

EGDI Metadata Catalogue Cookbook



Cookbook

for creating metadata records using the EGDI Metadata Catalogue (MIcKA, version 7.0)

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Abstract

The EGDI Metadata Catalogue (https://metadata.europe-geology.eu/) is the central access point to metadata concerning structured digital geological data sources and web services across Europe. It provides tools for compilation of those metadata in a standardized format that will allow users to effectively search through the catalogue, view and further use the metadata. In order to make data discoverable in the most efficient way, the catalogue is fully compliant with international standards and supports the distributed system of metadata administration. Only digital and structured information (spatial datasets, including 3D models, spatial data series, and spatial data services such as WMS or WFS) should be described by metadata in this catalogue. In order to display a metadata record for which an on-line map service is available, the EGDI Metadata Catalogue is integrated into the EGDI Portal (http://www.europe-geology.eu/metadata/).

1. Introduction

This document shows how to use the EGDI Metadata Catalogue and how to fill the EGDI metadata step by step. The Cookbook guides the user to create a metadata record on an example for a spatial dataset and a spatial data service with an extension to describe 3D geological models.

The EGDI metadata profile is compliant with the requirements of the INSPIRE Directive as regards metadata, and the EN ISO 19115:2003(E) terminology is implemented and it is described in more technical details in a separate document [1].

The EGDI metadata are freely accessible to the public for viewing and searching, but inserting and editing is for authorized users only. The login information can be obtained on request from the administrator via email (egdi.metadata@geology.cz).

The EGDI Metadata Catalogue is available from: <u>https://metadata.europe-geology.eu/</u> Figure 1 shows the home page of the catalogue with the search interface and the list of found records. Figure 2 shows a detailed view of one metadata record for a spatial dataset with additional functionality for authorized users highlighted.





Figure 1: The home page of the EGDI Metadata Catalogue (https://metadata.europe-geology.eu/)

EGDI M	etadata 🕂 New	🖨 Settings	🚺 Map 🌘	Documer	nts (P Help	Contact	۳	* -	CGS 🕞
bien Freit	Kasser Doutschart an Thu Hessen Frankfurt am Mannheim Nurnb Karisruhe Baon Murttember Jogolstad Augsbur	erg Bayere g	ichsen Libe 3 Verocóppol Praha 8 2reh Dhozopod Ceske Budéjovice Linz	Cesko strede Uhovychod Wien	moyewódzn opolskie Ost ni Morzwa Zlin	Czestochov o Kat rava Zilin Slov	Radom wojewodztwo soletokrzyske owice wojewodztwo mołopolskie kraj ensko kolici	wojew lubi wojewodziw podkorpock	ebbie Mae A	
	🗲 / Basic metadata 🕻	Full Metadata	>				010	100	B	
1	Test record	- Cookbo	ok creat	tion 2						
A	bstract	EGE)I profil test.					P	rivate	
Т	уре	data	set							
R	lesource Locator									
E	https://egdi.geology.cz	z/record/edit/5e	29c11f-4b0c	-4135-ba22-33	3560a01	0833?f=l	oasic			
lo	dentifier	http:	//www.geolog	gy.cz/CGS-DA	TA-EXA	MPLE				
L	anguage	Eng	lish, no langu	age						
Т	opic category	Geo	scientific info	rmation						
к	Geywords	GEN	NET - INSPIR	RE themes, ve	ersion 1	.0:				
B	Bounding box	12.2	42, 48.492, 1	8.988, 51.128	3					
D	Date	crea	tion: 2020-01	-23						
Т	emporal extent	2020	0-01-28 -							
v	/ertical extent	min: CRS	500 max: 25 5: Local - dep	00 th (http://www.	. opengis	.net/def/	crs/EPSG/0/10)49)		
S	patial Representation	tin								
P	Purpose	CGS	8 Project nr. 3	21560						
c	Contact Info	Geo Geo Buct tel: - ema Role	logical Institu rge Tudor harest, 01227 ⊦40 3140334 il: george.tud e: custodian	te of Romania 71, Romania 59 Ior@igr.ro	a					
C	Data Quality	and and a								
L	ineage	Test	3D+EGDI pr	ofile.						

Figure 2: Basic view of a spatial dataset metadata record with a highlighted functionality for authorized users

2. Metadata input by harvesting

The first and the most recommended way for metadata creation is harvesting from another metadata catalogue. By using this approach, metadata are maintained at the most appropriate level (only once and close to the data source – that should ensure easier maintenance and update processes). Metadata can be inserted into the catalogue by harvesting of existing

public records from a data provider's catalogue, as well as from a national, project, or other metadata catalogue. Harvesting from remote catalogues and other sources can only be set by the EGDI Metadata Catalogue **administrator** on request from the data provider. It is possible to harvest just once (and update metadata manually), or set a regular harvesting interval (preferred option). Each harvesting session is documented by a harvesting report with a validation status that is sent to relevant contact points.

Harvested resources										
On	Source	Unique identifer	Туре	Harvest period	Filter	Updated	Recs	Action		
•	BGR	https://produktcenter.bgr.de/soapServices/CSWStartup	CSW- 2.0.2	1 days	subject=EGDI	2020-01-28 00:31:40	16	8		
•	BGS	https://metadata.bgs.ac.uk/geonetwork/srv/eng/csw	CSW- 2.0.2	7 days		2020-01-28 00:31:39	1293	8		
0	CGS	http://nts82a.cgu.cz/csw/index.php	CSW- 2.0.2	1 days	AnyText='EGDI'	2020-01-28 00:31:41	71	2		
	eENVIplus	http://nts85.cgu.cz/csw/	CSW- 2.0.2	0 days	server= 'ISPRA'	2019-10-23 15:25:05	7	8		
۲	PGI-NRI	http://metadane-inspire.pgi.gov.pl/geonetwork/srv/eng/csw	CSW- 2.0.2	1 days		2020-01-27 00:08:04	11			
	TerraFirma	http://nts85.cgu.cz/csw/	CSW- 2.0.2	0 days	server='TerraFirma'	2019-10-23 14:16:17	112	2		
+ A	dd resource	C Harvest now C Harvest with delete								

Figure 3: Overview of the harvesting resources for the administrator

Metadata contact person from an organization that wants to harvest their metadata must **send to the administrator** (<u>egdi.metadata@geology.cz</u>) the following information:

- URL of resource CS-W metadata service
- resource type
- harvesting interval (1 day is recommended)
- notification e-mail

In the list of harvested resources (see Figure 3) the last update is shown for each resource. A harvesting report is also available through RSS channel.

