



European
Commission

INSPIRE Thematic Viewer - focus on users

Robert Tomas

DG JRC Digital Economy Unit

Czech & Slovak INSPIRE Conference "*Inspirujme se*" – Pruhonic, 27-28.2.2018



Content

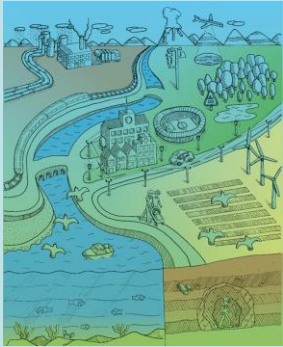
- Status of INSPIRE implementation
- Overview of selected MIWP 2017-2020 Activities
- INSPIRE Thematic Viewer



<http://inspire-geoportal.ec.europa.eu/thematicviewer/>

INSPIRE = pioneer in geospatial data interoperability in Europe

in force since 2007



INSPIRE
"lingua franca"
for
geospatial data

INSPIRE is to build an **EU-wide infrastructure for geospatial information** enabling:

- **interoperability** for public administration, businesses & citizens **in support** of the **DSM**
- **e-reporting & Better Regulation** in the env. domain
- **innovative applications** in other policy areas & cross border e.g. Intelligent Transport Systems, Energy efficiency, Disaster management..
- **culture change** in data management & provision practices in Public administration (all levels)



in **close collaboration** with
all types of stakeholders

(e.g. communities of practice, legally mandated organizations, solution providers..)

**Support to
SMEs**



**Stakeholders
engagement**



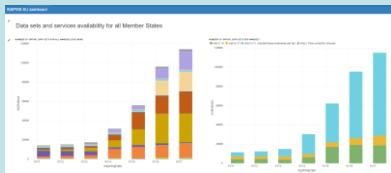
"INSPIRE has been a pioneer of European digital society and economy"

- by Roberto Viola, Director General DG CONNECT – during INSPIRE Conference 2017 (6-8.9.2017)

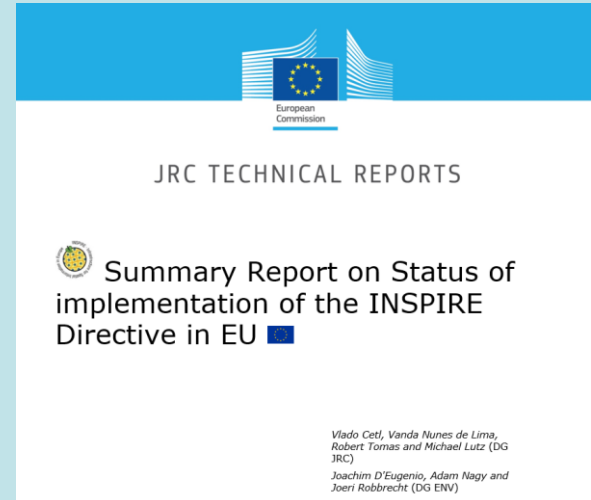
Status of INSPIRE implementation Summary Report 2017

Summary Report based on:

- 2016 tri-annual MS INSPIRE implementation reports and Action plans
- 2016 monitoring reports
- Bilateral meetings EC x MSs



The table provides a detailed overview of the implementation status for various data sets and services. It includes columns for the data set/service name, the status (e.g., 'Not available', 'Available'), and the responsible authority. The table is color-coded to indicate the status of each item.



<https://inspire.ec.europa.eu/documents/summary-report-status-implementation-inspire-directive-eu>

Status of INSPIRE implementation Summary Report 2017

Coordination

Table 3. Ensure effective coordination

MS	Overall implementation status and trend	Outlook	Dashboard Legend
AT			Implementation Status: : implementation of this provision is well advanced or (nearly) completed. Outstanding issues are minor and can be addressed easily. : implementation of this provision has started and made some progress but is still far from being complete. Outstanding issues are significant and need to be addressed to ensure that the objectives of the legislation can still be reached by 2020. : implementation of this provision is falling significantly behind or has not even started. Serious efforts are necessary to close implementation gap. Trends: : the trend of the implementation is positive. : the trend of the implementation is neutral. : the trend of the implementation is negative. Outlook: : clear and targeted actions have been identified which allow reaching the objectives of the legislation in an effective way. : No real progress has been made in the recent past or actions which have been identified are not clear and targeted enough to predict a more positive outlook. : no actions have been identified to overcome identified implementation gaps.
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Data sharing

