



EGDI Metadata profile

**Methodology for the unified metadata description
of the results of projects under EuroGeoSurveys scope
with the extension to describe 3D geological models**

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Abstract

This document has originally been created within Work Package 7 of the GeoERA GIP-P project and since then has been generalized to define a unified methodology for a structured metadata description of the resources included in the European Geological Data Infrastructure (EGDI) with the extension to unify the basic description of 3D geological models. Version 1.3 includes recommendations to make EGDI metadata more FAIR (Findable, Accesible, Interoperable, Reusable).

1 Used abbreviations

EGDI	European Geological Data Infrastructure
FAIR	Findable, Accesible, Interoperable, Reusable
GEMET	General environmental multilingual thesaurus
INSPIRE	Infrastructure for Spatial Information in the European Community
IR	Implementing Rules of INSPIRE
JRC	Joint Research Center of the European Commission
MD	Metadata

2 Executive summary

Metainformation system for the storage of a structured description of diverse data sources (datasets, services, applications) has formed an integral part of the EGDI since its establishment. Recently, also 3D geological models have been produced as another form of project results which are also intended to be included in the EGDI platform. That implies a need to define an extended EGDI metadata profile for a unified description of these models in order to enable an effective search according to different user-defined parameters.

This proposed metadata profile is compatible with the international standard EN ISO 19115:2003(E) which is well usable also for the basic description of a model. In accordance with the rules for the metadata description of already existing data sources, it is proposed to fill in the metadata records for models bilingually (national language + English), which facilitates the cross-border use of the records.

After a consultation with JRC it is proposed to create the metadata records for 3D geological models in accordance with the INSPIRE IR (with an extension). In this first phase it is proposed to describe individual models as datasets, with the option of a hierarchical aggregation under one project or any larger work.

A future extension to this metadata profile could be a more detailed description of the modelling parameters – these would probably have to be described by another standard because EN ISO 19115 is not suitable for this.

In order to enhance the content quality, specific recommendations and suggestions have been introduced into the metadata profile in version 1.3. These measures aim to align metadata with the Open Data Directive and ensure compliance with FAIR principles. For each of the fifteen principles,

specific rules have been adopted that have an impact on implementation or metadata compilation; these are detailed in the following sections.

3 EGDI Metadata profile

3.1 Overview of the used metadata elements

The EGDI Metadata profile is defined by the EN ISO 19115:2003(E) metadata elements which are summarized in the table below and described in detail in chapter 3.2.

Table 1: EGDI metadata profile - summary of metadata elements

EGDI profile nr.	INSPIRE profile nr.	MD element title	Obligation/condition according to described data source [Maximum occurrence]		
			"2D" dataset	3D model	service
1	1.1	Resource title	[1]	[1]	[1]
2	1.2	Resource abstract	[1]	[1]	[1]
3	1.3	Resource type	[1]	[1]	[1]
4	1.4	Resource locator	[0..*]	[0..*]	[0..*]
5	1.5	Unique resource identifier	[1..*]	[1..*]	[1..*]
6.1	1.6	Coupled resource	not applicable	not applicable	[0..*]
6.2		Coupling type	not applicable	not applicable	[1]
7	1.7	Resource language	[1..*]	[1..*]	not applicable
8	2.1	Topic category	[1..*]	[1..*]	not applicable
9	2.2	Service type	not applicable	not applicable	[1]
10.1	3.1	Keyword	[1..*]	[1..*]	[1..*]
10.2	3.2	Originating controlled vocabulary	[1..*]	[1..*]	[1..*]
11.1	4.1	Geographic location	[1..*]	[1..*]	[1..*]
11.2		Geographic identifier	[0..*]	[0..*]	[0..*]
12		Presentation form	[0..*]	[1..*]	not applicable
13		Edition	[0..*]	[0..*]	not applicable
14.1	5	Reference date	[1..*]	[1..*]	[1..*]
14.2	5.1	Resource temporal extent	[0..*]	[0..*]	[0..*]
14.3		Status	[0..*]	[0..*]	not applicable
15	6.1	Lineage	[1]	[1]	not applicable
16	6.2	Spatial resolution - Scale/Distance	[0..*]	[0..*]	not applicable
17.1	7.1	Conformity – Specification	[1..*]	[1..*]	[1..*]
17.2	7.2	Conformity - Degree	[1]	[1]	[1]
18.1	8.1	Conditions applying to access and use	[1..*]	[1..*]	[1..*]
18.2	8.2	Limitations on public access	[1..*]	[1..*]	[1..*]
19	9.1	Responsible party	[1..*]	[1..*]	[1..*]

20	12	Data quality scope	[1]	[1]	not applicable
21	IOD-1*	Coordinate reference system	[1..*]	[1..*]	[0..*]
22		Vertical reference system	[1]	[1]	[0..*]
23.1		Vertical extent – max. model depth	not applicable	[1]	not applicable
23.2		Vertical extent – min. model depth	not applicable	[1]	not applicable
23.3		Vertical extent reference system	not applicable	[1]	not applicable
24	IOD-3*	Distribution format	[1..*]	[1..*]	not applicable
25	IOD-6*	Spatial representation type	[1..*]	[1..*]	not applicable
26		Maintenance and update frequency	[0..1]	[0..1]	not applicable
27		Purpose	[0..1]	[0..1]	not applicable
28.1	10.1	Metadata point of contact	[1..*]	[1..*]	[1..*]
28.2	10.2	Metadata date	[1]	[1]	[1]
28.3	10.3	Metadata language	[1]	[1]	[1]
29	2.2.1	File identifier	[1]	[1]	[1]
30		Parent identifier	[0..1]	[0..1]	not applicable
31		Source	[0..*]	[0..*]	not applicable
32		Graphic Overview	[0..*]	[0..*]	[0..*]

*Metadata elements marked with the “IOD” prefix are metadata elements for interoperability as defined in INSPIRE data specifications

3.2 Definition of the individual metadata elements of the profile

3.2.1 Resource title

EGDI Profile	Reference number	1
	Title	Resource title
	Obligation	Mandatory
	Max. occurrence	[1]
	Comment	Title should provide a simple yet precise name that can be easily searched and clearly identifies the cited resource by the name under which it is known. For EGD native metadata, title should have between 10 and 100 characters. For harvestable metadata (i.e. metadata not compliant with the EGD metadata profile) the same measures are strongly recommended as well. This recommendation is useful to reach optimal level of FAIRness for FAIR principle F2.
INSPIRE IR	Reference	B 1.1
	Title	Resource title
	Obligation	Mandatory
	Max. occurrence	[1]
ISO 19115	Number	360
	Title	title
	Definition	Name by which the cited resource is known.
	XPath	identificationInfo[1]/*/citation/*/title
	Data type	CharacterString
	Domain	Free text
Example		<i>Geological map of the Czech Republic 1 : 500,000 – INSPIRE harmonized (theme Geology)</i>

