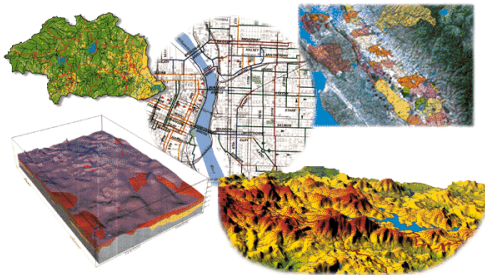


INTRODUCTION TO SPATIAL DATA INFRASTRUCTURES IN EUROPE



Tomáš ŘEZNÍK

Fall 2022

About the course

- Z8210 Introduction to spatial data infrastructures in Europe
- Language: English
- Extent and intensity: 2/0, 4 credits
- Type of Completion: k (colloquium)
 - an academic seminar
 - theory as well as practice
 - broad discussion
 - each student will present one topic (from the list advertised by the teacher) during the course

About the course

- Assessment methods
 - assessment of student's presentation;
 - assessment of student's activity during discussion throughout the semester.

Syllabus

1. Motivations and benefits of the European spatial data infrastructures (ESDI).
2. Metadata as the founding stone for linking between ESDI components.
3. Discovery processes, searching for spatial data and Web services.
4. View processes, preview of discovered spatial data.
5. Download processes, ordering and download of desired data.
6. Data models, understanding the UML diagrams and other formalised descriptions.
7. Map compositions on the Web, OGC Web Map Context.
8. Data sharing, use limitations and other licensing issues.

Literature

- **required literature**

- CRAGLIA, M. et al. 2012. Digital Earth 2020: towards the vision for the next decade. In International Journal of Digital Earth, Volume 5, Issue 1. 20 pages.
- <http://inspire.ec.europa.eu>
- NOGUERAS-ISO J., MURO-MEDRANO P.R., ZARAZAGA-SORIA F.J. *Geographic information metadata for spatial data infrastructures :resources, interoperability and information retrieval*. 1st ed. New York: Springer, 2005. xxi, 263 p. ISBN 3-540-24464-6.

- **recommended literature**

- ANNONI A., CRAGLIA M., EHLERS M., GEORGIADOU Y., GIACOMELLI A., KONEČNÝ, M., OSTLAENDER N., REMETÉY-FULOPP G., RHIND D., SMITS P., SCHADE S. A European perspective on Digital Earth. *International Journal of Digital Earth*, Abingdon, Oxon, UK: Taylor and Francis, 2011, July 2011, 4/4, p. 271-284. ISSN 1753-8947. doi:10.1080/17538947.2011.582888.
- *UML modeling languages and applications :UML 2004 Satellite Activities, Lisbon, Portugal, October 11-15, 2004 : revised selected papers*. Edited by Nuno Jardim Nunes. 1st ed. New York, NY: Springer-Verlag Berlin Heidelberg, 2005. xiv, 294 s. ISBN 3-540-25081-6.
- KAMBA V. *Tvorba systémů a komponent podle specifikace UML*. Brno, 2002. 61

1. MOTIVATIONS AND BENEFITS OF THE EUROPEAN SPATIAL DATA INFRASTRUCTURES

Why Spatial Data Infrastructures?

Spatial data infrastructure is like any other infrastructure (water, transport, electricity,...).

Decades of time, a lot of effort and money are needed. Users do not need to know how they work. **They just use it.**



Image adopted from: <https://www.123rf.com>

Why European spatial data infrastructures?

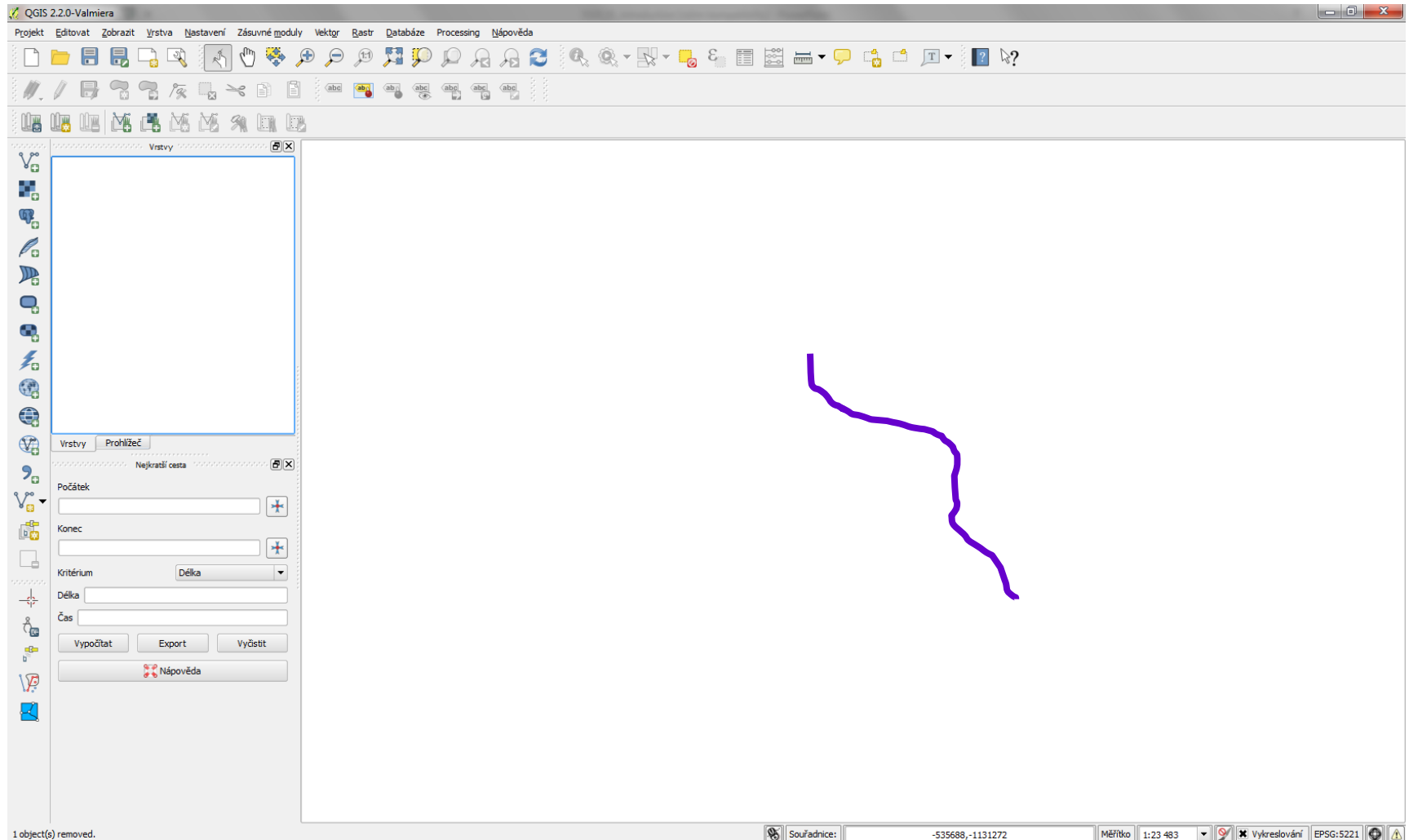
Initiative/legislation/framework to **discover** available spatial data, to evaluate their suitability for the purpose and to know the conditions applicable to their use.

