

TOP 5: INSPIRE-Monitoring 2020

Online-Veranstaltung „INSPIRE“

03.11.2020

Koordinierungsstelle GDI-DE


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www.gdi-de.org | www.geoportal.de | wiki.gdi-de.org

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	Text
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
Coverage	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 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.jrc.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) 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



Quelle: JRC 2020

INSPIRE Monitoring and Reporting 2020

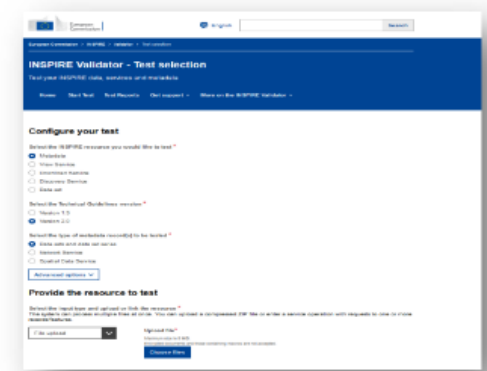
- Indicators grouped into 5 categories:

- availability of spatial data and services
 - DSi1.1, DSi1.2, DSi1.3, DSi1.4, DSi1.5

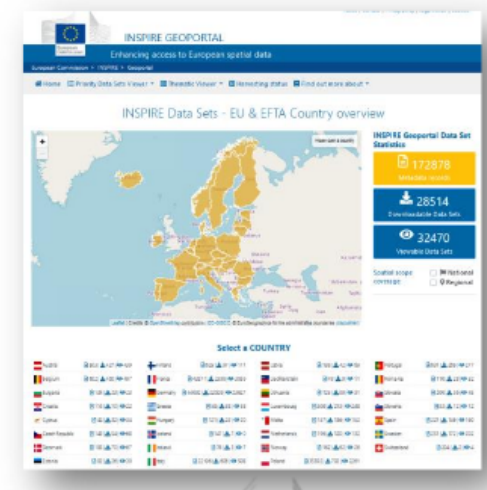
- conformity of metadata
 - MDi1.1, MDi1.2

- 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)



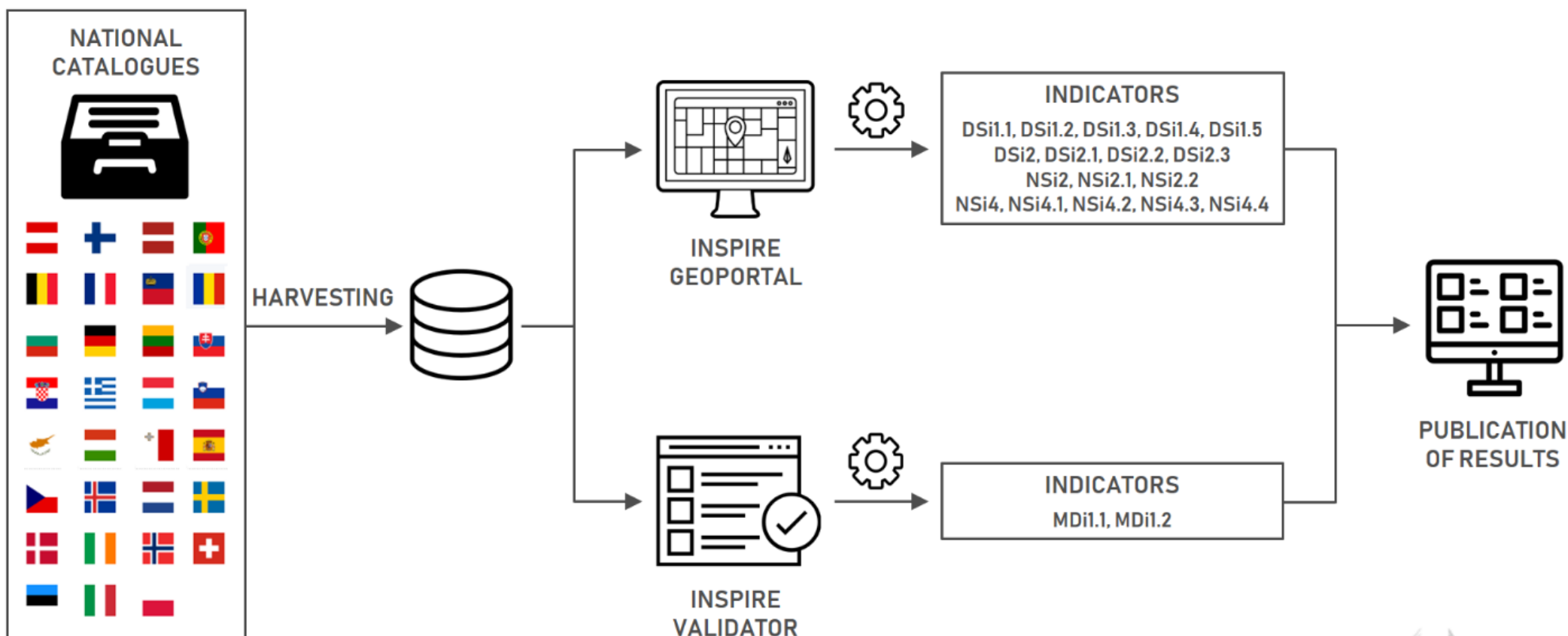
INSPIRE Geoportal
(linkages check)



