

# Proces harmonizácie priestorových údajov a metaúdajov

Metodické usmernenie v oblasti interoperability priestorových údajov

Zdroj: Procedures for [Data and Metadata harmonisation](#), G.Martitano, F.Vinci, S.Morrone  
LINKVIT, smeSprire project, 2014



This work is licensed under a [Creative Commons Attribution-ShareAlike 3.0 Unported License](#)

V: 1.0 | 12/2014

SK Preklad a doplnenie: Martin Tuchyňa

# Prehľad

- Terminológia
- Princípy harmonizácie údajov a metaúdajov
- Zdrojové a cieľové údajové modely
- Mapovacie tabuľky
- Transformácia údajov a metaúdajov
- Princípy validácie transformovaných údajov a metaúdajov

# Terminológia

- SK špecifická terminológia
- SK termíny z prekladu EU legislatívy
- Možnosti implementácie

Theme	Téma
Application schema	Aplikačná schéma
Feature class	Trieda prvkov
Attribute	Atribút
Codelist	Zoznam kódov (číselník)
Data type	Dátový typ
Association	Asociácia

# SK špecifická terminológia

- Zákon 3/2010 Z. z.
  - § 2 Základné pojmy
    - Zdrojová evidencia
    - Referenčná verzia
  - § 3 Povinná osoba
  - ...
- Vyhláška č. 352/2011 Z. z.
- Iná legislatíva
  - Tematická báza
  - ?

# SK termíny z prekladu EU legislatívy

## ● Smernica INSPIRE & Vykonávacie predpisy

### Article 3

For the purposes of this Directive, the following definitions shall apply:

1. | 'infrastructure for spatial information' means metadata, spatial data sets and spatial data services; network services and technologies; agreements on sharing, access and use; and coordination and monitoring mechanisms, processes and procedures, established, operated or made available in accordance with this Directive;
2. | 'spatial data' means any data with a direct or indirect reference to a specific location or geographical area;
3. | 'spatial data set' means an identifiable collection of spatial data;
4. | 'spatial data services' means the operations which may be performed, by invoking a computer application, on the spatial data contained in spatial data sets or on the related metadata;
5. | 'spatial object' means an abstract representation of a real-world phenomenon related to a specific location or geographical area;
6. | 'metadata' means information describing spatial data sets and spatial data services and making it possible to discover, inventory and use them;
7. | 'interoperability' means the possibility for spatial data sets to be combined, and for services to interact, without repetitive manual intervention, in such a way that the result is coherent and the added value of the data sets and services is enhanced;
8. | 'Inspire geo-portal' means an Internet site, or equivalent, providing access to the services referred to in Article 11(1);
9. | 'public authority' means: | (a) | any government or other public administration, including public advisory bodies, at national, regional or local level; | (b) | any natural or legal person performing public administrative functions under national law, including specific duties, activities or services in relation to the environment; and | (c) | any natural or legal person having public responsibilities or functions, or providing public services relating to the environment under the control of a body or person falling within (a) or (b). | Member States may provide that when bodies or institutions are acting in a judicial or legislative capacity, they are not to be regarded as a public authority for the purposes of this Directive;
10. | 'third party' means any natural or legal person other than a public authority.

### Článok 3

Na účely tejto smernice sa uplatňujú tieto vymedzenia pojmov:

1. | „infraštruktúra pre priestorové informácie“ sú metaúdaje, súbory priestorových údajov a služby priestorových údajov; sieťové služby a technológie; dohody o zdieľaní, prístupe a využívaní; a koordinačné a monitorovacie mechanizmy, procesy a postupy zriadené, prevádzkované alebo sprístupnené v súlade s touto smernicou;
2. | „priestorové údaje“ sú všetky údaje s priamym alebo nepriamym odkazom na konkrétnu polohu alebo geografickú oblasť;
3. | „súbor priestorových údajov“ je identifikovateľná zbierka priestorových údajov;
4. | „služby priestorových údajov“ sú operácie, ktoré sa môžu vykonať pri použití počítačovej aplikácie s priestorovými údajmi obsiahnutými v súboroch priestorových údajov alebo so súvisiacimi metaúdajmi;
5. | „priestorový objekt“ je abstraktné znázornenie fenoménu zo skutočného sveta súvisiaceho s konkrétnou polohou alebo geografickou oblasťou;
6. | „metaúdaje“ sú informácie opisujúce súbory priestorových údajov a služby priestorových údajov, ktoré umožňujú ich zisťovanie, katalogizáciu a využívanie;
7. | „interoperabilita“ je možnosť kombinovania súborov priestorových údajov a možnosť interakcie služieb bez opakovaného manuálneho zásahu tak, že výsledok je koherentný a zvyší sa pridaná hodnota súborov údajov a služieb;
8. | „geoportál Inspire“ je internetová stránka alebo jej rovnocenná obdoba, ktorá poskytuje prístup k službám uvedeným v článku 11 ods. 1;
9. | „orgán verejnej moci“ je: | a) | každý štátny alebo iný verejný správny orgán vrátane verejných poradných orgánov na celoštátnej, regionálnej alebo miestnej úrovni; | b) | každá fyzická alebo právnická osoba vykonávajúca verejné správne funkcie podľa vnútroštátneho práva vrátane osobitných povinností, činností alebo služieb súvisiacich so životným prostredím a | c) | každá fyzická osoba alebo právnická osoba, ktorá má verejné povinnosti alebo funkcie vo vzťahu k životnému prostrediu alebo poskytuje verejné služby súvisiace so životným prostredím pod dohľadom subjektu alebo osoby uvedenej pod písmenom a) alebo b); | členské štáty môžu stanoviť, že na účely tejto smernice sa za orgán verejnej moci nepovažujú orgány alebo inštitúcie, keď vykonávajú súdnu alebo zákonodarnú moc;
10. | „tretia strana“ je každá fyzická alebo právnická osoba iná ako orgán verejnej moci.

# SK termíny z prekladu EU legislatívy

- INSPIRE Registry

Viac informácií o | Kontakt | Právne upozornenie slovenčina (sk)

**INSPIRE REGISTRY**  
Enhancing access to European spatial data

Európska komisia > INSPIRE > INSPIRE systém registrov > INSPIRE glossary

### INSPIRE glossary

ID: <http://inspire.ec.europa.eu/glossary>

Názov: **INSPIRE glossary**

Obsah: The INSPIRE Glossary contains general terms and definitions that specify the common terminology used in the INSPIRE Directive and in the INSPIRE Implementing Rules documents. The glossary supports the use of a consistent language in different documents when referring to the terms.

Vlastník: **Európska únia**

Správca registra: **Európska komisia, Spoločné Výskumné Centrum**

Kontrolný orgán: **INSPIRE Skupina pre Údržbu a Implementáciu (MIG)**

Submitter: **Members of INSPIRE Maintenance and Implementation Group (MIG)**

Contact point: **JRC INSPIRE Registry Team**

Licence: **Europa Legal Notice**

Ďalšie formáty: XML (Registry) XML\_beta (ISO 19115) RDF/XML\_beta JSON Atom CSV\_beta

### Glossary

Počet položiek na stránke 50 Filter

Filter Názov	Filter Stav
actor	Platný
Addressable object	Platný
aerodrome reference point	Platný
airport/heliport	Platný
application data	Platný

## Registre

Počet položiek na stránke 50

Filter Názov

- INSPIRE feature concept dictionary
- INSPIRE glossary
- INSPIRE metadata codelist register
- INSPIRE reference document register
- Register INSPIRE aplikačných schém
- Register INSPIRE tém
- Register INSPIRE zoznamov kódov

Zobrazenie od 1 do 7 z 7 záznamov

# Možnosti implementácie

- Spresniť záber termínov (Len zákon a vyhláška, alebo aj iná legislatíva?)
- Identifikovať problémové termíny (viac významové, vzájomne si odporujúce definície a pod.)
- Identifikovať nové termíny
- Správa a aktualizácia terminológie
- Upresniť formu ich zberu a správy
  - Separátny dokument
  - Register

# Princípy harmonizácie údajov a metaúdajov

- Princípy harmonizácie údajov
- Princípy harmonizácie metaúdajov
- Harmonizácia údajov a metaúdajov
- Vyhodnotenie, mapovanie a Transformácia údajov



# Princípy harmonizácie údajov

- Definícia: Poskytnutie prístupu k priestorovým údajom prostredníctvom sieťových služieb v reprezentácii, ktorá umožňuje ich kombináciu s inými harmonizovanými údajmi konzistentným spôsobom využitím spoločnej sady produktových špecifikácií;
- Vráťane ustanovených súradnicových referenčných systémov, klasifikačných systémov, aplikačných schém, atď.;
- Kľúčovou požiadavkou pre harmonizáciu podľa INSPIRE je využívanie spoločného údajového modelu v kontexte otvoreného štandardizovaného a servisne orientovaného prostredia;
- Typické fázy procesu harmonizácie:
  - Posúdenie
  - Mapovanie
  - Transformácia
  - Validácia
  - Publikácia

# Princípy harmonizácie údajov

- Posúdenie: Zdrojové, cieľové schémy a samotné údaje je potrebné zanalyzovať
- Mapovanie: Tento krok zahŕňa extrakciu údajov z dostupných zdrojov, často v kombinácii s dopytmi, úpravami, prípadne prepájaním s inými údajmi;
- Transformácia: Proces, upravujúci zdrojovú schému a geometriu podľa požiadaviek cieľovej schémy/m;
- Validácia: Proces posúdenia súladu (posúdenie konformity implementácie voči štandardom)
- Publikácia: Transformované súbory údajov sú sprístupnené prostredníctvom sieťových služieb

# Princípy harmonizácie údajov

Legislatíva	Skrátený názov	Etapa zapojenia
Nariadenie Komisie (EÚ) č. 1089/2010 z 23.11. 2010 , ktorým sa vykonáva smernica Európskeho parlamentu a Rady 2007/2/ES, pokiaľ ide o interoperabilitu súborov a služieb priestorových údajov, vrátane neskorších doplnení (Nariadenie Komisie (EÚ) č. 102/2011 zo 04.02. 2011 a Nariadenie Komisie (EÚ) č . 1253/2013 z 21.10. 2013)	Vykonávacie predpisy pre interoperabilitu priestorových údajov a služieb	Posúdenie, Mapovanie, Transformácia a Validácia
Nariadenie Komisie (EÚ) č. 976/2009 z 19.10.2009, ktorým sa smernica Európskeho parlamentu a Rady 2007/2/ES, pokiaľ ide o sieťové služby	INSPIRE nariadenie pre vyhľadávacie a zobrazovacie služby	Publikácia
Nariadenie Komisie (EÚ) č. 1088/2010 z 23.11.2010, doplňujúca Nariadenie Komisie (EÚ) č. 976/2009, pokiaľ ide o ukladacie a transformačné služby	INSPIRE nariadenie pre ukladacie a transformačné služby	Publikácia

# Princípy harmonizácie údajov

## Ako naplniť požiadavky údajov?

Usmernenia	Podpora
<p>INSPIRE Údajové špecifikácie - Technické usmernenia pre Prílohy I,II a III Tém priestorových údajov</p>	<ul style="list-style-type: none"><li>• Poskytnutie usmernenia pre implementáciu nariadení uložených prostredníctvom Vykonávacích predpisov pre interoperabilitu priestorových údajov a služieb</li><li>• Obsahujú ďalšie požiadavky a odporúčania, ktoré sú aj napriek absencii vo vykonávacích predpisoch, relevantné pre zabezpečenie, alebo zvýšenie interoperability údajov</li><li>• Pomoc pri procese testovania súladu, poskytnutím tzv. Abstrakt Test Suite (ATS), obsahujúceho súbor testov vykonateľných nad údajmi určených pre vyhodnotenie súladu s požiadavkami zadanými v Technických usmerneniach a relevantnými časťami vykonávacích predpisov</li></ul>

# Princípy harmonizácie metaúdajov

- Článok 5(1) smernice INSPIRE ustanovuje povinnosť zabezpečenia tvorby metaúdajov pre súbory priestorových údajov a súvisiacich služieb pre témy uvedené v prílohách 1-3 zákona č.3/2010 Z.z., a povinnosťou udržiavať tieto metaúdaje aktualizované
- Článok 5(4) smernice INSPIRE ustanovuje prijatie vykonávacích predpisov pri zohľadnení existujúcich medzinárodných štandardov a užívateľských požiadaviek.

# Princípy harmonizácie metaúdajov

Legislatíva	Skrátený názov	Etapa zapojenia
Nariadenie Komisie (EÚ) č. 1205/2008 z 03.12. 2008, ktorým sa vykonáva smernica Európskeho parlamentu a Rady 2007/2/ES, pokiaľ ide o metaúdaje	Vykonávacie predpisy pre metaúdaje	Metaúdaje pre vyhľadávanie
Nariadenie Komisie (EÚ) č. 1089/2010 z 23.10.2010, ktorým sa smernica Európskeho parlamentu a Rady 2007/2/ES, pokiaľ ide o interoperabilitu súborov priestorových údajov a služieb, vrátane neskorších doplnení (Nariadenie Komisie (EÚ) č. 102/2011 zo 04.02. 2011 a Nariadenie Komisie (EÚ) č. 1253/2013 z 21.10. 2013)	Vykonávacie predpisy pre interoperabilitu priestorových údajov a služieb	Metaúdaje pre interoperabilitu (resp. metaúdaje pre posúdenie a použitie)

# Princípy harmonizácie metaúdajov

- Okrem metaúdajových položiek definovaných vo vyššie uvedenej legislatíve, existuje súbor “Odporúčaných metaúdajových položiek” definovaných v INSPIRE Údajových špecifikáciách - Technické usmernenia pre Prílohy I,II a III Tém priestorových údajov
- Tieto metaúdajové položky nie sú legislatívne záväzné.