Why such emphasis on discovery process?

- Have you ever heard about the PSI directive?
 - DIRECTIVE 2003/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 November 2003 on the **re-use of public sector information**
- **How could be any information re-used when we do not know that it exists?**

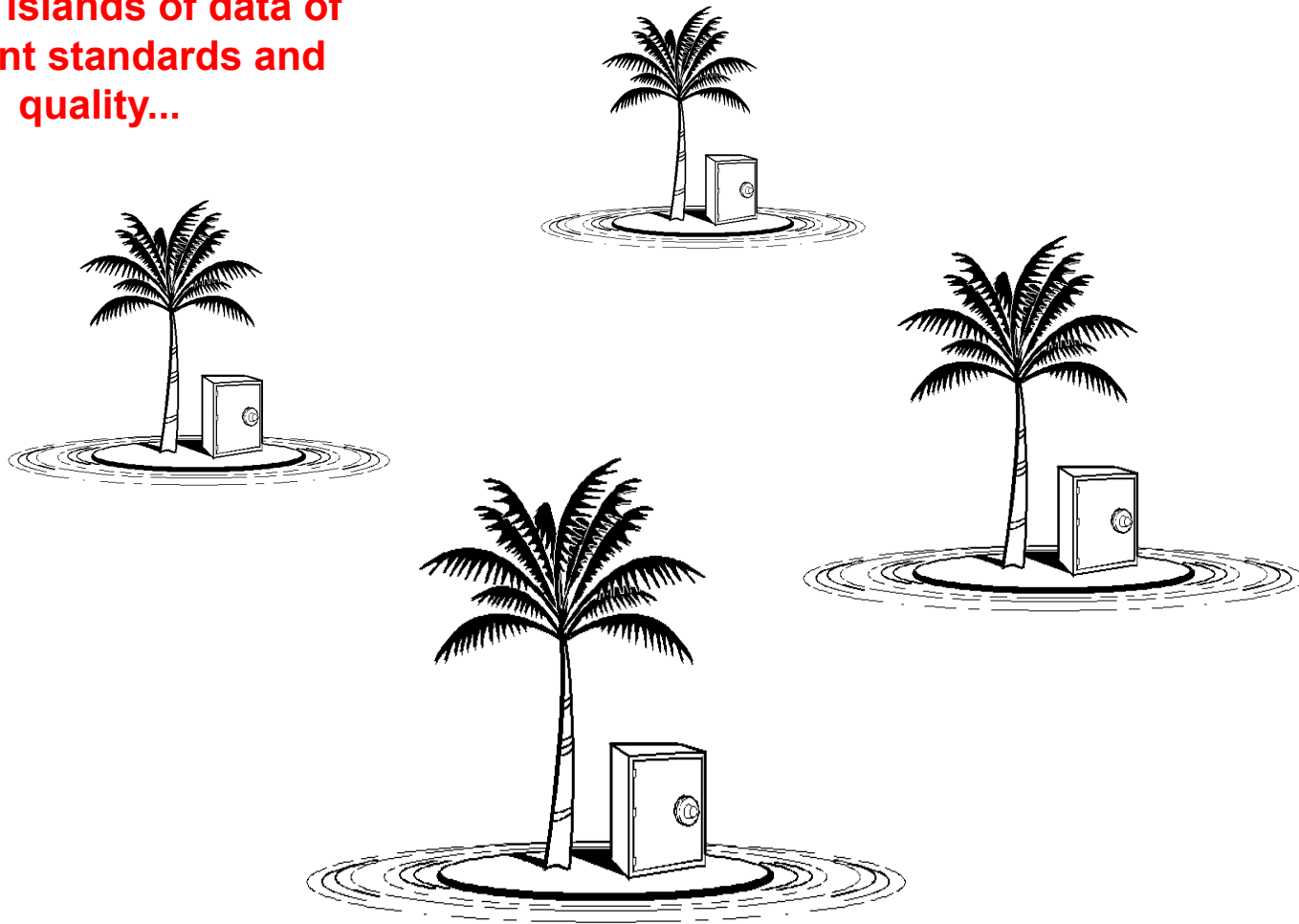
Why European spatial data infrastructures?

Why European spatial data infrastructures?



“Spatial data islands”

EU has islands of data of different standards and quality...



Why European spatial data infrastructures?