3.2.2 Resource abstract

EGDI Profile	Reference number	2
	Title	Resource abstract
	Obligation	Mandatory
	Max. occurrence	[1]
	Comment	Abstract should provide a concise summary of the resource's content. In the case of 2D or 3D data modelling, also information about the software and data inputs used should be included. For EGDI native metadata, abstract should have between 100 and 700 characters. For harvestable metadata (i.e. metadata not compliant with the EGDI metadata profile) the same measures are strongly recommended as well. This recommendation is useful to reach optimal level of FAIRness for FAIR principles F2.
INSPIRE IR	Reference	B 1.2
	Title	Resource abstract
	Obligation	Mandatory
	Max. occurrence	[1]
ISO 19115	Number	25
	Title	Abstract
	Definition	Brief narrative summary of the content of the resource(s).
	XPath	identificationInfo[1]/*/abstract
	Data type	CharacterString
	Domain	Free text
Example		<i>Structural geological model has been created for the purposes of the deep storage of the radioactive waste in the MOVE software and with the use of archival borehole data, archival and new geological maps and archival and new geophysical measurements.</i>

3.2.3 Resource type

EGDI Profile	Reference number	3
	Title	Resource type
	Obligation	Mandatory
	Max. occurrence	[1]
	Comment	For 3D models choose “dataset”
INSPIRE IR	Reference	B 1.3
	Title	Resource Type
	Obligation	Mandatory
	Max. occurrence	[1]
ISO 19115	Number	6
	Title	hierarchyLevel
	Definition	Scope to which metadata applies
	XPath	hierarchyLevel
	Data type	MD_ScopeCode
	Domain	CodeList (See Annex B, codelist B.5.25 of ISO 19115)
Example		dataset

3.2.4 Resource locator

EGDI Profile	Reference number	4
	Title	Resource locator
	Obligation	Conditional
	Max. occurrence	[0..*]
	Comment	Electronic address of the resource, if it exists. Recommendation: URL of a descriptive web page and/or link to an online visualization of the dataset/model.
INSPIRE IR	Reference	B 1.4
	Title	Resource locator
	Obligation	• Mandatory for datasets and data set series, if the URL exists. • Mandatory for services, if the link to the service exists.
	Max. occurrence	[0..*]
ISO 19115	Number	397
	Title	Linkage
	Definition	Location (address) for on-line access using a Uniform Resource Locator address or similar addressing scheme.
	XPath	distributionInfo/*/transferOptions/*/onLine/*/linkage
	Data type	Class
	Domain	CI_OnlineResource<<DataType>>(B.3.2.5)
Example		https://cqs.gov.cz/en/maps-and-data/3d-models

3.2.5 Unique resource identifier

EGDI Profile	Reference number	5
	Title	Unique resource identifier
	Obligation	Mandatory
	Max. occurrence	[1..*]
	Comment	Recommended format is organization ID (for ex. domain name) and identifier of the dataset defined by the data provider, for ex. "https://www.domain.org/internal_identifier". Subsequently, the W3id identification code "https://w3id.org/EGDI/{id}" will be used, which, via the redirection configuration, can act as an additional dataset identifier without preventing the use of the national identifier. This is required for the EGDI native metadata and is strongly recommended for any harvestable metadata (i.e. metadata not compliant with the EGDI metadata profile). This recommendation helps achieve an optimal level of FAIRness, in line with FAIR Principles F1.1, F1.2 and F3.
INSPIRE IR	Reference	B 1.5
	Title	Unique resource identifier
	Obligation	Mandatory
	Max. occurrence	[1..*]
ISO 19115	Number	365
	Title	Identifier
	Definition	value uniquely identifying an object within a namespace.
	XPath	identificationInfo[1]/*/citation/*/identifier
	Data type	MD_Identifier
	Domain	See B.2.7.3 of ISO 19115. The code property is required at a minimum, and a codeSpace property may be provided.
Example		recommended format: https://registry.geology.cz/id/GDO-PRZ-SDE

3.2.6 Coupled resource

EGDI Profile	Reference number	6.1
	Title	Coupled resource
	Obligation	Conditional
	Max. occurrence	[0..*]
	Comment	
INSPIRE IR	Reference	B 1.6
	Title	Coupled resource
	Obligation	- Not applicable for datasets and data set series - Conditional for spatial data services – mandatory if the coupled data sources for the service are available
	Max. occurrence	[0..*]
ISO 19119: 2005(E)	Number	Element no.9 from table C.1 in Annex C.2.2
	Title	identificationInfo[1]/*/operatesOn
	Definition	provides information on the datasets that the service operates on
	XPath	identificationInfo/SV_ServiceIdentification/operatesOn
	Attribute class or target class of role	MD_DataIdentification
	Domain	
<i>Example</i>		https://metadata.europe-geology.eu/record/basic/4bf53b6c-2410-4d73-a4e8-06c40a01080d

EGDI Profile	Reference number	6.2
	Title	Coupling type
	Obligation	Mandatory for services
	Max. occurrence	[1]
	Comment	
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile but is required by ISO 19119
ISO 19119: 2005/DAmD 1	Number	2.4, table 1, element no.3 from ISO 19119
	Title	couplingType
	Definition	Type of coupling between service and associated data (if exists).
	XPath	identificationInfo/*/CouplingType
	Data type	Code
	Domain	SV_CouplingType (tight, mixed, loose)
<i>Example</i>		<i>tight</i>