# Princípy harmonizácie metaúdajov

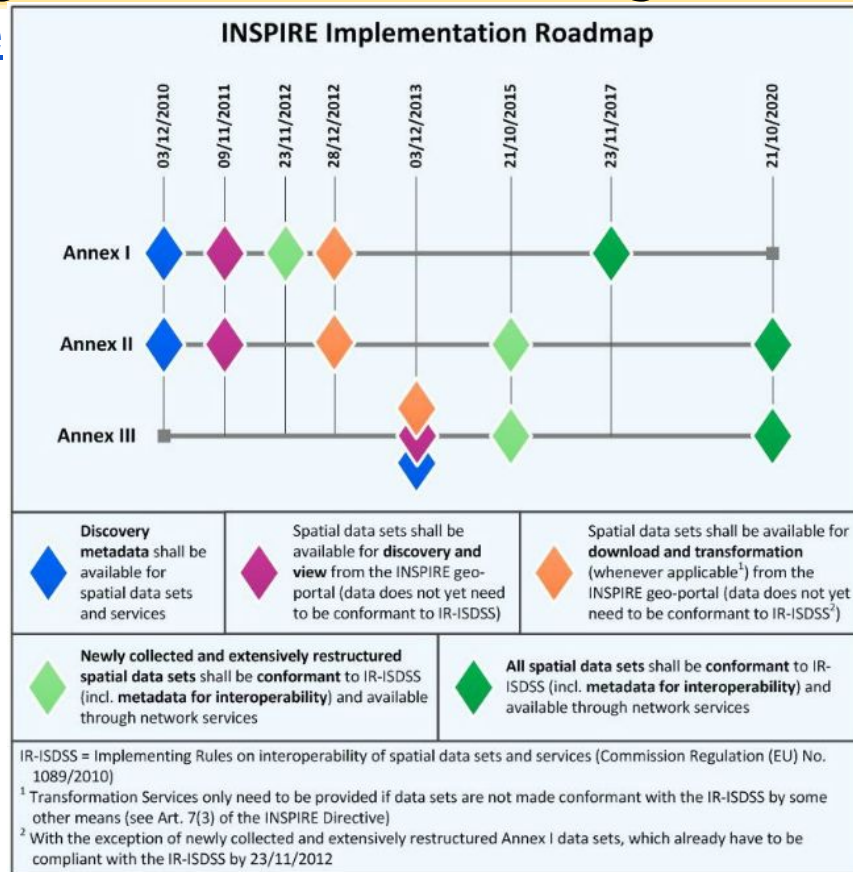
## Ako naplniť požiadavky metaúdajov?

Usmernenia	Podpora
INSPIRE Vykonávacie predpisy pre metaúdaje: Technické usmernenia založené na EN ISO 19115 a EN ISO 19119	Definujú spôsob implementácie požiadaviek Vykonávacích pravidiel pre metaúdaje využitím EN ISO 19115 a EN ISO 19119
INSPIRE Údajové špecifikácie - Technické usmernenia pre Prílohy I,II a III Tém priestorových údajov	Poskytujú: <ol style="list-style-type: none"><li>1. Doplňujúce požiadavky a odporúčania pre implementáciu metaúdajov pre vyhľadávavanie špecifické pre jednotlivé témy</li><li>2. Usmernenia a odporúčania pre implementáciu:<ol style="list-style-type: none"><li>a. metaúdajov pre interoperabilitu vyžadovaných vykonávacími predpismi pre interoperabilitu</li><li>b. odporúčané metaúdajové položky pre jednotlivé témy</li></ol></li></ol>



# Harmonizácia údajov a metaúdajov

INSPIRE [harmonogram implementácie](#)

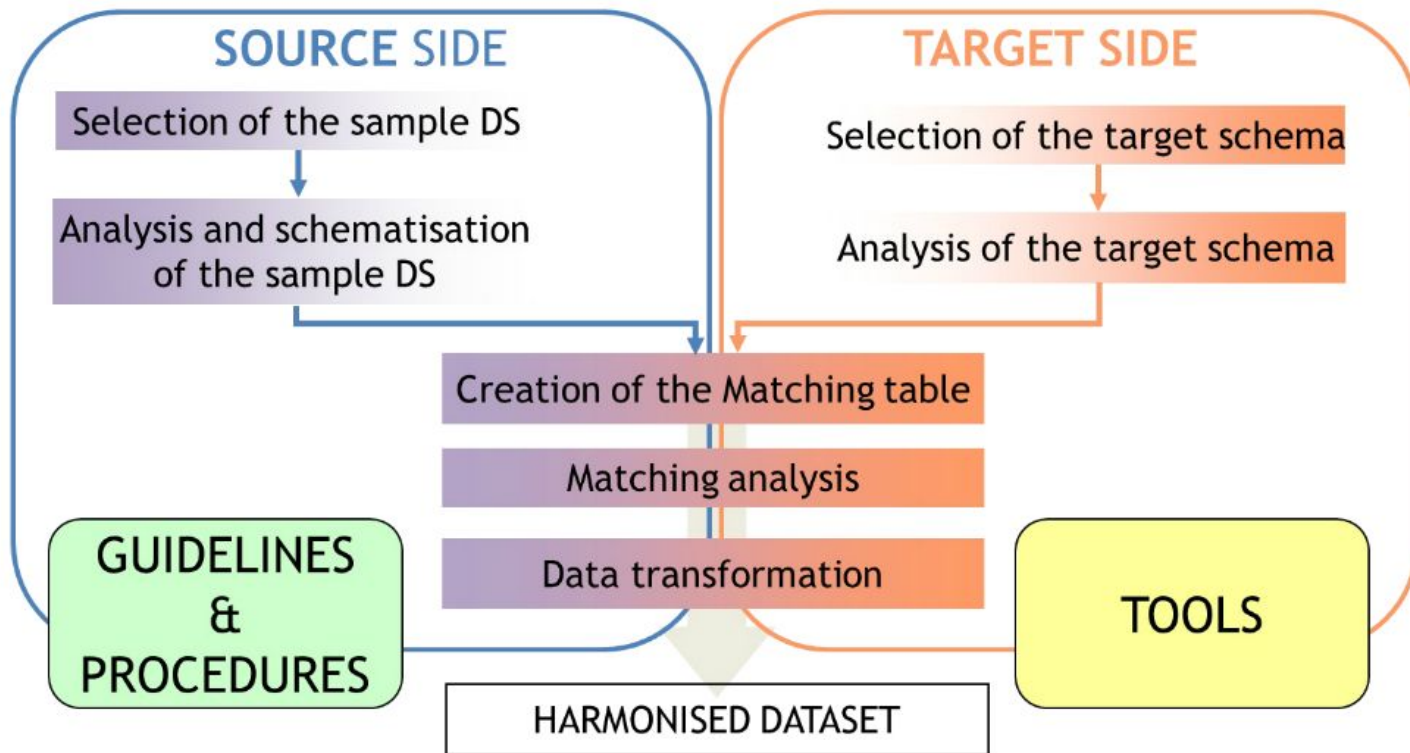


# Posúdenie, Mapovanie a Transformácia údajov

- Krok 1: Analýza súboru/ov priestorových údajov a identifikácia Zdrojového údajového modelu
- Krok 2: Identifikácia a analýza Cieľového údajového modelu
- Krok 3: Úprava a naplnenie Mapovacích Tabuliek
- Krok 4: Analýza a riešenie problémov súvisiacich s mapovaním
- Krok 5: Realizácia transformácie s vybraným nástrojom
- Krok 6: Tvorba transformovaných údajov

# Posúdenie, Mapovanie a Transformácia údajov

Schematické zobrazenie procesu transformácie



# Zdrojové a Cieľové Údajové Modely

- Zdrojový údajový model
- Cieľový údajový model

# Zdrojový Údajový Model

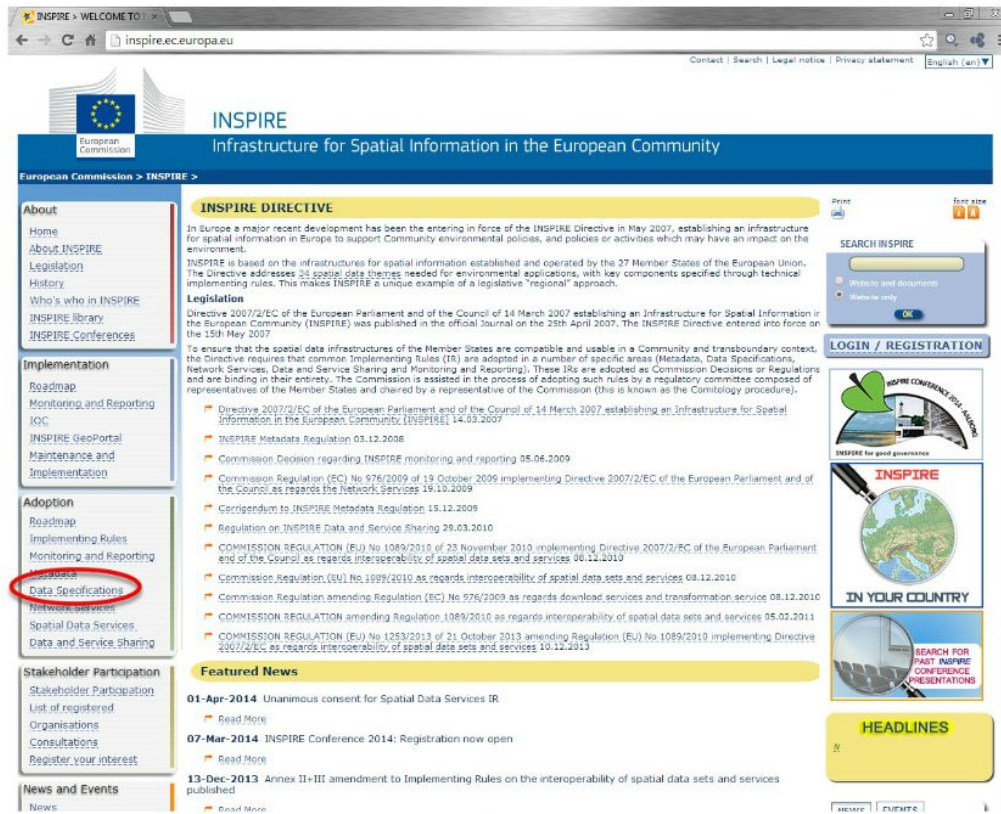
- Identifikácia zdrojového údajového modelu (UML, dokumentácia, atď.)
  - V prípade absencie zdrojového údajového modelu je potrebná analýza vstupných súboru/ov pre porozumenie údajového obsahu (význam atribútov, údajových typov, zoznamov kódov (číselníkov), atď.)
- Overenie údajového formátu (Shape, gml, DB tabuľky, atď.)

# Cieľový Údajový Model

- INSPIRE webstránky
  - Definícia údajových tém
  - Legislatíva / Údajové špecifikácie
  - Údajové modely
    - UML (HTML prehľad, EA Projekt)
    - Mapovacie tabuľky
    - GML Aplikačné schémy

# Cieľový Údajový Model

## Lokalizácia informácií pre údajové špecifikácie na webových stránkach INSPIRE



The screenshot shows the INSPIRE website interface. The left navigation menu includes the following items:

- About
  - Home
  - About INSPIRE
  - Legislation
  - History
  - Who's who in INSPIRE
  - INSPIRE library
  - INSPIRE conferences
- Implementation
  - Readmap
  - Monitoring and Reporting
  - IOC
  - INSPIRE GeoPortal
  - Maintenance and Implementation
- Adoption
  - Readmap
  - Implementing Rules
  - Monitoring and Reporting
  - Use Cases
  - Data Specifications** (highlighted with a red circle)
  - Network Services
  - Spatial Data Services
  - Data and Service Sharing
- Stakeholder Participation
  - Stakeholder Participation
  - List of registered Organisations
  - Consultations
  - Register your interest
- News and Events
  - News

The main content area features a yellow header for 'INSPIRE DIRECTIVE' with the following text:

**INSPIRE DIRECTIVE**

In Europe a major recent development has been the entering in force of the INSPIRE Directive in May 2007, establishing an infrastructure for spatial information in Europe to support Community environmental policies, and policies or activities which may have an impact on the environment.

INSPIRE is based on the infrastructures for spatial information established and operated by the 27 Member States of the European Union. The Directive addresses 24 specific data themes needed for environmental applications, with key components specified through technical implementing rules. This makes INSPIRE a unique example of a legislative "regional" approach.

**Legislation**

Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE) was published in the official Journal on the 29th April 2007. The INSPIRE Directive entered into force on the 15th May 2007.

To ensure that the spatial data infrastructures of the Member States are compatible and usable in a Community and transboundary context, the Directive requires that common Implementing Rules (IR) are adopted in a number of specific areas (Metadata, Data Specifications, Network Services, Data and Service Sharing and Monitoring and Reporting). These IRs are adopted as Commission Decisions or Regulations and are binding in their entirety. The Commission is assisted in the process of adopting such rules by a regulatory committee composed of representatives of the Member States and chaired by a representative of the Commission (this is known as the Comitology procedure).