Google
UK

Google Search

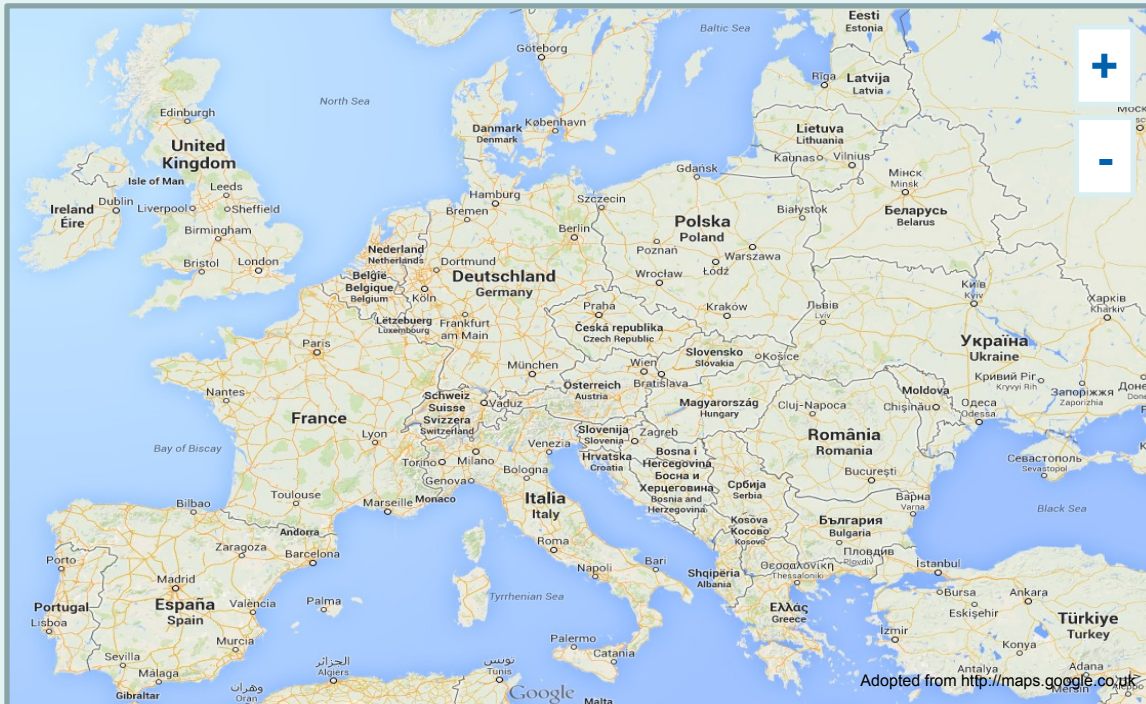
I'm Feeling Lucky

Adopted from <http://google.co.uk>

Why European spatial data infrastructures?

DISCOVERY SERVICE FOR SPATIAL DATA AND SERVICES

Search



Customized time range:

From:



To:



INSPIRE metadata



Responsible party

Geographic location

Resource title

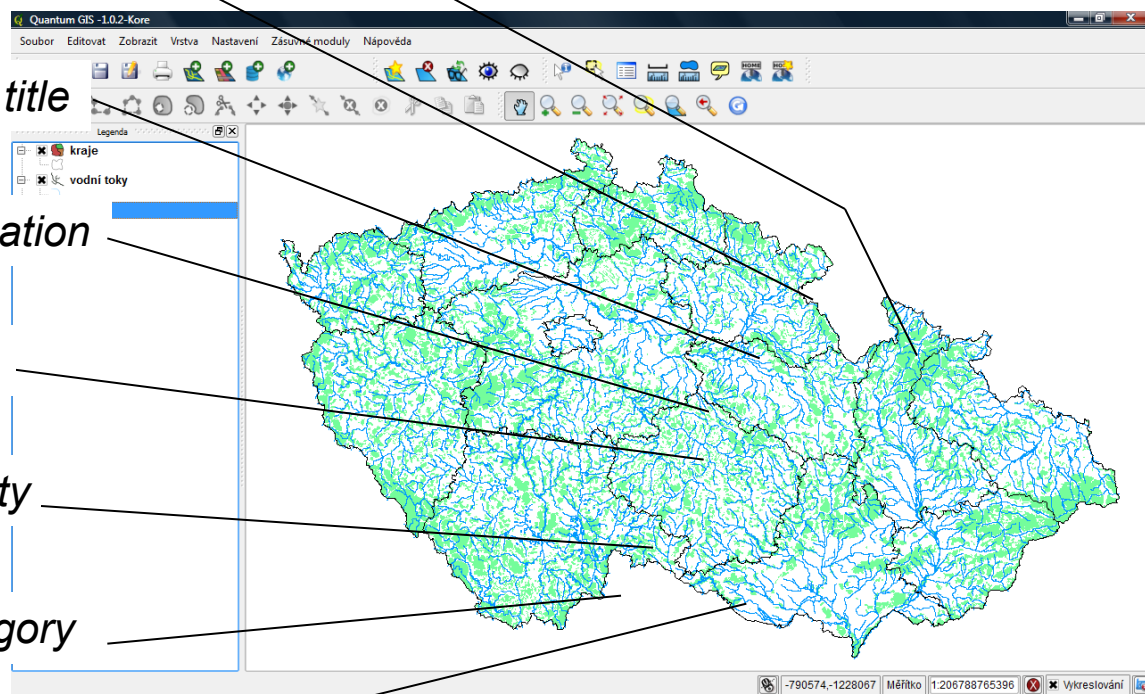
Date of creation

Lineage

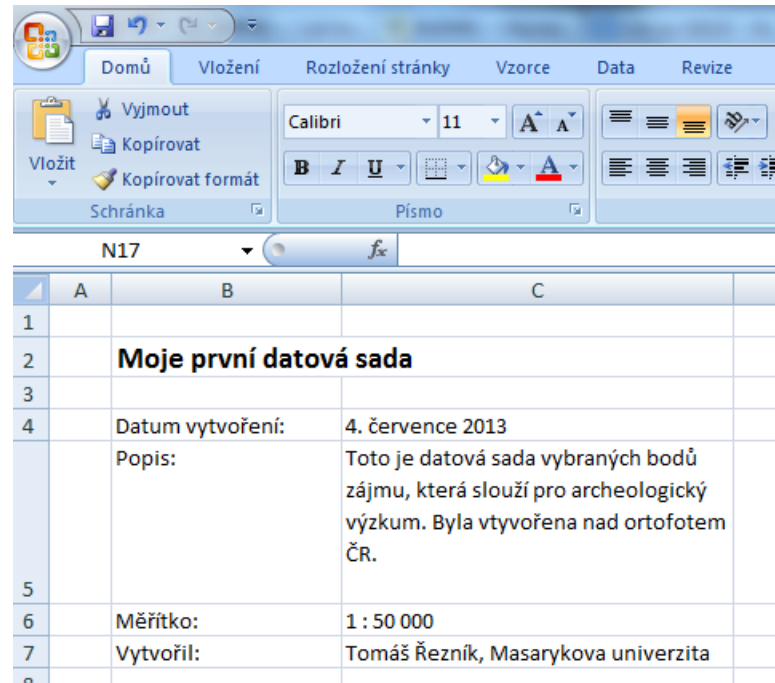
Conformity

Topic category

Resource abstract

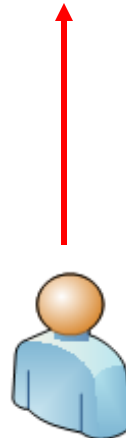


A metadata editor?



