INSPIRE Monitoring and Reporting 2020: Procedure, status and planning

JRC INSPIRE Team

63rd MIG-T meeting – October 13-14, 2020
Based on Commission Decision 2019/1372:

- 19 indicators calculated from the metadata of spatial data sets & spatial data services published by Member States through discovery services
Indicators for Monitoring and Reporting 2020

- Same set of indicators, one important difference in the calculation:
  - only MD encoded according to TG 2.0 will be considered!
- Indicators grouped into 5 categories:
  - availability of spatial data and services
    - DSi1.1, DSi1.2, DSi1.3, DSi1.4, DSi1.5
  - conformity of metadata
    - MDi1.1, MDi1.2
  - conformity of spatial data sets
    - DSi2, DSi2.1, DSi2.2, DSi2.3
  - accessibility of spatial data sets
    - NSi2, NSi2.1, NSi2.2
  - conformity of network services
    - NSi4, NSi4.1, NSi4.2, NSi4.3, NSi4.4
INSPIRE Monitoring and Reporting 2020

• Overall process:
INSPIRE Monitoring and Reporting 2020

- Overall process:

**Step 1**
From December 15
Harvest metadata from all the endpoints

INSPIRE Geoportal

**Step 2**
Validate metadata

INSPIRE Validator + Bulk validation tool

**Step 3**
Publish results on the M&R 2020 dashboard

INSPIRE Geoportal M&R 2020 dashboard

Downloaded metadata

Linkages results

MD validation results
## INSPIRE Geoportal – Status & planning

- v.1.4.0 (including support for metadata TG v.2.0) released on September 16
- **Planning** for next months:

<table>
<thead>
<tr>
<th>Between September 16 and October 23</th>
<th>After October 23</th>
<th>Before November 15</th>
<th>From December 16</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Testing period</strong> where INSPIRE stakeholders can provide feedback and report bugs using the Geoportal Helpdesk</td>
<td><strong>Development of bug fixes</strong> for the bug reports received. No additional requests for change addressed after this date</td>
<td><strong>Release of the Geoportal version to be used for the Monitoring and Reporting 2020 activities</strong></td>
<td><strong>Harvesting</strong> of metadata from Member States national catalogues</td>
</tr>
</tbody>
</table>

INSPIRE Geoportal – Status & planning

- Testing phase currently running:
  - monitoring the **tests performed by Member States**
  - some bugs already reported & fixed, others under investigation

<table>
<thead>
<tr>
<th>#</th>
<th>Project</th>
<th>Status</th>
<th>Priority</th>
<th>Subject</th>
<th>Assignee</th>
<th>Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>3889</td>
<td>Geoportal Helpdesk</td>
<td>New</td>
<td>Normal</td>
<td>Problem with Download link</td>
<td>geoportal-helpdesk</td>
<td>08 Oct 2020 01:09 pm</td>
</tr>
<tr>
<td>3702</td>
<td>Geoportal Helpdesk</td>
<td>New</td>
<td>Normal</td>
<td>DE: Linkage Checker - How does &quot;Branch 1 check&quot; for Download Service metadata works?</td>
<td>08 Oct 2020 09:49 am</td>
<td></td>
</tr>
<tr>
<td>3874</td>
<td>Geoportal Helpdesk</td>
<td>Feedback</td>
<td>Normal</td>
<td>SE: Statistics</td>
<td>geoportal-helpdesk</td>
<td>06 Oct 2020 03:57 pm</td>
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<tr>
<td>3895</td>
<td>Geoportal Helpdesk</td>
<td>New</td>
<td>Normal</td>
<td>CZ: Question - catalogue service (CSW) for metadata on the INSPIRE Geoportal</td>
<td>06 Oct 2020 03:29 pm</td>
<td></td>
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<tr>
<td>3882</td>
<td>Geoportal Helpdesk</td>
<td>Assigned</td>
<td>Normal</td>
<td>EE: Service metadata date origin in INSPIRE Geoportal in Service Options section is not clear</td>
<td>Davide Artasensi</td>
<td>06 Oct 2020 02:12 pm</td>
</tr>
<tr>
<td>3893</td>
<td>Geoportal Helpdesk</td>
<td>Resolved</td>
<td>High</td>
<td>SE: Validation In Inspire Geoportal and Reference validator</td>
<td>06 Oct 2020 10:26 am</td>
<td></td>
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<tr>
<td>3892</td>
<td>Geoportal Helpdesk</td>
<td>New</td>
<td>High</td>
<td>How are different instances of metadata handled related to National SDI</td>
<td>05 Oct 2020 02:04 pm</td>
<td></td>
</tr>
<tr>
<td>3891</td>
<td>Geoportal Helpdesk</td>
<td>New</td>
<td>High</td>
<td>Missing MD recod in harvested records from SK - Corine Land Cover 2018</td>
<td>Daniele Francioli</td>
<td>04 Oct 2020 10:24 pm</td>
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<tr>
<td>3867</td>
<td>Geoportal Helpdesk</td>
<td>Resolved</td>
<td>High</td>
<td>DE: request regarding XML schema validation of metadata records</td>
<td>02 Oct 2020 03:47 pm</td>
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<tr>
<td>3890</td>
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<td>New</td>
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<td>RO: Romania Conformity Title (Regulation 1089/2010) it is wrong on linkage checker</td>
<td>geoportal-helpdesk</td>
<td>01 Oct 2020 03:01 pm</td>
</tr>
</tbody>
</table>
INSPIRE Validator – Status & planning

- v.2020.3 (used for Monitoring and Reporting 2020) released on September 16
  - bugfix version adding non-breaking changes to v.2020.2 (June 2020)
  - improved instructions for local deployment using Docker

Please use your own Validator instance for testing!

https://github.com/inspire-eu-validation/community/releases/tag/v2020.3
Calculation of indicators using the Validator

- Indicator MDi1.1:
  - percentage of metadata for spatial data sets conformant with Commission Regulation (EC) No 1205/2008 as regards metadata
  - metadata filtered as:
    - `<gmd:hierarchyLevel>>/<gmd:MD_ScopeCode>` with codelist value `dataset` or `series`

http://inspire.ec.europa.eu/validator
Calculation of indicators using the Validator

• Indicator MDi1.2:
  • percentage of metadata for spatial data services conformant with Commission Regulation (EC) No 1205/2008 as regards metadata
  • metadata filtered as:
    • `<gmd:hierarchyLevel>`/<gmd:MD_ScopeCode> with codelist value service
    • `<srv:serviceType>`/<gco:LocalName> with value view, download, discovery or transformation for Network Services, other for Invocable Spatial Data Services

http://inspire.ec.europa.eu/validator
Bulk validation tool for metadata

- Allows to perform **massive validation of metadata** using any instance of the INSPIRE Reference Validator:
  - will be used to **automate validation** using the INSPIRE Reference Validator API
  - v.2020.2 released on September 23 with the new rules (focus on metadata TG v.2.0)
  - to be used with **your own instance of the Validator** (NOT the central INSPIRE one)!

**Bulk processing tool for the INSPIRE Reference Validator**

This software tool allows for validation of large numbers of metadata records using the API of the INSPIRE Reference Validator. It was developed to support INSPIRE Monitoring & Reporting activities. The tool was built with Pentaho Data Integration Community Edition platform which is required to use it.

https://github.com/inspire-eu-validation/monitoring-bulk-validation-tool
Thank you!

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