Key legislative acts listed include:

- Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE) [14.03.2007]
- INSPIRE Metadata Regulation 03.12.2008
- Commission Decision regarding INSPIRE monitoring and reporting 05.06.2009
- Commission Regulation (EC) No 976/2009 of 19 October 2009 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards the Network Services 19.10.2009
- Corrigendum to INSPIRE Metadata Regulation 15.12.2009
- Regulation on INSPIRE Data and Service Sharing 29.03.2010
- 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 08.12.2010
- Commission Regulation (EU) No 1089/2010 as regards interoperability of spatial data sets and services 08.12.2010
- Commission Regulation amending Regulation (EC) No 976/2009 as regards download services and transformation service 08.12.2010
- COMMISSION REGULATION amending Regulation 1089/2010 as regards interoperability of spatial data sets and services 05.02.2011
- COMMISSION REGULATION (EU) No 1253/2013 of 21 October 2013 amending Regulation (EU) No 1089/2010 implementing Directive 2007/2/EC as regards interoperability of spatial data sets and services 10.12.2013

The 'Featured News' section includes:

- 01-Apr-2014** Unanimous consent for Spatial Data Services IR  
[Read More](#)
- 07-Mar-2014** INSPIRE Conference 2014: Registration now open  
[Read More](#)
- 13-Dec-2013** Annex II-III amendment to Implementing Rules on the interoperability of spatial data sets and services published  
[Read More](#)

Other website features visible include a search bar, a 'LOGIN / REGISTRATION' button, and a 'HEADLINES' section.

# Cieľový Údajový Model

## Zoznam tém priestorových údajov

The screenshot shows the INSPIRE website's 'Data Specifications' page. The page is titled 'INSPIRE Infrastructure for Spatial Information in the European Community'. The main navigation menu includes 'Legislation', 'Who', 'Consultations', 'Testing', 'Roadmap', 'Library', 'News', 'Themes', and 'Data Models'. The 'Themes' menu item is circled in red. The page content is organized into three main sections: ANNEX I, ANNEX II, and ANNEX III, each containing a list of spatial data themes.

**INSPIRE**  
Infrastructure for Spatial Information in the European Community

European Commission > INSPIRE > Data Specifications

**Data Specifications**

Home  
About INSPIRE  
Legislation  
History  
Who's who in INSPIRE  
INSPIRE library  
INSPIRE Conferences

**Implementation**  
Roadmap  
Monitoring and Reporting  
IOC  
INSPIRE GeoPortal  
Maintenance and Implementation

**Adoption**  
Roadmap  
Implementing Rules  
Monitoring and Reporting  
Metadata  
Data Specifications  
Network Services  
Spatial Data Services  
Data and Service Sharing

**Stakeholder Participation**  
Stakeholder Participation  
List of registered  
Organisations  
Consultations  
Register your interest

**News and Events**  
News

**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

**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 and demography
- 11 Area management / restriction / regulation zones
- 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

**Related Documents**

- 1 Definition of Annex Themes and Scope (0.2.3 Version 3). This document identifies definitions and scope of the spatial data themes

SEARCH INSPIRE

LOGIN / REGISTRATION

INSPIRE CONFERENCE 2014

INSPIRE for good governance

INSPIRE

IN YOUR COUNTRY

SEARCH FOR PAST INSPIRE CONFERENCE PRESENTATIONS

HEADLINES

News 01-Apr-2014: Unanimous Support for Spatial Data



# Cieľový Údajový Model

Definícia a popis tém pre predbežnú analýzu relevancie pre daný súbor údajov

The screenshot displays the INSPIRE website's 'Data Specifications' section. The main heading is 'Administrative units'. Below it, there are two tabs: 'Information' (selected) and 'Legal Acts - Technical Guidance'. The 'Information' tab contains a 'Definition' and a 'Description'.

**Definition**  
Units of administration, dividing areas where Member States have and/or exercise jurisdictional rights, for local, regional and national governance, separated by administrative boundaries.

**Description**  
Each national territory is divided into administrative units. The administrative units are separated by administrative boundaries. Administrative units and administrative boundaries form a partition of space. According to user requirements it will be distinguished between land and (coastal) water parts of administrative units. The INSPIRE theme 'Administrative units' refers to the division of areas where Member States have and/or exercise jurisdictional rights, for local, regional and national governance, i.e. units at the cadastral parcel level are excluded as well as territorial waters, which are in fact assigned to the INSPIRE themes 'Cadastral parcels', 'Hydrography' (Annex I) and/or 'Sea regions' (Annex III). It does not include related systems such as census districts, post office regions and other sector-specific regions, but it will contain a reference to national statistical units at local level (LAU) and to the Nomenclature of Territorial Units for Statistics (NUTS) established by Eurostat.

At the bottom of the page, there is a 'Related Documents' section with a link to 'Definition of Annex Themes and Scope (D 2.3 Version 3)'. The browser's address bar shows the URL: [inspire.ec.europa.eu/index.cfm/pageid/2/list/7](http://inspire.ec.europa.eu/index.cfm/pageid/2/list/7).

# Cieľový Údajový Model

Zoznam relevantnej legislatívy a technickej dokumentácie

The screenshot shows the INSPIRE website interface. The browser address bar displays 'inspire.ec.europa.eu/index.cfm/pageid/2'. The page title is 'INSPIRE Infrastructure for Spatial Information in the European Community'. The main navigation menu includes 'Data Specifications', 'Info', 'Consultations', 'Testing', 'Roadmap', 'Library', 'News', 'Themes', and 'Data Models'. The 'Legislation' tab is highlighted with a red circle. The 'Legislation' section lists several Commission Regulations, including those amending Directive 2007/2/EC and Directive 2007/2/EC. Below the legislation, there are sections for 'Technical Guidelines Annex I' and 'Technical Guidelines Annex II & III', each listing various technical guidelines with their respective dates. The right sidebar contains a search bar, login/register options, and a 'HEADLINES' section with a date of 'Nov 05-Apr 2014'.

# Cieľový Údajový Model

Zoznam [INSPIRE údajových modelov v rozličných formátoch, mapovacie tabuľky, GML aplikačné schémy.](#)

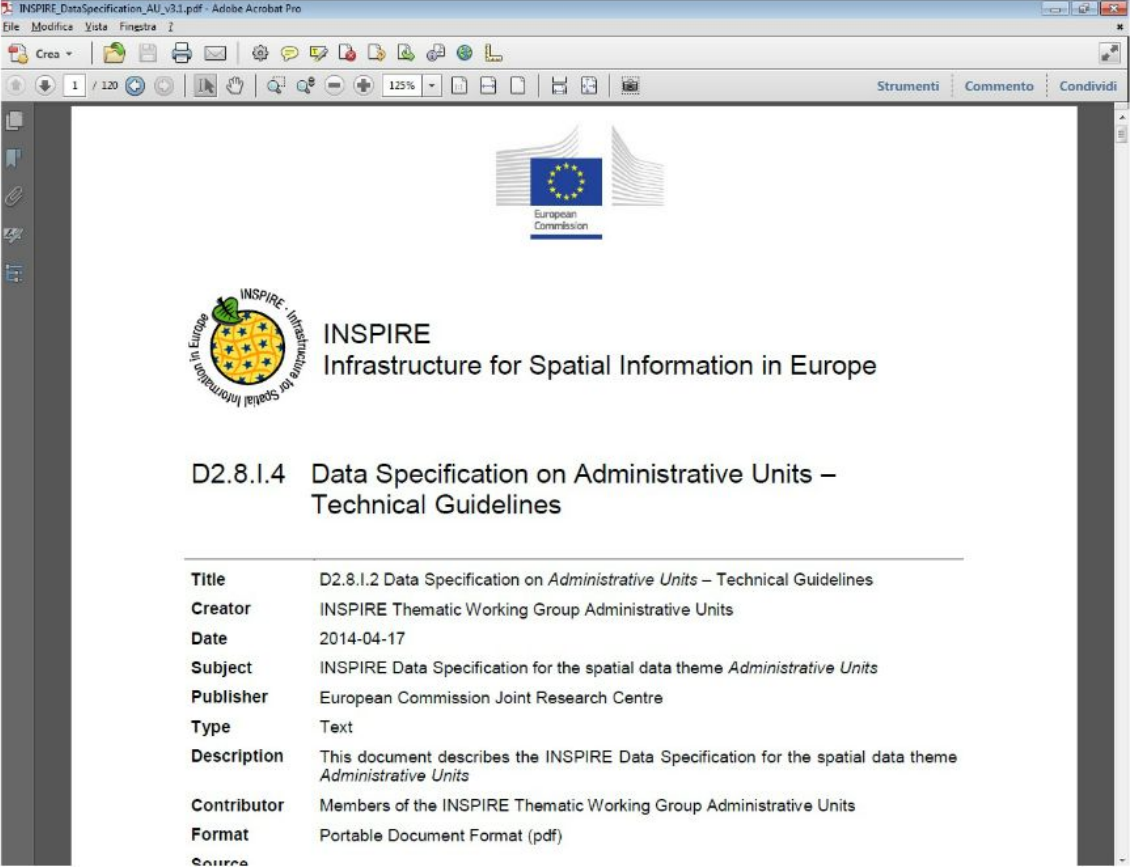
The screenshot shows the INSPIRE website's 'Data Specifications' page. The navigation menu at the top includes 'Data Models', which is circled in red. Below the menu is a table listing data models with columns for Revision, Corresponding TG and IRs, Status, Feature catalogue, HTML view, Mapping Tables, LA project / XML, SVN, and GML & code lists.

Revision	Corresponding TG and IRs	Status	Feature catalogue	HTML view	Mapping Tables	LA project / XML	SVN	GML & code lists
4618	This version corresponds to the context of the Implementing Rules (EU) No 1089/2010, No 1027/2011, No 1753/2013 and the latest publicly available version of the data specifications of Annex I, II-III.							
	This distribution contains only those data models that are contained in the amendment to the Implementing Rules for Annex II-III themes, including the updates of the Annex I data themes.	APPROVED	FC	HTML	Mapping Tables	EA / XML	SVN	Schema repository
	This distribution combines the data models contained in the amendment to the Implementing Rules (see above) and the extended data models contained in the data specification Technical Guidelines (but not in the IRs). Please note that the extended data models not included in the IRs should be considered as draft and therefore be used with caution.	APPROVED (IR models) DRAFT (extended models)	FC	HTML	Mapping Tables	EA / XML	SVN	Schema repository (IR models) Schema repository (extended models)

Below the table is a 'Show older versions' link. The right sidebar contains a search bar, login/registration options, and a 'HEADLINES' section with the date 'News 01-Apr-2014: Unpublished content for Spatial Data Services IR'.

# Cieľový Údajový Model

Detail údajovej špecifikácie.

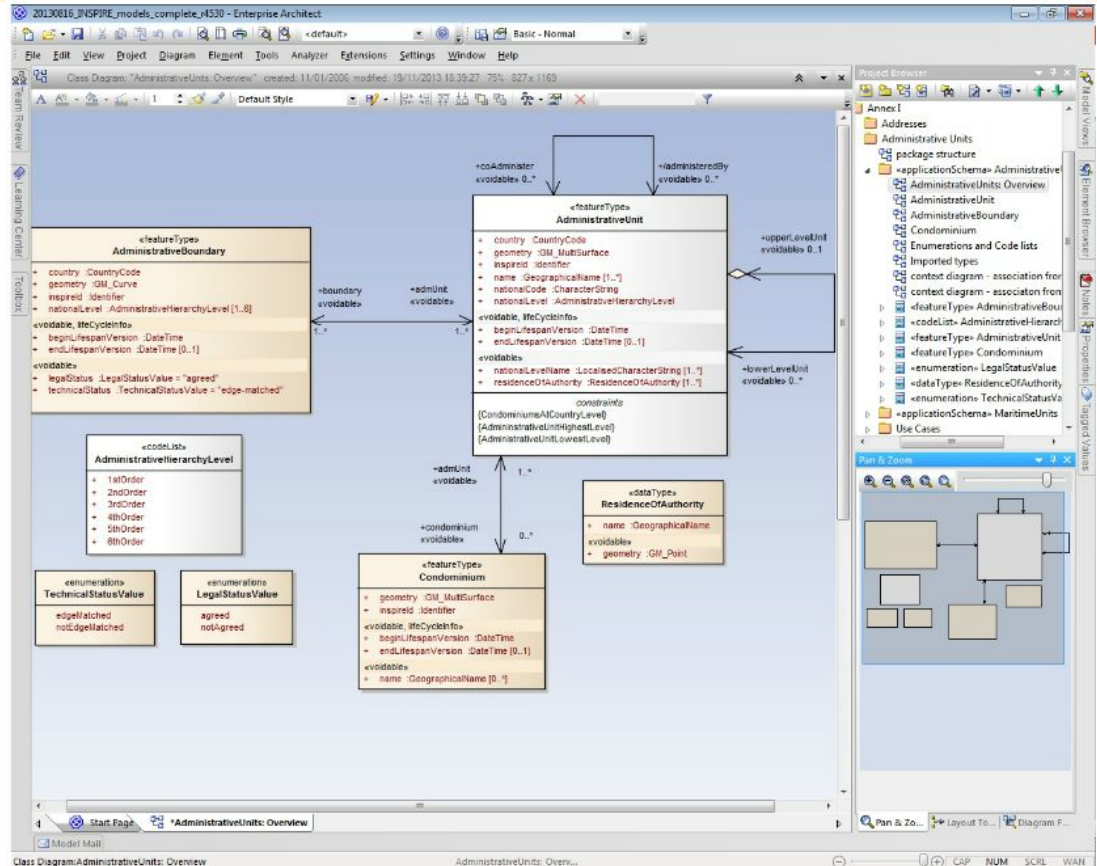


The screenshot shows a PDF document viewer window titled 'INSPIRE\_DataSpecification\_AU\_v3.1.pdf - Adobe Acrobat Pro'. The document content includes the European Commission logo, the INSPIRE logo (a globe with stars and the text 'INSPIRE - Infrastructure for Spatial Information in Europe'), and the title 'INSPIRE Infrastructure for Spatial Information in Europe'. Below this, the specific title 'D2.8.1.4 Data Specification on Administrative Units – Technical Guidelines' is displayed. A metadata table follows, listing details such as Title, Creator, Date, Subject, Publisher, Type, Description, Contributor, and Format.