It is strongly recommended to denominate by the keyword "EGDI" (as free keyword) or keyword by the Project name codelists (from European Geoscience Registry <u>https://data.geoscience.earth/ncl/project</u>) any metadata record that should be harvested to the EGDI Metadata Catalogue. This should be done by the metadata editor in the source metadata catalogue.

Note: Every record is public by default after harvesting into the EGDI Metadata Catalogue. Record status is described in chapter 3.3.2 in the Record Administration paragraph in more details.

3. Manual input of metadata

The second way how to create a metadata record is the manual input directly in the EGDI Metadata Catalogue as a logged-in user with editing rights.

3.1. Import from a service URL or from a file

A metadata record can be imported by clicking "+New" in the top main menu (on <u>https://metadata.europe-geology.eu/record/new</u> for logged-in users). If an XML file (ISO 19139) with metadata is available, choose the "Import from file/URL" option on the "New record" page and then either select the file (xml) from your disc, or enter the URL of a spatial data service (GetCapabilities).

EGDI Metadata	+ New 🔅	Settings	🚺 Мар	Documents	? Help	Contact	۳	** -	CGS 🕞
New re	cord								
Standa	rd								
Spatial Service Metada Featur	Data Metadata (IS e Metadata (ISO 19 ata (Dublin Core) e Catalogue from file / LIRL	SO 19115) 9119)							
Import Resource ty	7 pe ISO 19139 X	KML	~						
Select file fo Choose File	or import No file chosen								
service URL		/convicos/P	Pudy/pudpi	typy50/ManServer/	MMSServer	2request-GetCa	nabilitie	2.01	
Existing reco	ord \bigcirc Overwrite \bigcirc I	Leave existi	ing	typy50/mapServer/	WW035Erver	request-GetGa	pabilitie	50(5)	
Group f	or editing								
Group for ed For viewing:	iting: e	editor ∨ eader ∨							
				Create					

Figure 4: Import metadata from a file (xml) or a spatial data service URL (GetCapabilities)

By switching the option "Existing record: Overwrite / Leave existing" the user can set the rules for importing if the record already exists.

Note: "Select file for import" has a priority if both fields (file and service URL) are filled.

Depending on the amount of information you are providing in the GetCapabilities document of the service, a corresponding part of the metadata elements will be automatically filled. You have to check this after creating the record and add manually the missing ones according to the rules described further in this cookbook (chapter 3.3.5).

3.2. Copy an existing record using the editing tools

The clone icon (Figure 5) enables the user to copy an existing record and use it as a template for creating a new record (on the<u>https://metadata.europe-geology.eu/</u> page for logged-in users).

Dataset example record:

https://metadata.europe-geology.eu/record/basic/5e8b7243-18b0-4d85-ab71-36680a010833 3D model dataset example record:

https://metadata.europe-geology.eu/record/basic/5e8b358e-7998-4f71-a363-2b260a010833 Service example record:

https://metadata.europe-geology.eu/record/basic/5e8e29b8-e334-4b30-b78b-14750a010833

🔰 🛯 Soil map 1:50,000 🞽

Maps show soil cover of a certain area. They express both the typological relevance of the soil (soil type, subtype, hydromorphic development, soil variety and form), as well as data on the soil-forming substrate. Public, Metadata Contact: Czech Geological Survey, Česká republika, Date Stamp: 2019-10-23

Figure 5: Copy record option

3.3. Creation of a new record

3.3.1 Primary settings

A new record is created by clicking "+New" in the top main menu. The new record creation dialogue is then displayed on the <u>https://metadata.europe-geology.eu/record/new</u> page for logged-in users (Figure 6).

Here you should set:

- **Standard:** you have to choose the option ISO 19115 standard (default) for spatial datasets, ISO 19119 for spatial data services.
- Access rights: select the group for editing and the group for viewing. The group for editing should be the same as your username and it should be set in the combo-box (more information in chapter 3.3.2 in the "Record administration" part).
- Metadata languages: the left column (radio buttons) is intended for the selection of the main language since English was agreed as the **primary language** of the EGDI metadata, the **English language is chosen by default**. The right column (check boxes)

is intended for setting other language that will be represented in the bilingual elements. The language setting can also be edited during the editing process in the header of record via the "Metadata language" icon (Figure 7).

Then click "Create" (Figure 6). A new blank record is created (Figure 7).

Note: To be able to save the record you have to fill the minimum required elements as it is described in chapter 3.3.3.

	EGDI Metadata 🧲	New Settings	🚺 Мар	🗐 Documents	? Help	() Contact	۳	H -	CGS 🕞
Ne	w record								
	, in the second								
St	andard								
	Spatial Data Metadata (I	SO 191151							
	Service Metadata (ISO 1)	9119)							
) Feature Catalogue								
	Import from file / URL								
G	oup for ealting	\sim							
For	viewing:	der 💙							
M	etadata languag	es							
(O n	ain metadata language 🗹	other metadata languag	es						
() 🗆 Albanian								
(D 🗆 Bosnian								
(🗆 🗆 Bulgarian								
(Croatian								
(🛛 🗹 Czech								
(D Danish								
	Dutch								
) C Estonian								
(C French								
() 🗌 German								
(🗋 🗆 Greek, Modern								
(🗆 🗆 Hungarian								
(D 🗆 Icelandic								
	D Irish								
) 🗆 Latvian								
) 🗆 Lithuanian								
(C Luxembourgish								
(D 🗆 Maltese								
(🗆 🗆 Norwegian								
(🗆 🗆 Polish								
	D Portuguese								
	C Romanian								
	C Seroian								
) 🗆 Slovenian								
) Spanish								
	D Swedish								
0	🗆 🗆 Ukranian								
				Create					

Figure 6: New record dialogue <u>https://metadata.europe-geology.eu/record/new</u> for logged-in users

3.3.2 General features of the editing environment

Some important features of the EGDI Metadata Catalogue application that are useful during the whole process of record editing are explained on the next figure (Figure 7) and in the following paragraph.

