





EGDI Metadata profile

Methodology for the unified metadata description of the results of GeoERA projects within the European Geological Data Infrastructure (EGDI) with the extension to describe 3D geological models

Document version	Date	Authors
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Abstract

This document has been created within Work Package 7 of the GeoERA GIP-P project and defines a unified methodology for a structured metadata description of the results of GeoERA projects (structured data that will be included in the European Geological Data Infrastructure (EGDI)) with the extension to unify the description of 3D geological models.

1 Used abbreviations

EGDI	European Geological Data Infrastructure	
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	
MIcKA	MetaInformation Catalogue	

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 within (but not exclusively) the GeoERA consortium. 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.

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	INSPIRE	MD element title	Obligation/condition according to described data source [Maximum occurrence]		
nr. profile nr.		IND CICINCIII IIIC	"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*]
15	6.1	Lineage	[1]	[1]	not applicable
16	6.2	Spatial resolution - Scale/Distance	esolution - [0*] [0*] not		not applicable
17.1	7.1	Conformity – Specification	[1*]		[1*]
17.2	7.2	Conformity - Degree	[1]	[1]	[1]
18.1	8.1	Conditions applying to access and use	ions applying to		[1*]
18.2	8.2	Limitations on public access			[1*]
19	9.1	Responsible party [1*]		[1*]	[1*]
20	12	Data quality scope			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		not applicable
24	IOD-3*	Distribution format	[1*]	[1*]	not applicable
25	IOD-6*	Spatial representation [1*] [1*]		not applicable	
26		Maintenance and update frequency	. 10 11 10 11		not applicable
27		Purpose	[01] [01] not app		not applicable
28.1	10.1	Metadata point of contact	ct [1*] [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	[01]	[01]	not applicable

^{*}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

	Reference number	1
EGDI	Title	Resource title
Profile	Obligation	Mandatory
Pione	Max. occurence	[1]
	Comment	
	Reference	B 1.1
INSPIRE IR	Title	Resource title
INSPINEIN	Obligation	Mandatory
	Max. occurence	[1]
	Number	360
	Title	title
ISO 19115	Definition	Name by which the cited resource is known.
130 13113	XPath	identificationInfo[1]/*/citation/*/title
	Data type	CharacterString
	Domain	Free text
Example		Detailed structural geological 3D model of the Březový potok
		candidate site

3.2.2 Resource abstract

	Reference number	2
	Title	Resource abstract
EGDI Profile	Obligation	Mandatory
LGDI FIOIILE	Max. occurence	[1]
		Abstract should contain a brief description of the dataset or how a
	Comment	3D model was created (for ex. "structural geological"), information
		about the used software and data inputs
	Reference	B 1.2
INSPIRE IR	Title	Resource abstract
INSPIRE	Obligation	Mandatory
	Max. occurence	[1]
ISO 19115	Number	25
130 19115	Title	abstract

	Definition	Brief narrative summary of the content of the resource(s).
	XPath	identificationInfo[1]/*/abstract
	Data type	CharacterString
	Domain	Free text
		The detailed 3D structural geological model of the Březový potok
		candidate site summarizes the existing geological knowledge at one
		of the nine sites considered for the planned deep repository of high-
		level radioactive waste in the Czech Republic.
		The area of interest is characterized by simple geological structure
		that includes two lithotectonic units. Metamorphic rocks are of
		Prevariscan protolith, which was significantly reworked during
Example		variscan orogeny between c. 350 – 340 Ma and magmatic rocks of
		south-western margin of Central Bohemian Plutonic Complex which
		intruded into them at age around 345 Ma.
		The detailed 3D structural geological model of the Březový potok
		candidate site was created for SÚRAO (RAWRA) during the course of
		ZL U2304-010 "3D Structural Geological Models" solution. The model
		itself was created in MOVE software and was submitted to SÚRAO in
		native MOVE format and in 3D PDF format.

3.2.3 Resource type

	Reference number	3
	Title	Resource type
EGDI Profile	Obligation	Mandatory
	Max. occurence	[1]
	Comment	For 3D models choose "dataset"
	Reference	B 1.3
INSPIRE IR	Title	Resource Type
INSPIREIR	Obligation	Mandatory
	Max. occurence	[1]
	Number	6
	Title	hierarchyLevel
ISO 19115	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

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

3.2.5 Unique resource identifier

	Reference number	5
	Title	Unique resource identifier
	Obligation	Mandatory
EGDI Profile	Max. occurence	[1*]
		Recommended format is organization ID (for ex. domain name)
	Comment	and identifier of the dataset defined by the data provider, for
		ex. "https://www.domain.org/internal_identifier"
	Reference	B 1.5
INSPIRE IR	Title	Unique resource identifier
INSPIREIR	Obligation	Mandatory for datasets and data set series.
	Max. occurence	[1*]
	Number	365
ISO 19115	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://www.geology.cz/3D-SURAO-KRAVI_HORA