<b>Title</b>	D2.8.1.2 Data Specification on <i>Administrative Units</i> – Technical Guidelines
<b>Creator</b>	INSPIRE Thematic Working Group Administrative Units
<b>Date</b>	2014-04-17
<b>Subject</b>	INSPIRE Data Specification for the spatial data theme <i>Administrative Units</i>
<b>Publisher</b>	European Commission Joint Research Centre
<b>Type</b>	Text
<b>Description</b>	This document describes the INSPIRE Data Specification for the spatial data theme <i>Administrative Units</i>
<b>Contributor</b>	Members of the INSPIRE Thematic Working Group Administrative Units
<b>Format</b>	Portable Document Format (pdf)
<b>Source</b>	

# Cieľový Údajový Model


Fragment UML modelu.



# Cieľový Údajový Model

## INSPIRE [Interactive data specification Toolkit](#).

← → ↻ [inspire-regadmin.jrc.ec.europa.eu/dataspecification/Intro.action](http://inspire-regadmin.jrc.ec.europa.eu/dataspecification/Intro.action) [About](#) | [Contact](#) | [Legal notice](#)

 **INSPIRE Interactive Data Specifications**

European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Intro

[Intro](#) [Data Specifications](#) [Find your scope](#) [Additional resources](#)

The process of building of the European Spatial Data Infrastructure based on the INSPIRE requirements and recommendations is now fully in its implementation phase. [See the official INSPIRE Roadmap](#)

This INSPIRE Interactive Data specification Toolkit offers INSPIRE data providers two new applications to support them in the implementation of the INSPIRE data specifications.

1. The application [Data Specifications](#) facilitates the reading of INSPIRE Data Specification – Technical Guidelines documents by enabling to study only selected parts of the INSPIRE technical documentation. Furthermore the selected parts can be compared with the same parts from up to 3 data themes.
2. The application [Find your scope](#) supports data providers with identification of the INSPIRE spatial data themes and spatial object types that are relevant to the dataset(s) they administer. This application is foreseen to be useful especially in situations when datasets fall under two or more INSPIRE data themes / application schemas content.

This Toolkit also provides links ([Additional resources](#)) to useful additional resources of information (e.g. INSPIRE Registry, website etc.).

Please use the [Feedback](#) button to send us any suggestions, improvements or bugs.

This application was developed in the framework of the official EU INSPIRE Maintenance and Implementation Framework (MIF) defined under work package 1 (MIWP 1) - Improve accessibility and readability of TG. MIF

The development of the Toolkit has been supported by ARE3NA, Action 1.17 of the EU ISA Programme.

<a href="#">INSPIRE Interactive Data Specifications</a>	<a href="#">INSPIRE Knowledge base</a>	<a href="#">Other</a>
<a href="#">Intro</a>	<a href="#">Home page</a>	<a href="#">About</a>
<a href="#">Data Specification</a>	<a href="#">Forum</a>	<a href="#">Contact</a>
<a href="#">Interactive Workflow</a>	<a href="#">Registry</a>	<a href="#">Legal notice</a>
<a href="#">Direct Search</a>	<a href="#">Geoportal</a>	
	<a href="#">Thematic Clusters</a>	

INSPIRE Interactive Data Specification - v1.1

# Cieľový Údajový Model

## Toolkit: porovnanie definícií a popisov tém.

inspire-regadmin.jrc.ec.europa.eu/dataspecification/DataSpecification.action

About | Contact | Legal notice

### INSPIRE Interactive Data Specifications

European Commission INSPIRE INSPIRE Interactive Data Specifications Data Specifications

Intro Data Specifications Find your scope Additional resources

The application Data Specifications facilitates the reading of INSPIRE Data Specification – Technical Guidelines documents by enabling to study only selected parts of the INSPIRE technical documentation. Furthermore the selected parts can be compared with the same parts from up to 3 data themes.

Please select one or more themes to compare

#### Annex I

- Addresses
- Administrative Units
- Coordinate reference systems
- Geographical grid systems
- Cadastral Parcels
- Geographical Names
- Hydrography
- Protected Sites
- Transport Networks

#### Annex II

- Elevation
- Geology
- Land Cover
- Orthoimagery

#### Annex III

- Agricultural and Aquaculture Facilities
- Area Management Restriction Regulation Zones and Reporting units
- Atmospheric Conditions
- Biogeographical Regions
- Buildings
- Energy Resources
- Environmental Monitoring Facilities
- Habitats and Biotopes
- Human Health and Safety
- Land Use
- Mineral Resources
- Natural Risk Zones
- Oceanographic Geographical Features
- Population Distribution - Demography
- Production and Industrial Facilities
- Sea Regions
- Soil
- Species Distribution
- Statistical Units
- Utility and Governmental Services
- Meteorological geographical features

#### Summary

Selected themes:

Compare

inspire-regadmin.jrc.ec.europa.eu/dataspecification/ThemeOverview.action?themeId1=ps&themeId2=sd

About | Contact | Legal notice

### INSPIRE Interactive Data Specifications

European Commission INSPIRE INSPIRE Interactive Data Specifications Data Specifications Theme Overview

Intro Data Specifications Find your scope Additional resources

#### Protected Sites

Label <http://inspire.ec.europa.eu/theme/ps>

**Annex I**

**Definition** Area designated or managed within a framework of international Community and Member States legislation to achieve specific conservation objectives

**Description** Area designated or managed within a framework of international Community and Member States legislation to achieve specific conservation objectives by According to IUCN and adopted for the INSPIRE context a protected site is an area of land and/or sea especially dedicated to the protection and maintenance of biological diversity and of natural and associated cultural resources and managed through legal or other effective means by Protected sites may be located in terrestrial aquatic and/or marine environments and may be under either public or private ownership They may include localities with protection targets defined by different sectors and based on different objectives especially dedicated to the conservation of nature the protection and maintenance of biological diversity and of natural and where appropriate associated cultural resources The sites may receive protection due to more than one type of objectives and may have a double or multivalent designation status Protected sites differ from environmentally founded classifications of natural or cultural objects and also from area covering designations as included in CCDA as localisation boundary and area of protected sites are based on formal legal or administrative agreements or decisions by Although all protected sites meet the general purposes contained in this definition in practice the precise purposes for which protected sites are managed differ greatly The main purposes of designation are specified in categories of CCDA 4 5 2 National designation type category and according to the typology developed in the Standard Data Form for Natura2000 under the Habitat Directive furthermore categories of IUCN for Protected Sites and other international designation types have to be applied by A new classification system of protected sites with an

#### Species Distribution

Label <http://inspire.ec.europa.eu/theme/sd>

**Annex III**

**Definition** Geographical distribution of occurrence of animal and plant species aggregated by grid region administrative unit or other analytical unit

**Description** Species Distribution is a biodiversity theme focused on geographical distribution of occurrence of biological organisms aggregated by grid region or any administrative or analytical unit Distributions may be represented in a wide range of formats such as points grid cells at different scales or polygons of specifically defined areas To achieve harmonization EU Nomencl is the preferred reference list for species taxon names to be used the second choice is European Nature Information System and finally Natura2000

#### Habitats and Biotopes

Label <http://inspire.ec.europa.eu/theme/hb>

**Annex III**

**Definition** Geographical areas characterised by specific ecological conditions processes structure and life support functions that physically support the organisms that live there Includes terrestrial and aquatic areas distinguished by geographical abiotic and biotic features whether entirely natural or semi natural

**Description** Habitats and Biotopes is a biodiversity theme that deals with habitats and biotopes as areas and their distinct boundaries Spatial data model provides characterization of geographical areas being functional for living organisms biotopes being the spatial environment of a biotic community habitats being the spatial environment of specific species To achieve harmonization on local national and international level habitat types should refer to the European Nature Information System habitat classification in the first place but could also use Habitats Directive 92 43 EEC and Marine Strategy Framework Directive 2008 56 EC as a reference

#### RECENT

Theme Overview

Executive Summary

Detailed description

Data content and structure

Data quality

Metadata

Delivery

Data capture

Podrtyal

Abstract Test Suite

Use cases

Code list values

Additional information

#### MULTI-THEME

Theme 1

Prote

Theme 2

Speci

Theme 3

Habit

Compare

# Cieľový Údajový Model

## Toolkit: Výber relevantných častí UML modelu

The screenshot shows the 'INSPIRE Interactive Data Specifications' web application. The breadcrumb trail is: European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope > Interactive Workflow > Application schema. The navigation menu includes: Intro, Data Specifications, Find your scope, and Additional resources. The progress bar shows: 1 Theme, 2 Application schema (active), 3 Pre-selection, 4 Selection refinement, 5 Selected objects, 6 Print your objects. The main content area says 'Please select one or more application schema.' and 'Application schemas for Theme Protected Sites'. A checkbox for 'Protected Sites Simple' is checked. A button 'Data Specification - Protected Sites' is visible. A 'Summary' sidebar on the right lists 'Selected themes: 1. Protected Sites' and 'Selected application schemas: 1. Protected Sites Simple'. A 'Next' button is at the bottom.

The screenshot shows the 'INSPIRE Interactive Data Specifications' web application at the 'Pre-selection' step. The breadcrumb trail is: European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope > Interactive Workflow > Pre-selection. The navigation menu includes: Intro, Data Specifications, Find your scope, and Additional resources. The progress bar shows: 1 Theme, 2 Application schema, 3 Pre-selection (active), 4 Selection refinement, 5 Selected objects, 6 Print your objects. The main content area is titled 'Application schema - Protected Sites Simple'. It has two columns: 'Objects' and 'UML overview'. Under 'Objects', there is a section 'Spatial object type' with a radio button for 'ProtectedSite' and a description: 'An area designated or managed within a framework of international, Community and Member States' legislation to achieve specific conservation objectives.' Below it is a section 'Data type' with a radio button for 'DesignationType' and a description: 'A data type designed to contain a designation for the Protected Site, including the designation scheme used and the value within that scheme.' The 'UML overview' section shows a UML class diagram. A 'Summary' sidebar on the right lists 'Selected themes: 1. Protected Sites' and 'Selected application schemas: 1. Protected Sites Simple'. A 'Preselected objects:' section is empty. A 'Next' button is at the bottom.



# Cieľový Údajový Model

## Toolkit: Výber relevantných častí UML modelu

The screenshot shows the 'ProtectedSite - Spatial object type' page in the INSPIRE Interactive Data Specifications toolkit. The page is divided into several sections:

- Navigation:** A breadcrumb trail at the top reads: Europe's Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope > Interactive Workflow > Selection refinement.
- Workflow:** A horizontal navigation bar shows the current step as 'Selection refinement', with other steps being Theme, Application schema, Pre-selection, Selected objects, and Print your objects.
- Definition:** A text block explaining that a protected site is an area designated or managed within a framework of international, Community and Member States' legislation to achieve specific conservation objectives.
- Description:** A text block explaining that each protected site has a boundary defined through formal, legal or administrative agreements or decisions. The establishment of a protected site is normally undertaken by legislation and thus given weight in decisions about land use change and spatial planning.
- INSPIRE Data Theme:** A list containing 'Protected Sites - [INSPIRE Data Theme Protected sites]'. The 'Protected Sites Simple' application schema is selected.
- Attributes:** A list of attributes for the ProtectedSite object type, including geometry, inspireID, legalFoundationDate, legalFoundationDocument, siteDesignation, siteName, and siteProtectionClassification.
- Summary:** A sidebar on the right containing a 'Selected themes:' section with 'Protected Sites', a 'Selected application schemas:' section with 'Protected Sites Simple', a 'Preselected objects:' section with 'ProtectedSite', and a 'Selected objects:' section with 'ProtectedSite'. A 'Next' button is located at the bottom of this sidebar.

The screenshot shows the 'Print your objects' page in the INSPIRE Interactive Data Specifications toolkit. The page is divided into several sections:

- Navigation:** A breadcrumb trail at the top reads: Europe's Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope > Interactive Workflow > Print your objects.
- Workflow:** A horizontal navigation bar shows the current step as 'Print your objects', with other steps being Theme, Application schema, Pre-selection, Selection refinement, and Selected objects.
- Instructions:** A text block stating: 'Please choose to print the format that you like. The document contains all the favorite objects selected in the previous steps.'
- Download PDF:** A button with a PDF icon and the text 'Download PDF' and 'Download your favorite objects in PDF format.' Below it is a 'Download' button.
- Download DOCX:** A button with a DOCX icon and the text 'Download DOCX' and 'Download your favorite objects in DOCX format.' Below it is a 'Download' button.
- Summary:** A sidebar on the right containing a 'Selected themes:' section with 'Protected Sites', a 'Selected application schemas:' section with 'Protected Sites Simple', a 'Preselected objects:' section with 'ProtectedSite', and a 'Selected objects:' section with 'ProtectedSite'.

# Cieľový Údajový Model

Toolkit: Vyhľadávanie cez témy, aplikačné schémy a typy objektov

The screenshot shows the search interface for INSPIRE Interactive Data Specifications. At the top, there is a navigation bar with the European Commission logo and the text "INSPIRE Interactive Data Specifications". Below this, a breadcrumb trail reads "European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope > Direct Search > Search by object". A secondary navigation bar contains buttons for "Intro", "Data Specifications", "Find your scope", and "Additional resources". A progress indicator shows five steps: "Search by object" (active), "Pre-selection", "Selection refinement", "Selected objects", and "Print your objects". Below the progress bar, a paragraph states: "The search engine looks in the labels, definitions and descriptions of existing INSPIRE objects. INSPIRE object categories:  Object types  Application schemas  INSPIRE Data Themes". At the bottom, a search input field contains the text "Waterf" and a blue "Search" button.