The screenshot shows the Microsoft Excel interface with a metadata table. The table has columns A, B, and C, and rows 1 through 7. The title 'Moje první datová sada' is in row 2, column B. The data in row 4 is: Datum vytvoření: 4. července 2013. The data in row 5 is: Popis: Toto je datová sada vybraných bodů zájmu, která slouží pro archeologický výzkum. Byla vytvořena nad ortofotem ČR. The data in row 6 is: Měřítko: 1 : 50 000. The data in row 7 is: Vytvořil: Tomáš Řezník, Masarykova univerzita.

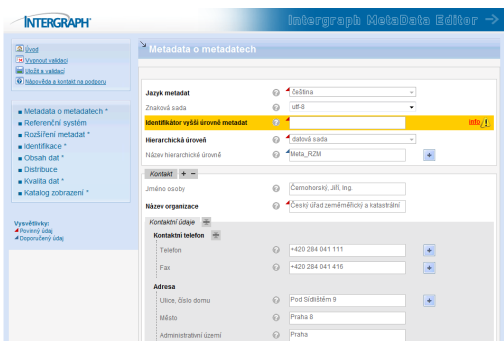
	A	B	C
1			
2		Moje první datová sada	
3			
4		Datum vytvoření:	4. července 2013
5		Popis:	Toto je datová sada vybraných bodů zájmu, která slouží pro archeologický výzkum. Byla vytvořena nad ortofotem ČR.
6		Měřítko:	1 : 50 000
7		Vytvořil:	Tomáš Řezník, Masarykova univerzita



INSPIRE-compliant metadata

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```



Laboratory of Geoinformatics and Cartography

Město

Administrativní území

Metadata publication



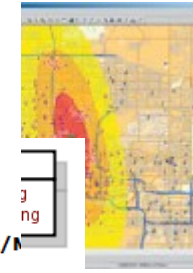
GIS

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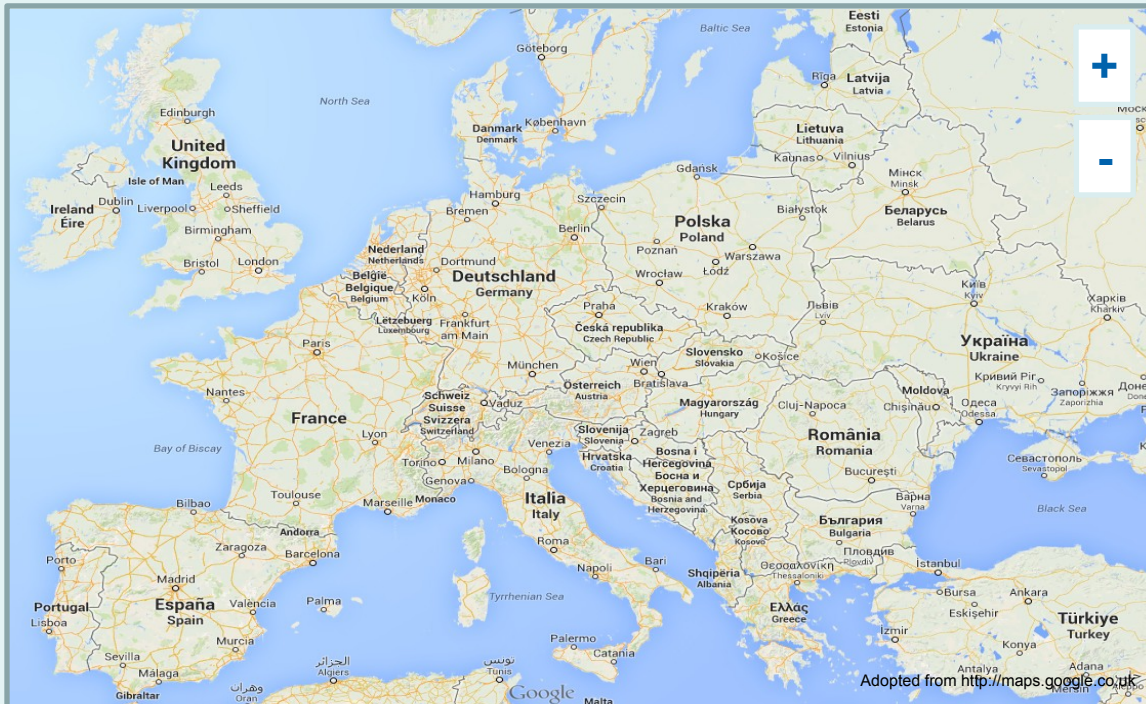


Why European spatial data infrastructures?

DISCOVERY SERVICE FOR SPATIAL DATA AND SERVICES

map

Search



Customized time range:

From:



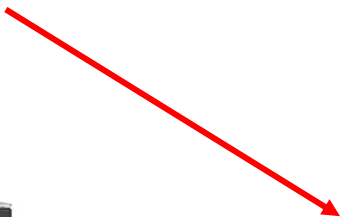
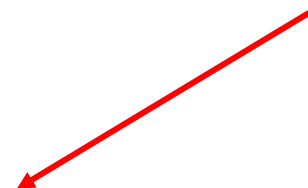
To:



Catalogue server



Client application



Catalogue server



Catalogue server



Catalogue server



Why European spatial data infrastructures?






DISCOVERY SERVICE FOR SPATIAL DATA AND SERVICES

map



displaying 1 to 10 out of 129486 results

< 1 2 3 ... 12948 12949 >

-  [dataset] [Commercial Land and Property](#) 
Barrow Councils Commercial Land and Property that is availab ...[\(show more\)](#)
-  [dataset] [Post Offices](#) 
Dataset showing Post Offices located with the Councils admin ...[\(show more\)](#)
-  [dataset] [Saved Local Plan Policy A12 - Energy Schemes](#) 
Sites allocated for energy schemes under the Saved Local Pla ...[\(show more\)](#)
-  [dataset] [Map based index \(GeoIndex\) geological memoirs](#) 
This layer of the map based index (GeoIndex) shows areas cov ...[\(show more\)](#)
-  [dataset] [Countryside Survey Environmental Zones](#) 
The Environmental Zones are aggregations of ITE Land Classes ...[\(show more\)](#)
-  [dataset] [Map based index \(GeoIndex\) onshore borehole samples](#) 
This layer of the Map based index (GeoIndex) shows the locat ...[\(show more\)](#)
-  [dataset] [Dentists](#) 
Dataset showing Dentists located with the Councils administr ...[\(show more\)](#)

Time range:



Why European spatial data infrastructures?



