives/legal acts (e.g. Access to environmental information Directive, Open data and PSI Directive …).
  - Enlarge the scope, including another partners (CNECT, GROW, DIGIT).
  - Create a package of measures (legal and non-legal) and a new multi-annual work programme to implement them.

INSPIRE & UN SDGs

UNGGIM: Europe

Working Group Core Data

- The working group has selected the following 14 INSPIRE themes as core data: GN, AD, AU, CP, TN, HY, EL, LC, OI, SU, BU, AM, LU, US (Basic government services)
- The concept of core data goes beyond the requirements of INSPIRE and aims at harmonising the quality of geospatial information in terms of scale, semantics, mandatory attributes, and temporal coherence.

Working Group Data Integration

- INSPIRE data for calculation of indicators

Thank you

Questions?

Make it work together

"*INSPIRE has been a pioneer of European digital society and economy*"
- by Roberto Viola, Director General DG CONNECT – during INSPIRE Conference 2017 (6-8.9.2017)