The screenshot displays the search results page. At the top right, there are links for "About | Contact | Legal notice". The main header includes the European Commission logo and the text "INSPIRE Interactive Data Specifications". A breadcrumb trail reads "European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope > Direct Search > Pre-selection". A secondary navigation bar contains buttons for "Intro", "Data Specifications", "Find your scope", and "Additional resources". A progress indicator shows five steps: "Search by object", "Pre-selection" (active), "Selection refinement", "Selected objects", and "Print your objects". Below the progress bar, there is a "Show 10 entries" dropdown and a "Search:" input field. A table titled "Pre-select objects" lists search results with columns for "Pre-select objects" and "Relevance". The table contains the following entries:

Pre-select objects	Relevance
<input checked="" type="checkbox"/> <b>InlandWaterway</b> - Spatial object type <i>Waterway which is defined at inland continental waters.</i>	A
<input type="checkbox"/> <b>RestrictionForWaterVehicles</b> - Spatial object type <i>Restriction on vehicles on a water transport element.</i>	A
<input type="checkbox"/> <b>Waterway</b> - Spatial object type <i>A collection of water link sequences and/or individual waterway and/or watercourse links (as necessary) that are characterized by one or more thematic identifiers and/or properties, which perform a navigable route within a water body (oceans, seas, rivers, lakes, channels or canals).</i>	A
<input type="checkbox"/> <b>WaterTrafficFlowDirection</b> - Spatial object type <i>Indicates the direction of the flow of water transport traffic in relation to the direction of the water transport link vector.</i>	A
<input type="checkbox"/> <b>StandingWater</b> - Spatial object type <i>A body of water that is entirely surrounded by land.</i>	A
<input type="checkbox"/> <b>MarineWaterway</b> - Spatial object type	

On the right side, there is a "Summary" panel with "Searched text: Water" and a "Relevance categories" button. Below that, "Preselected objects:" lists "1. InlandWaterway" and a "Next" button.

# Cieľový Údajový Model

Toolkit: Vyhľadávanie cez témy, aplikačné schémy a typy objektov

About | Contact | Legal notice

European Commission

## INSPIRE Interactive Data Specifications

European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope > Direct Search > Selection refinement

Intro Data Specifications Find your scope Additional resources

Search by object Pre-selection Selection refinement Selected objects Print your objects

### InlandWaterway - Spatial object type

**Definition:** Waterway which is defined as inland continental waters.

**Description:** EXAMPLE The inland waterways classified by the CEMT (European Conference of Ministers of Transport).

**INSPIRE Data Theme:** Transport Networks - [INSPIRE Data Theme Transport Networks]

**INSPIRE Application schema:** Water Transport Network - [INSPIRE Application schema Water Transport Network]

**Supertype of:** InlandWaterway

**Subtype of:** Waterway

**Attributes**

- validFrom - from TransportLinkSet
- validTo - from TransportLinkSet
- beginLifespanVersion - from NetworkElement
- inspireId - from NetworkElement
- endLifespanVersion - from NetworkElement
- geographicalName - from TransportObject

Select

About | Contact | Legal notice

European Commission

## INSPIRE Interactive Data Specifications

European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope > Direct Search > Print your objects

Intro Data Specifications Find your scope Additional resources

Search by object Pre-selection Selection refinement Selected objects Print your objects

Please choose to download the format that you like. The document contains all the favorite objects selected in the previous steps.

**Download PDF**

Download your favorite objects in PDF format.

Download

**Download DOCX**

Download your favorite objects in DOCX format.

Download

**Summary**

Searched text:  
Water

**Preselected objects:**

- InlandWaterway

**Selected objects:**

- InlandWaterway

Next

# Cieľový Údajový Model

Toolkit: Ďalšie zdroje informácií

[About](#) | [Contact](#) | [Legal notice](#)



## INSPIRE Interactive Data Specifications

[European Commission](#) > [INSPIRE](#) > [INSPIRE Interactive Data Specifications](#) > [Additional information](#)

[Intro](#) [Data Specifications](#) [Find your scope](#) [Additional resources](#)

Useful resources related to the identification of the INSPIRE data scope

[INSPIRE legal acts](#)

The INSPIRE Directive itself and the Implementing Rules (IR), which include the definitions of the elements of spatial data themes. [See more...](#)

[Data Specification](#)

The Chapter 5 (Data Content and Structure) of the Data Specifications - Technical Guidelines documents is particularly relevant for the [Find your scope](#) user implementation task. It describes all necessary information on the application schema(s) of a given spatial data theme by specifying requirements on the properties of each object.

The Chapter 5 also provides a narrative overview of the application schemas content as well as **UML diagrams**, which offer a rapid way to view objects of the data theme and their relationships.

The **Feature Catalogue** represents another way of presenting the data content and therefore includes definitions and descriptions of all spatial object types and data types including their attributes, code lists as well as relationships and constraints. [See more...](#)



### INSPIRE

In Europe a major recent development has been the entering in force of the INSPIRE Directive in May 2007, establishing an infrastructure for spatial information in Europe to support Community environmental policies, and policies or activities which may have an impact on the...

[See more ...](#)



### INSPIRE Forum

The INSPIRE Forum is a space for the exchange of information, best practice, news, opinions on issues relating to INSPIRE among professionals working in different countries and thematic areas. It can also be seen as a learning space where INSPIRE users can download tutorials, workshops, presentations ...

[See more ...](#)

### INSPIRE Registry

#### INSPIRE Registry

The INSPIRE Registry provides a central access point to a number of centrally managed INSPIRE registers. The content of these registers are based on the INSPIRE Directive, Implementing Rules and Data Specifications. The INSPIRE registry includes ...

[See more ...](#)

### INSPIRE GeoPortal

#### INSPIRE Geoportal

The INSPIRE geoportal provides the means to search for spatial data sets and spatial data services, and subject to access restrictions, to view spatial data sets from the EU Member States within the framework of the INSPIRE Directive.

[See more ...](#)

### INSPIRE Thematic Clusters

#### INSPIRE Thematic Clusters

The INSPIRE Thematic Clusters Platform is a European Commission initiative, linked to the INSPIRE Maintenance and Implementation Framework, with the objective of supporting INSPIRE ...

[See more ...](#)

# Mapovacie tabuľky

- Cieľový údajový model
- Mapovacie tabuľky
- Časté mapovacie problémy

# Cieľový Údajový Model

## INSPIRE Mapovacie tabuľky.

The screenshot shows the INSPIRE website's 'Data Specifications' page. The page title is 'INSPIRE Infrastructure for Spatial Information in the European Community'. The main navigation bar includes 'Legislation', 'Who', 'Consultations', 'Testing', 'Roadmap', 'Library', 'News', 'Themes', and 'Data Models'. The 'Data Models' section is active, displaying a table of data specifications. The table has columns for Revision, Corresponding TG and IRs, Status, Feature catalogue, HTML view, Mapping Tables, EA project / XMI, SVN, and GML & code lists. The first row, for revision 4618, is highlighted, and the 'Mapping Tables' link is circled in red. Below the table, there are sections for 'Show older versions' and 'HEADLINES'.

Revision	Corresponding TG and IRs	Status	Feature catalogue	HTML view	Mapping Tables	EA project / XMI	SVN	GML & code lists
4618	<b>This version corresponds to the content of the Implementing Rules (EU) No 1089/2010, No 102/2011, No 1253/2013 and the latest publicly available version of the data specifications of Annex I, II+III.</b>	APPROVED	FC	HTML	<b>Mapping Tables</b>	EA / XMI	SVN	Schema repository
	This distribution contains only those data models that are contained in the amendment to the Implementing Rules for Annex II+III themes, including the updates of the Annex I data themes.							
	This distribution combines the data models contained in the amendment to the implementing Rules (see above) and the extended data models contained in the data specification Technical guidelines (but not in the IRs). Please note that the extended data models not included in the IRs should be considered as draft and therefore be used with caution.	APPROVED (IR models) DRAFT (extended models)	FC	HTML	Mapping Tables	EA / XMI	SVN	Schema repository (extended models)

# Cieľový Údajový Model

## INSPIRE Mapovacie tabuľky

(Pozn. Po stiahnutí je potrebné ich manuálne otvoriť v tabuľkovom editore (napr. Ms Excell).

← → ↻ [inspire.ec.europa.eu/data-model/approved/r4618-ir/mapping/](http://inspire.ec.europa.eu/data-model/approved/r4618-ir/mapping/)

## Index of /data-model/approved/r4618-ir/mapping

<a href="#">Name</a>	<a href="#">Last modified</a>	<a href="#">Size</a>	<a href="#">Description</a>
 <a href="#">Parent Directory</a>		-	
 <a href="#">Activity Complex Map.&gt;</a>	2014-04-04 16:36	46K	
 <a href="#">Addresses Mapping Ta.&gt;</a>	2014-04-17 13:05	117K	
 <a href="#">AdministrativeAndSoc.&gt;</a>	2014-04-04 16:36	24K	
 <a href="#">AdministrativeUnits.&gt;</a>	2013-10-28 09:36	39K	
 <a href="#">Agricultural and Aqu.&gt;</a>	2014-04-04 16:36	26K	
 <a href="#">Air Transport Networ.&gt;</a>	2013-10-28 13:35	238K	
 <a href="#">Area Management Rest.&gt;</a>	2014-04-04 16:36	23K	
 <a href="#">Atmospheric Conditio.&gt;</a>	2014-04-04 16:36	7.6K	
 <a href="#">Base Types 2 Mapping.&gt;</a>	2014-04-04 16:36	42K	
 <a href="#">Base Types Mapping T.&gt;</a>	2014-04-04 16:36	15K	
 <a href="#">Bio-geographical Regi.&gt;</a>	2014-04-04 16:36	15K	
 <a href="#">Buildings3D Mapping.&gt;</a>	2014-04-02 19:28	75K	
 <a href="#">BuildingsBase Mappin.&gt;</a>	2014-04-04 16:36	30K	
 <a href="#">Cable Transport Netw.&gt;</a>	2013-10-28 13:46	41K	
 <a href="#">CadastralParcels Map.&gt;</a>	2013-10-28 10:01	48K	
 <a href="#">Common Transport Ele.&gt;</a>	2013-10-28 14:16	68K	
 <a href="#">Common Utility Netwo.&gt;</a>	2014-04-04 16:36	116K	
 <a href="#">Controlled Activitie.&gt;</a>	2014-04-02 19:28	39K	
 <a href="#">Coverages (Base) Map.&gt;</a>	2014-04-04 16:36	7.6K	
 <a href="#">Coverages (Geometry.&gt;</a>	2014-04-04 16:36	19K	
 <a href="#">Electricity Network.&gt;</a>	2014-04-04 16:36	21K	
 <a href="#">ElevationBaseTypes M.&gt;</a>	2014-04-04 16:36	7.6K	
 <a href="#">ElevationGridCoverag.&gt;</a>	2014-04-04 16:36	21K	
 <a href="#">ElevationTTN Mapping.&gt;</a>	2014-04-02 19:28	14K	

# Cieľový Údajový Model

INSPIRE Mapovacie tabuľky Téma “Správne jednotky” Komplexný dátový typ

Application Schema "Administratívne" (version 3.0)							Application Schema "oproti"				
Type	Documentation	Attribute / Access	Attribute / Association role	Value / Documentation	Multiplicity	Minimum / Max. Value	Type	Documentation	Attribute / Access	Attribute / Association role	Value
Administratívny územný útvar		beginLifeSpanYear	Role: beginLifeSpanYear	Date Time	1	required					
		country	Role: country	String	1	required					
		endLifeSpanYear	Role: endLifeSpanYear	Date Time	1	required					
		geometry	Role: geometry	gml:MultiPolygon	1	required					
		inapplied	Role: inapplied	Boolean	1	required					
		legalStatus	Role: legalStatus	String	1	required					
		nationalLevel	Role: nationalLevel	Boolean	1	required					
		technicalStatus	Role: technicalStatus	String	1	required					
		adminId	Role: adminId	String	1	required					
		adminName	Role: adminName	String	1	required					
Administratívny územný útvar		beginLifeSpanYear	Role: beginLifeSpanYear	Date Time	1	required					
		country	Role: country	String	1	required					
		endLifeSpanYear	Role: endLifeSpanYear	Date Time	1	required					
		geometry	Role: geometry	gml:MultiPolygon	1	required					
		inapplied	Role: inapplied	Boolean	1	required					
		nationalLevel	Role: nationalLevel	Boolean	1	required					
		technicalStatus	Role: technicalStatus	String	1	required					
		adminId	Role: adminId	String	1	required					
		adminName	Role: adminName	String	1	required					
		adminType	Role: adminType	String	1	required					
		adminLevel	Role: adminLevel	String	1	required					
		adminCode	Role: adminCode	String	1	required					
		adminParent	Role: adminParent	String	1	required					
		adminChild	Role: adminChild	String	1	required					
Residence District		name	Role: name	String	1	required					
		geometry	Role: geometry	gml:MultiPolygon	1	required					
		beginLifeSpanYear	Role: beginLifeSpanYear	Date Time	1	required					
		endLifeSpanYear	Role: endLifeSpanYear	Date Time	1	required					
		geometry	Role: geometry	gml:MultiPolygon	1	required					
		inapplied	Role: inapplied	Boolean	1	required					
		nationalLevel	Role: nationalLevel	Boolean	1	required					
		technicalStatus	Role: technicalStatus	String	1	required					
		adminId	Role: adminId	String	1	required					
		adminName	Role: adminName	String	1	required					
Condominium		beginLifeSpanYear	Role: beginLifeSpanYear	Date Time	1	required					
		endLifeSpanYear	Role: endLifeSpanYear	Date Time	1	required					
		geometry	Role: geometry	gml:MultiPolygon	1	required					
		inapplied	Role: inapplied	Boolean	1	required					
		nationalLevel	Role: nationalLevel	Boolean	1	required					
		technicalStatus	Role: technicalStatus	String	1	required					
		adminId	Role: adminId	String	1	required					
		adminName	Role: adminName	String	1	required					
		adminType	Role: adminType	String	1	required					
		adminLevel	Role: adminLevel	String	1	required					