(UK) - Commercial Land and Property

Soubor prostorových dat

Jazyk Metadat	Jazyk Zdroje	Datum Metadat
Angličtina	Angličtina	2013-11-21T23:01:20

Kontaktní Místo Pro Metadata

Barrow Borough Council, *E-mailovou adresu:* gis@barrowbc.gov.uk

Odpovědná Osoba Nebo Organizace

Distributor: Barrow Borough Council, *E-mailovou adresu:* gis@barrowbc.gov.uk

Podmínky Vztahující Se K Přístupu A Použití

Public Sector End User Licence -INSPIRE

<http://www.ordnancesurvey.co.uk/business-and-government/public-sector/mapping-agreements/inspire-licence.html>

Omezení Veřejného Přístupu

<http://www.ordnancesurvey.co.uk/business-and-government/public-sector/mapping-agreements/inspire-licence.html>

[Vyvolat Mapu \(Get Map\)](#)

Název Zdroje

Commercial Land and Property

Téma Prostorových Dat

Tematická Kategorie

Plánování/katastr

Abstrakt Zdroje

Barrow Councils Commercial Land and Property that is available for rent. Areas shown as a mixture of both polygon and point. Upon accessing this Licensed Data you will be deemed to have accepted the terms of the Public Sector End User Licence -INSPIRE

Původ

The data shows polygons and points that were created over Ordnance Survey MasterMap base data.

