



INSPIRE Monitoring and Reporting 2020: Procedure, status and planning

JRC INSPIRE Team

63rd MIG-T meeting – October 13-14, 2020

INSPIRE Monitoring and Reporting 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

DECISIONS

COMMISSION IMPLEMENTING DECISION (EU) 2019/1372

of 19 August 2019

implementing Directive 2007/2/EC of the European Parliament and of the Council as regards monitoring and reporting


(notified under document C(2019) 6026)

(Text with EEA relevance)

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!

MD TG 1.3



INSPIRE
Infrastructure for Spatial Information in Europe

INSPIRE Metadata Implementing Rules: Technical Guidelines based on EN ISO 19115 and EN ISO 19119

Title	INSPIRE Metadata Implementing Rules: Technical Guidelines based on EN ISO 19115 and EN ISO 19119
Creator	Drafting Team Metadata and European Commission Joint Research Centre
Creation date	2007-10-26
Date of last revision	2013-10-29
Subject	INSPIRE Implementing Rules for Metadata
Status	V. 1.3
Publisher	European Commission Joint Research Centre
Type	Technical Report
Description	Guidelines based on EN ISO 19115 and EN ISO 19119 for Commission Regulation (EC) No 1205/2008 of 3 December 2008 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards metadata
Contributor	See Acknowledgements
Format	Pdf
Source	European Commission Joint Research Centre
Rights	Public
Identifier	MD_IR_and_ISO_20131029.doc
Language	EN
Revision	Not applicable
Superseded by	Not applicable




INSPIRE
Infrastructure for Spatial Information in Europe

MD TG 2.0

Technical Guidance for the implementation of INSPIRE dataset and service metadata based on ISO/TS 19139:2007

Title	Technical Guidelines for implementing dataset and service metadata based on ISO/TS 19139:2007
Creator	Temporary MIG subgroup for action MIWP-8
Date of publication	2017-03-02
Subject	Technical Guidance for INSPIRE metadata for datasets and services
Status	Version 2.0.1
Description	This document has been endorsed by the INSPIRE maintenance and implementation group (MIG) in its meeting on 30/11-1/12/2016 (see meeting minutes at https://ies-svn.irc.ec.europa.eu/projects/mig-p/wiki/5th_MIG-P_meeting).
Publisher	INSPIRE Maintenance and Implementation Group (MIG)
Type	Text
Description	Implementation specification for defining metadata for INSPIRE datasets and services in ISO/TS 19139 based XML format in compliance with the INSPIRE Implementing Rules for metadata.
Format	PDF
Licence	Creative Commons Attribution (cc-by) 4.0 (https://creativecommons.org/licenses/by/4.0/)
Identifier	http://inspire.ec.europa.eu/id/document/tg/metadata-iso19139/2.0 (latest bugfix version of v2.0)
Identifier	http://inspire.ec.europa.eu/id/document/tg/metadata-iso19139/2.0.1 (this bugfix version)
Corrigenda	http://inspire.ec.europa.eu/id/document/tg/metadata-iso19139/2.0/corrigenda
Language	EN