Quelle: JRC 2020

INSPIRE Monitoring and Reporting 2020

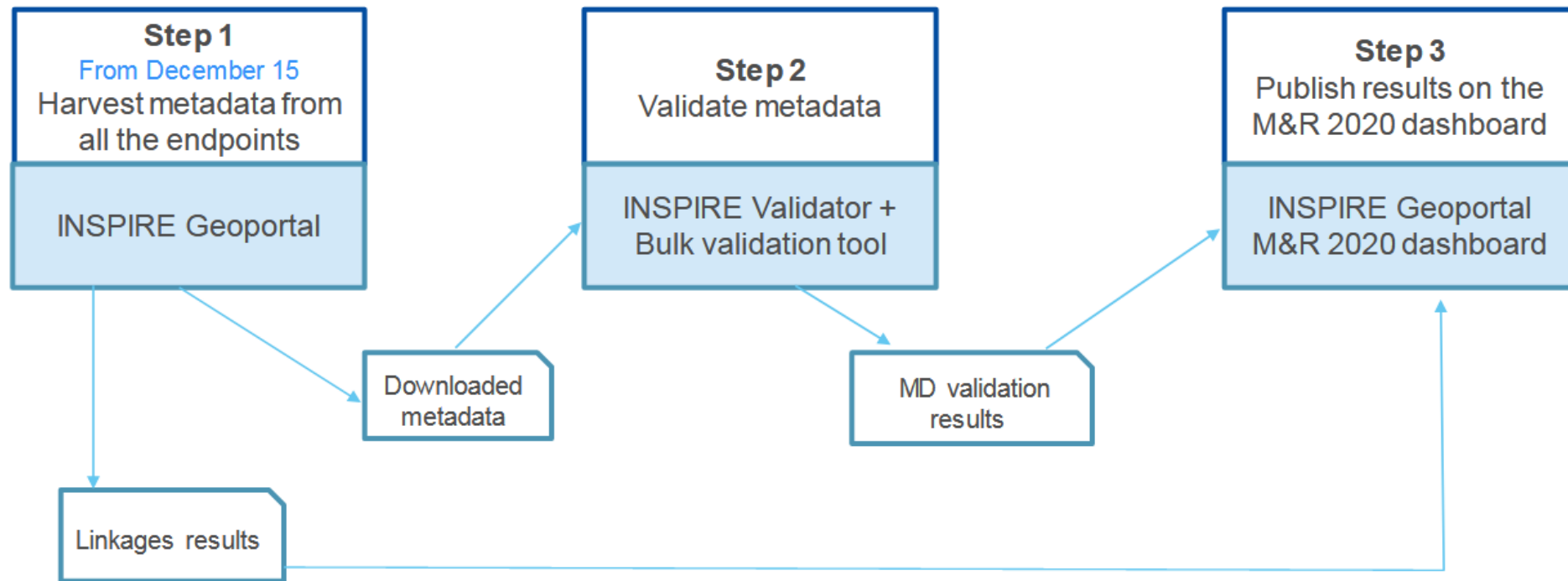
- Overall process:



Quelle: [JRC 2020](#)

INSPIRE Monitoring and Reporting 2020

- Overall process:



Quelle: JRC 2020

bis
11/2020

- Harvesting aller GDI-DE Kataloge in den Geodatenkatalog.de

12/2020

- Harvesting des Geodatenkatalog.de durch EU-KOM (JRC) = „Snapshot“
- Berechnung der Indikatoren (außer Metadaten-Konformität)

01/2021

- Überprüfung der Harvesting-Ergebnisse durch Kst. GDI-DE
- Ggf. Veranlassung eines erneuten Harvesting bei Fehlern

02/2021

- Berechnung der Indikatoren zur Metadaten-Konformität durch EU-KOM (JRC) auf Basis des INSPIRE-Validator (Konformität gegenüber TG Metadaten Version 2.0)



03/2021

- Veröffentlichung der Ergebnisse durch EU-KOM (JRC)
- Auswertung der Ergebnisse durch Kst. GDI-DE und punktuelle Rückmeldung an Kontaktstellen GDI-DE

■ Indikatoren zur Verfügbarkeit von INSPIRE-Datensätzen und -Diensten



Indikator	2018	2019	23.10.2020	Trend
DSi1.1 (Anzahl Datensätze)	31.041	32.518	48.473	↗
DSi1.2 (Anzahl Dienste)	27.368	35.046	65.432	↗
DSi1.3 (Anzahl Priority Data Sets)	-	108	125	↗
DSi1.4 (Anzahl regionale Datensätze)	-	10.975	2.453	↘
DSi1.5 (Anzahl nationale Datensätze)	-	156	106	↘
NSi2 (Zugänglichkeit über Darstellungs- und Downloaddienste)	42%	34,7%	47,7%	↗
NSi2.1 (Zugänglichkeit über Darstellungsdienste)	51%	39,5%	54,6%	↗
NSi2.2 (Zugänglichkeit über Downloaddienste)	43%	37,9%	53,4%	↗