Soulad

Specifikace: n/a, *Datum zveřejnění:* 1995-01-01

Jedinečný Identifikátor Zdroje

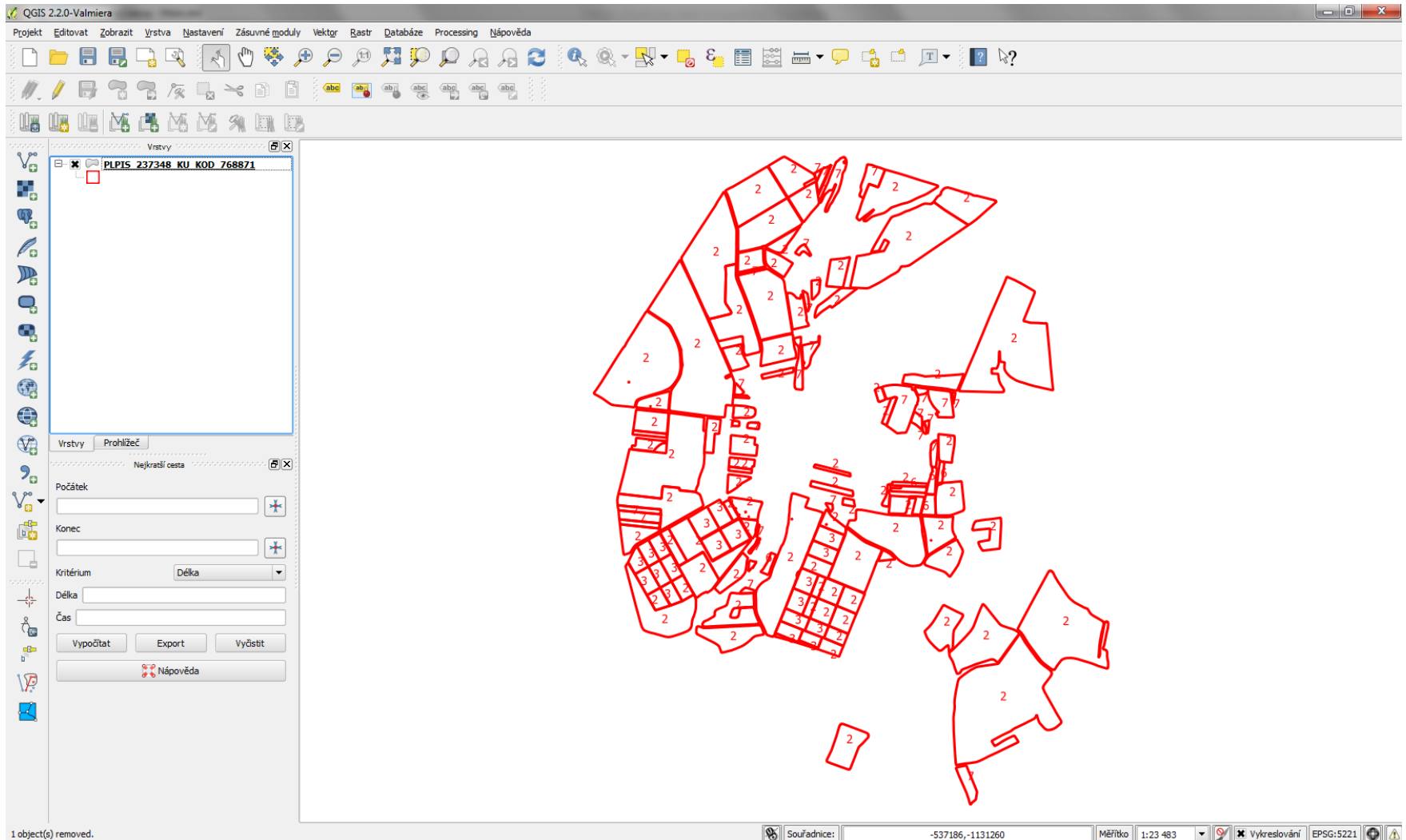
Kód: BBC:000079, *Jmenný prostor:*

Míra souladu: V nesouladu

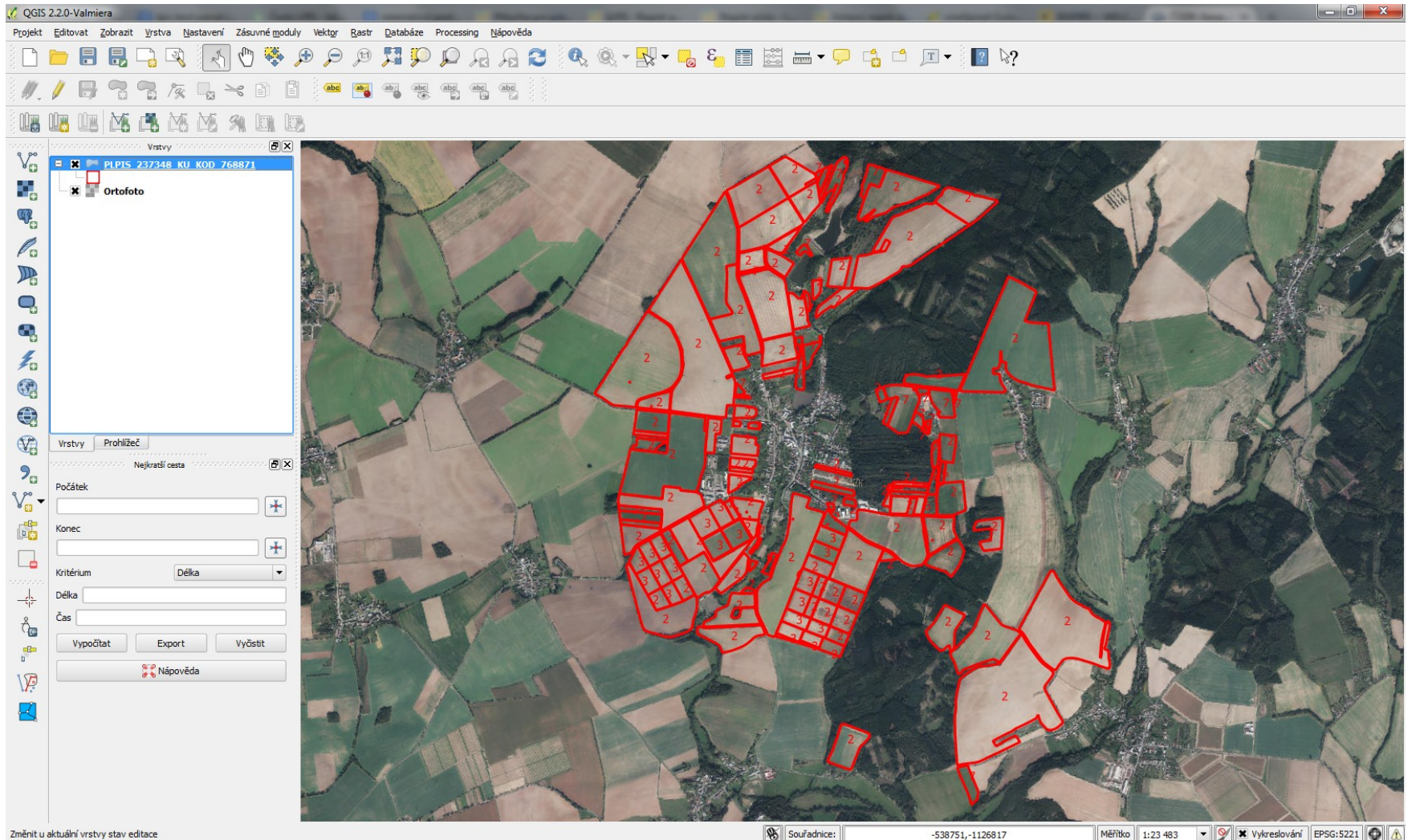
Lokátor Zdroje

[Barrow Council INSPIREWMS Service](#)

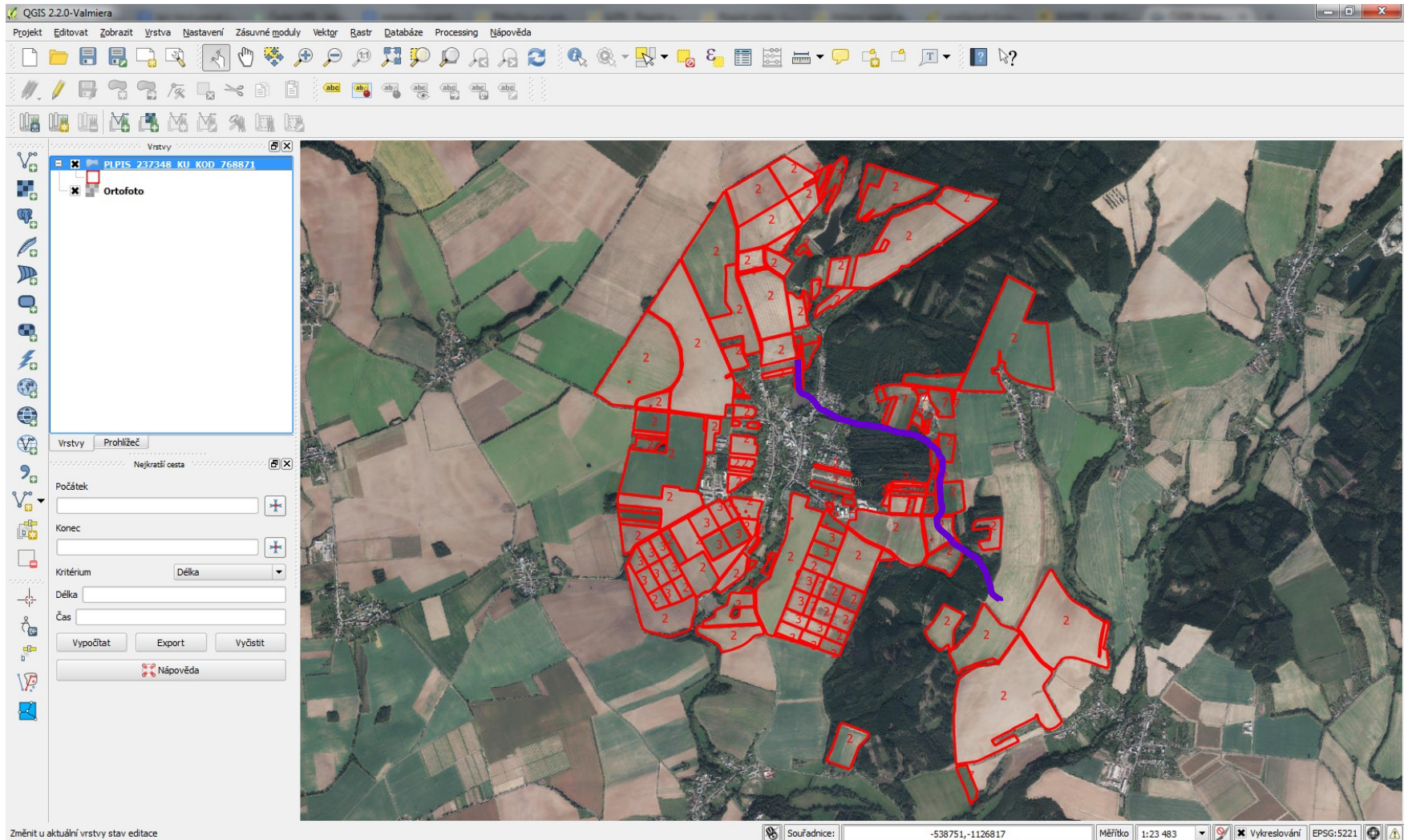
Why European spatial data infrastructures?