Ľavá strana:  
Vybraná aplikačná schéma danej INSPIRE témy

Pravá strana:  
Priestor pre mapovanie zdrojového údajového modelu/štruktúry údajov



# Ciel'ový Údajový Model

## INSPIRE Mapovacie tabuľky Téma "Správne jednotky" Komplexný dátový typ

Type	Documentation	Attribute / Association role	Value / Enumeration	Multiplicity	Voidable / Non-Voidable	
Administrative boundary	- Name - administrative boundary A line of demarcation between administrative units.	beginLifespanVers country endLifespanVers	- Name - begin - Name - country - Name - end lifespan	DateTime CountryCode* BE* DateTime	1 1 0..1	voidable voidable voidable
Administrative boundary	- Name - inspire id External object identifier of the spatial object. NOTE An external object identifier is a unique object identifier published by the responsible body, which may be used by external applications to reference the spatial object. The identifier is an identifier of the spatial object, not an identifier of the real-world phenomenon.	inspireId	- Name - inspire id External object identifier of the spatial object. NOTE An external object identifier is a unique object identifier published by the responsible body, which may be used by external applications to reference the spatial object. The identifier is an identifier of the spatial object, not an identifier of the real-world phenomenon.	Identifier	1	
Administrative boundary	- Name - legal status	legalStatus	- Name - legal status	LegalStatusValue*	1	voidable

# Cieľový Údajový Model

INSPIRE Mapovacie tabuľky Téma “Správne jednotky” Komplexný dátový typ

	A	B	C	D	E	F	G	H	I
1	Application Schema 'Base Types' (version 3.3)								
	Type	Documentation	Attribute Association role Constraint	Attribute / Association role / Constraint documentation	Values / Enumerations	Multiplicity	Voidable / Non-Voidable		Type
2	Identifier	External unique object identifier published by the responsible body, which may be used by external applications to reference the spatial object. NOTE4 External							
3			localId	A local identifier, assigned by the data provider. The	CharacterString	1			
4			namespace	Namespace uniquely identifying the data source	CharacterString	1			
5			versionId	The identifier of the particular version of the	CharacterString	0..1	voidable		
6									
7	SpatialDataSet	Identifiable collection of spatial data. NOTE The type SpatialDataSet is offered as a pre-defined type for spatial data sets.							
8			identifier	Identifier of the spatial data set	Identifier	1			
9			metadata	Metadata of the spatial data set	MD_Metadata	1	voidable		
10									



# Ciel'ový Údajový Model

INSPIRE Mapovacie tabuľky Téma "Správne jednotky" Doplnenie o relevantné obmedzenia

Application Schema 'AdministrativeUnits' (version 3.0)										Source Location of information								
Element Type / Data Type	Element or Data Type	Attribute Name / Code	Attribute Name / Code	Value Type / Code	Value Type / Code	Value Type / Code	Data Type / Code	Data Type / Code	Data Type / Code	Data Type / Code	File name / URL	Name of attribute	Example of use data source value	Example of use data target value	Used Classes	Remarks		
AdministrativeUnits	Name -- administrative unit. List of administrative units where a Member State has either territorial, jurisdictional, or local regional and national governance.	country	Name -- country	CountryCode ISO 3166-1	String	CountryCode ISO 3166-1	CountryCode ISO 3166-1	CountryCode ISO 3166-1	CountryCode ISO 3166-1	CountryCode ISO 3166-1								
		countryVersion	Name -- and	OpenFlow	OpenFlow	OpenFlow	OpenFlow	OpenFlow	OpenFlow	OpenFlow	OpenFlow							
		geometry	Name -- geometry	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	country.shp	shape					
		geometryId	Name -- geometry	Identifier	Identifier	Identifier	Identifier	Identifier	Identifier	Identifier	Identifier	country.shp	geo_name	FR62	FR62			
		name	Name -- name	GeographicalName	GeographicalName	GeographicalName	GeographicalName	GeographicalName	GeographicalName	GeographicalName	GeographicalName							
		nationalCode	Name -- national code	CharacterString	CharacterString	CharacterString	CharacterString	CharacterString	CharacterString	CharacterString	CharacterString							
		nationalLevel	Name -- national level. Level in the national administration hierarchy, at which the administrative unit is administered.	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165							
		nationalLevelName	Name -- national level	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165							
		residenceOfAuthority	Name -- residence	PersonName	PersonName	PersonName	PersonName	PersonName	PersonName	PersonName	PersonName							
		territory	Name -- territory	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165							
		territoryVersion	Name -- and	OpenFlow	OpenFlow	OpenFlow	OpenFlow	OpenFlow	OpenFlow	OpenFlow	OpenFlow							
		geometry	Name -- geometry	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	country.shp	shape					
		geometryId	Name -- geometry	Identifier	Identifier	Identifier	Identifier	Identifier	Identifier	Identifier	Identifier	country.shp	geo_name	FR62	FR62			
		nationalLevel	Name -- national level. Level in the national administration hierarchy, at which the administrative unit is administered.	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165							
		nationalLevelName	Name -- national level	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165							
		AdministrativeUnits	Name -- administrative boundary. A list of delineation between administrative units.	country	Name -- country	CountryCode ISO 3166-1	String	CountryCode ISO 3166-1	CountryCode ISO 3166-1	CountryCode ISO 3166-1	CountryCode ISO 3166-1	CountryCode ISO 3166-1						
countryVersion	Name -- and			OpenFlow	OpenFlow	OpenFlow	OpenFlow	OpenFlow	OpenFlow	OpenFlow								
geometry	Name -- geometry			GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	country.shp	shape					
geometryId	Name -- geometry			Identifier	Identifier	Identifier	Identifier	Identifier	Identifier	Identifier	Identifier	country.shp	geo_name	FR62	FR62			
name	Name -- name			GeographicalName	GeographicalName	GeographicalName	GeographicalName	GeographicalName	GeographicalName	GeographicalName	GeographicalName							
nationalCode	Name -- national code			CharacterString	CharacterString	CharacterString	CharacterString	CharacterString	CharacterString	CharacterString	CharacterString							
nationalLevel	Name -- national level. Level in the national administration hierarchy, at which the administrative unit is administered.			AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165							
nationalLevelName	Name -- national level			LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165							
residenceOfAuthority	Name -- residence			PersonName	PersonName	PersonName	PersonName	PersonName	PersonName	PersonName	PersonName							
territory	Name -- territory			AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165							
territoryVersion	Name -- and			OpenFlow	OpenFlow	OpenFlow	OpenFlow	OpenFlow	OpenFlow	OpenFlow	OpenFlow							
geometry	Name -- geometry			GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	GM_MultiSurface	country.shp	shape					
geometryId	Name -- geometry			Identifier	Identifier	Identifier	Identifier	Identifier	Identifier	Identifier	Identifier	country.shp	geo_name	FR62	FR62			
nationalLevel	Name -- national level. Level in the national administration hierarchy, at which the administrative unit is administered.			AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165	AdministrativeLevelCode ISO 3165							
nationalLevelName	Name -- national level			LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165	LocalAdministrativeLevelCode ISO 3165							

<b>administeredBy</b>	-- Name -- administered by <i>AdministrativeUnits</i> with <i>administered by</i>	Adminis
<b>coAdminister</b>	-- Name -- co administer <i>AdministrativeUnits</i> with <i>co administer</i>	Adminis
<b>CondominiumsAtCountryLevel</b>	Association role condominium applies only for administrative units which nationalLevel is '1st order' (country level).	
<b>AdministrativeUnitHighestLevel</b>	No unit at highest level can associate units at a higher level.	
<b>AdministrativeUnitLowestLevel</b>	No unit at lowest level can associate units at lower level.	

# Ciel'ový Údajový Model

INSPIRE Mapovacie tabuľky: Možnosti úpravy pravej strany podľa potrieb

Application Schema 'AdministrativeUnits' (version 3.0)											Source Location of Information										
Feature Type / Data Type	Element or Role	Attribute / Association Role	Association Role	Attribute / Association Role	Data Type / Code List	Multiplicity	Units / Note	Data Type / Attribute	Data Type / Attribute	Data Type / Code List	Multiplicity	Units / Note	'File name' or URL	Notes of attribute	Example of use data source value	Example of use data target value	Field Name	Remarks			
AdministrativeUnit	Name - administrative unit, Unit of administration where a Member State has an administrative unit, regional and national government	name	AdministrativeUnit	AdministrativeUnit	String	1															
		beginOfAdministrativeUnit	AdministrativeUnit	AdministrativeUnit	DateTime	1	optional														
		endOfAdministrativeUnit	AdministrativeUnit	AdministrativeUnit	DateTime	1	optional														
		geometry	AdministrativeUnit	AdministrativeUnit	gml:MultiSurface	1	optional														
		regionId	AdministrativeUnit	AdministrativeUnit	String	1	optional		required	Area	CharacterString	1	optional								
		name	AdministrativeUnit	AdministrativeUnit	String	1	optional			required	String	CharacterString	1	optional							
		nationalCode	AdministrativeUnit	AdministrativeUnit	String	1	optional				String	CharacterString	1	optional							
		nationalCode	AdministrativeUnit	AdministrativeUnit	String	1	optional				String	CharacterString	1	optional							
		nationalCode	AdministrativeUnit	AdministrativeUnit	String	1	optional				String	CharacterString	1	optional							
		nationalCode	AdministrativeUnit	AdministrativeUnit	String	1	optional				String	CharacterString	1	optional							
		nationalCode	AdministrativeUnit	AdministrativeUnit	String	1	optional				String	CharacterString	1	optional							
		nationalCode	AdministrativeUnit	AdministrativeUnit	String	1	optional				String	CharacterString	1	optional							
		nationalCode	AdministrativeUnit	AdministrativeUnit	String	1	optional				String	CharacterString	1	optional							
		nationalCode	AdministrativeUnit	AdministrativeUnit	String	1	optional				String	CharacterString	1	optional							
		nationalCode	AdministrativeUnit	AdministrativeUnit	String	1	optional				String	CharacterString	1	optional							
		AdministrativeUnit	Name - administrative boundary, A line of demarcation between administrative units.	name	AdministrativeUnit	AdministrativeUnit	String	1													
				beginOfAdministrativeUnit	AdministrativeUnit	AdministrativeUnit	DateTime	1	optional												
endOfAdministrativeUnit	AdministrativeUnit			AdministrativeUnit	DateTime	1	optional														
geometry	AdministrativeUnit			AdministrativeUnit	gml:Curve	1	optional														
regionId	AdministrativeUnit			AdministrativeUnit	String	1	optional		required	Area	CharacterString	1	optional								
name	AdministrativeUnit			AdministrativeUnit	String	1	optional			required	String	CharacterString	1	optional							
nationalCode	AdministrativeUnit			AdministrativeUnit	String	1	optional				String	CharacterString	1	optional							
nationalCode	AdministrativeUnit			AdministrativeUnit	String	1	optional				String	CharacterString	1	optional							
nationalCode	AdministrativeUnit			AdministrativeUnit	String	1	optional				String	CharacterString	1	optional							
nationalCode	AdministrativeUnit			AdministrativeUnit	String	1	optional				String	CharacterString	1	optional							
AdministrativeUnit	Name - administrative boundary, An administrative	name	AdministrativeUnit	AdministrativeUnit	String	1															
		beginOfAdministrativeUnit	AdministrativeUnit	AdministrativeUnit	DateTime	1	optional														

# Ciel'ový Údajový Model

INSPIRE Mapovacie tabuľky: Možnosti úpravy pravej strany podľa potrieb

Application Schema 'AdministrativeUnits' (version 3.0)											Source Location of information					
From name / Data Type	Conceptual name	Attribute / Account code / Associated name	Attribute / Administrative code / Associated name	Data Type / Values / Code / Associated name	Workable / Data Type / Values / Code / Associated name	Data Type / Attribute	Data Type / Values / Code / Associated name	Workable / Data Type / Values / Code / Associated name	"File name" or URL	Number of attributes	Example of use data source	Example of use data source	Valid / Element	Remarks		
Administrative units	Name - administrative unit. Unit of administration where a Member State has either economic, jurisdictional, rights, technical, regional and national governance	country	Name - country	CountryCode ISO 3166-1	available											
		beginOfPeriod	Name - begin	DateTime	available											
		endOfPeriod	Name - end	DateTime	0,1 available											
		geometry	Name - geometry	GM_MultiSurface	1	available				com2007.gpkg	shape					
		regionid	Name - regionid	Identifier	1	available	See table	if local identifier	CharacterString	1	com2007.gpkg	reg_id	NAES	NAES		
		externalid	External object identifier of the spatial object NOTE: An	CharacterString	1	available	See table	if local identifier	CharacterString	1	com2007.gpkg	ext_id	NAES	NAES		
		name	Name - name	Designation of name	1	available										
		nationalCode	Name - national	CharacterString	1	available					com2007.gpkg	reg_nam	NAES	NAES		
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
Administrative units	Name - administrative boundary. A line of demarcation between administrative units.	beginOfPeriod	Name - begin	DateTime	available											
		country	Name - country	CountryCode ISO 3166-1	available											
		endOfPeriod	Name - end	DateTime	0,1 available											
		geometry	Name - geometry	GM_Curve	1	available				com2007.gpkg	shape					
		regionid	Name - regionid	Identifier	1	available	See table	if local identifier	CharacterString	1	com2007.gpkg	reg_id	NAES	NAES		
		externalid	External object identifier of the spatial object NOTE: An	CharacterString	1	available	See table	if local identifier	CharacterString	1	com2007.gpkg	ext_id	NAES	NAES		
		name	Name - name	Designation of name	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
Administrative units	Name - administrative boundary. A line of demarcation between administrative units.	beginOfPeriod	Name - begin	DateTime	available											
		country	Name - country	CountryCode ISO 3166-1	available											
		endOfPeriod	Name - end	DateTime	0,1 available											
		geometry	Name - geometry	GM_MultiSurface	1	available				com2007.gpkg	shape					
		regionid	Name - regionid	Identifier	1	available	See table	if local identifier	CharacterString	1	com2007.gpkg	reg_id	NAES	NAES		
		externalid	External object identifier of the spatial object NOTE: An	CharacterString	1	available	See table	if local identifier	CharacterString	1	com2007.gpkg	ext_id	NAES	NAES		
		name	Name - name	Designation of name	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										
		nationalCode	Name - national	CharacterString	1	available										

# Cieľový Údajový Model

INSPIRE Mapovacie tabuľky: Možnosti úpravy pravej strany podľa potrieb.