3.2.7 Resource language

EGDI Profile	Reference number	7																																
	Title	Resource language																																
	Obligation	Mandatory - if the data doesn't include any language items, please select the "no language" option																																
	Max. occurrence	[1..*]																																
	Comment																																	
INSPIRE IR	Reference	B 1.7																																
	Title	Resource language																																
	Obligation	- mandatory, if the data includes language items - not applicable for services and applications																																
	Max. occurrence	[0..*]																																
ISO 19115	Number	39																																
	Title	Language																																
	Definition	Language(s) used within the datasets																																
	XPath	identificationInfo[1]/*/language																																
	Data type	LanguageCode (ISO/TS 19139)																																
	Domain	Codelist (See ISO/TS 19139) based on alpha-3 codes of ISO 639-2. Use only three-letter codes from in ISO 639-2/B (bibliographic codes), as defined at http://www.loc.gov/standards/iso639-2/ The list of codes for the EGDI data providers: <table><tr><td>Albanian – alb</td><td>Italian – ita</td></tr><tr><td>Bosnian – bos</td><td>Latvian – lav</td></tr><tr><td>Bulgarian – bul</td><td>Lithuanian – lit</td></tr><tr><td>Croatian – hrv</td><td>Luxembourgish – ltz</td></tr><tr><td>Czech – cze</td><td>Maltese – mlt</td></tr><tr><td>Danish – dan</td><td>Norwegian – nor</td></tr><tr><td>Dutch – dut</td><td>Polish – pol</td></tr><tr><td>English – eng</td><td>Portuguese – por</td></tr><tr><td>Estonian – est</td><td>Romanian – rum</td></tr><tr><td>Finnish – fin</td><td>Serbian – srp</td></tr><tr><td>French – fre</td><td>Slovak – slo</td></tr><tr><td>German – ger</td><td>Slovenian – slv</td></tr><tr><td>Greek – gre</td><td>Spanish – spa</td></tr><tr><td>Hungarian – hun</td><td>Swedish – swe</td></tr><tr><td>Icelandic – ice</td><td>Ukranian – ukr</td></tr><tr><td>Irish – gle</td><td>no language – zxx</td></tr></table>	Albanian – alb	Italian – ita	Bosnian – bos	Latvian – lav	Bulgarian – bul	Lithuanian – lit	Croatian – hrv	Luxembourgish – ltz	Czech – cze	Maltese – mlt	Danish – dan	Norwegian – nor	Dutch – dut	Polish – pol	English – eng	Portuguese – por	Estonian – est	Romanian – rum	Finnish – fin	Serbian – srp	French – fre	Slovak – slo	German – ger	Slovenian – slv	Greek – gre	Spanish – spa	Hungarian – hun	Swedish – swe	Icelandic – ice	Ukranian – ukr	Irish – gle	no language – zxx
	Albanian – alb	Italian – ita																																
Bosnian – bos	Latvian – lav																																	
Bulgarian – bul	Lithuanian – lit																																	
Croatian – hrv	Luxembourgish – ltz																																	
Czech – cze	Maltese – mlt																																	
Danish – dan	Norwegian – nor																																	
Dutch – dut	Polish – pol																																	
English – eng	Portuguese – por																																	
Estonian – est	Romanian – rum																																	
Finnish – fin	Serbian – srp																																	
French – fre	Slovak – slo																																	
German – ger	Slovenian – slv																																	
Greek – gre	Spanish – spa																																	
Hungarian – hun	Swedish – swe																																	
Icelandic – ice	Ukranian – ukr																																	
Irish – gle	no language – zxx																																	
Example		Cze																																

3.2.8 Topic category

EGDI Profile	Reference number	8
	Title	Topic category
	Obligation	Mandatory
	Max. occurrence	[1..*]
	Comment	“geoscientificInformation” should be filled (plus any other additional category, if applicable)
INSPIRE IR	Reference	B 2.1
	Title	Topic category
	Obligation	- mandatory for datasets and data set series. - not applicable for services and applications.
	Max. occurrence	[1..*]
ISO 19115	Number	41
	Title	topicCategory
	Definition	Main theme(s) of the dataset
	XPath	identificationInfo[1]/*/topicCategory
	Data type	MD_TopicCategory
	Domain	Enumeration (See B.5.27 of ISO 19115 or Part D 2 of the INSPIRE Implementing Rules for Metadata)
Example		geoscientificInformation

3.2.9 Service type

EGDI Profile	Reference number	9
	Title	Service type
	Obligation	Mandatory for services
	Max. occurrence	[1]
	Comment	Type of service according to the INSPIRE service types, or determination of other types of services (OGC, ESRI)
INSPIRE IR	Reference	B 2.2
	Title	Spatial data service type
	Obligation	- not applicable for datasets and data set series - mandatory for services and applications
	Max. occurrence	[1]
ISO 19119: 2005(E)	Number	Element no.1 in table C.1, Annex C.2.2
	Title	identificationInfo[1]/*/serviceType
	Definition	a service type name from a registry of services
	XPath	identificationInfo[1]/*/serviceType
	Data type	GenericName
	Domain	
Example		WMS

3.2.10 Keyword

EGDI Profile	Reference number	10.1
	Title	Keyword
	Obligation	Mandatory
	Max. occurrence	[1..*]
	Comment	To describe the subject, specific keywords should be selected from controlled vocabularies or thesauri (e.g., INSPIRE GEMET) to ensure consistency and support efficient search functionality in user interfaces. These should consist of commonly used or formalised words or phrases that clearly describe the subject. There should be no fewer than three keywords for each described resource, as many as possible from controlled vocabularies. This is required for the EGDI native metadata and is strongly recommended for any harvestable metadata (i.e. metadata not compliant with the EGDI metadata profile). This recommendation is useful to reach optimal level of FAIRness for FAIR principles F2. The following types of keywords should always be used: 1. One keyword for the INSPIRE theme from the INSPIRE registry has to be filled. 2. At least one keyword from the EGDI Keyword Thesaurus (https://data.geoscience.earth/ncl/EGDI/keyword) should be used 3. Project name identifier in the form of the W3id identification code "https://w3id.org/egdi/project/{id}" should be used 4. For INSPIRE data, a keyword for the spatial scope from the INSPIRE registry (http://inspire.ec.europa.eu/metadata-codelist/SpatialScope) will be provided as a URI via gmx:Anchor. 5. For datasets related to environmental reporting within INSPIRE directive, a Priority dataset keyword is mandatory (from http://inspire.ec.europa.eu/metadata-codelist/PriorityDataset) 6. For the filtering purposes of harvested metadata records from local catalogues, the keyword "EGDI" is recommended to be used in the form of the project identifier "https://w3id.org/egdi/project/101102163" 7. Any free keyword can be added, if needed
INSPIRE IR	Reference	B 3.1
	Title	Keyword value
	Obligation	Mandatory
	Max. occurrence	[1..*]
ISO 19115	Number	53

	Title	Keyword
	Definition	Commonly used word(s) or formalised word(s) or phrase(s) used to describe the subject.
	XPath	identificationInfo[1]/*/descriptiveKeywords/*/keyword
	Data type	CharacterString
	Domain	Free text
Example	1. http://inspire.ec.europa.eu/theme/ge ; Geology 2. https://data.geoscience.earth/ncl/eqdi/keyword/568 3. https://w3id.org/eqdi/project/{id}... 4. http://inspire.ec.europa.eu/metadata-codelist/SpatialScope/national 5. http://inspire.ec.europa.eu/metadata-codelist/PriorityDataset/Boreholes-reco-2014-70 6. https://w3id.org/eqdi/project/101102163	

EGDI Profile	Reference number	10.1
	Title	Keyword with type “stratum”
	Obligation	Optional
	Max. occurrence	[0..*]
	Comment	A keyword with the defined type “stratum” can be added from a thesaurus in the form of URI to describe for ex. the modelled geological units.
INSPIRE IR	Reference	B 3.1
	Title	Keyword value
	Obligation	Mandatory
	Max. occurrence	[1..*]
ISO 19115	Number	53
	Title	Keyword
	Definition	Commonly used word(s) or formalised word(s) or phrase(s) used to describe the subject.
	XPath	identificationInfo[1]/*/descriptiveKeywords/*[type='stratum']/keyword
	Data type	URI (+ CharacterString)
	Domain	URI
Example		http://resource.geolba.ac.at/GeologicUnit/736

EGDI Profile	Reference number	10.1
	Title	Keyword with type “temporal”
	Obligation	Optional
	Max. occurrence	[0..*]