🔖 Micka 🖺 Save 🗸 Stop 🔅	K Cancel		EGDI-Lite
New record / update rec	cord	+ C XSD	Validate EGDI-Lite Not valid
Status: Private ~ Group for editing:	editor V For viewing: reader V Metadata language	1 2 3	Resource title Resource abstract Resource type
1 Resource title 1		4 5 7	Resource locator Unique resource identifier
3 Resource type 0		/ 8 10.1	Topic category INSPIRE Keywords
4 Resource locator ()	Select one	11 14.1	Geographic bounding box Reference date - Date of publication/ last revision/
		14.2	creation Temporal extent
Protocol ()	Select one Select one	15 16 17.1	Spatial resolution Specification Missing
Name 1 Description 1			"Commission Regulation (EU) No 1089/2010 of 23 November 2010
5 Unique resource identifier 1 URI 1			implementing Directive 2007/2/EC of the European Parliament and of the
Text 🕄			Council as regards interoperability of spatial data acts and actives"
Code space () 7 Resource language ()	Select one or more	18.1	Conditions applying to access and use
8 Topic category 1	Select one or more	18.2	Limitations on public access Responsible party
10.1 Keyword (1)			

Figure 7: General features of the EGDI Metadata Catalogue

Metadata editing form

On the top right side of the main menu at Figure 7 you can see which editing form is displayed in the main window.

There are two editing forms available:

- 1. EGDI-Lite set by default, user friendly, easy to fill, less options
- 2. **EGDI-full** follows the ISO structure and has more options, more metadata knowledge and experience is required on the editor's side

For filling metadata according to this cookbook within the projects you will use the EGDI-Lite editing form!

Main tools

In the top banner (Figure 8), there are the options to "**Save**" the record with the possibility to continue editing (save your record often during editing!), "**Stop**" (= Save + stop editing), and "**Cancel**" to abort the last editing session. The metadata record can be saved only if some basic **mandatory fields** are filled properly (see more in 3.3.3).

Validation

A small validation panel is displayed on the right side of the form (Figure 7). To refresh validation you should "**Save**" the record or press the refresh button (**2 Validate**).

The metadata are validated with a built-in validator, which may be configured according to the provider requirements. Default is the validation against INSPIRE TG for metadata, version 2.0.1 [3]. Only validation errors are displayed here. After clicking on the item, the page is scrolled to the corresponding input field in the form.

There are three types of elements as regards their obligation in the metadata profile:

- Mandatory elements required in the profile (mandatory in its context, e.g. if an optional element A contains mandatory element B, then when any subelement in A is used, also element B must be filled. Example: If any element in ContactInfo / on-line is filled, then the URL must be filled).
- **Conditional mandatory elements** these elements are strongly recommended or required on certain conditions given by the standard or INSPIRE regulation. (E.g. bounding box is mandatory if data/services have a spatial extent).
- **Optional elements** may be required by some applications.

Form field types

Different data type fields are coloured differently according to their type:

- *Mandatory fields* must be filled.
- Abcdefgh1234 *Text fields* any text value can be input there
- 999.999 Numeric fields only digits and decimal point (".") are allowed.
- **30.3.2014** *Date fields* ISO 8601 format is allowed ("YYYY", "YYYY-MM" or "YYYY-MM").
- *Se679c24-1fac-4de4-8019-75af0a010833 Automatically filled fields* 29 File identifier generated UUID
- Select one ... predefined list of values with the possibility to select just one value
- Select one or more ... predefined list of values with the possibility to select more values
- Select one or more (own values + Enter) it is possible to insert manually more values

Icon "Select other metadata languages from the list" marks that there is a predefined list of values to select languages

 \Box - Icon gives the user the option to delete the related elements

Context help

Context help is taken from the INSPIRE directive in the EGDI-Lite editing form (see Figure 9 below – "**1.3 Resource type...**" numbering and text is taken from the INSPIRE directive). For the elements that are an extension to INSPIRE the context help is taken from ISO 19115 standard. Context help is available in the black bubble when a cursor is hovering over the field label.

1.3 Resource type: Scope to which metadata applies. Dataset for spatial datasets; Series is for spatial dataset series; Service for spatial data services. A resources exhausted and								
	3 Resource type							
	dataset -							

Figure 9: Item Resource type in editing mode with context help

Record administration

Editor can do this setting for each metadata record at the page sub-heading (Figure 10):

- Record "status" "Public"/ "Private" If the record is "Public", every user can see it without any authorization. If it is "Private", only editor and administrator can see it.
- **"Group for editing"** the *group of your organization* should be chosen from the list
- Group "For viewing" After editing this group should be set as *reader* so that all users can view the record in the catalogue.
- "Metadata language" what metadata languages are used. The number of displayed language versions depends on the number of languages you selected during creation of the record but may be changed there (Figure 10).

Figure 10: Record administration (editing and viewing rights, language settings)

Note: All general features of the catalogue are described in detail in "*Micka – quick help*" directly in the application (<u>https://metadata.europe-geology.eu/help</u>).

3.3.3 Minimum required elements for establishing a metadata record

Once a record is created, a proposed minimum of the EGDI metadata elements should be filled. Without these minimum items the metadata record cannot be saved:

1	Resource title
2	Resource abstract
3	Resource type
19	Responsible party
28.1.	Metadata point of contact

 Table 1: Minimum required elements

It is strongly recommended to add appropriate **Project name from the European Geoscience Registry** (<u>https://data.geoscience.earth/ncl/project</u>) in the metadata element **10.1 Keyword**. The Project name codelist is implemented in the editing as well as in the search form of the EGDI Metadata Catalogue.

Note: Annex 1 shows an *overview table* of all the mandatory and optional metadata elements according to the described data source.

icka I Save √ Stop Mandator	X Cancel ry field - must be filled properly.		Profil	EGDI-Lite	~
		-	€ Validate		
2 Resource abstract		1	Resource title		-
		2	Resource abstr	ract	
		3	Resource type		
		4	Resource locat	tor	
3 Resource type		5	Unique resourc	e identifier	
		7	Resource lang	uage	
Select one 🔻		8	Topic category		
4 Resource locator	\oplus \square	10	0.1 INSPIRE Keyw	/ords	
URL		11	Geographic bo	unding box	
		14	1.1 Reference date	e - Date of	
			publication/ las	t revision/	
Function			creation	- 4	- 1
Select one		14	1.2 Temporal exter	10	- 1
Brotocol		1:	Lineage		- 1
FIOLOCOI		10	Spalial resoluti	on tianin n	- 1
Select one 🔻		1/	"Commission F	lissing	
Name			(EU) No 1089/2	2010 of 23	
			November 201	0	
			implementing [Directive	
Description			2007/2/EC of th	he European	
100			Parliament and	l of the	
a la			Council as rega	ards	
5 Unique resource identifier			interoperability	of spatial	
URI		10	uata sets and s	lying to	_

Figure 11: Highlighting of the missing required elements

The next two chapters provide more detailed instructions on how to fill these elements for spatial datasets and spatial data services.