Ukážka [mapovania doménového výmenného modelu](#)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Q	R					
	Type	Documentation	Attribute Association role Constraint	Attribute / Association role / Constraint	Values / Enumerations	Multiplicity	Voidable / Non-Voidable		Type	Documentation	Prvky obsahujúce atribút	Attribute Association role Constraint	Attribute / Association role / Constraint	Values / Enumerations	Multiplicity	Status	Remarks					
2	AdministrativeBoundary	-- Name -- administrative boundary A line of demarcation between administrative units.							Administratívna a územná hranica (Fa000)	Línia ohraničujúca administratívnu jednotku, územnú, alebo štátnu hranicu	Prvky obsahujúce atribút											
3			beginLifespanVersion	-- Name -- begin	DateTime	1	voidable												Not available			
4			country	-- Name --	CountryCode*	1														Not available		
5			endLifespanVersion	-- Name -- end	DateTime	0..1	voidable														Not available	
6			geometry	-- Name --	GM_Curve	1								Fa000	geometry	Geometria triedy	GM_Curve	1	1..1	zhoda		
7			inspireId	-- Name --	Identifier	1															Not available	
8			legalStatus	-- Name -- legal	LegalStatusValue	1	voidable															
9			nationalLevel	-- Name --	AdministrativeHierarchy	1..8									Fa000	use	Využitie - účel.	Use	1..7	Easy	sú potrebné len	
10			technicalStatus	-- Name --	TechnicalStatusValue	1	voidable								Fa000	exs	Aktuálny stav	Exs	1	Difficult	V INSPIRE je	
11	admUnit	-- Name -- adm	AdministrativeUnit	1..*	voidable						Fa000	admJed	Správna	Administratívna	1..*	Not available	Táto asociácia					
12																						

# Časté problémy pri mapovaní

Mapovacie problémy	Možné riešenia
Korešpondujúca zdrojová hodnota pre INSPIRE povinný atribút chýba	<ul style="list-style-type: none"><li>• Ak je chýbajúca hodnota spoločne pre všetky priestorové objekty, je možné ju doplniť ako konštantu počas transformačného procesu</li><li>• Alternatívne môže byť chýbajúca hodnota doplnená do zdrojovej sady údajov pre každý priestorový objekt</li></ul>
Zdrojový zoznam kódov (číselník) je odlišný od cieľového INSPIRE číselníka	<ul style="list-style-type: none"><li>• Konverzia hodnôt môže byť realizovaná počas transformačného procesu, pokiaľ to transformačný nástroj umožňuje</li><li>• Prípadne je potrebné realizovať konverziu hodnôt v zdrojovej sade údajov</li></ul>

## Ďalšie príklady aspektov súvisiacich s transformáciou:

1. Procedures for Data and Metadata Harmonization (v angličtine):
  - Tréningový materiál (Potrební jednorázová registrácia): <http://www.gisig.eu/platform/mod/page/view.php?id=822>
2. Examples of Data Transformations (v angličtine):
  - Tréningový materiál (Potrebná jednorázová registrácia): <http://www.gisig.eu/platform/course/view.php?id=69>
3. Data harmonisation (v angličtine):
  - Tréningový materiál (Potrebná jednorázová registrácia): <http://www.gisig.eu/platform/course/view.php?id=58>



# Transformácia údajov a metaúdajov

- Transformácia údajov
- Transformácia/Tvorba metaúdajov
- Editácia metaúdajov

# Transformácia údajov

- Najjednoduchším spôsobom transformácie súboru údajov je nasledovať INSPIRE Údajové špecifikácie - Technické usmernenia (TU), ktoré umožňujú vytvoriť súbor údajov, ktorý je v súlade s Vykonávacími predpismi pre interoperabilitu priestorových údajov a služieb
- TU navrhujú použitie GML ako formu predvoleného kódovania (formátu). GML aplikačné schémy (XSD súbory) sú k dispozícii pre všetky údajové témy v v repozitári INSPIRE schém (<http://inspire.ec.europa.eu/schemas/>)
- V súčasnosti je k dispozícii niekoľko transformačných nástrojov určených pre podporu transformácie zdrojových súborov údajov s pomocou relevantných aplikačných schém.

# Transformácia údajov

- Z dostupných transformačných nástrojov, materiál poskytuje ukážku dvoch príkladov:
  - HUMBOLDT Alignment Editor (HALE), nástroj s otvoreným zdrojovým kódom, určený na definovanie a posúdenie mapovania na úrovni konceptuálnych schém a transformáciu geoúdajov nad tým to mapovaním.  
(<http://www.esdi-community.eu/projects/hale>)
  - GO Publisher, proprietárny nástroj distribuovaný spoločnosťou Snowflake Software.  
(<http://www.snowflakesoftware.com/products/gopublisher/>)

# Transformácia údajov

- Zoznam hlavných funkcionalít spoločných pre transformačné nástroje:
  - Import cieľových schém z online zdrojov
  - On-the-fly konverzia atribútových hodnôt
  - Náhľad na transformovanú sadu údajov
  - Validácia transformovanej sady údajov v reálnom čase oproti relevantnej XSD schéme
  - Export transformovaného datasetu do GML formátu

# Transformácia údajov

- Hlavné rozdiely

Funkcionalita	HALE	GoPublisher
Formát zdrojového súboru údajov	<ul style="list-style-type: none"><li>• Shape súbor</li><li>• WFS</li><li>• PostGIS</li><li>• CSV (pre nepriestorové údaje)</li></ul>	<ul style="list-style-type: none"><li>• ORACLE</li><li>• PostGIS</li><li>• SQL Server and MS Access, alebo Excel súbory (pre nepriestorové údaje)</li></ul>
Konverzia hodnôt	<ul style="list-style-type: none"><li>• Preddefinovaná funkcionlita klasifikácie</li></ul>	<ul style="list-style-type: none"><li>• SQL skriptovanie</li></ul>
Mpovanie INSPIRE komplexných údajových typov	<ul style="list-style-type: none"><li>• Preddefinovaná funkcionlita pre “inspireld” a “Geographical name”</li></ul>	<ul style="list-style-type: none"><li>• Manuálna tvorba štruktúry údajových typov</li></ul>

# Transformácia údajov

- Príklad mapovania geometrie v prostredí HALE

The screenshot displays the HALE Alignment Editor interface, which is used for defining data transformations. The main window is divided into several panes:

- Source:** A tree view on the left showing the source data structure. The 'the\_geom' field is highlighted with a red circle.
- Target:** A tree view in the center showing the target data structure. The 'geometry' field is highlighted with a red circle.
- Transformation Diagram:** A central diagram showing the flow of data from source to target. It includes nodes for 'the\_geom', 'geometry', and various transformation functions like 'ST\_GeomFromText' and 'ST\_GeomFromWKB'. A red circle highlights the 'the\_geom' node and its associated transformation functions.
- Properties:** A pane at the bottom left showing the properties of the selected transformation function.
- Log:** A pane at the bottom right showing the execution log of the transformation process, with a red circle highlighting the 'Instance validation' step.

# Transformácia údajov

- HALE: Možnosť priameho náhľadu medzi zdrojovou a transformovanou formou

The screenshot displays the IBM DataStage Alignment tool interface. The main workspace shows a mapping diagram between source and target data models. The source data model on the left includes fields like '2ndOrder', '3rdOrder', '4thOrder', 'COD\_PRO', 'COD\_REG', 'Rename', 'NOME\_COM', 'NOME\_COM\_2', 'PRO\_COM', 'SHAW\_Area', 'SHAW\_Lang', 'the\_geom', and 'Metadata'. The target data model on the right includes fields like 'AdministrativeBoundary', 'nationalLevel', 'id', 'Country', 'country', 'codeList', 'CompositeCurve', 'country', 'country.codetList', 'country.codetListValue', 'country.namespace', and 'country.codetSpace'. The mapping is performed using 'Assign' and 'Rename' operations. A red circle highlights the 'Data' button in the top right corner of the interface.

Source Data Table:

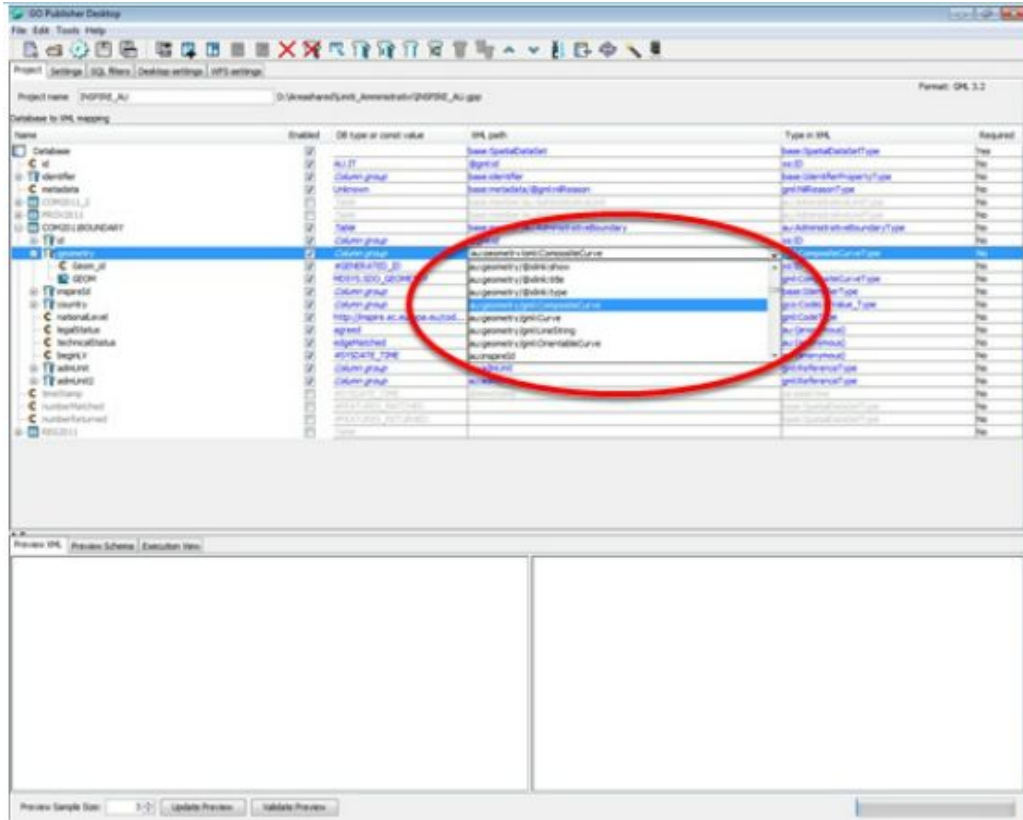
Source Field	Target Field
2ndOrder	2ndOrder
3rdOrder	3rdOrder
4thOrder	4thOrder
COD_PRO	75
COD_REG	18
Rename	com2011_norans_boundary_2
NOME_COM	Morano Cabedo
NOME_COM_2	Charanville
PRO_COM	39083
SHAW_Area	5.162543114208
SHAW_Lang	5262-A07254
the_geom	[[{"X":4590.1776, "Y":3290.144752680146, "SHAPE":{"type":"Polygon", "coordinates":[[[[{"x":4590.1776, "y":3290.144752680146, "order":1}, {"x":4590.1776, "y":3290.144752680146, "order":2}, {"x":4590.1776, "y":3290.144752680146, "order":3}]]}}]]
Metadata	id
id	AdministrativeBoundary

Transformed Data Table:

Field	Value
AdministrativeBoundary	AdministrativeBoundary
country	FR
Country	FR
codeList	http://inspire.ac.europa.eu/codeList/CountryCode
codeListValue	FR
CompositeCurve	[[{"X":4590.1776, "Y":3290.144752680146, "SHAPE":{"type":"Polygon", "coordinates":[[[[{"x":4590.1776, "y":3290.144752680146, "order":1}, {"x":4590.1776, "y":3290.144752680146, "order":2}, {"x":4590.1776, "y":3290.144752680146, "order":3}]]}}]]
id	Morano CabedoCharanville
namespace	Morano CabedoCharanville
codeSpace	http://inspire.ac.europa.eu/codeList/AdministrativeHierarchyLevel
Metadata	id
id	AdministrativeBoundary
SourceID	AdministrativeBoundary

# Transformácia údajov

- Príklad mapovania geometrie v prostredí GoPublisher





# Transformácia údajov

- GoPublisher: Možnosť priameho náhľadu medzi zdrojovou a transformovanou formou

The screenshot displays the GoPublisher Desktop interface. The top section shows a table titled 'Database to XML Mapping' with columns for Name, Enabled, DB type or const value, XML path, Type in XML, and Required. The table lists various database tables and their corresponding XML elements and types.