3.2.6 Coupled resource

	Reference number	6.1
	Title	Coupled resource
EGDI Profile	Obligation	Conditional
	Max. occurence	[0*]
	Comment	
	Reference	B 1.6
	Title	Coupled resource
INSPIRE IR		Not applicable for datasets and data set series
INSFIREIR	Obligation	Conditional for spatial data services – mandatory if the
		coupled data sources for the service are available
	Max. occurence	[0*]
	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
ISO 19119:		on
2005(E)	XPath	identificationInfo/SV_ServiceIdentification/operatesOn
	Attribute class or	MD_DataIdentification
	target class of role	WD_Dataidentification
	Domain	
Example		https://egdi.geology.cz/record/basic/5006a106-d66c-4916-
Εχαιτιριε		<u>87bc-91c80a010817</u>

	Reference number	6.2
	Title	Coupling type
EGDI Profile	Obligation	Mandatory for services
	Max. occurence	[1]
	Comment	
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile but is
		required by ISO 19119
ISO 19119:	Number	2.4, table 1, element no.3 from ISO 19119
2005/DAmd	Title	couplingType

1	Definition	Type of coupling between service and associated data (if exists).
	XPath	identificationInfo/*/CouplingType
	Data type	code
	Domain	SV_CouplingType (tight, mixed, loose)
Example		tight

3.2.7 Resource language

	Reference number	7	
50010 (1	Title	Resource language	
	Obligation	Mandatory - if the data doesn't in	nclude any language items,
EGDI Profile	Obligation	please select the "no language" of	pption
	Max. occurence	[1*]	
	Comment		
	Reference	B 1.7	
	Title	Resource language	
INSPIRE IR	Obligation	mandatory, if the data include	es language items
	Obligation	• not applicable for services and	d applications
	Max. occurence	[0*]	
	Number	39	
	Title	language	
	Definition	Language(s) used within the datas	sets
	XPath	identificationInfo[1]/*/language	
	Data type	LanguageCode (ISO/TS 19139)	
ISO 19115	Domain	Codelist (See ISO/TS 19139) based 2. Use only three-letter codes from codes), as defined at http://www The list of codes for the GeoERA providers: Albanian — alb Bosnian — bos Bulgarian — bul Croatian — hrv Czech — cze Danish — dan Dutch — dut English — eng Estonian — est Finnish — fin French — fre German — ger Greek — gre Hungarian — hun Icelandic — ice Irish — gle	m in ISO 639-2/B (bibliographic .loc.gov/standards/iso639-2/
		_	
Example cze			

3.2.8 Topic category

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

3.2.9 Service type

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

3.2.10 Keyword

	Reference number	10.1	
	Title	Keyword	
	Obligation	Mandatory	
	Max. occurence	[1*]	
EGDI Profil	e Comment	1. One keyword for the INSPIRE theme from the INSPIRE registry has to be filled. 2. GeoERA keywords - at least one keyword from the GeoERA thesaurus has to be filled. 3. Project name identifier 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. Any free keyword can be added, if needed. For the filtering purposes of harvested metadata records from local catalogues, the	
	Reference	keyword "EGDI" is recommended. B 3.1	
	Title	Keyword value	
INSPIRE IR	Obligation	Mandatory	
	Max. occurence	[1*]	
	Number	53	
	Title	keyword	
ISO 19115	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	
		opa.eu/theme/ge; Geology ence.earth/ncl/geoera/keyword/568	
Example		nce.earth/egs/projects/35¹; HIKE	
		. http://inspire.ec.europa.eu/metadata-codelist/SpatialScope/national	
		opa.eu/metadata-codelist/PriorityDataset/Boreholes-reco-2014-70	
(6. EGDI		

¹ The final form of the URI for the project vocabularies was not established at the time of publication of this document but will look similarly to the provided example

	Reference number	10.1
	Title	Keyword with type "stratum"
	Obligation	Optional
	Max. occurence	[0*]
EGDI Profile		A keyword with the defined type "stratum" can be
Lobinionic		added from a thesaurus (for ex. GeoERA keyword
	Comment	thesaurus or other officially registered thesaurus) in the
	Comment	form of URI to describe for ex. the modelled geological
		units. For GeoERA products, keywords must be selected
		from the GeoERA keyword thesaurus.
	Reference	B 3.1
INSPIRE IR	Title	Keyword value
INSTITE IX	Obligation	Mandatory
	Max. occurence	[1*]
	Number	53
	Title	keyword
	Definition	Commonly used word(s) or formalised word(s) or
ISO 19115		phrase(s) used to describe the subject.
	XPath	identificationInfo[1]/*/descriptiveKeywords/*[type/*/@c
		odeListValue='stratum']/keyword
	Data type	URI (+ CharacterString)
	Domain	URI
Example		http://resource.geolba.ac.at/GeologicUnit/736

	Reference number	10.1
	Title	Keyword with type "temporal"
	Obligation	Optional
	Max. occurence [0*]	
EGDI Profile	Comment	A keyword with the defined type "temporal" can be
LGDITTOILLE		added from a thesaurus (for ex. GeoERA keyword
		thesaurus or other officially registered thesaurus) in the
		form of URI to describe for ex. the modelled geological
		units in the same order as the respective stratum
		keywords.
	Reference	B 3.1
INSPIRE IR	Title	Keyword value
	Obligation	Mandatory
	Max. occurence	[1*]