3.3.4 Detailed instructions for filling the EGDI metadata profile elements in the EGDI-Lite editing form for a spatial dataset (including extensions for 3D models)

Example of an English-Czech bilingual record (can be in any other national language + English).

Note: The images of all metadata elements below are created from example dataset record: <u>https://metadata.europe-geology.eu/record/basic/5e8b7243-18b0-4d85-ab71-36680a010833</u> and 3D model dataset record: <u>https://metadata.europe-geology.eu/record/basic/5e8b358e-</u> 7998-4f71-a363-2b260a010833

1 Resource title - Name by which the cited resource is known.

2 Resource abstract - Brief narrative summary of the content of the resource(s).
 2 Resource abstract

3 Resource type - Valid values for the EGDI projects are dataset, series, non-geographic dataset. For 3D models choose "dataset".

3 Resource type	
dataset	•

Note: A different profile is used to describe *a service* or *an application*. It can be selected at the beginning of the record creation process (Figure 6 in chapter 3.3.1) and a detailed description for the filling is described in detail in chapter 3.3.5.

4 Resource locator – Electronic address (URL, their function and a relevant protocol) of an on-line access to the resource, if it exists. "Name" and "Description" are optional.

4 Resource locator ()	
URL 🚺	http://mapy.geology.cz/arcgis/services/Dulni_Dila/Udaje_o_uzemi/MapServi
Function 🚯	information 💌
Protocol (1)	OGC:WMS-1.3.0-http 🔻
Name 🚯	
	*
Description ()	

5 Unique resource identifier - Recommended format for the unique identification of the resource is the organization ID (e.g. domain name) and an identifier of the dataset defined by the data provider, e.g. <u>http://www.domain.org/internal_identifier</u>.

5 Unique resource identifier	
URI	https://www.geology.cz/CGS_G-SURIS-LOZ-SDE
Text	CGS_G-SURIS-LOZ-SDE
Code space	www.geology.cz

6 Coupled resource - Not applicable for datasets, only for services - see [1]

7 Resource language – Language(s) used within the datasets/series. Select one or more from the list. If no language is used in the resource (e.g. only numeric data), select: "no language".

7 Resource language	×Czech

8 Topic category for geological and applied geological data should be set to "Geoscientific information". But it can be selected one or more category from the code list.

8 Topic category	Geoscientific information

9 Service type - Not applicable for datasets, only for services - see [1].

10.1 Keyword(s) can be selected from the **predefined list**, some of the required external registers and codelists are integrated directly in the EGDI Metadata Catalogue. In addition to that, any other words can be filled as a **Free keyword**.

- 1. At least one keyword for the **INSPIRE theme** from the INSPIRE registry (<u>https://inspire.ec.europa.eu/theme/</u>) has to be filled.
- 2. Keyword for the **Project name** from the European Geoscience Registry (<u>https://data.geoscience.earth/ncl/project</u>) is strongly recommended to add to be easily searchable by Project if metadata were created within some specific project.
- 3. The **Spatial scope** keyword from the INSPIRE registers (<u>http://inspire.ec.europa.eu/metadata-codelist/SpatialScope</u>) has to be selected. For INSPIRE data it is obligatory, but it is recommended for all other datasets as well.
- 4. **Priority dataset** keyword is mandatory only for determined datasets related to the environmental reporting within the INSPIRE directive. Keyword from the INSPIRE registers (<u>http://inspire.ec.europa.eu/metadata-codelist/PriorityDataset</u>) has to be added.
- 5. Any other Free keyword can be added here as free text as well.

10.1	Keyword		
	INSPIRE theme	Energy resources Alineral resources	
ΞÐ			
	GeoERA keywords	iron ore	× •
	Project name	Mintell4EU	x •
	Spatial scope	National	x =
	Priority dataset	× Location of industrial and agricultural installations (Industrial Emissions Directive)	
⊕⊕			
	Free keyword	EGDI	
		# EGDI	

Note: For datasets of 3D models, keywords of type stratum, temporal and discipline are available in the EGDI-full editing form only. It is possible to add these elements as free keywords and with a properly cited Thesaurus (title, date, date type) – see figure below. Please note that these keywords with cited thesaurus are visible in the EGDI-full editing form only, but are not visible in the EGDI-Lite form.

▼ (3) Descriptive Keywords		
(3.1) keyword	http://resource.geolba.ac.at/GeologicUnit/736	
L	Horní sladkovodní molasa	
8	Obere Süßwassermolasse	
Туре	stratum 🔻	
Thesaurus Name		
Title	°€	
	GBA Thesaurus	
	GBA Thesaurus	
Date	+ ⊕	
date	2019-07-11	
Date Type	creation •	

11.1 Geographic location – Defined by the western and eastern longitude and the southern and northern latitude in decimal degrees (2 digits precision) in the WGS-84 coordinate system. There are three ways for filling this item:

- 1. The extent can be drawn by a tool () in the map and the coordinates will be added automatically into the form.
- 2. Each coordinate can be manually filled one by one
- 3. Choose one of the European countries or the whole EU (according to the range of data) from the **11.2 Geographic identifier** list and then the relevant coordinates will be filled in 11.1 Geographic locationautomatically.

Note: If you select a country from the list for the element 11.2 Geographic identifier, then item 10.1 Keyword/Spatial Scope is filled in as follows: "National". If you select "European Union" or "Europe", Spatial Scope will be set automatically to "European". If you want to save another Spatial Scope, you must then change it manually.

11.2 Geographic identifier: Fill in only when Spatial Scope is not local or regional. Then select from the code list value (for example: one of the European Countries, "Europe", "World" or "European Union"). The selection automatically affects the coordinates in the field 11.1 Geographic location.

12 Presentation form – Mandatory for 3D models. "**Model digital**" should be chosen from the codelist and then the validation rules are changed to meet the requirements for the metadata description of 3D models.

*Model digital

Note: Value "Model digital" is mandatory for 3D models. When it is chosen from the codelist the validation rules are changed to meet the requirements for the metadata description of 3D models. You can choose value "Model digital" also for your 2D dataset and then the vertical items 22 Vertical reference system and 23 Vertical extent are not relevant, these items are required just for 3D models.