INSPIRE Monitoring and Reporting 2020

- 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

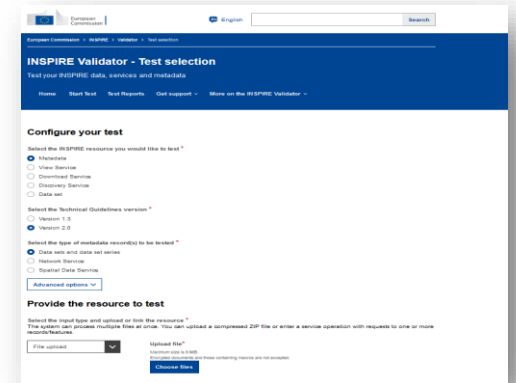
- accessibility of spatial data sets

- NSi2, NSi2.1, NSi2.2

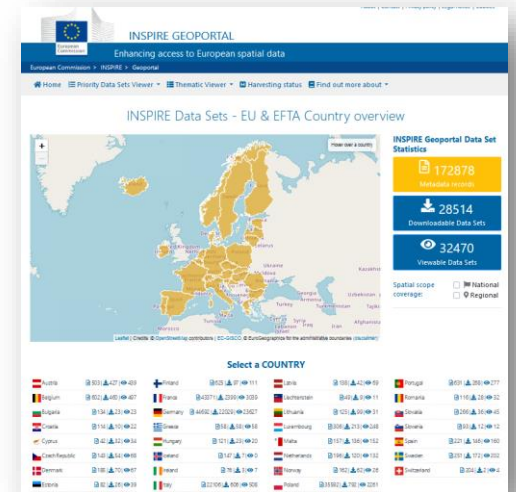
- conformity of network services

- NSi4, NSi4.1, NSi4.2, NSi4.3, NSi4.4

**INSPIRE
Reference
Validator**
(metadata
validation)

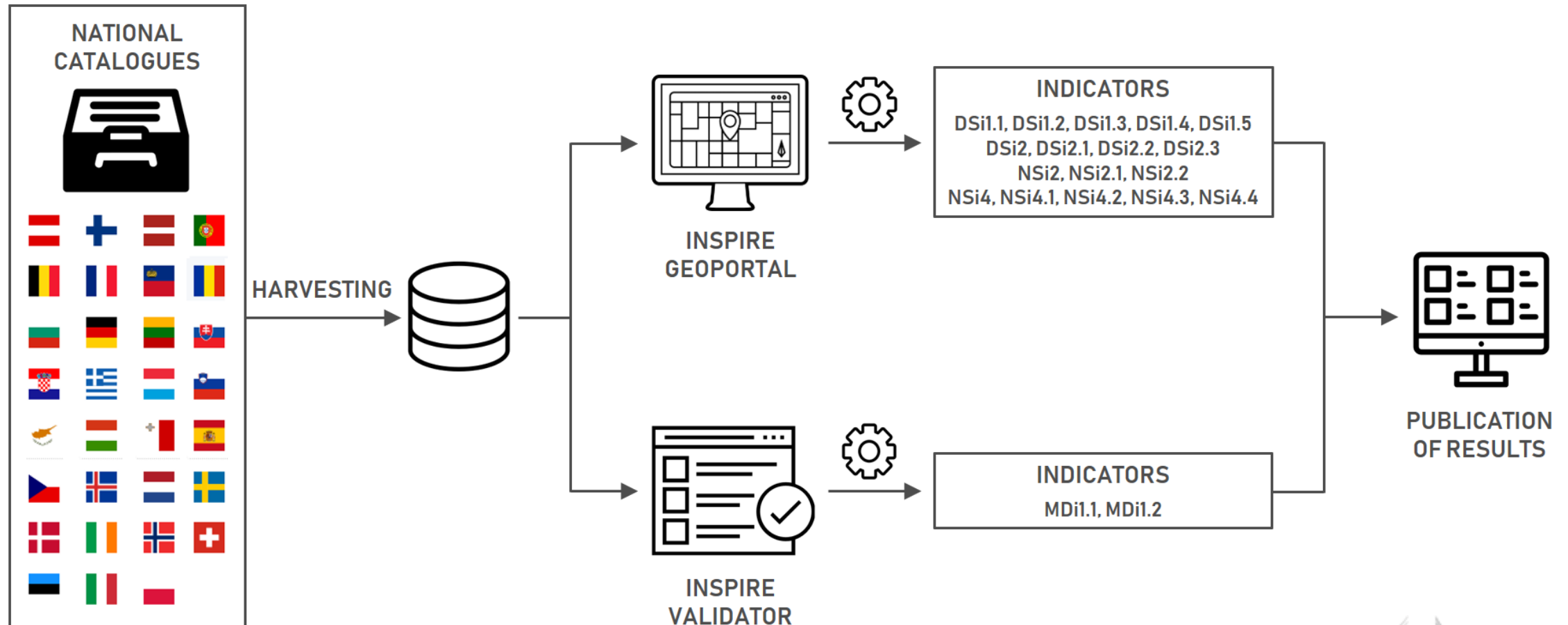


**INSPIRE
Geoportal**
(linkages check)



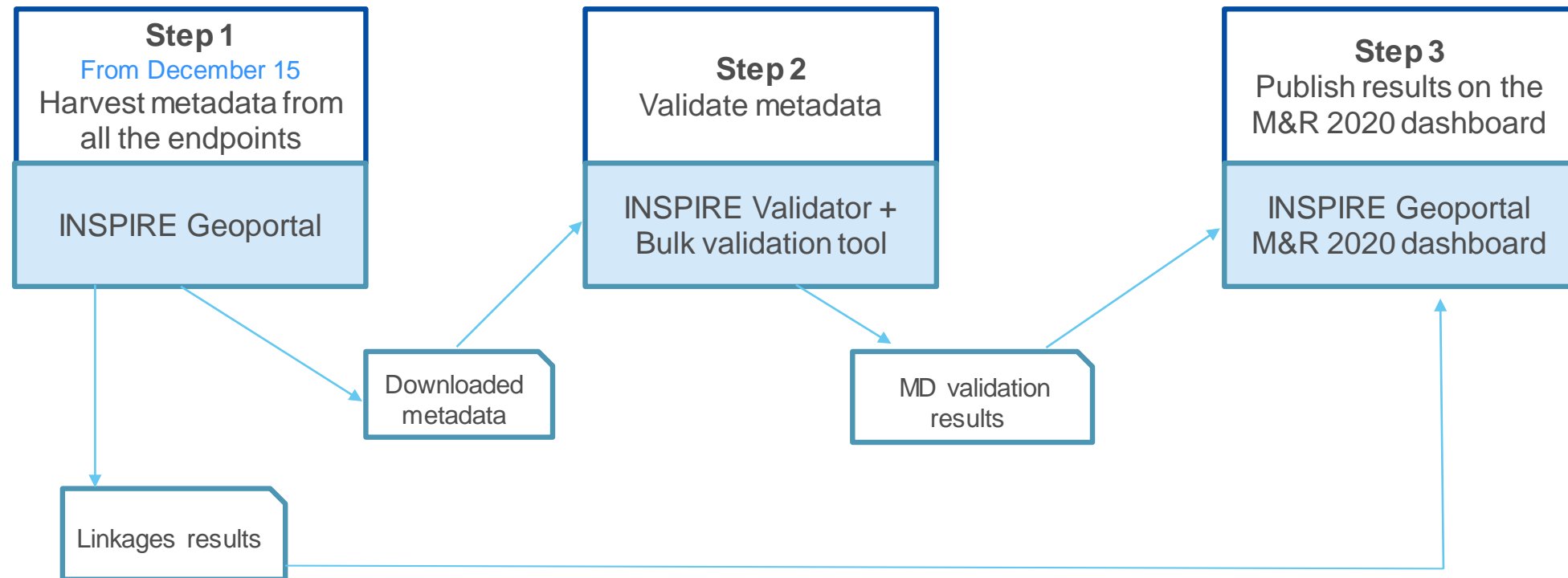
INSPIRE Monitoring and Reporting 2020

- Overall process:



INSPIRE Monitoring and Reporting 2020

- Overall process:



INSPIRE Geoportal – Status & planning

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

Between September 16 and October 23

Testing period where INSPIRE stakeholders can provide feedback and report bugs using the Geoportal Helpdesk

After October 23

Development of bug fixes for the bug reports received. No additional requests for change addressed after this date

Before November 15

Release of the Geoportal version to be used for the Monitoring and Reporting 2020 activities