	Number	53
	Title	keyword
	Definition	Commonly used word(s) or formalised word(s) or
ISO 19115		phrase(s) used to describe the subject.
130 19113	XPath	identificationInfo[1]/*/descriptiveKeywords/*[type/*/@c
		odeListValue='temporal']/keyword
	Data type	URI (+ CharacterString)
	Domain	URI
Example		https://data.geoscience.earth/ncl/geoera/keyword/2231

	Reference number	10.1
	Title	Keyword with type "discipline"
	Obligation	Optional
	Max. occurence	[0*]
EGDI Profile		A keyword with the defined type "discipline" can be
		added from a thesaurus (for ex. GeoERA keyword
	Comment	thesaurus or other officially registered thesaurus) in the
		form of URI to describe for ex. the modelled geological
		units.
	Reference	B 3.1
INSPIRE IR	Title	Keyword value
INSPIREIR	Obligation	Mandatory
	Max. occurence	[1*]
	Number	53
	Title	keyword
	Definition	Commonly used word(s) or formalised word(s) or
ISO 19115		phrase(s) used to describe the subject.
130 19113	XPath	identificationInfo[1]/*/descriptiveKeywords/*[type/*/@c
	Aralli	odeListValue='discipline']/keyword
	Data type	URI (+ CharacterString)
	Domain	URI
Example		https://data.geoscience.earth/ncl/geoera/keyword/568

3.2.11 Originating controlled vocabulary

	Reference number	10.2
	Title	Originating controlled vocabulary
EGDI Profile		Conditional – if the keyword comes from a controlled
	Obligation	thesaurus, citation of the thesaurus has to be filled (at
		least the title and reference date with the date type).

	Max. occurence	[1*]
	Comment	
	Reference	B 3.2
	Title	Originating controlled vocabulary
INSPIRE IR	Obligation	Conditional. Mandatory for datasets, data set series and
	Obligation	services related directly to INSPIRE.
	Max. occurence	[1*]
	Number	55
	Title	thesaurusName
	Definition	Name of the formally registered thesaurus or a similar
	Deminion	authoritative source of keywords.
	XPath	identificationInfo[1]/*/descriptiveKeywords/*/thesaurus
ISO 19115	APatii	Name
130 13113	Data type	CI_Citation
		The following properties are expected:
		Title of type CharacterString (Free text)
	Domain	Reference date defined as:
		 A date type: creation, revision or publication
		o An effective date
Example		GEMET - INSPIRE themes, version 1.0; date: 2008-06-01;
Exumple		date type: publication

3.2.12 Geographic location

	Reference number	11.1
	Title	Geographic location
	Obligation	Mandatory for datasets, conditional for services
EGDI Profile	Max. occurence	[1*]
		Defined by the western and eastern longitude and southern
	Comment	and northern latitude in decimal degrees (2 digits precision)
		in the WGS-84 coordinate system.
	Reference	B 4.1
	Title	Geographic bounding box
		 Mandatory for datasets and data set series
INSPIRE IR	Obligation	 Conditional for services: mandatory for services with
		explicitly expressed geographic extent
	Max. occurence	[1*] for datasets and data set series
		[0*] for services
ISO 19115	Number	343
130 19113	Title	EX_GeographicBoundingBox

		geographic position of the dataset. This is only an approximate
	Definition	reference so specifying the coordinate reference system is
		unnecessary.
	XPath	identificationInfo[1]/*/extent/*/geographicElement/EX_Geogr
	Aratii	aphicBoundingBox
	Data type	EX_GeographicExtent
	Domain	Lines 344-347 and 340
Example		11.62 19.19 48.01 51.56

3.2.13 Geographic identifier

	Reference number	11.2
	Title	Geographic identifier
	Obligation	Optional
EGDI Profile	Max. occurence	[0*]
		The extent of the whole country is selected from the
	Comment	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
	Number	349
	Title	geographicIdentifier
	Definition	identifier used to represent a geographic area
ISO 19115	XPath	identificationInfo/*/extent/*/geographicElement/*/
130 19113		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

	Reference number	12
	Title	Presentation form
EGDI Profile	Obligation	Mandatory for 3D models
LGDI FIOIILE	Max. occurence	[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
	Number	368
ISO 19115	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)
Example		model digital

3.2.15 Edition

	Reference number	13
	Title	Edition
	Oblination	Conditional for 3D models – if there are/will be more versions
EGDI Profile	Obligation	of the model, it is mandatory to fill this element
	Max. occurence	[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
	Number	363
	Title	edition
ISO 19115	Definition	Version of the cited resource
130 19113	XPath	identificationInfo[1]/*/citation/*/edition
	Data type	CharacterString
	Domain	Free text
Example		Version 2; based on new geophysical survey

3.2.16 Reference date

	Reference number	14.1
	Title	Reference date
	Obligation	Mandatory
EGDI Profile	Max. occurence	[1*]
		Date of creation must be filled, optionally also other types of
	Comment	reference dates can be added (publication date/date of the
		last revision).
	Reference	B 5.4, optionally also B 5.3 or B 5.2
INSPIRE IR	Title	Date of creation
INSPINEIN	Obligation	Conditional: At least one temporal reference is required.
	Max. occurence	[0*] but at least one temporal reference is required.
	Number	362
	Title	date
ISO 19115	Definition	Reference date for the cited resource
120 13112	XPath	identificationInfo[1]/*/citation/*/date
	Data type	class
	Domain	CI_Date (B.3.2.4) < <datatype>></datatype>
Example		2018-06-30; Date of creation