13 Edition - Conditional **for 3D models**, mandatory, if there are/will be more versions of the model.

13 Edition

Version 2; based on new geophysical survey

14.1 Reference date - Date (YYYY-MM-DD) of the data source creation must be filled, optionally also other types of reference dates can be added. Only one date for each event (creation/publication/last revision) is allowed.

14.1 Reference date		
H C		
Date	1992-01-01	
Date Type	creation	•

14.2 Resource temporal extent - If the resource has a temporal extent, you can specify either a range of dates relevant for the dataset, or a single date. To enter instant date (YYYY-MM-DD or YYYY) leave the second field empty. In case the time period is open-ended with either

the start or the end date unknown, enter "?" to the corresponding field. If the temporal extent is on-going, enter "now" to the corresponding field.

14.2 Resource temporal extent	1992	- now	
-------------------------------	------	-------	--

15 Lineage description of the history of processing and the overall quality of the dataset, including information on the input data, SW used, if the data/model has been approved etc.

15 Lineage	Subsystém SurlS byl vytvořen v devadesátých letech minulého století v Národním informačním středisku ČR. Většina jeho dílčích databází má souřadnicovou část, která	•
	SurlS was developed in the 1990s at the National Information Centre of the Czech Republic. Most of its databases contain coordinates that are usable in map applications.	÷ //

16 Spatial resolution can be described by the equivalent scale (denominator only) or by a distance in meters.

16 Spatial resolution ()		
Scale 🚯	1: ×25000	×
Distance (1)	Select one or more (own values + Enter)	

Note: Also a range of scales can be added by simply typing another scale number

17 Conformity - Citation of the implementing rules adopted according to the Article 7, section 1 of the 2007/2/ES Directive (INSPIRE). Appropriate **17.1 Specification** of a document you are referring to should be select from the predefined list; for the dataset "INSPIRE – Interoperability 1089/2010" is the right value. If the dataset or dataset 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 "NOT EVALUATED".

17 Conformity	
17.1 Specification	INSPIRE - Interoperability 1089/2010
17.2 Degree	NOT EVALUATED -

18.1 Conditions applying to access and use restrictions on the access and use of a resource or metadata, licences, fees of the dataset and other conditions (field **Other – description**) shall be provided, if applicable (text description or a URL of a descriptive document). If no conditions apply, or are unknown then you can select these values (as well as the type of licence) from the codelist.

18.1 Conditions applying to access and use	
Predefined	× available for authorised users only
Other - description	Republic with written consent of the Ministry of the Environment of the Czech Republic
	s písemným souhlasem Ministerstva životního prostředí České republiky

18.2 Limitations on public access – 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 should be filled in the **Predefined** field by choosing from the codelist. Also, other conditions (**Other - description** field) can be filled as a free text. You can also mark the data as "open data" in this element.

18.2 Limitations on public access	
Predefined	× public access limited according to Article 13(1)(a) of the INSPIRE Directive
Other - description	88

19 Responsible party – Contact person/organisation can be filled item by item (Enter key confirms typing) or edited once in "**Settings**" on the <u>https://metadata.europe-geology.eu/admin/</u> page for logged-in users (Figure 12) and then used in more metadata records.

EGDI Metadata	+New 🧔	Settings 🕅 Map	Documents	? Help	1 Contact	٣	₩ -	LNEG 🕞
Settings Contacts manageme • Change password	ent							

EGDI Metadata	🕇 New	🔅 Settings	🔰 Мар	Documents	? Help	Contact	٣	₩ -	LNEG 🗭
🗲 / Contacts man	← / Contacts management								
Label	Perso	on		Organisation					
Arvanitidis Nikolaos	Nikola	aos Arvanitidis		Sveriges geologisł	ka undersök	ning (SGU)		đ	r 🗋 🛍
Bertrand Guillaume	Guilla	aume Bertrand		Bureau de Recher	ches Géolo	giques et Minière	s <mark>(BR</mark> GM) 👌	r 🗋 🛍
Burlet Christian	Chris	tian Burlet		Royal Belgian Inst	itute of Natu	ral Sciences (RB	INS)	6	r 🗋 ท 🔨
Decree Sophie	Soph	ie Decree		Royal Belgian Inst	itute of Natu	ral Sciences (RB	INS)	đ	r 🗇 🛍
Filipe Augusto	Augu	sto Filipe		Laboratório Nacior	nal de Energ	jia e Geologia (Ll	NEG)	đ	r 🗇 🛍
Gautneb Håvard	Håva	rd Gautneb		Norges geologiske	undersøkel	lse (NGU)		đ	r 🗇 🛍
Gloaguen Eric	Eric C	Gloaguen		Bureau de Recher	ches Géolog	giques et Minière	s (BRGM) 👌	r 🗇 🖄
Heteren van Sytze	Sytze	van Heteren		TNO – Geological	Survey of th	e Netherlands		đ	r 🗇 🛍
Inverno Carlos	Carlo	s Inverno		Laboratório Nacior	nal de Energ	jia e Geologia (Ll	NEG)	త	r 🗇 🛍
Jonsson Erik	Erik J	lonsson		Sveriges geologisł	ka undersök	ning (SGU)		đ	r 🗇 🛍
Tulstrup Jorgen	Jorge	n Tulstrup		GEUS				đ	r 🗇 🛍
+ New record									
	FCDI Spatial Metadata Catalogue, Czach Geological Suprey								

Figure 12: Contacts management for logged-in users (https://metadata.europe-geology.eu/admin/contacts/)

Name of **Organization** should be entered in English (and in national language if it is defined as the second language). It is recommended to add organization's abbreviation in the parentheses at the end, for example "Czech Geological Survey (CGS)".

Note: *The Codelist of the EuroGeoSurveys' organizations (URL) is under preparation – then it will be possible to choose the organization name from this list.*

Email field should be filled as well and **Role** field value must be set to "**custodian**". This optional field is important for an effective use of metadata search.

Other contacts can be added in the same way by multiplying the whole element 19, filling the necessary information and setting the role to "**distributor**" (distribution information), "**point of contact**" (information about data), etc.