Ergebnisse INSPIRE-Monitoring 2019 (DE): https://inspire-geoportal.ec.europa.eu/mr2019_details.html?country=de

■ Indikatoren zur Konformität von Datensätzen und Diensten und zugehörigen Metadaten



Indikator	2018	2019	23.10.2020	Trend
MDi1.1 (Konformität Metadaten zu Datensätzen)	99%	65,4%	?	
MDi1.2 (Konformität Metadaten zu Diensten)	99%	91,7%	?	
DSi2 (Konformität Geodatensätze)	11%	56,0%	51,0%	↘
DSi2.1 (Konformität Anhang-I-Geodatensätze)	30%	40,0%	51,1%	↗
DSi2.2 (Konformität Anhang-II-Geodatensätze)	17%	33,0%	39,6%	↗
DSi2.3 (Konformität Anhang-III-Geodatensätze)	10%	57,1%	51,1%	↘
NSi4 (Konformität Netzdienste)	98%	82,4%	97,2%	↗
NSi4.1 (Konformität Suchdienste)	100%	100,0%	100,0%	😊
NSi4.2 (Konformität Darstellungsdienste)	97%	84,6%	96,9%	↗
NSi4.3 (Konformität Downloaddienste)	98%	79,1%	97,5%	↗
NSi4.4 (Konformität Transformationsdienste)	n.a.	n.a.	n.a.	

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

+ Common Requirements for ISO/TC 19139:2007 based INSPIRE metadata records.	<input type="checkbox"/>
+ Conformance Class 1: INSPIRE data sets and data set series baseline metadata.	<input type="checkbox"/>
+ Conformance Class 2: INSPIRE data sets and data set series interoperability metadata.	<input type="checkbox"/> use
+ Conformance Class 2b: INSPIRE data sets and data set series metadata for Monitoring	<input checked="" type="checkbox"/>
+ Conformance Class 3: INSPIRE Spatial Data Service baseline metadata.	<input type="checkbox"/> use
+ Conformance Class 4: INSPIRE Network Services metadata.	<input type="checkbox"/> use
+ Conformance Class 5: INSPIRE Invocable Spatial Data Services metadata.	<input type="checkbox"/> use
+ Conformance Class 6: INSPIRE Interoperable Spatial Data Services metadata.	<input type="checkbox"/> use
+ 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)	
+ 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

Metadata (TG version 1.3)

- Conformance class: INSPIRE Profile based on EN ISO 19115 and EN ISO 19119 use
- Conformance class: Metadata for interoperability use

Metadata (TG version 2.0) - BETA

- Common Requirements for ISO/TC 19139:2007 based INSPIRE metadata records. use
- Conformance Class 1: INSPIRE data sets and data set series baseline metadata. use
- Conformance Class 2: INSPIRE data sets and data set series interoperability metadata. use
- Conformance Class 3: INSPIRE Spatial Data Service baseline metadata. use
- Conformance Class 4: INSPIRE Network Services metadata. use
- Conformance Class 5: INSPIRE Invocable Spatial Data Services metadata. use
- Conformance Class 6: INSPIRE Interoperable Spatial Data Services metadata. use
- Conformance Class 7: INSPIRE Harmonised Spatial Data Services metadata. use

<http://inspire.ec.europa.eu/validator>



- **Bei der Umstellung der Metadaten auf die TG 2.0 bitte auch prüfen (lassen):**
 - Angabe Thesaurus „GEMET - INSPIRE themes, version 1.0“
 - Angabe „Spatial scope“, Schreibweise „National“, „Regional“, „Lokal“
 - Angabe „INSPIRE priority data set“
 - Angabe der Spezifikation im Conformity Statement: „VERORDNUNG (EG) Nr. 1089/2010 DER KOMMISSION vom 23. November 2010 zur Durchführung der Richtlinie 2007/2/EG des Europäischen Parlaments und des Rates hinsichtlich der Interoperabilität von Geodatenätzen und –diensten“ bzw. „VERORDNUNG (EG) Nr. 976/2009 DER KOMMISSION vom 19. Oktober 2009 zur Durchführung der Richtlinie 2007/2/EG des Europäischen Parlaments und des Rates hinsichtlich der Netzdienste“
 - Relevante Einträge für die Daten-Dienste-Kopplung
 - ...



- Umstellung der Metadaten auf Technical Guidance Version 2.0 bzw. GDI-DE Konventionen Version 2.0.3
- Umsetzung der Interoperabilitäts-Anforderungen für Anhang II- und Anhang III-Datensätze bis 21.10.2020

Aktuelle Informationen unter <https://wiki.gdi-de.org/x/BACTKg>
(GDI-DE Wiki: INSPIRE-Umsetzung / Monitoring und Reporting / Monitoring / Monitoring 2020)