3.2.17 Resource temporal extent

	Reference number	14.2
	Title	Resource temporal extent
	Obligation	Optional
	Max. occurence	[0*]
		This element should be filled if the resource has a temporal
		extent (either as a time instant, or a range of dates of
EGDI Profile		validity).
LGDI FIGIRE		In case the time period is open-ended with either the start or
	Comment	the end date unknown, the elements gml:startPosition or
	Comment	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".
	Reference	B 5.1
INSPIRE IR	Title	Temporal extent
INSPINEIR	Obligation	Conditional: At least one temporal reference is required.
	Max. occurence	[0*] but at least one temporal reference is required.
	Number	337
	Title	temporalElement
	Definition	provides temporal component of the extent of the referring
ISO 19115	Definition	object
	XPath	identificationInfo/*/extent/*/temporalElement/*/EX_Tempora
	XPath	lExtent/extent
	Data type	Association
	Domain	EX_TemporalExtent (B.3.1.3)
Example		2002-01-30 - now

3.2.18 Lineage

	Reference number	15
	Title	Lineage
	Obligation	Mandatory
EGDI Profile	Max. occurence	[1]
Labirionie		Description of the history of processing and/or the overall
	Comment	quality of the dataset, including information on the input data,
	Comment	SW used, if the data/model has been approved etc. Not
		applicable for services.
	Reference	B 6.1
INSPIRE IR	Title	Lineage
INSPINEIN	Obligation	Mandatory for data sets and data set series
	Max. occurence	[1]
	Number	83
	Title	statement
	Definition	general explanation of the data producer's knowledge about the
ISO 19115		lineage of a dataset
	XPath	dataQualityInfo/*/lineage/*/statement
	Data type	CharacterString
	Domain	Free text
		Detailed model is a specification of the regional model, with
Example		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.

3.2.19 Spatial resolution

	Reference number	16
	Title	Spatial resolution – Scale/Distance
	Obligation	Conditional – mandatory, if the scale or spatial resolution can be
EGDI Profile		determined
	Max. occurence	[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. occurence	[0*]
	Number	38
	Title	spatialResolution
ISO 19115	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)</union>
Example		50000 100 m

3.2.20 Conformity – Specification

	Reference number	17.1
	Title	Conformity - specification
	Obligation	Mandatory
	Max. occurence	[1*]
EGDI Profile		Citation of the implementing rules adopted according to the
		Article 7, section 1 of the 2007/2/ES Directive (INSPIRE). If the
	Comment	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".
	Reference	B 7.1
	Title	Specification
INSPIRE IR	Obligation	Mandatory
INSFIREIR		[1] understood in the context of a conformity statement when
	Max. occurence	reported in the metadata – there may be more than one
		conformity statement.
	Number	130
	Title	specification
ISO 19115	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