19 Responsible party	
Person	Select one
Organisation	E Česká geologická služba
	Reclamation Czech Geological Survey
Delivery Point	Klárov 3
City	Praha 1
Postal Code	118 21
Country	Česká republika
Phone	+420257089411
Email	metadata@geology.cz
WWW	http://www.geology.cz/
Role	custodian 🔹

20 Data quality scope – Is not displayed in the EGDI-Lite form and is automatically filled in accordance with element **3 Resource type.**

21 Coordinate reference system - Description of the coordinate reference system(s) used in the dataset. Select one or more from the list. INSPIRE compliant value have the denomination [INSPIRE] in square brackets at the end of the coordinate reference system abbreviation.

21 Coordinate reference system	*ETRS-LCC (3034) [INSPIRE]
21 Coordinate reference system	×ETRS-LCC (3034) [INSPIRE]

22 Vertical reference system - mandatory **for 3D models.** Description of the vertical reference system used in the dataset. Select one or more from the list.

22 Vertical reference system	×Baltic 1957

23 Vertical extent - Conditional **for 3D models**. Vertical limits of the model interlinked with the reference system in element **23.3 Vertical extent reference system -** local system or a defined vertical coordinate system. For describing the model depth in a local system, choose **Local - depth** (EPSG code 1049) and enter positive values of vertical limits (Z axis is in the direction from the surface to the Earth's core).

23 Vertical extent	min	500	max	2500	Filling instructions
23.3 Vertical extent reference system	Loc	al - depth			X 7

24 Distribution format - The value can be either selected from the codelist, or entered as a free text (especially in the case of a specialized modelling SW).

24 Distribution format					
Format	SHP	x -			
Version	10.2.				

25 Spatial representation type - Method used to spatially represent geographic information. Select one or more from the list.

25 Spatial representation type	
×vector	

26 Maintenance and update frequency - Provides information about the frequency of resource updates, and the scope of those updates.

26 Maintenance and update frequency					
H					
Frequency	continual 👻				
User defined					
frequency					

Note: If the desired interval is not present in the Frequency codelist, choose the value "unknown" and in the user defined frequency 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.

27 Purpose - Summary of purposes for which the data source was created (internal project identifier, scope, type of data/model, etc.).

27 Purpose	Shromažďování a poskytování veškerých dostupných údajů o nerostném surovinovém potenciálu v ČR.	1
	RCollection and providing all available data of Mineral potential in the country.	-/-

28.1 Metadata Contact - Organization responsible for creating and maintenance of metadata. Contact person/organisation can be filled item by item (Enter button confirms typing) or edited

once in "Settings" (Figure 12) and then used in more metadata records. Email field should be filled as well and Role field value must be set to "Point of contact".

28.1 Metadata point of contact		
Person	Mgr. Pavla Kramolišová	x •
Organisation	└m Česká geologická služba	
	R Czech Geological Survey	
Delivery Point	Klárov 131/3	
City	Praha 1	
Postal Code	118 21	
Country	Ĉeská republika	
Phone	+420257089452	
Email	pavla.kramolisova@geology.cz	
WWW	http://www.geology.cz/personal/p/pavla.kramolisova	
Role	point of contact	

28.2 Metadata date - Date stamp (date of last editing) is created automatically.

28.3 Metadata language - Metadata language can be administered in the sub-heading of the record (see chapter 3.3.2).

Status: Private 🗸 Group for editing: editor 🗸 For viewing: reader 🗸 Metadata language: 😓

29 File identifier - Identifier of the metadata file is generated automatically as UUID.

30 Parent identifier – Unique identifier of the parent metadata record can be chosen from the list of existing metadata records in the catalogue (e.g. if a dataset belongs to a data set serie). Parent should be filled first in the EGDI Metadata Catalogue and then it will appear in the list and will be available for all editors to choose it as the parent record.

30 Parent identifier	Mineral information system (SurIS)	×	Ŧ
----------------------	------------------------------------	---	---

Note: More details about linking metadata through the items **30 Parent identifier** and **31** *Sources* is described within document FAQ, Question 9

(https://metadata.europe-geology.eu/layout/egdi/EGDI_faq.pdf).

31 Sources - Sources used for the resource creation (lineage). These resources could be selected from the list of metadata records. For external sources fill the URL address of the metadata xml (e.g https://geology.cz/record/xml/9df8df5...ba9b0d98).

31 Sources () × A - Aquifer media (DRASTIC) ×

Note: To complete the editing, it is necessary to go through the steps in the chapter 3.3.6

3.3.5 Detailed instructions for filling the EGDI profile elements in the EGDI-Lite editing form for a spatial data service/application

Example of an English-Czech bilingual record (can be in any other national language + English).

Note: The images of all metadata elements below are created from example service record: <u>https://metadata.europe-geology.eu/record/basic/5e8e29b8-e334-4b30-b78b-14750a010833</u>

1 Resource title - Name by which the cited resource is known.

1 Resource title
▶ Testovací záznam - Ložiska nerostných surovin a prognózní zdroje
Rest record - Mineral deposits and resources

2 Resource abstract - Brief narrative summary of the content of the resource(s).2 Resource abstract

WMS služba zpřístupňuje základní informace o ložiskách nerostných surovin a prognózních zdrojích, chráněných ložiskových územích, o	* *
A WMS service provides the access to basic information on mineral deposits and prognosticated resources in the territory of the Czech	•

3 Resource type - Valid values for the EGDI projects are service and application.

Note: A different profile is used for a dataset. It can be selected at the beginning of the record creation process (Figure 6 in chapter 3.3.1) and detailed descriptions for the filling are described in detail in chapter 3.3.4.

4 Resource locator – Electronic address (URL, their function and a relevant protocol) of an on-line access to the resource, if it exists. "Name" and "Description" are optional. 4 Resource locator 🚯 ΠÐ URL 🕄 https://mapy.geology.cz/arcgis/services/Suroviny/Surovinovy informacni_sy Function 🕕 information Ŧ Protocol 1 OGC:WMS-1.3.0-http... • Name 🖪 _ Ж Description 1 X

5 Unique resource identifier - Recommended format for the unique identification of the resource is organization ID (e.g. domain name) and identifier of the dataset defined by the data provider, e.g. <u>http://www.domain.org/internal_identifier</u>.

5 Unique resource identifier	
URI	https://www.geology.cz/CZ-00025798-CGS_G-SURIS-WMS
Text	CZ-00025798-CGS_G-SURIS-WMS
Code space	www.geology.cz

6 Coupled resource - Only for services, not applicable for datasets. Provides information on the datasets that the service operates on, the appropriate entry should be selected from the list of value. Dataset should be described in the EGDI Metadata Catalogue first and then the name of the metadata record will appear in the list (in primary language of the metadata). List will be available for all editors to choose it as the resource. **6.2. Coupling type** is mostly "tight", when the service works directly with specific data.