Why European spatial data infrastructures?



Why European spatial data infrastructures?



For which themes may I search?

Annex I

1. Coordinate reference systems
2. Geographical grid systems
3. Geographical names
4. Administrative units
5. Addresses
6. Cadastral parcels
7. Transport networks
8. Hydrography
9. Protected sites

Annex II

1. Elevation
2. Land cover
3. Orthoimagery
4. Geology

For which themes may I search?

Annex III

1. Statistical units
2. Buildings
3. Soil
4. Land use
5. Human health and safety
6. Utility and governmental services
7. Environmental monitoring facilities
8. Production and industrial facilities
9. Agricultural and aquaculture facilities
10. Population distribution — demography
11. Area management/restriction/regulation zones and reporting units
12. Natural risk zones
13. Atmospheric conditions
14. Meteorological geographical features
15. Oceanographic geographical features
16. Sea regions
17. Bio-geographical regions
18. Habitats and biotopes
19. Species distribution
20. Energy resources
21. Mineral resources

INSPIRE spatial data themes

- Exactly those themes that any student should choose and present its content to the audience.

Building blocks of any spatial data infrastructure

Monitoring and reporting

Data sharing

Network services

Metadata

Data

Who is obliged to create such SDI building blocks in the European Member States?

- So-called Legally Mandated Organisations (LMOs)
- Generally defined by the European directive 2007/2/EC
 - English version: <http://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:32007L0002&from=EN>
 - Versions for all 24 official European languages: <http://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX:32007L0002>
- In detail written in the appropriate legislation of each Member State, such as Zákon č. 123/1998 Sb. (CZ) or Zákon č. 3/2010 Z.z.(SK)

Which data shall be published under INSPIRE?

- Fulfilling the following conditions (see Article 4)
 - they relate to an area where a Member State has and/or exercises jurisdictional rights;
 - they are in electronic format;
 - they are held by or on behalf of any of the following:
 - (i) a public authority, having been produced or received by a public authority, or being managed or updated by that authority and falling within the scope of its public tasks;
 - (ii) a third party to whom the network has been made available in accordance with Article 12;
 - they relate to one or more of the themes listed in Annex I, II or III.

Deadlines

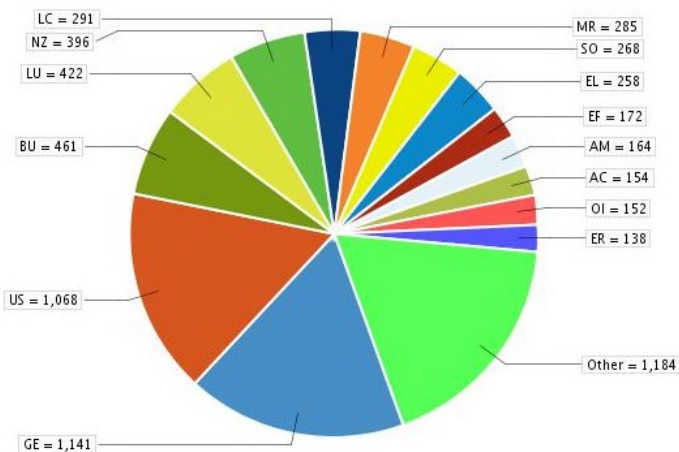
- See also <http://inspire.ec.europa.eu/index.cfm/pageid/44>

Implementation		
Milestone date	Article	Description
15-May-2010	21§1 21§2	Implementation of provisions for monitoring and reporting
03-Dec-2010	6(a)	Metadata available for spatial data sets and services corresponding to Annex I and II
09-May-2011	16	Member States shall provide the Discovery and View Services with initial operating capability
30-Jun-2011	15	The EC establishes and runs a geo-portal at Community level
19-Oct-2011	17(8)	Implementation of Regulation as regards the access to spatial data sets and services of the Member States by Community institutions and bodies under harmonised conditions for new arrangements
09-Nov-2011	16	Discovery and view services operational
28-Jun-2012	16	Member States shall provide the Download Services with initial operating capability
28-Jun-2012	16	Member States shall provide the Transformation Services with initial operating capability
23-Nov-2012	7§3, 9(a)	Implementation of Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services for Newly collected and extensively restructured Annex I spatial data sets available
28-Dec-2012	16	Download services operational
28-Dec-2012	16	Transformation services operational
04-Feb-2013	7§3, 9(a)	Implementation of Commission Regulation (EU) No 102/2011 of 4 February 2011 amending Regulation (EU) No 1089/2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services for newly collected and extensively restructured Annex I spatial data sets
19-Oct-2013	17(8)	Implementation of Regulation as regards the access to spatial data sets and services of the Member States by Community institutions and bodies under harmonised conditions for existing arrangements
03-Dec-2013	6(b)	Metadata available for spatial data sets and services corresponding to Annex III
21-Oct-2015	7§3, 9(b)	Newly collected and extensively restructured Annex II and III spatial data sets available
23-Nov-2017	7§3, 9(a)	Implementation of Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services for other Annex I spatial data sets still in use at the date of adoption
04-Feb-2018	7§3, 9(a)	Implementation of Commission Regulation (EU) No 102/2011 of 4 February 2011 amending Regulation (EU) No 1089/2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services for other Annex I spatial data sets still in use at the date of adoption
21-Oct-2020	7§3, 9(b)	Other Annex II and III spatial data sets available in accordance with IRs for Annex II and III

Feedback from the Member States

- Public consultations and testing
- **6554 comments** related to the data specifications in 2011
 - Each comment has to be answered and if appropriate, then also addressed

Theme	Issues	%
GN	1	0
CS	2	0
GS	2	0
AD	3	0
HY	7	0
PS	7	0
None	13	0
O&M	25	0
AF	47	0
BR	56	0
MF	63	0
SR	68	1
GCM & encoding	71	1
PF	80	1
SU	86	1
PD	96	1
OF	100	1
SD	100	1
HH	106	1
all	122	1
HB	129	1
ER	138	2
OI	152	2
AC	154	2
AM	164	2
EF	172	2
EL	258	3
SO	268	4
MR	285	4
LC	291	4
NZ	396	6
LU	422	6
BU	461	7
US	1068	16
GE	1141	17



At the end there is more than 6'000 pages...

Legally binding

INSPIRE directive (2007/2/EC)

Commission
Regulation No.
1205/2008 (metadata)

Commission
Regulation No.
1089/2010 (data)

...