	Comment	A keyword with the defined type “temporal” can be added from a thesaurus in the form of URI to describe for ex. the modelled geological units in the same order as the respective stratum keywords.
INSPIRE IR	Reference	B 3.1
	Title	Keyword value
	Obligation	Mandatory
	Max. occurrence	[1..*]
ISO 19115	Number	53
	Title	Keyword
	Definition	Commonly used word(s) or formalised word(s) or phrase(s) used to describe the subject.
	XPath	identificationInfo[1]/*/descriptiveKeywords/*[type='temporal']/keyword
	Data type	URI (+ CharacterString)
	Domain	URI
<i>Example</i>		https://data.geoscience.earth/ncl/eqdi/keyword/2231

EGDI Profile	Reference number	10.1
	Title	Keyword with type “discipline”
	Obligation	Optional
	Max. occurrence	[0..*]
	Comment	A keyword with the defined type “discipline” can be added from a thesaurus in the form of URI to describe for ex. the modelled geological units.
INSPIRE IR	Reference	B 3.1
	Title	Keyword value
	Obligation	Mandatory
	Max. occurrence	[1..*]
ISO 19115	Number	53
	Title	Keyword
	Definition	Commonly used word(s) or formalised word(s) or phrase(s) used to describe the subject.
	XPath	identificationInfo[1]/*/descriptiveKeywords/*[type='discipline']/keyword
	Data type	URI (+ CharacterString)
	Domain	URI
<i>Example</i>		https://data.geoscience.earth/ncl/eqdi/keyword/568

3.2.11 Originating controlled vocabulary

EGDI Profile	Reference number	10.2
	Title	Originating controlled vocabulary
	Obligation	Conditional – if the keyword comes from a controlled thesaurus, citation of the thesaurus has to be filled (at least the title and reference date with the date type).
	Max. occurrence	[1..*]
	Comment	
INSPIRE IR	Reference	B 3.2
	Title	Originating controlled vocabulary
	Obligation	Conditional. Mandatory for datasets, data set series and services related directly to INSPIRE.
	Max. occurrence	[1..*]
ISO 19115	Number	55
	Title	thesaurusName
	Definition	Name of the formally registered thesaurus or a similar authoritative source of keywords.
	XPath	identificationInfo[1]/*/descriptiveKeywords/*/thesaurusName
	Data type	CI_Citation
	Domain	The following properties are expected: - Title of type CharacterString (Free text) - Reference date defined as: - A date type: creation, revision or publication - An effective date
Example		GEMET - INSPIRE themes, version 1.0; date: 2008-06-01; date type: publication

3.2.12 Geographic location

EGDI Profile	Reference number	11.1
	Title	Geographic location
	Obligation	Mandatory for datasets, conditional for services
	Max. occurrence	[1..*]
	Comment	Defined by the western and eastern longitude and southern and northern latitude in decimal degrees (2 digits precision) in the WGS-84 coordinate system.
INSPIRE IR	Reference	B 4.1
	Title	Geographic bounding box

	Obligation	• Mandatory for datasets and data set series • Conditional for services: mandatory for services with explicitly expressed geographic extent
	Max. occurrence	[1..*] for datasets and data set series [0..*] for services
ISO 19115	Number	343
	Title	EX_GeographicBoundingBox
	Definition	geographic position of the dataset. This is only an approximate reference so specifying the coordinate reference system is unnecessary.
	XPath	identificationInfo[1]/*/extent/*/geographicElement/EX_GeographicBoundingBox
	Data type	EX_GeographicExtent
	Domain	Lines 344-347 and 340
Example		11.62 19.19 48.01 51.56

3.2.13 Geographic identifier

EGDI Profile	Reference number	11.2
	Title	Geographic identifier
	Obligation	Optional
	Max. occurrence	[0..*]
	Comment	The extent of the whole country is selected from the https://op.europa.eu/en/web/eu-vocabularies/at-dataset/-/resource/dataset/country vocabulary
–INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
ISO 19115	Number	349
	Title	geographicIdentifier
	Definition	identifier used to represent a geographic area
	XPath	identificationInfo/*/extent/*/geographicElement/*/geographicIdentifier
	Data type	MD_Identifier
	Domain	URI representing the geographic identification of the resource extent
Example		http://publications.europa.eu/resource/authority/country/CZE

3.2.14 Presentation form

EGDI Profile	Reference number	12
	Title	Presentation form
	Obligation	Mandatory for 3D models
	Max. occurrence	[1..*] for 3D models
	Comment	For 3D models choose “model digital” from the codelist. Not applicable for services.
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
ISO 19115	Number	368
	Title	presentationForm
	Definition	mode in which the resource is represented
	XPath	identificationInfo[1]/*/citation/*/presentationForm
	Data type	Class
	Domain	CI_PresentationFormCode (Codelist B.5.4)
<i>Example</i>		<i>model digital</i>

3.2.15 Edition

EGDI Profile	Reference number	13
	Title	Edition
	Obligation	Conditional for 3D models – if there are/will be more versions of the model, it is mandatory to fill this element
	Max. occurrence	[0..*]
	Comment	Version number (model identifier) and optionally also text description (for ex. relation to previous model versions)
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
ISO 19115	Number	363
	Title	Edition
	Definition	Version of the cited resource
	XPath	identificationInfo[1]/*/citation/*/edition
	Data type	CharacterString
	Domain	Free text
<i>Example</i>		<i>Version 2; based on new geophysical survey</i>

3.2.16 Reference date

EGDI Profile	Reference number	14.1
	Title	Reference date
	Obligation	Mandatory
	Max. occurrence	[1..*]
	Comment	Date of creation must be filled, optionally also other types of reference dates can be added (publication date/date of the last revision).
INSPIRE IR	Reference	B 5.4, optionally also B 5.3 or B 5.2
	Title	Date of creation
	Obligation	Conditional: At least one temporal reference is required.
	Max. occurrence	[0..*] but at least one temporal reference is required.
ISO 19115	Number	362
	Title	Date
	Definition	Reference date for the cited resource
	XPath	identificationInfo[1]/*/citation/*/date
	Data type	Class
	Domain	CI_Date (B.3.2.4) <<DataType>>
Example		2018-06-30; Date of creation

3.2.17 Resource temporal extent

EGDI Profile	Reference number	14.2
	Title	Resource temporal extent
	Obligation	Optional
	Max. occurrence	[0..*]
	Comment	This element should be filled if the resource has a temporal extent (either as a time instant, or a range of dates of validity). In case the time period is open-ended with either the start or the end date unknown, the elements gml:startPosition or gml:endPosition may be used with an empty value and the attribute indeterminatePosition with value "unknown". If the temporal extent is on-going, the gml:endPosition may be used with an empty value and the attribute indeterminatePosition with value "now". If the dataset is no longer available due to obsolescence or lack of updates, both the start date (gml:startPosition) and the end date (gml:endPosition) must be provided. This is required for the EGDI native metadata and is strongly recommended for any harvestable metadata (i.e. metadata not compliant with the EGDI metadata profile). This recommendation helps achieve an optimal level of FAIRness, in line with FAIR Principle A2.
INSPIRE IR	Reference	B 5.1
	Title	Temporal extent
	Obligation	Conditional: At least one temporal reference is required.
	Max. occurrence	[0..*] but at least one temporal reference is required.
ISO 19115	Number	337
	Title	temporalElement
	Definition	provides temporal component of the extent of the referring object
	XPath	identificationInfo/*/extent/*/temporalElement/*/EX_TemporalExtent/extent
	Data type	Association
	Domain	EX_TemporalExtent (B.3.1.3)
Example		2002-01-30 - now