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

3.2.21 Conformity - Degree

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

3.2.22 Conditions applying to access and use

Title Conditions applying to access and use Obligation Mandatory Max. occurence [1.**] EGDI Profile EGDI Frofile EGDI Profile EGDI Frofile EGDI Frofile		Reference number	18.1
Max. occurence [1*] Description of the Conditions applying to access and use of the model; information about fees, if applicable (text description or a URL of a descriptive document). Description of licences related to the model – fill in the element "Use Constraints" = "otherRestrictions" and in the element "Use Constraints fill in the information about licensing or a URL of a descriptive document (for ex. URL of a CC license). If no conditions apply, fill in "no conditions apply" and if the conditions are unknown, fill in "conditions apply" and if the INSPIRE codelist https://inspire.ec.europa.eu/metadata-codelist/ConditionsapplyingToAccessAndUse). Reference		Title	Conditions applying to access and use
Description of the Conditions applying to access and use of the model; information about fees, if applicable (text description or a URL of a descriptive document). Description of licences related to the model – fill in the element "Use Constraints" = "otherRestrictions" and in the element otherConstraints fill in the information about licensing or a URL of a descriptive document (for ex. URL of a CC license). If no conditions apply, fill in "no conditions apply" and if the conditions are unknown, fill in "conditions unknown" (from the INSPIRE codelist http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse). Reference B 8.1 Title Conditions applying to access and use Obligation Mandatory Max. occurence [1*] Number 71 Title useConstraints 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 identificationInfo[1]/*/resourceConstraints/MD_LegalConstraints /otherConstraints Data type CharacterString Domain Free text Number 72 Title otherConstraints Definition other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Definition Free text Other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Data type CharacterString Domain Free text Other restrictions; http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown;		Obligation	Mandatory
model; information about fees, if applicable (text description or a URL of a descriptive document). Description of licences related to the model – fill in the element "Use Constraints" = "otherRestrictions" and in the element otherConstraints fill in the information about licensing or a URL of a descriptive document (for ex. URL of a CC license). If no conditions apply, fill in "no conditions apply" and if the conditions are unknown, fill in "conditions unknown" (from the INSPIRE codelist http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse). Reference B 8.1 Title Conditions applying to access and use Obligation Mandatory Max. occurence [1*] Number 71 Title useConstraints 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 identificationInfo[1]/*/resourceConstraints/MD_LegalConstraints/otherConstraints Data type CharacterString Domain Free text Other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Data type CharacterString Definition Free text Other restrictions; http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown ;		Max. occurence	[1*]
URL of a descriptive document). Description of licences related to the model – fill in the element "Use Constraints" = "otherRestrictions" and in the element otherConstraints fill in the information about licensing or a URL of a descriptive document (for ex. URL of a CC license). If no conditions apply, fill in "no conditions apply" and if the conditions are unknown, fill in "conditions unknown" (from the INSPIRE codelist http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse). Reference B 8.1 Title Conditions applying to access and use Obligation Mandatory Max. occurence [1*] Number 71 Title useConstraints 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 identificationInfo[1]/*/resourceConstraints/MD_LegalConstraints/otherConstraints Data type CharacterString Domain Free text Other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Data type CharacterString Definition Tree text Other restrictions; http://inspire.ec.europa.eu/metadata- codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown;			Description of the Conditions applying to access and use of the
EGDI Profile Comment Description of licences related to the model – fill in the element "Use Constraints" = "otherRestrictions" and in the element otherConstraints fill in the information about licensing or a URL of a descriptive document (for ex. URL of a CC license). If no conditions apply, fill in "no conditions apply" and if the conditions are unknown, fill in "conditions unknown" (from the INSPIRE codelist http://inspire.ec.europa.eu/metadata- codelist/ConditionsApplyingToAccessAndUse). Reference B 8.1 Title Conditions applying to access and use Obligation Mandatory Max. occurence [1*] Number 71 Title useConstraints 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 identificationInfo[1]/*/resourceConstraints/MD_LegalConstraints /otherConstraints Data type CharacterString Domain Free text Number 72 Title otherConstraints other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Definition Tree text Other restrictions; http://inspire.ec.europa.eu/metadata- codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown;			model; information about fees, if applicable (text description or a
Comment "Use Constraints" = "otherRestrictions" and in the element otherConstraints fill in the information about licensing or a URL of a descriptive document (for ex. URL of a CC license). If no conditions apply, fill in "no conditions apply" and if the conditions are unknown, fill in "conditions unknown" (from the INSPIRE codelist http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse . Reference B 8.1 Title Conditions applying to access and use Obligation Mandatory Max. occurence [1*] Number 71 Title useConstraints 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 identificationInfo[1]/*/resourceConstraints/MD_LegalConstraints /otherConstraints Data type CharacterString Domain Free text Number 72 Title otherConstraints Other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Definition Tree text Other restrictions; http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown ;			URL of a descriptive document).
Comment OtherConstraints fill in the information about licensing or a URL of a descriptive document (for ex. URL of a CC license). If no conditions apply, fill in "no conditions apply" and if the conditions are unknown, fill in "conditions unknown" (from the INSPIRE codelist http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse). Reference	EGDI Profile		Description of licences related to the model – fill in the element
a descriptive document (for ex. URL of a CC license). If no conditions apply, fill in "no conditions apply" and if the conditions are unknown, fill in "conditions unknown" (from the INSPIRE codelist http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse). Reference B 8.1 Title Conditions applying to access and use Obligation Mandatory Max. occurence [1*] Number 71 Title useConstraints Definition 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 Domain Free text Number 72 Title otherConstraints Definition intellectual property, and any special restrictions or limitations or warnings on using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/MD_LegalConstraints/otherConstraints Definition other constraints Definition the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Data type CharacterString Domain Free text Other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Data type CharacterString Domain Free text Other restrictions; http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown;			"Use Constraints" = "otherRestrictions" and in the element
If no conditions apply, fill in "no conditions apply" and if the conditions are unknown, fill in "conditions unknown" (from the INSPIRE codelist http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse). Reference B 8.1 Title Conditions applying to access and use Obligation Mandatory Max. occurence [1*] Number 71 Title useConstraints Definition intellectual property, and any special restrictions or limitations or warnings on using the resource or metadata IdentificationInfo[1]/*/resourceConstraints/MD_LegalConstraints/otherConstraints Data type CharacterString Domain Free text Number 72 Title otherConstraints Definition UnderConstraints Definition UnderConstraints Definition UnderConstraints Other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Definition The resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Data type CharacterString Domain Free text Other restrictions; http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown;		Comment	otherConstraints fill in the information about licensing or a URL of
conditions are unknown, fill in "conditions unknown" (from the INSPIRE codelist http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse). Reference B 8.1 Title Conditions applying to access and use Obligation Mandatory Max. occurence [1*] Number 71 Title useConstraints Definition 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 Domain Free text Number 72 Title otherConstraints Definition other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Definition other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Definition Free text Other restrictions; http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown;			a descriptive document (for ex. URL of a CC license).
INSPIRE codelist http://inspire.ec.europa.eu/metadata- codelist/ConditionsApplyingToAccessAndUse). Reference B 8.1 Title Conditions applying to access and use Obligation Mandatory Max. occurence [1*] Number 71 Title useConstraints 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 Data type CharacterString Domain Free text Number 72 Title otherConstraints Definition other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Definition other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Definition Free text Other restrictions; http://inspire.ec.europa.eu/metadata- codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown;			If no conditions apply, fill in "no conditions apply" and if the
Reference B 8.1			conditions are unknown, fill in "conditions unknown" (from the
Reference B 8.1 Title Conditions applying to access and use Obligation Mandatory Max. occurence [1*] Number 71 Title useConstraints 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 Data type CharacterString Domain Free text Number 72 Title otherConstraints Definition other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/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 Other restrictions; http://inspire.ec.europa.eu/metadata-codelist/ConditionsUnknown;			INSPIRE codelist http://inspire.ec.europa.eu/metadata-
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Obligation Mandatory Max. occurence [1*] Number 71 Title useConstraints 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 identificationInfo[1]/*/resourceConstraints/MD_LegalConstraints /otherConstraints Data type CharacterString Domain Free text Number 72 Title otherConstraints Definition other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/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 Other restrictions; http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown;	INICOLDE ID	Title	Conditions applying to access and use
Number 71 Title useConstraints 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 identificationInfo[1]/*/resourceConstraints/MD_LegalConstraints /otherConstraints Data type CharacterString Domain Free text Number 72 Title otherConstraints other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Data type CharacterString Domain Free text Other restrictions; http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown;	INSPIREIR	Obligation	Mandatory
Title useConstraints Definition intellectual property, and any special restrictions or limitations or warnings on using the resource or metadata Variable Varia		Max. occurence	[1*]
ISO 19115 Definition Definit		Number	71
ISO 19115 Definition 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 Domain Free text 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 Other restrictions; http://inspire.ec.europa.eu/metadata-codelist/ConditionsUnknown ;		Title	useConstraints
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Apath	ISO 19115		warnings on using the resource or metadata
Data type CharacterString		XPath	identificationInfo[1]/*/resourceConstraints/MD_LegalConstraints
Domain Free text Number 72 Title OtherConstraints Other restrictions and legal prerequisites for accessing and using the resource or metadata XPath Data type CharacterString Domain Free text Other restrictions; http://inspire.ec.europa.eu/metadata- codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown;			/otherConstraints
Number 72 Title otherConstraints Other restrictions and legal prerequisites for accessing and using the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Data type CharacterString Domain Free text Other restrictions;		Data type	CharacterString
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ISO 19115 Definition XPath Data type Domain Domai		Number	72
ISO 19115 Definition The resource or metadata XPath		Title	otherConstraints
ISO 19115 the resource or metadata XPath identificationInfo[1]/*/resourceConstraints/*/otherConstraints Data type CharacterString Domain Free text Other restrictions; http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown ;		Definition	other restrictions and legal prerequisites for accessing and using
Data type CharacterString Domain Free text Other restrictions; http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown ;	ISO 19115	Deminion	the resource or metadata
Domain Free text Other restrictions; http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown ;		XPath	identificationInfo[1]/*/resourceConstraints/*/otherConstraints
Other restrictions; http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown ; Example		Data type	CharacterString
Example http://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown ;		Domain	Free text
codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown;			Other restrictions;
<u>codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown;</u>	Evample		http://inspire.ec.europa.eu/metadata-
conditions to access and use unknown	Example		<pre>codelist/ConditionsApplyingToAccessAndUse/conditionsUnknown;</pre>
			conditions to access and use unknown