Table 4. Data sharing without obstacles

MS	Overall implementation status and trend	Outlook	Dashboard Legend
AT			Implementation Status: : implementation of this provision is well advanced or (nearly) completed. Outstanding issues are minor and can be addressed easily. : implementation of this provision has started and made some progress but is still far from being complete. Outstanding issues are significant and need to be addressed to ensure that the objectives of the legislation can still be reached by 2020. : implementation of this provision is falling significantly behind or has not even started. Serious efforts are necessary to close implementation gap. Trends: : the trend of the implementation is positive. : the trend of the implementation is neutral. : the trend of the implementation is negative. Outlook: : clear and targeted actions have been identified which allow reaching the objectives of the legislation in an effective way. : No real progress has been made in the recent past or actions which have been identified are not clear and targeted enough to predict a more positive outlook. : no actions have been identified to overcome identified implementation gaps.
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Data identification

Table 5. Identification of spatial datasets

MS	Overall implementation status and trend	Outlook	Dashboard Legend
AT			Implementation Status: : implementation of this provision is well advanced or (nearly) completed. Outstanding issues are minor and can be addressed easily. : implementation of this provision has started and made some progress but is still far from being complete. Outstanding issues are significant and need to be addressed to ensure that the objectives of the legislation can still be reached by 2020. : implementation of this provision is falling significantly behind or has not even started. Serious efforts are necessary to close implementation gap. Trends: : the trend of the implementation is positive. : the trend of the implementation is neutral. : the trend of the implementation is negative. Outlook: : clear and targeted actions have been identified which allow reaching the objectives of the legislation in an effective way. : No real progress has been made in the recent past or actions which have been identified are not clear and targeted enough to predict a more positive outlook. : no actions have been identified to overcome identified implementation gaps.
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Source: V. Cefl, V. Nunes de Lima, R. Tomas, M. Lutz, J. D'Eugenio, A. Nagy, J. Robbrecht, Summary Report on Status of implementation of the INSPIRE Directive in EU, doi:10.2760/143502, JRC109035.

Status of INSPIRE implementation Summary Report 2017

Metadata

Table 6. Documentation of datasets and services (metadata)

MS	Overall implementation status and trend	Outlook	Dashboard Legend
AT			<p>Implementation Status:</p> <p>: implementation of this provision is well advanced or (nearly) completed. Outstanding issues are minor and can be addressed easily.</p> <p>: implementation of this provision has started and made some progress but is still far from being complete. Outstanding issues are significant and need to be addressed to ensure that the objectives of the legislation can still be reached by 2020.</p> <p>: implementation of this provision is falling significantly behind or has not even started. Serious efforts are necessary to close implementation gap.</p> <p>Trend:</p> <p>: the trend of the implementation is positive.</p> <p>: the trend of the implementation is neutral.</p> <p>: the trend of the implementation is negative.</p> <p>Outlook:</p> <p>: clear and targeted actions have been identified which allow reaching the objectives of the legislation in an effective way.</p> <p>: No real progress has been made in the recent past or actions which have been identified are not clear and targeted enough to predict a more positive outlook.</p> <p>: no actions have been identified to overcome identified implementation gaps.</p>
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Services

Table 7. Provision of services for identified spatial datasets (discovery, view, download)

MS	Overall implementation status and trend	Outlook	Dashboard Legend
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Interoperability

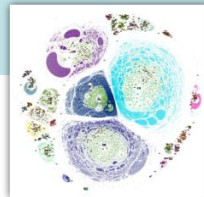
Table 8. Provision of interoperable spatial datasets