3.2.18 Status

EGDI Profile	Reference number	14.3
	Title	Status
	Obligation	Conditional - it is mandatory to fill in the value "obsolete" for outdated data
	Max. occurrence	[0..*]
	Comment	status of the resource(s).
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
ISO 19115	Number	28
	Title	status
	Definition	status of the resource(s)
	XPath	identificationInfo[1]/*/status
	Data type	class
	Domain	MD_ProgressCode <<CodeList>> (B.5.23)
Example		Obsolete

3.2.19 Lineage

EGDI Profile	Reference number	15
	Title	Lineage
	Obligation	Mandatory
	Max. occurrence	[1]
	Comment	Description of the history of processing and/or the overall quality of the dataset, including information on the input data, SW used, if the data/model has been approved etc. Lineage description should have at least 50 characters. This is required for the EGDI native metadata profile and is strongly recommended for any harvestable metadata (i.e., metadata not compliant with the EGDI metadata profile). This recommendation is useful to reach optimal level of FAIRness for FAIR principles I1, I2 and I3. Not applicable for services.
INSPIRE IR	Reference	B 6.1
	Title	Lineage
	Obligation	Mandatory for data sets and data set series
	Max. occurrence	[1]
ISO 19115	Number	83
	Title	statement
	Definition	general explanation of the data producer's knowledge about the lineage of a dataset
	XPath	dataQualityInfo/*/lineage/*/statement
	Data type	CharacterString
	Domain	Free text
Example		<i>Detailed model is a specification of the regional model, with emphasis put on the central part containing the exploratory area. The model itself was created in MOVE software and was submitted in native MOVE format and in 3D PDF format.</i>

3.2.20 Spatial resolution

EGDI Profile	Reference number	16
	Title	Spatial resolution – Scale/Distance
	Obligation	Conditional – mandatory, if the scale or spatial resolution can be determined
	Max. occurrence	[0..*]
	Comment	It's possible to indicate a range of scales for which the data/model can be usable (repeatable item)

INSPIRE IR	Reference	Part B 6.2
	Title	Spatial resolution
	Obligation	- conditional: mandatory for datasets and data set series where the scale or spatial resolution can be determined - conditional: mandatory when there is a limitation of the spatial resolution of the service
	Max. occurrence	[0..*]
ISO 19115	Number	38
	Title	spatialResolution
	Definition	factor which provides a general understanding of the density of spatial data in the dataset
	XPath	identificationInfo/*/spatialResolution
	Data type	Class
	Domain	MD_Resolution <<Union>> (B.2.2.5)
Example		50000 100 m

3.2.21 Conformity – Specification

EGDI Profile	Reference number	17.1
	Title	Conformity - specification
	Obligation	Mandatory
	Max. occurrence	[1..*]
	Comment	Citation of the implementing rules adopted according to the Article 7, section 1 of the 2007/2/ES Directive (INSPIRE). If the dataset or data set series are not within the scope of INSPIRE, fill in the citation of the Directive and then the element 17.2 will have the value “false”.
INSPIRE IR	Reference	B 7.1
	Title	Specification
	Obligation	Mandatory
	Max. occurrence	[1] understood in the context of a conformity statement when reported in the metadata – there may be more than one conformity statement.
ISO 19115	Number	130
	Title	specification
	Definition	citation of the product specification or user requirement against which data is being evaluated.
	XPath	dataQualityInfo/*/report/DQ_DomainConsistency/result/DQ_ConformanceResult/specification
	Data type	CI_Citation

	Domain	The following properties are expected: • title of type CharacterString (Free text); • reference date defined as: ○ an effective date; ○ a date type: creation, revision or publication.
<i>Example</i>		<i>COMMISSION REGULATION (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services</i> <i>Reference date: 2010-12-08</i> <i>Type: publication</i>

3.2.22 Conformity - Degree

EGDI Profile	Reference number	17.2
	Title	Conformity - Degree
	Obligation	Mandatory
	Max. occurrence	[1]
	Comment	True = conformant, False = non-conformant, Blank field = not evaluated
INSPIRE IR	Reference	B 7.2
	Title	Degree
	Obligation	Mandatory
	Max. occurrence	[1] Understood in the context of a conformity statement when reported in the metadata – there may be more than one conformity statement.
ISO 19115	Number	132
	Title	Pass
	Definition	indication of the conformance result
	XPath	dataQualityInfo/*/report/*/result/*/pass
	Data type	Boolean
	Domain	• true if conformant • false if not conformant
<i>Example</i>		<i>false</i>

3.2.23 Conditions applying to access and use

EGDI Profile	Reference number	18.1
	Title	Conditions applying to access and use
	Obligation	Mandatory
	Max. occurrence	[1..*]
	Comment	A description of the conditions applying to access and use of the dataset or model must be provided, including any applicable fees or restrictions. This information may be given as a textual statement or via a URL linking to an official document (e.g., a license agreement or data policy). For licensing, the "Use Constraints" element shall be set to otherRestrictions. The "Other Constraints" element must then specify the licensing terms, either as free-text (e.g., "CC-BY 4.0") or by providing a direct link to the license¹. If the dataset or model does not conform to the default open license (CC-BY 4.0), these deviations must be explicitly declared in the metadata. If absence of such a declaration, fill in from the list of values "no conditions to access and use"². This is required for the EGDI native metadata profile and is strongly recommended for any harvestable metadata (i.e. metadata not compliant with the EGDI metadata profile). This recommendation helps achieve an optimal level of FAIRness, in line with FAIR Principles R1.1, R1.2 and R1.3.
INSPIRE IR	Reference	B 8.1
	Title	Conditions applying to access and use
	Obligation	Mandatory
	Max. occurrence	[1..*]
ISO 19115	Number	71
	Title	useConstraints
	Definition	constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations or warnings on using the resource or metadata
	XPath	identificationInfo[1]/*/resourceConstraints/MD_LegalConstraints/otherConstraints
	Data type	CharacterString

¹ e.g. <https://creativecommons.org/licenses/by/4.0/>

² from the INSPIRE codelist <http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse> that is available in the metadata catalogue

	Domain	Free text
ISO 19115	Number	72
	Title	otherConstraints
	Definition	other restrictions and legal prerequisites for accessing and using the resource or metadata
	XPath	identificationInfo[1]/*/resourceConstraints/*/otherConstraints
	Data type	CharacterString
	Domain	Free text
Example		<i>Other restrictions;</i> http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown ; <i>conditions to access and use unknown</i>

3.2.24 Limitations on public access

EGDI Profile	Reference number	18.2
	Title	Limitations on public access
	Obligation	Mandatory
	Max. occurrence	[1..*]
	Comment	Description of a reason of a limitation on public access to a dataset or a service according to the Article 13 of the 2007/2/ES Directive. Fill in the element “Access Constraints” = „otherRestrictions“ and in the element otherConstraints fill in the information about limitations on access (for INSPIRE data, choose from the INSPIRE codelist http://inspire.ec.europa.eu/metadata-codelist/LimitationsOnPublicAccess). If there are no limitations, fill in “no limitations to public access” (http://inspire.ec.europa.eu/metadata-codelist/LimitationsOnPublicAccess/noLimitations from the INSPIRE codelist). You can also mark the data as “open data” in this element.
INSPIRE IR	Reference	B 8.2
	Title	Limitations on public access
	Obligation	Mandatory
	Max. occurrence	[1..*]
ISO 19115	Number	70
	Title	accessConstraints
	Definition	access constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations on obtaining the resource.