3.2.23 Limitations on public access

	Reference number	18.2	
	Title	Limitations on public access	
	Obligation	Mandatory	
	Max. occurence	[1*]	
		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	
EGDI Profile		the information about limitations on access (for INSPIRE data,	
		choose from the INSPIRE codelist	
	Comment	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.	
	Reference	B 8.2	
INSPIRE IR	Title	Limitations on public access	
INSPINEIR	Obligation	Mandatory	
	Max. occurence	[1*]	
	Number	70	
	Title	accessConstraints	
		access constraints applied to assure the protection of privacy or	
	Definition	intellectual property, and any special restrictions or limitations on	
ISO 19115		obtaining the resource.	
130 19113	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	
	Domain	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	

	Number	74
	Title	classification
	Definition	name of the handling restrictions on the resource.
ISO 19115	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-
		<u>codelist/LimitationsOnPublicAccess/noLimitations</u>

3.2.24 Responsible party

	Reference number	19
	Title	Responsible party
	Obligation	Minimum required information – name of the organization,
	Obligation	name of the author of the dataset/model, email address, role
	Max. occurence	[1*]
		The organization name should be filled in English and it is
		recommended to add its abbreviation in the parantheses at the
EGDI Profile		end. Organization or person who is the primary provider of the
		dataset or service will have the role "custodian". The custodian
	Comment	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".
	Reference	B 9.1
INSPIRE IR	Title	Responsible party
INSPIRE IX	Obligation	Mandatory
	Max. occurence	[1*]
	Number	29
ISO 19115	Title	pointOfContact
	Definition	identification of, and means of communication with, person(s)
130 13113		and organization(s) associated with the resource(s)
	XPath	identificationInfo[1]/*/pointOfContact
	Data type	CI_ResponsibleParty