MS	Overall implementation status and trend	Outlook	Dashboard Legend
AT			<p>Implementation Status:</p> <p>: implementation of this provision is well advanced or (nearly) completed. Outstanding issues are minor and can be addressed easily.</p> <p>: implementation of this provision has started and made some progress but is still far from being complete. Outstanding issues are significant and need to be addressed to ensure that the objectives of the legislation can still be reached by 2020.</p> <p>: implementation of this provision is falling significantly behind or has not even started. Serious efforts are necessary to close implementation gap.</p> <p>Trend:</p> <p>: the trend of the implementation is positive.</p> <p>: the trend of the implementation is neutral.</p> <p>: the trend of the implementation is negative.</p> <p>Outlook:</p> <p>: clear and targeted actions have been identified which allow reaching the objectives of the legislation in an effective way.</p> <p>: No real progress has been made in the recent past or actions which have been identified are not clear and targeted enough to predict a more positive outlook.</p> <p>: no actions have been identified to overcome identified implementation gaps.</p>
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Source: V. Ceti, V. Nunes de Lima, R. Tomas, M. Lutz, J. D'Eugenio, A. Nagy, J. Robbrecht, Summary Report on Status of implementation of the INSPIRE Directive in EU, doi:10.2760/143502, JRC109035.

Status of INSPIRE implementation Summary Report 2017

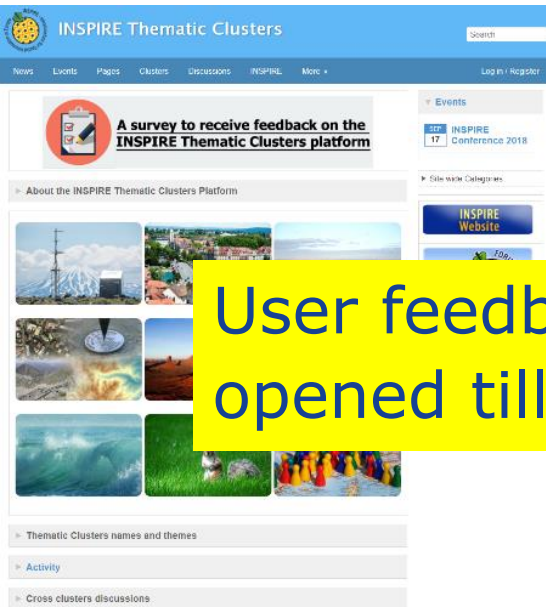
- **More than 90%** of data sets are reported by **only 5 countries**.
- **87%** of the MD for data sets and network services conforms to the INSPIRE metadata specifications.
- **40.000** view services & **30.000** + download services are available. But **80%+** of the services reported by **only 2 countries**.
- **Many data sets still not available via services!!**
- **Almost 14.000 data sets** were reported by the to be **conformant** to the INSPIRE IRs..



MIWP-ID	Task	MIG sub-project	Status
2016.4	Theme specific issues of data specifications & exchange of implementation experiences in thematic domains	2016.4 Theme-specific issues	ongoing
2016.5	Priority list of data sets for eReporting	2016.5 Priority list of data sets for eReporting	ongoing
2017.1	Drafting of "Master Guidelines" for the INSPIRE directive	2017.1 Drafting of "Master Guidelines" for the INSPIRE directive	endorsed; to start in early 2018
2017.2	Alternative encodings for INSPIRE data	2017.2 Alternative encodings for INSPIRE data	ongoing
2017.3	Improved client support for INSPIRE data	2017.3 Improved client support for INSPIRE data	ongoing
2017.4	Validation and conformity testing	2017.4 Validation and conformity testing	ongoing
Completed actions			
2016.1	INSPIRE fitness for purpose – Analysis	2016.1 INSPIRE fitness for purpose – Analysis	completed
2016.2	Streamlining the monitoring and reporting for 2019	2016.2 Streamlining the monitoring and reporting for 2019	completed in June 2017 (phase 1); follow-up to be carried out under a new action
2016.3	Validation and conformity testing	2016.3 Validation & conformity	completed in June 2017; follow-up to be carried out under action 2017.4

<https://ies-svn.jrc.ec.europa.eu/projects/miwp-2016-2020/wiki>

Officially launched on **11.12. 2014** as the INSPIRE Thematic user **community collaborative platform**



User feedback survey still opened till 9.3.2018!!