Commission
Regulation No.
976/2009 (services)

Technical Guidelines
for Metadata (1)

Data Specifications
(34)

...

Technical Guidelines
for Network Services
(4)

INSPIRE objectives (purpose of all the 6'000 pages...)

Make relevant, harmonised spatial data available for Community Environmental Policy (formulation, implementation, monitoring and evaluation) and for the citizen ...

... through the establishment of integrated spatial information services, based upon a distributed network of databases, linked by common standards and protocols to ensure compatibility.

INSPIRE document repository

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

Contact | Search | Legal notice | Privacy statement | English (en) ▼



The screenshot shows the INSPIRE website homepage. At the top left is the European Commission logo. The main header reads "INSPIRE Infrastructure for Spatial Information in the European Community". Below this is a navigation menu with "About", "Implementation", "Adoption", "Stakeholder Participation", and "News and Events". The central content area is titled "INSPIRE DIRECTIVE" and contains a detailed introduction, a list of legislative acts with dates, and a "Featured News" section with three items from August 2014, June 2014, and June 2014. On the right side, there are utility buttons for "Print" and "font size", a "SEARCH INSPIRE" box with radio buttons for "Website and documents" and "Website only", a "LOGIN / REGISTRATION" button, a "GEOSPATIAL WORLD FORUM" banner for May 2015, an "INSPIRE IN YOUR COUNTRY" graphic, a "YEARS 2011, 2012, 2013" banner, and a "HEADLINES" section with a news item from August 2014.

INSPIRE Geoportal

- <http://inspire-geoportal.ec.europa.eu>

The screenshot shows the INSPIRE Geoportal website. At the top, there is a navigation bar with the European Commission logo and the text "INSPIRE GEOPORTAL Enhancing access to European spatial data". Below this is a secondary navigation bar with links for "Home", "Priority Data Sets Viewer", "Thematic Viewer", "Harvesting status", and "Find out more about".

The main content area is titled "Welcome to the INSPIRE Geoportal". It explains that the portal is the central European access point to data provided by EU Member States and several EFTA countries under the INSPIRE Directive. The portal allows for:

- monitoring the availability of INSPIRE data sets;
- discovering suitable data sets based on their descriptions (metadata);
- accessing the selected data sets through their view or download services.

The metadata used in the Geoportal are regularly harvested from the discovery services of EU Member States and EFTA countries. The status of harvesting is available [here](#). Feedback regarding the functionality as well as data set availability is welcome [here](#).

There are three main sections:

- Priority Data Sets Viewer:** The application displays the availability and provides access to the selected priority data sets used for environmental reporting. It allows filtering by environmental domain, environmental legislation and country, as well as individual priority data sets. A button labeled "Browse Priority Data Sets" is present.
- INSPIRE Thematic Viewer:** The application displays the availability and provides access to all EU MS data sets falling under the scope of INSPIRE Directive filtered by data themes and countries (i.e. Annex I, II and III). A button labeled "Browse INSPIRE Thematic Data Sets" is present.
- INSPIRE Reference Validator:** The validator application is to help data providers, solution providers and national coordinators to check whether their data sets, network services and metadata meet the requirements defined in the INSPIRE Technical Guidelines. The validation tests are based on the Abstract Test Suites agreed between Member States and the Commission in the INSPIRE Maintenance and Implementation Group. A button labeled "Go to INSPIRE validator" is present.

The footer contains the text "INSPIRE Geoportal" and "Version: 1.4.0", along with navigation links for "INSPIRE", "NEWS & EVENTS", "INSPIRE Tools", and "Geoportal".

Czech national INSPIRE geoportal

- <http://geoportal.gov.cz>

MAPY

INSPIRE

METADATA

POSKYTOVATEL

VALIDÁTOR

GEOREPORTY

E-SHOP

Vítejte na stránkách Národního geoportálu INSPIRE

Seminář autorské právo & Open data

09.09.2014

V úterý 9. 9. 2014 se pod záštitou projektu Zvýšení efektivity ochrany autorských práv v kartografii a geoinformatické a ve spolupráci s Českou asociací pro geoinformace uskuteční Seminář Autorské právo & open data. Místo konání Novotného lávka 5, Praha 1, sál č. 217. Seminář je v rámci podpory projektu zdarma, je však nutné se předem zaregistrovat. Více detailů o... (pokračování).

Náhrada geologické mapy

08.07.2014

Z WMS služby Geologická a geomorfologická mapa ČR (CENIA/cenia_geolog_geomorf) provozovaná CENIA byla odstraněna geologická mapa 1:500 000. Nově provozovaná služba obsahuje pouze geomorfologické členění ČR a je dostupná na adrese http://geoportal.gov.cz/ArcGIS/services/CENIA/cenia_geomorfologie/MapServer/WMServer. Připojení Geologické mapy ČR 1:500 000 je i nadále možné prostřednictvím WMS... (pokračování).

Strategie pro implementaci INSPIRE v České republice

03.07.2014

Pro účelovou implementaci INSPIRE v České republice je od začátku r. 2014 vytvářena národní strategie implementace INSPIRE. Tato strategie je v rámci České republiky základním dokumentem pro realizaci požadavků vyplývajících ze Směrnice INSPIRE. Cílem implementace je vytvořit, udržovat a rozvíjet infrastrukturu pro prostorové informace INSPIRE. Hlavním důvodem pro tvorbu Strategie je... (pokračování).

Přihlásit odběr novinek | Novinky v katalogu metadat

Srpen 2014						
P	U	S	C	P	S	N
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

Kontakt:
geoportal@cenia.cz



Tematické mapy (dle směrnice INSPIRE)



I.2 - Zeměpisné soustavy souřadnicových sítí



I.3 - Zeměpisné názvy



I.4 - Správní jednotky



I.5 - Adresy



I.7 - Dopravní síť



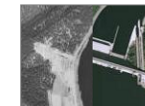
I.8 - Vodopis



I.9 - Chráněná území



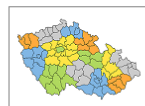
II.2 - Krajinný pokryv



II.3 - Ortofotogramy



III.4 - Geologie



III.1 - Statistické jednotky



III.3 - Půda



III.4 - Využití území



III.5 - Lidské zdraví a bezpečnost



III.6 - Veřejné služby a služby veřejné správy



III.7 - Zařízení pro sledování životního prostředí



III.8 - Výrobní a průmyslová zařízení



III.10 - Rozložení obyvatelstva - demografie