		The following pro	perties are expected:
		 organisationN 	ame : CharacterString
	Domain		
		o addre	ss:
		•	electronicMailAddress [1*] : CharacterString
		Radioactive Wast	e Repository Authority (SÚRAO)
		Dlážděná 6, Praha	1, 110 00, Czech Republic
		gis@surao.cz	
Example		role: custodian	
Example		Czech Geological	Survey (CGS)
		Klárov 3, Praha 1,	118 21, Czech Republic
		metadata@geolog	gy.cz
		role: originator	

3.2.25 Data quality scope

	Reference number	20
	Title	Data quality scope
	Obligation	Mandatory
EGDI Profile	Max. occurence	[1]
		Denomination if the data quality information is applied to the
	Comment	whole dataset or only its part (object class, attributes,).
		Not applicable for services.
	Reference	3.1.4.1
INSPIRE IR	Title	Scope
INSFIRE	Obligation	Mandatory
	Max. occurence	[1]
	Number	79/139
	Title	level
ISO 19115	Definition	hierarchical level of the data specified by the scope
130 19113	XPath	dataQualityInfo/*/scope/
	Data type	Class
	Domain	MD_ScopeCode < <codelist>> (B.5.25)</codelist>
Example		dataset

3.2.26 Coordinate reference system

	Reference number	21
	Title	Coordinate reference system
EGDI Profile	Obligation	Mandatory for datasets, optional for services
EGDI PIOIIIE	Max. occurence	[1*]
	Comment	Description of the coordinate reference system(s) used in the
	Comment	dataset (EPSG code and URL).
	Reference	Metadata for interoperability (1)
INSPIRE IR	Title	Coordinate Reference System
INSPIREIR	Obligation	Mandatory
	Max. occurence	[1*]
	Number	13
	Title	referenceSystemInfo
	Definition	description of the spatial and temporal reference systems used in
ISO 19115		the dataset
	XPath	referenceSystemInfo/*/referenceSystemIdentifier
	Data type	Association
	Domain	MD_ReferenceSystem (B.2.7)
Example		code: http://www.opengis.net/def/crs/EPSG/0/5514; EPSG 5514

3.2.27 Vertical reference system

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

3.2.28 Model vertical extent

	Reference number	23.1
	Title	Minimum
	Obligation	Conditional for 3D models
	Max. occurence	[1]
EGDI Profile	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, than 23.2 and 23.3 must also be filled.
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
	Number	355
	Title	minimumValue
	Definition	lowest vertical extent contained in the dataset
ISO 19115	XPath	identificationInfo[1]/*/extent/*/verticalElement/EX_VerticalExtent
	Data type	Real
	Domain	Real
Example		500

	Reference number	23.2
	Title	Maximum
	Obligation	Conditional for 3D models
	Max. occurence	[1]
		Fill in the numerically larger vertical limit of the model
EGDI Profile		interlinked with the reference system in element 23.3 (local
EGDI FIOIILE	Comment	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, than 23.1 and 23.3 must also be filled.
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
	Number	356
ISO 19115	Title	maximumValue
	Definition	highest vertical extent contained in the dataset

	XPath	identificationInfo[1]/*/extent/*/verticalElement/EX_VerticalEx tent
	Data type	Real
Dom	Domain	Real
Example		2500

	Reference number	23.3
	Title	Vertical extent reference system
	Obligation	Conditional for 3D models
EGDI Profile	Max. occurence	[1]
EGDI PIOIIIE		The vertical reference system that is used in the vertical
	Commant	extent elements (EPSG code and URL). It can be a local
	Comment	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
	Number	13
	Title	referenceSystemInfo
	Definition	description of the spatial and temporal reference systems used
ISO 19115		in the dataset
	XPath	referenceSystemInfo/*/referenceSystemIdentifier
	Data type	Association
	Domain	MD_ReferenceSystem (B.2.7)
Example		http://www.opengis.net/def/crs/EPSG/0/1049

3.2.29 Distribution format

	Reference number	24
	Title	Distribution format
	Obligation	Mandatory
	Max. occurence	[1*]
EGDI Profile		The value can be either selected from the INSPIRE codelist, or
		entered as a freetext (especially in the case of specialized
	Comment	modelling SW). This element will be given as a URI via
		gmx:Anchor for the name of the distribution format
		<gmd:name></gmd:name>
	Reference	Metadata for interoperability (3)
INSPIRE IR	Title	Encoding
	Obligation	Mandatory
	Max. occurence	[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)
Evamento		http://inspire.ec.europa.eu/media-types/application/gml+xml;
Example		gml+xml

3.2.30 Spatial Representation Type

	Reference number	25
	Title	Spatial representation type
EGDI Profile	Obligation	Mandatory
	Max. occurence	[1*]
	Comment	Not applicable for services.
	Reference	Chapter. 8 INSPIRE Data Specification on – Guidelines
INSPIRE IR	Title	Data Identification – Spatial Representation Type
INSPINEIN	Obligation	Mandatory. Optional for themes from annex I/5
	Max. occurence	[0*]
	Number	37
	Title	spatialRepresentationType
ISO 19115	Definition	method used to spatially represent geographic information
130 19113	XPath	identificationInfo/*/spatialRepresentationType
	Data type	Class
	Domain	MD_SpatialRepresentationTypeCode < <codelist>> (B.5.26)</codelist>
Example		tin