- On-line INSPIRE users **collaborative platform** .. **to share**
- User's implementation "**knowledge base**" .. **to find**
- **Incubator for change/addition** proposals .. **to propose** (e.g. 1st set of proposals of 2016) .. links with .. **to**

888 Registered members
50 Groups (groups + sub-groups)
600+ Discussion topics
2000+ Responses
250 Files uploaded
180 Issue/topic dedicated pages created

Action 2017.2 on alternative encodings for INSPIRE data



- Develop concrete proposals for **alternative encodings**
- Define a **template and procedure for** proposing and endorsing **additional encoding rules**
- Give recommendations on an update of D2.7 Encoding Guidelines (for future work)

Open Call to collect proposals for alternative encodings and other reference material

<https://ies-svn.jrc.ec.europa.eu/issues/3064>

Action 2017.3 on improved client support for INSPIRE data



- Investigate use cases and requirements for improved client support.
- Discuss with the open source community and commercial vendors how to improve support for INSPIRE data, in client (web, desktop and mobile) software.
- Investigate means for consumption of INSPIRE data directly from National and European discovery services

<https://ies-svn.jrc.ec.europa.eu/projects/2017-3/wiki>



Joint
Research
Centre



Action 2016.5 Priority list of datasets for e-Reporting



4 Core Tasks

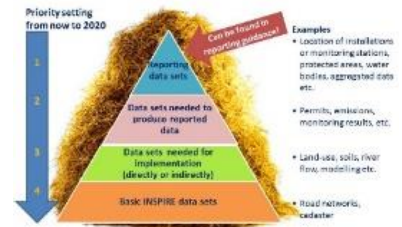
- T1: Manage and update the priority list of eReporting datasets
- T2: Make data available as-is: identify datasets, document metadata, make metadata and data available on the EU geoportal

- T3: **15.5. 2018 EC provision check of MS priority datasets 'as-is' in INSPIRE Thematic Viewer**

Meetings of the WG:

- [Kick-off meeting](#), 2017-09-04 (face-to-face), INSPIRE Conference
- [2nd meeting](#), 2017-11-23 (face-to-face), EEA, Copenhagen (DK)
- [3rd meeting](#), 2018-2-20 (WebEX), EEA, Copenhagen (DK)

<https://ies-svn.jrc.ec.europa.eu/projects/2016-5/>



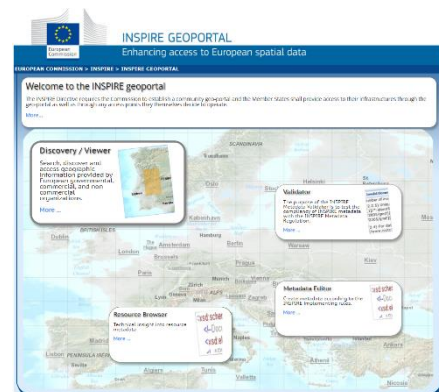
User view:

- Difficulties in finding (with decent level of reliability) e.g. **national datasets** related to various types of environmental reporting.
 - INSPIRE MD Regulation contains **only one "reliable" MD element** for filtering various environmental domains/reporting – **INSPIRE Data themes**.
 - The use of other MD elements (e.g. Keywords) are **not used in a consistent/ harmonised way**.

- The impressive number of MD records present in Geoportal



the number of downloadable data.



Geoportal Thematic Viewer **Beta**

<http://inspire-geoportal.ec.europa.eu/thematicviewer/>

Main objectives:

- To develop a **set of “Thematic views”** to facilitate users to discover, view and use/download **selected datasets**
- **To simplify** the way users can interact with the content of Geoportal
- To provide a **tool for monitoring provision and facilitating access to *Priority datasets necessary for environmental reporting*** (MIWP 2016.5)



Geoportal Thematic Viewer **Beta**

<http://inspire-geoportal.ec.europa.eu/thematicviewer/>

Current status:

• 2 Thematic views published:

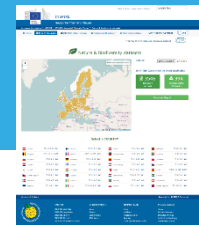
- INSPIRE Data themes
- Priority datasets

• **Design adjusted** to max. **simplified** INSPIRE terminology and partly technology complexity.