6.1 Coupled resource	× Ložiska nerostných surovin a prognózní zdroje	
6.2 Coupling type	tight 🔹	

7 Resource language – Not applicable for services, only for datasets - see [1]

8 Topic category - Not applicable for services, only for datasets - see [1]

9 Service type - Only for services, not applicable for datasets. A service type name select from the codelist.

9 Service Type WMS -

Keyword can be selected from the **predefined list**, some of the required external registers and codelists are integrated directly into the EGDI Metadata Catalogue. In addition to that, any other words can be filled as a **Free keyword**.

- 1. **INSPIRE** service classification from the INSPIRE registry (<u>https://inspire.ec.europa.eu/metadata-codelist/SpatialDataServiceCategory</u>) should be selected from the codelist.
- 2. At least one keyword for the **INSPIRE theme** from the INSPIRE registry (<u>https://inspire.ec.europa.eu/theme/</u>) has to be filled.
- 3. Keyword for the **Project name** from the European Geoscience Registry (<u>https://data.geoscience.earth/ncl/project</u>) **is strongly recommended** to add to be easily searchable by Project if metadata were created within some specific project.
- 4. Any other **Free keyword** can be added here as free text as well.

10.1	Keyword				
	INSPIRE service	Geographic viewer			•
	INSPIRE theme	×Mineral resources			
	GeoERA keywords	× mineral deposit	×	•	
	Project name	Mintell4EU ×	Ŧ	·	
ΞÐ					
	Free keyword	EGDI			
		₩ EGDI			
€Ð					
	Free keyword	🛏 zásoby nerostů			
		Rineral reserves			

11.1 Geographic location – Defined by the western and eastern longitude and southern and northern latitude in decimal degrees (2 digits precision) in the WGS-84 coordinate system. There are three ways for filling this item:

- 1. The extent can be drawn by a tool () in the map and the coordinates will be added automatically into the form.
- 2. Each coordinate can be manually filled one by one
- 3. Choose one of the European countries or the whole EU (according to the range of data) from the **11.2 Geographic identifier** list and then the relevant coordinates will be filled in 11.1 Geographic location automatically.

Note: If metadata record of the service was imported from the **GetCapabilities** file from the map server, **11.1 Geographic location is filled in automatically**

11.1 Geographic location	et annover eld -	Sachsen- Anhalt	Potsdam	województwo lubuskie Zielona	województwo wielkopolskie Kalisz	Płock Rolska War	e szawa _{Sie}
	K X Deutschla	and Leipzi	g Co Sochsen nemnitz	uberec doinosi	tztwo gskie województwo	vojewodztwo lódzkie zęstochowa świetok	Radom *
	Hessen Jrt am in Würzburg	25	Pizeň	od Praha Severovýchod Česko	opolskie Ostravi Středni Morava	Katowice województw mołopolskie	wojewa
	Boden rttemberg Ulim	Boyern adto	Bu	české Jihovýcho české jadějovice ing Wie	n Bratislava	Slovensko	kolc
	iz/	München Tirol	Salzburg	Osterreich Steiermark Szom	Györ B bathely Ma	gyarország él	Debrecen, old és izak Orade
11.2 Geographic identifier	11.99 4 Czech Republic	8.253	18.91	51.247]		x -

11.2 Geographic identifier: Fill in only when Spatial Scope is not local or regional. Then select from the list value (for example: European Country, "Europe", "World" or "European Union").

12 Presentation form – Not applicable for services, only for datasets - see [1]

13 Edition - Not applicable for services, only for datasets - see [1]

14.1 Reference date - Date (YYYY-MM-DD) of creation must be filled, optionally also other types of reference dates can be added (publication date/date of the last revision).

14.1 Reference date		
Date	1992-01-01	
Date Type	creation	•

14.2 Resource temporal extent - if the resource (service) has a temporal extent, you can specify either a range of dates relevant for theservice, or a single date. To enter instant date (YYYY-MM-DD or YYYY) leave the second field empty. In case the time period is openended with either the start or the end date unknown, enter "?" to the corresponding field. If the temporal extent is on-going, enter "now" to the corresponding field.

14.2 Resource temporal extent	1992]-	now	
-------------------------------	------	----	-----	--

15 Lineage - Not applicable for services, only for datasets - see [1]

16 Spatial resolution - Not applicable for services, only for datasets - see [1]

17 Conformity - Citation of the implementing rules adopted according to the Article 7, section 1 of the 2007/2/ES Directive (INSPIRE). Appropriate **17.1 Specification** of a document you are referring to should be select from the predefined list, for the service "**INSPIRE** – **Network services 976/2009**" is the right value. If the service is not within the scope of INSPIRE, fill in the citation of the Directive and then the element 17.2 will have the value "NOT EVALUATED".

17 Conformity		
17.1 Specification	INSPIRE - Network services 976/2009	-
17.2 Degree	NOT EVALUATED 🔹	

18.1 Conditions applying to access and use - 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. If no conditions apply or are unknown, then you can select these values (as well as type of licence) from the list.

18.1 Conditions applying to access and use	
Predefined	× no conditions apply
Other - description	
	555 C
	li li

18.2 Limitations on public access – 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 should be filled in the **Predefined** field by choosing from the list. Also, other conditions (**Other - description** field) can be filled as a free text. You can also mark the data as "open data" in this element.

18.2 Limitations on public access	
Predefined 1	× no limitations to public access
Other - description ()	🛏 volný přístup na internetu
	se free internet access

19 Responsible party – Contact person/organisation can be filled item by item (Enter key confirms typing) or edited once in "**Settings**" on the <u>https://metadata.europe-geology.eu/admin/</u> page for logged-in users (Figure 12) and then used in more metadata records.

Name of **Organization** should be entered in English (and in national language if it is defined as the second language) It is recommended to add organization's abbreviation in the parentheses at the end, for example "Czech Geological Survey (CGS)".

Note: *The Codelist of the EuroGeoSurveys' organizations (URL) is under preparation – then it will be possible to choose the organization name from this list.*

Email field should be filled as well and **Role** field value must be set to "**custodian**". This optional field is important for an effective use of metadata search.