3.2.31 Maintenance and Update Frequency

	Reference number	26
	Title	Maintenance and Update Frequency
	Obligation	Optional
	Max. occurence	[01]
EGDI Profile	Comment	If the desired interval is not present in the maintenanceAndUpdateFrequency codelist, 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. Not applicable for services.</period></number>
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
	Number	30
	Title	resourceMaintenance
	Definition	provides information about the frequency of resource updates, and the scope of those updates
ISO 19115	XPath	identificationInfo/*/resourceMaintenance/*/maintenanceAndUp dateFrequency, případně identificationInfo/*/resourceMaintenance/*/userDefinedMaintenanceFrequency
	Data type	Class
	Domain	MD_MaintenanceFrequencyCode < <codelist>> (B.5.18), TM_PeriodDuration</codelist>
Example		unknown, P3Y

3.2.32 Purpose

EGDI Profile	Reference number	27
	Title	Purpose
	Obligation	optional
EGDITIONIC	Max. occurence	[01]
	Comment	Summary of purposes for which the data source was created (internal project identifier, scope, type of data/model,).
INSPIRE IR	Reference	This element is an extension to the INSPIRE profile
	Number	26
	Title	purpose
ISO 19115	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

3.2.33 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 and it is recommended to add its abbreviation in the parantheses at the end), email address, role
	Max. occurence	[1*]
	Comment	Role must be "pointOfContact" at least for one organization.
	Reference	B 10.1
INSPIRE IR	Title	Metadata point of contact
INSFIREIR	Obligation	Mandatory
	Max. occurence	[1*]
	Number	8
	Title	contact
	Definition	party responsible for the metadata information.
	XPath	contact
	Data type	CI_ResponsibleParty
ISO 19115		The following properties are expected:
		organisationName : CharacterString
	Domain	contactInfo:
	Domain	o address:
		electronicMailAddress [1*]: CharacterString
		role : CI_RoleCode
Example		Czech Geological Survey (CGS)
		metadata@geology.cz
		role: point of contact

3.2.34 Metadata date

	Reference number	28.2
	Title	Metadata date
EGDI Profile	Obligation	Mandatory
	Max. occurence	[1]
	Comment	Date stamp is created automatically.
	Reference	B 10.2
INSPIRE IR	Title	Metadata date
INSPINEIN	Obligation	Mandatory
	Max. occurence	[1]
	Number	9
	Title	dateStamp
ISO 19115	Definition	Date that the metadata was created.
120 13112	XPath	dateStamp
	Data type	Date
	Domain	ISO 8601
Example		2018-06-30

3.2.35 Metadata language

	Reference number	28.3
	Title	Metadata language
EGDI Profile	Obligation	Mandatory
EGDI PIOIIIE	Max. occurence	[1*]
	Comment	It is mandatory to have metadata records for GeoERA projects in
	Comment	English + optionally in national language.
	Reference	B 10.3
INSPIRE IR	Title	Metadata language
INSPIREIR	Obligation	Mandatory
	Max. occurence	[1]
	Number	3
ISO 19115	Title	language
	Definition	Language used for documenting metadata.
	XPath	language
	Data type	LanguageCode (ISO/TS 19139)

English – eng Estonian – est Romanian – rum Finnish – fin Serbian – srp French – fre German – ger Greek – gre Hungarian – hun Icelandic – ice Portuguese – por Romanian – rum Serbian – srp Slovak – slo Slovak – slo Slovenian – slv Spanish – spa Ukranian – ukr	Domain	codes), as defined at http:// The list of codes for the 23 of Albanian – alb Bosnian – bos Bulgarian – bul Croatian – hrv Czech – cze Danish – dan Dutch – dut English – eng Estonian – est Finnish – fin French – fre German – ger Greek – gre Hungarian – hun Icelandic – ice	Italian – ita Latvian – lav Lithuanian – lit Luxembourgish – ltz Maltese – mlt Norwegian – nor Polish – pol Portuguese – por Romanian – rum Serbian – srp Slovak – slo Slovenian – slv Spanish – spa Swedish – swe
Irish – gle Example cze	Example	_	

3.2.36 File identifier

EGDI Profile	Reference number	29	
	Title	File identifier	
	Obligation	Mandatory	
	Max. occurence	[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. occurence	[1]	
ISO 19115	Number	2	
	Title	fileIdentifier	
	Definition	unique identifier for this metadata file	
	XPath	fileIdentifier	
	Data type	CharacterString	
	Domain	Free text	
Example		00d32154-1656-4fcc-9ddd-6dbe9a1baeb0	

3.2.37 Parent identifier

	Reference number	30	
EGDI Profile	Title	Parent identifier	
	Obligation	Optional	
	Max. occurence	[01]	
	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	
Example		00d32154-1656-4fcc-9ddd-6dbe9a1baeb0	

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