- **Dataset** = is documented = MD
- **Dataset** = is displayed = Viewable layers
- **Dataset** = is downloadable = Downloadable datasets



Geoportal Thematic Viewer **Beta**



Selected functionality:

- **Provides a guide** to MS to identified resources (MD records, Services) for which the links (MD,DATASETS, SERVICES) **where not found / established**

- Two **monitors**

- **Thematic filters**

- **Priority INSPIRE**
- **INSPIRE**

A Tool to **jointly improve** the usability of EU Geoportal

set code list of the **ster**

- **Spatial filter** (national x other datasets)
 - Spatial filter is based on comparing provided bounding boxes with official (Eurostat) country spatial extents (NUTS1)
- On line **harvesting status** of MS resources
- Automated **reporting functionality** of EU/MS status of data availability



Geoportal Thematic Views – **Current status?**

LIVE DEMO

REFIT on INSPIRE = INSPIRE Thematic Viewer

Priority datasets for e-Reporting



- **Simplified** MS data access & use
- Better Regulation in e-reporting = **re-use** of INSPIRE
- Application of **advanced ICT** methods & tools
- Tool to **communicate** INSPIRE

Progress monitoring

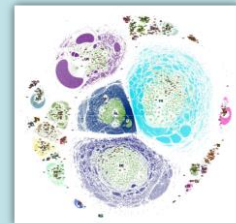
INSPIRE use objectives	Overall implementation	Indicator	Distribution/Comment
Use of INSPIRE data for reporting	100%	100%	Implementation of the provision and creation of digital content (country level) all MS are still in progress.
Use of INSPIRE data for reporting	100%	100%	Implementation of the provision has started and will start reporting to and use INSPIRE data for reporting in the next few months.
Use of INSPIRE data for reporting	100%	100%	Implementation of the provision is ongoing and will start reporting to and use INSPIRE data for reporting in the next few months.
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MS "benchmarking"

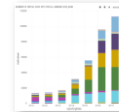


**Hiding complexity
max. benefits for all**

Content visualisation



Nr. of MS Datasets – 135 000+
 Nr. of MS View services – 60 000+
 Nr. of MS Download services – 40 000+





Thank you for your attention.

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INSPIRE Conference 2018

Inspire Users: Make it work together

18-21 September 2018, Antwerp



Deadline: 15 March 2018 Call for proposals closes!!



Geoportal Thematic Viewer Beta



European Commission



Nature & Biodiversity datasets



INSPIRE Geoportal Dataset Statistics

3546 Metadata records

394 Interim Data Outlets

[Download Report](#)

Select a COUNTRY

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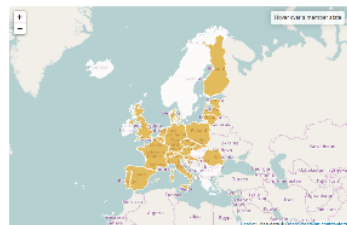
Version: 0.0.1 beta

Powered by: INSPIRE Geoportal

	<p>INSPIRE</p> <p>INSPIRE Web Site</p> <p>INSPIRE Legislation</p> <p>INSPIRE Inventory</p> <p>INSPIRE Thematic</p> <p>INSPIRE Thematic datasets</p>	<p>NEWS & EVENTS</p> <p>News</p> <p>Events</p> <p>Publications</p> <p>Conferences</p> <p>INSPIRE News</p>	<p>INSPIRE Tools</p> <p>Tools</p> <p>WebEditor</p> <p>Metadata editor</p> <p>Applied methodology</p> <p>Data specification toolset</p>	<p>Priority Dataset</p> <p>News</p> <p>Priority Datasets</p> <p>INSPIRE Thematic</p> <p>Registry</p> <p>Harvesting Status</p>
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Datasets - Addresses of Europe



INSPIRE Geoportal Dataset Statistics

246 Metadata records

17 Interim Data Outlets

INSPIRE Monitoring & Reporting 2016 (status 2016)

532 Metadata records

[Equivalent Dataset](#)

Select a COUNTRY

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Joint Research Centre