	XPath	identificationInfo[1]/*/resourceConstraints/MD_LegalConstraints/accessConstraints
	Data type	MD_RestrictionCode
	Domain	Codelist (strictly limited to the value defined in B.5.24 of ISO 19115)
ISO 19115	Number	72
	Title	otherConstraints
	Definition	other restrictions and legal prerequisites for accessing and using the resource or metadata.
	XPath	identificationInfo[1]/*/resourceConstraints/*/otherConstraints
	Data type	CharacterString
	Domain	Free text
ISO 19115	Number	74
	Title	classification
	Definition	name of the handling restrictions on the resource.
	XPath	identificationInfo[1]/*/resourceConstraints/MD_LegalConstraints/classification
	Data type	MD_ClassificationCode
	Domain	Codelist (See B.5.11 of ISO 19115)
Example		http://inspire.ec.europa.eu/metadata-codelist/LimitationsOnPublicAccess/noLimitations

3.2.25 Responsible party

EGDI Profile	Reference number	19
	Title	Responsible party
	Obligation	Minimum required information – name of the organization, name of the author of the dataset/model, email address, country, role
	Max. occurrence	[1..*]
	Comment	The organization name should be filled in English. Organization or person who is the primary provider of the dataset or service will have the role “custodian” (each described resource should have a custodian). The custodian has the right to commission other organization to create the data source – this organization will have the role “originator” or “author” (in case of enforcing the intellectual property rights to the data source). All institutions or organizations that buy or take over the rights to use the data source will have the role “user”. Organization identifier should be filled in the form of the W3id identification code “https://w3id.org/egdi/organisation/{id}”. To fill in the country identifier, it is recommended to use the official EU codelist which relies on the ISO 3166-1 alpha-3 code international standard: https://op.europa.eu/en/web/eu-vocabularies/dataset/-/resource?uri=http://publications.europa.eu/resource/dataset/country
INSPIRE IR	Reference	B 9.1
	Title	Responsible party
	Obligation	Mandatory
	Max. occurrence	[1..*]
ISO 19115	Number	29
	Title	pointOfContact
	Definition	identification of, and means of communication with, person(s) and organization(s) associated with the resource(s)
	XPath	identificationInfo[1]/*/pointOfContact
	Data type	CI_ResponsibleParty
	Domain	The following properties are expected: • organisationName : CharacterString • contactInfo: ○ address: ▪ electronicMailAddress [1..*] : CharacterString

<i>Example</i>	Czech Geological Survey (CGS) Klárov 3, Praha 1, 118 21, Czech Republic metadata@geology.cz role: custodian or (still in development) https://ki-landing.gic.geo-zs.si/organisations/26 role: custodian
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3.2.26 Data quality scope

EGDI Profile	Reference number	20
	Title	Data quality scope
	Obligation	Mandatory
	Max. occurrence	[1]
	Comment	Denomination if the data quality information is applied to the whole dataset or only its part (object class, attributes, ...). Not applicable for services.
INSPIRE IR	Reference	3.1.4.1
	Title	Scope
	Obligation	Mandatory
	Max. occurrence	[1]
ISO 19115	Number	79/139
	Title	level
	Definition	hierarchical level of the data specified by the scope
	XPath	dataQualityInfo/*/scope/
	Data type	Class
	Domain	MD_ScopeCode <<CodeList>> (B.5.25)
<i>Example</i>		<i>dataset</i>

3.2.27 Coordinate reference system

EGDI Profile	Reference number	21
	Title	Coordinate reference system
	Obligation	Mandatory for datasets, optional for services
	Max. occurrence	[1..*]
	Comment	Description of the coordinate reference system(s) used in the dataset (EPSG code and URL).
INSPIRE IR	Reference	Metadata for interoperability (1)
	Title	Coordinate Reference System
	Obligation	Mandatory
	Max. occurrence	[1..*]
ISO 19115	Number	13

	Title	referenceSystemInfo
	Definition	description of the spatial and temporal reference systems used in the dataset
	XPath	referenceSystemInfo/*/referenceSystemIdentifier
	Data type	Association
	Domain	MD_ReferenceSystem (B.2.7)
<i>Example</i>		code: http://www.opengis.net/def/crs/EPSSG/0/5514 ; EPSG 5514

3.2.28 Vertical reference system

EGDI Profile	Reference number	22
	Title	Vertical reference system
	Obligation	Mandatory for 3D models
	Max. occurrence	[1]
	Comment	Description of the vertical reference system used in the dataset (EPSG code and URL).
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile but uses the same metadata elements as the element "Coordinate reference system"
ISO 19115	Number	13
	Title	referenceSystemInfo
	Definition	description of the spatial and temporal reference systems used in the dataset
	XPath	referenceSystemInfo/*/referenceSystemIdentifier
	Data type	Association
	Domain	MD_ReferenceSystem (B.2.7)
<i>Example</i>		code: http://www.opengis.net/def/crs/EPSSG/0/5705 ; EPSG 5705

3.2.29 Model vertical extent

EGDI Profile	Reference number	23.1
	Title	Minimum
	Obligation	Conditional for 3D models
	Max. occurrence	[1]

	Comment	Fill in the numerically smaller vertical limit of the model interlinked with the reference system in element 23.3 (local system or a defined vertical coordinate system). If you want to describe the model depth in a local system, choose Local (EPSG code 1049) and enter positive value (Z axis is in the direction from the surface to the Earth's core). Conditional in the context of the whole element 23 – if the 23.1 element is filled, then 23.2 and 23.3 must also be filled.
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
ISO 19115	Number	355
	Title	minimumValue
	Definition	lowest vertical extent contained in the dataset
	XPath	identificationInfo[1]/*/extent/*/verticalElement/EX_VerticalExtent
	Data type	Real
	Domain	Real
<i>Example</i>		<i>500</i>