Contact information for distribution of data can be added in the same way (by multiplying the whole element 19, filling the necessary information and setting the role to "**distributor**").

19 Responsible party	
Person	Select one
Organisation	Èeská geologická služba
	Szech Geological Survey
Delivery Point	Klárov 3
City	Praha 1
Postal Code	118 21
Country	Česká republika
Phone	+420257089411
Email	metadata@geology.cz
www	http://www.geology.cz/
Role	custodian

20 Data quality scope – Not applicable for services, only for datasets - see [1]

21 Coordinate reference system - Description of the coordinate reference system(s) used in the service. Select one or more from the list. INSPIRE compliant value have the denomination [INSPIRE] in square brackets at the end of the coordinate reference system abbreviation.

21 Coordinate reference system ()	ETRS-LCC (3034) [INSPIRE]	
------------------------------------	---------------------------	--

22 Vertical reference system - Mandatory **for 3D models.** Description of the vertical reference system used in the service. Select one or more from the list.

22 Vertical reference system ()	×Baltic 1957

23 Vertical extent - Not applicable for services, only for datasets - see [1]

24 Distribution format - Not applicable for services, only for datasets - see [1]

25 Spatial representation type - Not applicable for services, only for datasets - see [1]

26 Maintenance and update frequency - Not applicable for services, only for datasets - see [1]

27 Purpose - Not applicable for services, only for datasets - see [1]

28.1 Metadata Contact - Organization responsible for creating and maintenance of metadata. Contact person/organisation can be filled item by item (Enter button confirms typing) or edited once in Settings (Figure 12) and then used in more metadata records. **Email** field should be filled as well and **Role** field value must be set to "**Point of contact**".

28.1 Metadata point of contact	
Person	Mgr. Pavla Kramolišová 🗙 🔻
Organisation	└── Ĉeská geologická služba
	R Czech Geological Survey
Delivery Point	Klárov 131/3
City	Praha 1
Postal Code	118 21
Country	Česká republika
Phone	+420257089452
Email	pavla.kramolisova@geology.cz
www	http://www.geology.cz/personal/p/pavla.kramolisova
Role	point of contact

28.2 Metadata date

Date stamp (date of last editing) is created automatically.

28.3 Metadata language

Metadata language can be administered in the sub-heading of the record (see chapter 3.3.2).

Status: Private 🗸 Group for editing: editor 🗸 For viewing: reader 🗸 Metadata language: 😓

29 File identifier - Identifier of the metadata file is generated automatically as UUID.

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29 File identifier	
5e6798e2-277c-4ef4-87cc-6ffa0a010833	

30 Parent identifier - Not applicable for services, only for datasets - see [1]

31 Sources - Not applicable for services, only for datasets - see [1]

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3.3.6 Important steps at the end of the editing process

Save and check the validation status and then **stop and save editing mode** by the tool **"Stop"** in the main menu (Figure 13)!

🍺 Micka	🖺 Save	Stop	X Cancel	EGDI-Lite	Y
Figure 13: Main m	enu in editir	ng mode			

Metadata record publication

After filling and saving the metadata record, please check that it is made **public** and Group for viewing is set as **reader** by checking the appropriate checkbox (Figure 14) at the page subheading, so that all users can search and view the record.

Status: Public Scroup for editing:	editor 🗸 For viewing: Teader 🕬 Metadata language: 📂
Figure 14: Making the metadata record publ	icly available

Metadata record backup

After finishing your editing session, please always create an XML file of your record as a backup copy for yourself from the basic metadata view for the logged-in users (Figure 15), just to make sure you do not lose any of your metadata in any case:

Figure 15: Record backup – icon for XML creating

Metadata Cookbook availability

This document "Cookbook for creating metadata records using the EGDI Metadata Catalogue (MIcKA, version 7.0)" and document "EGDI Metadata profile" (reference [1]) is integrated directly in the EGDI Metadata Catalogue (https://metadata.europe-

EGDI Metadata Catalogue Cookbook

geology.eu/catalog/micka/docs) and it is also available on the GitHub as MIcKA Documentation <u>https://czechgeologicalsurvey.github.io/MICKA-Docs/.</u>

3.3.7 Additional information for advanced users

EGDI-full editing form

The **EGDI-full** editing environment (Figure 16) is also available to use for creating metadata within the EGDI Metadata Catalogue. The EGDI-full editing form follows the ISO structure and has more options. Advanced metadata knowledge and experience is required on the editor's side, so it is **NOT RECOMMENDED** for beginners. If anyone would like to use it, please contact us with any issues and concerns on <u>egdi.metadata@geology.cz</u>.

For filling metadata according to this cookbook within the EGDI **it is strongly recommended to use the EGDI-Lite editing form**.

🏓 Micka 🖺 Save	e 🗸 Stop	X Cancel	EGDI-full
New record / up	odate reco	ord	✓ C Validate
Example 1 -	- Mineral o	deposits and resourc	es
Record status: Private v CGS v Metadata langu	Group for edit uage: 左	ing: cgs 🔻 Group for viewing:	
(CZ-1) File Identifier			
(10.3) language	Czech		
Parent Identifier	90 1		
6d186600-6600-1d18-85b8-be28	8e7d5d03d	>	
	EGDI Spa	tial Metadata Catalogue.	
(1.3) Resource type	dataset	▼ ⊕ ⊕	
Hierarchy Level Name	%		
	ot 🛌 🗖 🕻		
Individual Name	SL 🖉 🖬 L		
http://www.geology.cz/persor	nal/pavla.kramolisova	1	
Mgr. Pavla Kramolišová			
Organisation Name			
Česká geologická služba			
Czech Geological Survey			
Position Name			
	200		
	22		

Figure 16: The EGDI-full editing form for advanced editors

ANNEX: Overview of required and optional metadata items for different data sources

man		mandatory	1datory Obligation/condition according to			
EGDI			described	occurrence]		
nr. nr.		MD element title	All metadata sources	"2D" dataset	3D model	Service, application
1	1.1	Resource title	[1]	[1]	[1]	[1]
2	1.2	Resource abstract	[1]	[1]	[1]	[1]
3	1.3	Resource type	[1]	[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*]
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*]	[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		[01]	[01]	not applicable
27		Purpose		[01]	[01]	not applicable
28.1	10.1	Metadata point of contact	[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
31		Sources		[0*]	[0*]	not applicable
		Graphical overview		[1]	[1]	[1]

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

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