From December 16

Harvesting of metadata from Member States national catalogues

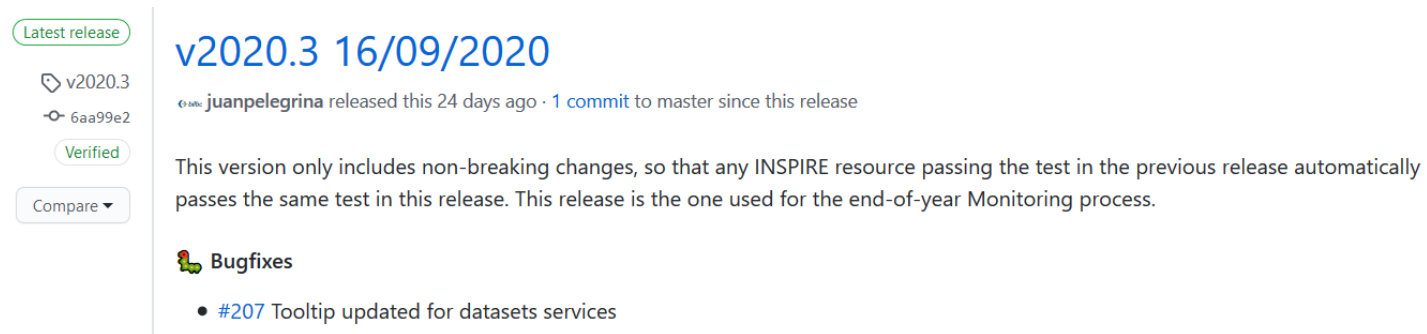
INSPIRE Geoportal – Status & planning

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

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

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



The screenshot shows the GitHub release page for the INSPIRE Validator. On the left, there are navigation options: 'Latest release' (highlighted), 'v2020.3' (selected), '6aa99e2', 'Verified', and a 'Compare' dropdown. The main content area displays the release title 'v2020.3 16/09/2020', the author 'juanpelegrina', and the release date '16/09/2020'. Below this, it states 'This version only includes non-breaking changes, so that any INSPIRE resource passing the test in the previous release automatically passes the same test in this release. This release is the one used for the end-of-year Monitoring process.' A 'Bugfixes' section lists several issues, including '#207 Tooltip updated for datasets services'.

Please use your own Validator instance for testing!

- #350 Updated RegEx for ISO:8601 on MD 2.0 - #507
- #367 Possible invalid test in MD 2.0 CC 7: 'INSPIRE Harmonised Spatial Data Services metadata' - #508
- #373 Fixed different system errors on MD 2.0 - #509
- #385 Updated error message for MD 2.0 - SDS 3.4 - #510

<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`

Metadata (TG version 2.0) - BETA

<input checked="" type="checkbox"/> Common Requirements for ISO/TC 19139:2007 based INSPIRE metadata records.	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Conformance Class 1: INSPIRE data sets and data set series baseline metadata.	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Conformance Class 2: INSPIRE data sets and data set series interoperability metadata.	<input type="checkbox"/> use
<input checked="" type="checkbox"/> Conformance Class 2b: INSPIRE data sets and data set series metadata for Monitoring	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Conformance Class 3: INSPIRE Spatial Data Service baseline metadata.	<input type="checkbox"/> use
<input checked="" type="checkbox"/> Conformance Class 4: INSPIRE Network Services metadata.	<input type="checkbox"/> use
<input checked="" type="checkbox"/> Conformance Class 5: INSPIRE Invocable Spatial Data Services metadata.	<input type="checkbox"/> use
<input checked="" type="checkbox"/> Conformance Class 6: INSPIRE Interoperable Spatial Data Services metadata.	<input type="checkbox"/> use
<input checked="" type="checkbox"/> Conformance Class 7: INSPIRE Harmonised Spatial Data Services metadata.	<input type="checkbox"/> use
Interoperable data sets in GML (Guidelines for the Encoding of Spatial Data version 3.3)	
<input checked="" type="checkbox"/> Conformance class: Data consistency, General requirements	<input type="checkbox"/> use

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

The screenshot shows the 'Metadata (TG version 1.3)' section of the INSPIRE Validator. It lists several conformance classes with 'use' buttons. The following classes are highlighted with a yellow border:

- Conformance class: INSPIRE Profile based on EN ISO 19115 and EN ISO 19119
- Conformance class: Metadata for interoperability
- Metadata (TG version 2.0) - BETA
 - Common Requirements for ISO/TC 19139:2007 based INSPIRE metadata records.
 - Conformance Class 1: INSPIRE data sets and data set series baseline metadata.
 - Conformance Class 2: INSPIRE data sets and data set series interoperability metadata.
 - Conformance Class 3: INSPIRE Spatial Data Service baseline metadata.
 - Conformance Class 4: INSPIRE Network Services metadata.
 - Conformance Class 5: INSPIRE Invocable Spatial Data Services metadata.
- Conformance Class 6: INSPIRE Interoperable Spatial Data Services metadata.
- Conformance Class 7: INSPIRE Harmonised Spatial Data Services metadata.

Text overlays on the image include 'Network Services' in green and 'Invocable Spatial Data Services' in yellow.

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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