EGDI Profile	Reference number	23.2
	Title	Maximum
	Obligation	Conditional for 3D models
	Max. occurrence	[1]
	Comment	Fill in the numerically larger vertical limit of the model interlinked with the reference system in element 23.3 (local system or a defined vertical coordinate system). If you want to describe the model depth in a local system, choose Local (EPSG code 1049) and enter positive value (Z axis is in the direction from the surface to the Earth's core). Conditional in the context of the whole element 23 – if the 23.2 element is filled, then 23.1 and 23.3 must also be filled.
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
ISO 19115	Number	356
	Title	maximumValue
	Definition	highest vertical extent contained in the dataset
	XPath	identificationInfo[1]/*/extent/*/verticalElement/EX_VerticalExtent
	Data type	Real
	Domain	Real
<i>Example</i>		<i>2500</i>

EGDI Profile	Reference number	23.3
	Title	Vertical extent reference system
	Obligation	Conditional for 3D models
	Max. occurrence	[1]
	Comment	The vertical reference system that is used in the vertical extent elements (EPSG code and URL). It can be a local system (depth from the surface) – EPSG 1049. Mandatory, if elements 23.1 and 23.2 are filled.
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
ISO 19115	Number	13
	Title	referenceSystemInfo
	Definition	description of the spatial and temporal reference systems used in the dataset
	XPath	referenceSystemInfo/*/referenceSystemIdentifier
	Data type	Association
	Domain	MD_ReferenceSystem (B.2.7)
Example		http://www.openqgis.net/def/crs/EPSG/0/1049

3.2.30 Distribution format

EGDI Profile	Reference number	24
	Title	Distribution format
	Obligation	Mandatory
	Max. occurrence	[1..*]
	Comment	The value can be either selected from the INSPIRE codelist, or entered as a freetext (especially in the case of specialized modelling SW). This element will be given as a URI via gmx:Anchor for the name of the distribution format <gmd:name>
INSPIRE IR	Reference	Metadata for interoperability (3)
	Title	Encoding
	Obligation	Mandatory
	Max. occurrence	[1..*]
ISO 19115	Number	271
	Title	distributionFormat
	Definition	provides a description of the format of the data to be distributed
	XPath	distributionInfo/*/distributionFormat
	Data type	Association
	Domain	MD_Format (B.2.10.4)
Example		https://www.iana.org/assignments/media-types/application/gml+xml

3.2.31 Spatial Representation Type

EGDI Profile	Reference number	25
	Title	Spatial representation type
	Obligation	Mandatory
	Max. occurrence	[1..*]
	Comment	This refers to how geographic data are structured spatially, such as points, lines, polygons, surface, volume, (TIN) triangular networks (vector), pixel grids, coverages and voxel (raster) or tabular data and databases (textTable). The value must be selected from the official INSPIRE codelist “MD_SpatialRepresentationTypeCode”³. This is required for the EGDI native metadata and is strongly recommended for any harvestable metadata (i.e. metadata not compliant with the EGDI metadata profile). This recommendation helps achieve an optimal level of FAIRness, in line with FAIR Principles I1 and I2. Not applicable for services.
INSPIRE IR	Reference	Chapter. 8 INSPIRE Data Specification on ... – Guidelines
	Title	Data Identification – Spatial Representation Type
	Obligation	Mandatory. Optional for themes from annex I/5
	Max. occurrence	[0..*]
ISO 19115	Number	37
	Title	spatialRepresentationType
	Definition	method used to spatially represent geographic information
	XPath	identificationInfo/*/spatialRepresentationType
	Data type	Class
	Domain	MD_SpatialRepresentationTypeCode <<CodeList>> (B.5.26)
Example		<i>tin</i>

³ <https://inspire.ec.europa.eu/metadata-codelist/SpatialRepresentationType>

3.2.32 Maintenance and Update Frequency

EGDI Profile	Reference number	26
	Title	Maintenance and Update Frequency
	Obligation	Optional
	Max. occurrence	[0..1]
	Comment	If the desired interval is not present in the maintenanceAndUpdateFrequencyodelist, fill in the value “unknown” and in the userDefinedMaintenanceFrequency element fill the appropriate interval in accordance with the ISO 8601: P<number><period>, where period is Y – year, M-month, D-day, H-hour, for ex. “P5Y” denominates the period of 5 years. To improve metadata quality and ensure that the declared update frequency is adequate and correctly evaluated, a “timeliness” indicator should be considered. Datasets should provide the most up-to-date data available, assessed by comparing the metadata publication date with the declared update frequency. The FAIR validation will check the following condition: “[Today (date) - gmd:dateStamp@Date < gmd:MD_MaintenanceFrequencyCode (value)]”. This recommendation helps achieve an optimal level of FAIRness, in line with FAIR Principle F2. Not applicable for services.
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
ISO 19115	Number	30
	Title	resourceMaintenance
	Definition	provides information about the frequency of resource updates, and the scope of those updates
	XPath	identificationInfo/*/resourceMaintenance/*/maintenanceAndUpdateFrequency, and if needed identificationInfo/*/resourceMaintenance/*/userDefinedMaintenanceFrequency
	Data type	Class
	Domain	MD_MaintenanceFrequencyCode <<CodeList>> (B.5.18), TM_PeriodDuration
Example		unknown, P3Y

3.2.33 Purpose

EGDI Profile	Reference number	27
	Title	Purpose
	Obligation	optional
	Max. occurrence	[0..1]
	Comment	Summary of purposes for which the data source was created (internal project identifier, scope, legislative purposes, type of data/model, ...).
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
ISO 19115	Number	26
	Title	purpose
	Definition	summary of the intentions with which the resource(s) was developed
	XPath	identificationInfo/*/purpose
	Data type	CharacterString
	Domain	Free text
Example		Project nr. 321560

3.2.34 Metadata point of contact

EGDI Profile	Reference number	28.1
	Title	Metadata point of contact
	Obligation	Minimum required information – name of the organization (name should be filled in English), email address (generic organization email is recommended), country, role
	Max. occurrence	[1..*]
	Comment	Role must be “pointOfContact” for at least one organization. Organization identifier should be filled in the form of the W3id identification code “https://w3id.org/egdi/organisation/{id} “. To fill in the country identifier, it is recommended to use the official EU codelist which relies on the ISO 3166-1 alpha-3 code international standard: https://op.europa.eu/en/web/eu-vocabularies/dataset/-/resource?uri=http://publications.europa.eu/resource/dataset/country
INSPIRE IR	Reference	B 10.1
	Title	Metadata point of contact
	Obligation	Mandatory
	Max. occurrence	[1..*]
ISO 19115	Number	8
	Title	contact

	Definition	party responsible for the metadata information.
	XPath	contact
	Data type	CI_ResponsibleParty
	Domain	The following properties are expected: • organisationName : CharacterString • electronicMailAddress [1..*] : CharacterString • role : CI_RoleCode
Example		<i>Czech Geological Survey (CGS)</i> metadata@geology.cz <i>role: point of contact</i> or (still in development) https://ki-landing.gic.geo-zs.si/organisations/26 <i>role: point of contact</i>

3.2.35 Metadata date

EGDI Profile	Reference number	28.2
	Title	Metadata date
	Obligation	Mandatory
	Max. occurrence	[1]
	Comment	Date stamp is created automatically.
INSPIRE IR	Reference	B 10.2
	Title	Metadata date
	Obligation	Mandatory
	Max. occurrence	[1]
ISO 19115	Number	9
	Title	dateStamp
	Definition	Date that the metadata was created.
	XPath	dateStamp
	Data type	Date
	Domain	ISO 8601
Example		2018-06-30

3.2.36 Metadata language

EGDI Profile	Reference number	28.3																																
	Title	Metadata language																																
	Obligation	Mandatory																																
	Max. occurrence	[1]																																
	Comment	It is mandatory to have metadata records for EGDI projects in English + optionally in national language.																																
INSPIRE IR	Reference	B 10.3																																
	Title	Metadata language																																
	Obligation	Mandatory																																
	Max. occurrence	[1]																																
ISO 19115	Number	3																																
	Title	language																																
	Definition	Language used for documenting metadata.																																
	XPath	language																																
	Data type	LanguageCode (ISO/TS 19139)																																
	Domain	Codelist (See ISO/TS 19139) based on alpha-3 codes of ISO 639-2. Use only three-letter codes from in ISO 639-2/B (bibliographic codes), as defined at http://www.loc.gov/standards/iso639-2/ The list of codes for the 23 official EU languages is: <table><tr><td>Albanian – alb</td><td>Italian – ita</td></tr><tr><td>Bosnian – bos</td><td>Latvian – lav</td></tr><tr><td>Bulgarian – bul</td><td>Lithuanian – lit</td></tr><tr><td>Croatian – hrv</td><td>Luxembourgish – ltz</td></tr><tr><td>Czech – cze</td><td>Maltese – mlt</td></tr><tr><td>Danish – dan</td><td>Norwegian – nor</td></tr><tr><td>Dutch – dut</td><td>Polish – pol</td></tr><tr><td>English – eng</td><td>Portuguese – por</td></tr><tr><td>Estonian – est</td><td>Romanian – rum</td></tr><tr><td>Finnish – fin</td><td>Serbian – srp</td></tr><tr><td>French – fre</td><td>Slovak – slo</td></tr><tr><td>German – ger</td><td>Slovenian – slv</td></tr><tr><td>Greek – gre</td><td>Spanish – spa</td></tr><tr><td>Hungarian – hun</td><td>Swedish – swe</td></tr><tr><td>Icelandic – ice</td><td>Ukranian – ukr</td></tr><tr><td>Irish – gle</td><td></td></tr></table>	Albanian – alb	Italian – ita	Bosnian – bos	Latvian – lav	Bulgarian – bul	Lithuanian – lit	Croatian – hrv	Luxembourgish – ltz	Czech – cze	Maltese – mlt	Danish – dan	Norwegian – nor	Dutch – dut	Polish – pol	English – eng	Portuguese – por	Estonian – est	Romanian – rum	Finnish – fin	Serbian – srp	French – fre	Slovak – slo	German – ger	Slovenian – slv	Greek – gre	Spanish – spa	Hungarian – hun	Swedish – swe	Icelandic – ice	Ukranian – ukr	Irish – gle	
	Albanian – alb	Italian – ita																																
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Czech – cze	Maltese – mlt																																	
Danish – dan	Norwegian – nor																																	
Dutch – dut	Polish – pol																																	
English – eng	Portuguese – por																																	
Estonian – est	Romanian – rum																																	
Finnish – fin	Serbian – srp																																	
French – fre	Slovak – slo																																	
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Greek – gre	Spanish – spa																																	
Hungarian – hun	Swedish – swe																																	
Icelandic – ice	Ukranian – ukr																																	
Irish – gle																																		
Example		cze																																

3.2.37 File identifier

EGDI Profile	Reference number	29
	Title	File identifier
	Obligation	Mandatory
	Max. occurrence	[1]
	Comment	Identifier of the metadata file in the form of automatically generated UUID
INSPIRE IR	Reference	2.2.1 (Technical Guidance for the implementation of INSPIRE dataset and service metadata based on ISO/TS 19139:2007)
	Title	File identifier
	Obligation	Mandatory
	Max. occurrence	[1]
ISO 19115	Number	2
	Title	fileIdentifier
	Definition	unique identifier for this metadata file
	XPath	fileIdentifier
	Data type	CharacterString
	Domain	Free text
<i>Example</i>		<i>00d32154-1656-4fcc-9ddd-6dbe9a1baeb0</i>

3.2.38 Parent identifier

EGDI Profile	Reference number	30
	Title	Parent identifier
	Obligation	Optional
	Max. occurrence	[0..1]
	Comment	Identifier of the parent metadata file (for ex. if a dataset belongs to a data set series). Not applicable for services.
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
ISO 19115	Number	5
	Title	parentIdentifier
	Definition	file identifier of the metadata to which this metadata is a subset (child)
	XPath	parentIdentifier
	Data type	CharacterString
	Domain	Free text
<i>Example</i>		<i>00d32154-1656-4fcc-9ddd-6dbe9a1baeb0</i>

3.2.39 Source

EGDI Profile	Reference number	31
	Title	Source
	Obligation	Optional
	Max. occurrence	[0..*]
	Comment	A possibility to describe sources of information of the dataset. Not applicable for services.
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
ISO 19115	Number	85
	Title	source
	Definition	information about the source data used in creating the data specified by the scope
	XPath	dataQualityInfo/*/lineage/*/source/*/sourceCitation/xlink:href
	Data type	Association
	Domain	LI_Source (B.2.4.2.3)
<i>Example</i>		https://egdi.geology.cz/csw/?SERVICE=CSW&VERSION=2.0.2&REQUEST=GetRecordById&OUTPUTSCHEMA=http://www.isotc211.org/2005/qmd&ID=5da71399-e67c-44b7-8596-04610a010833#cit-5da71399-e67c-44b7-8596-04610a010833

3.2.40 Graphic overview

EGDI Profile	Reference number	32
	Title	Graphic overview
	Obligation	Optional
	Max. occurrence	[0..*]
	Comment	A graphic image that illustrates the described resource
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
ISO 19115	Number	31
	Title	graphicOverview
	Definition	provides a graphic that illustrates the resource(s) (should include a legend for the graphic)
	XPath	identificationInfo[1]/*/graphicOverview/*/fileName
	Data type	Association
	Domain	MD_BrowseGraphic (B.2.2.2)
<i>Example</i>		<i>path to the image</i>

References

- EN ISO 19115 Geographic Information – Metadata, 2003
- Czech National Metadata Profile, version 4.2 (5.2.2020, TWG Metadata)
- EC Directive 2007/2/EC (INSPIRE)
- EC REGULATION No 1205/2008 (Metadata)
- Technical Guidelines for implementing dataset and service metadata based on ISO/TS 19139:2007, version 2.0.1, 2017-03-02
- FAIR Data Maturity Model Working Group. (2020). FAIR Data Maturity Model: Specification and Guidelines (Version 1.0). Research Data Alliance. <https://doi.org/10.15497/RDA00050>
- JRC FAIR Data Guidelines. (2025). JRC FAIR Data Guidelines. Publications Office of the European Union. <https://doi.org/10.2760/5646214>
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