Name	Enabled	DB type or const value	XML path	Type in XML	Required
Database					
C id	<input checked="" type="checkbox"/>	All IT	/id/IT	base:OptionalDataType	Yes
C identifier	<input checked="" type="checkbox"/>	Column group	/base/identifier	base:IdentifierPropertyType	No
C metadata	<input checked="" type="checkbox"/>	Unknown	base:metadata/Signtable/...	get:ValueOfType	No
C PROCESS_2	<input checked="" type="checkbox"/>				No
C PROCESS_3	<input checked="" type="checkbox"/>				No
C PROCESS_4	<input checked="" type="checkbox"/>				No
C PROCESS_5	<input checked="" type="checkbox"/>				No
C PROCESS_6	<input checked="" type="checkbox"/>				No
C PROCESS_7	<input checked="" type="checkbox"/>				No
C PROCESS_8	<input checked="" type="checkbox"/>				No
C PROCESS_9	<input checked="" type="checkbox"/>				No
C PROCESS_10	<input checked="" type="checkbox"/>				No
C PROCESS_11	<input checked="" type="checkbox"/>				No
C PROCESS_12	<input checked="" type="checkbox"/>				No
C PROCESS_13	<input checked="" type="checkbox"/>				No
C PROCESS_14	<input checked="" type="checkbox"/>				No
C PROCESS_15	<input checked="" type="checkbox"/>				No
C PROCESS_16	<input checked="" type="checkbox"/>				No
C PROCESS_17	<input checked="" type="checkbox"/>				No
C PROCESS_18	<input checked="" type="checkbox"/>				No
C PROCESS_19	<input checked="" type="checkbox"/>				No
C PROCESS_20	<input checked="" type="checkbox"/>				No
C PROCESS_21	<input checked="" type="checkbox"/>				No
C PROCESS_22	<input checked="" type="checkbox"/>				No
C PROCESS_23	<input checked="" type="checkbox"/>				No
C PROCESS_24	<input checked="" type="checkbox"/>				No
C PROCESS_25	<input checked="" type="checkbox"/>				No
C PROCESS_26	<input checked="" type="checkbox"/>				No
C PROCESS_27	<input checked="" type="checkbox"/>				No
C PROCESS_28	<input checked="" type="checkbox"/>				No
C PROCESS_29	<input checked="" type="checkbox"/>				No
C PROCESS_30	<input checked="" type="checkbox"/>				No
C PROCESS_31	<input checked="" type="checkbox"/>				No
C PROCESS_32	<input checked="" type="checkbox"/>				No
C PROCESS_33	<input checked="" type="checkbox"/>				No
C PROCESS_34	<input checked="" type="checkbox"/>				No
C PROCESS_35	<input checked="" type="checkbox"/>				No
C PROCESS_36	<input checked="" type="checkbox"/>				No
C PROCESS_37	<input checked="" type="checkbox"/>				No
C PROCESS_38	<input checked="" type="checkbox"/>				No
C PROCESS_39	<input checked="" type="checkbox"/>				No
C PROCESS_40	<input checked="" type="checkbox"/>				No
C PROCESS_41	<input checked="" type="checkbox"/>				No
C PROCESS_42	<input checked="" type="checkbox"/>				No
C PROCESS_43	<input checked="" type="checkbox"/>				No
C PROCESS_44	<input checked="" type="checkbox"/>				No
C PROCESS_45	<input checked="" type="checkbox"/>				No
C PROCESS_46	<input checked="" type="checkbox"/>				No
C PROCESS_47	<input checked="" type="checkbox"/>				No
C PROCESS_48	<input checked="" type="checkbox"/>				No
C PROCESS_49	<input checked="" type="checkbox"/>				No
C PROCESS_50	<input checked="" type="checkbox"/>				No
C PROCESS_51	<input checked="" type="checkbox"/>				No
C PROCESS_52	<input checked="" type="checkbox"/>				No
C PROCESS_53	<input checked="" type="checkbox"/>				No
C PROCESS_54	<input checked="" type="checkbox"/>				No
C PROCESS_55	<input checked="" type="checkbox"/>				No
C PROCESS_56	<input checked="" type="checkbox"/>				No
C PROCESS_57	<input checked="" type="checkbox"/>				No
C PROCESS_58	<input checked="" type="checkbox"/>				No
C PROCESS_59	<input checked="" type="checkbox"/>				No
C PROCESS_60	<input checked="" type="checkbox"/>				No
C PROCESS_61	<input checked="" type="checkbox"/>				No
C PROCESS_62	<input checked="" type="checkbox"/>				No
C PROCESS_63	<input checked="" type="checkbox"/>				No
C PROCESS_64	<input checked="" type="checkbox"/>				No
C PROCESS_65	<input checked="" type="checkbox"/>				No
C PROCESS_66	<input checked="" type="checkbox"/>				No
C PROCESS_67	<input checked="" type="checkbox"/>				No
C PROCESS_68	<input checked="" type="checkbox"/>				No
C PROCESS_69	<input checked="" type="checkbox"/>				No
C PROCESS_70	<input checked="" type="checkbox"/>				No
C PROCESS_71	<input checked="" type="checkbox"/>				No
C PROCESS_72	<input checked="" type="checkbox"/>				No
C PROCESS_73	<input checked="" type="checkbox"/>				No
C PROCESS_74	<input checked="" type="checkbox"/>				No
C PROCESS_75	<input checked="" type="checkbox"/>				No
C PROCESS_76	<input checked="" type="checkbox"/>				No
C PROCESS_77	<input checked="" type="checkbox"/>				No
C PROCESS_78	<input checked="" type="checkbox"/>				No
C PROCESS_79	<input checked="" type="checkbox"/>				No
C PROCESS_80	<input checked="" type="checkbox"/>				No
C PROCESS_81	<input checked="" type="checkbox"/>				No
C PROCESS_82	<input checked="" type="checkbox"/>				No
C PROCESS_83	<input checked="" type="checkbox"/>				No
C PROCESS_84	<input checked="" type="checkbox"/>				No
C PROCESS_85	<input checked="" type="checkbox"/>				No
C PROCESS_86	<input checked="" type="checkbox"/>				No
C PROCESS_87	<input checked="" type="checkbox"/>				No
C PROCESS_88	<input checked="" type="checkbox"/>				No
C PROCESS_89	<input checked="" type="checkbox"/>				No
C PROCESS_90	<input checked="" type="checkbox"/>				No
C PROCESS_91	<input checked="" type="checkbox"/>				No
C PROCESS_92	<input checked="" type="checkbox"/>				No
C PROCESS_93	<input checked="" type="checkbox"/>				No
C PROCESS_94	<input checked="" type="checkbox"/>				No
C PROCESS_95	<input checked="" type="checkbox"/>				No
C PROCESS_96	<input checked="" type="checkbox"/>				No
C PROCESS_97	<input checked="" type="checkbox"/>				No
C PROCESS_98	<input checked="" type="checkbox"/>				No
C PROCESS_99	<input checked="" type="checkbox"/>				No
C PROCESS_100	<input checked="" type="checkbox"/>				No

The bottom section shows the 'Preview XML' view with the following XML snippet:

```
<gml:AbstractBoundary gml:id="Boundary_2001_7622">  
  <xs:geometry>  
    <gml:CurveByArc gml:id="C001_22_0" srsName="urn:ogc:def:crs:EPSG:  
    <gml:CurveByArc>  
      <gml:LineString gml:id="L001_22_1">  
        <gml:List srsName="urn:ogc:def:crs:EPSG:31466:0">  
          <gml:LineString>  
            <gml:CurveByArc>  
              <gml:CurveByArc>  
            </gml:CurveByArc>  
          </gml:List>  
        </gml:LineString>  
      </gml:CurveByArc>  
    </xs:geometry>  
    <xs:mapId>  
      <base:IdRef base="C001_22_0" srsName="urn:ogc:def:crs:EPSG:31466:0" />  
    </xs:mapId>  
  </gml:AbstractBoundary>  
</gml:AbstractBoundary>
```

The error messages in the bottom right corner are:

- Error [Line 1, Column 108] cvr-elt 1: Cannot find the declaration of element 'base:SpinalDetail'.
- Error [Line 24, Column 22] cv-complex-type 2.4 x: Invalid content was found starting with element 'xs:act'.
- Error [Line 50, Column 22] cv-complex-type 2.4 x: Invalid content was found starting with element 'xs:act'.
- Error [Line 74, Column 22] cv-complex-type 2.4 x: Invalid content was found starting with element 'xs:act'.

# Transformácia / Tvorba metaúdajov

- Základné možnosti získania metaúdajov, ktoré sú v súlade s INSPIRE:
  - Transformácia existujúcich metaúdajov
  - Tvorba nových metaúdajov
- V prvom prípade sa uplatňuje rovnaká transformačná metodológia ako v prípade údajov
  - Z dôvodu absencie cieľovej XSD schémy pre metaúdaje, tvorcovia metaúdajov musia načítať kompletný ISO 19115 profil a využiť položky definované v relevantných legislatívnych a technických dokumentoch
- V druhom prípade je možné využiť niektorý z dostupných metaúdajových editorov (Nástrojov na tvorbu a úpravu metaúdajov)

# Úprava (editácia) metaúdajov

- Z dostupných editačných nástrojov, materiál poskytuje ukážku dvoch príkladov:
  - INSPIRE Geoportal Metadata Editor, on-line voľne dostupný editor (<http://inspire-geoportal.ec.europa.eu/editor/>)
  - GeoNetwork opensource, katalógová aplikácia na správu priestorovo referencovaných zdrojov. Poskytuje funkcionality pre vyhľadávanie a editáciu metaúdajov, vrátane zabudovaného interaktívneho web map prehliadača (<http://geonetwork-opensource.org/>)

# Úprava (editácia) metaúdajov

- Ukážka prostredia INSPIRE Geoportal Metadata Editor

The screenshot displays the INSPIRE Geoportal Metadata Editor interface. At the top, there is a navigation bar with the European Commission logo and the text "INSPIRE GEOPORTAL Enhancing access to European spatial data". The breadcrumb trail reads "EUROPEAN COMMISSION > INSPIRE > INSPIRE GEOPORTAL > Metadata Editor". The main content area is divided into several sections:

- Language Selection:** A row of language codes (bg, cs, da, de, el, en, es, et, fi, fr, hu, it, lt, lv, mt, nl, pl, pt, ro, sk, sl, sv) with "en" highlighted.
- Metadata Editor Tabs:** A row of tabs including "Metadata", "Identification", "Classification", "Keyword", "Geographic", "Temporal", "Quality&Validity", "Conformity", "Constraints", "Responsib", and "Basic". The "Basic" tab is active.
- Metadata on metadata:** A section containing a "Metadata point of contact (\*)" field. This field is expanded to show a "Point of contact 1" section with two sub-fields: "Organisation name (\*)" and "E-mail (\*)", each with an input field.
- Metadata date:** A field at the bottom left for entering the metadata date.
- Right Panel:** A large empty area on the right side of the interface, currently showing a "Refresh" button.

# Úprava (editácia) metaúdajov

- Ukážka prostredia INSPIRE Geoportal Metadata Editor

The screenshot displays the INSPIRE Geoportal Metadata Editor interface. The left sidebar contains a navigation menu with options like 'Default view', 'INSPIRE view', 'By group', 'ISO', 'Minimum', 'ISO core', 'ISO all', 'By package', 'Metadata', 'Identification', 'Maintenance', 'Advanced', 'Stat. info', 'Ref. system', 'Distribution', 'Data quality', 'Imp. schema', 'Catalog', 'System info', 'Ext. info', and 'XML view'. The main window shows the 'IDENTIFICATION INFO' section with the following fields:

- Title:** val.Rozsahovani\_ArduFuelProject\_Czech\_2008
- Date type:** Creation
- Unique resource identifier:** ArduFuel\_CZ\_ArduFuel\_PCH
- Abstract:** ArduFuel project aims developing a generic methodology for creating forest fire maps which can be used for supporting the operational use of fire simulation. ArduFuel consists in combination of forest fire management, ArduFuel uses the results of a raster output of IFC data, distributed creating a standardized scheme of fuel types representative of the European forest regions and based on GIS it defines methodologies for producing forest fuel maps.
- Point of contact:** Organization name: Epsilon Data, Role: Point of contact, Electronic mail address: info@epsilon-data.cz, Information URL: info@epsilon-data.cz
- Descriptive keywords:** Forest fire characteristics, Thesaurus name: ECHOSS - Earth Observation Vocabulary, v. 2.0, Date type: Publication
- Descriptive keywords:** Land Cover and Classification Map, Thesaurus name: INSPIRE Metadata version 2.0, Date type: Publication
- Descriptive keywords:** Land cover, Thesaurus name: INSPIRE Metadata version 2.0, Date type: Publication

# Princípy validácie transformovaných údajov a metaúdajov

# Princípy validácie transformovaných údajov a metaúdajov

- Po transformácii, tvorbe údajov a ich metaúdajov je potrebné vykonať proces validácie pre posúdenie súladu s relevantnými požiadavkami
- Validácia údajov

Požiadavky	Spôsob posúdenia súladu
Nariadenie Komisie (EÚ) č. 1089/2010 z 23.11. 2010 , ktorým sa vykonáva smernica Európskeho parlamentu a Rady 2007/2/ES, pokiaľ ide o interoperabilitu súborov a služieb priestorových údajov, vrátane neskorších doplnení (Nariadenie Komisie (EÚ) č. 102/2011 zo 04.02. 2011 a Nariadenie Komisie (EÚ) č . 1253/2013 z 21.10. 2013)	Implementácia Abstraktnej testovacej zostavy (Abstract test suite - ATS), ktorá sa nachádza v prílohe “Annex A - Part 1” INSPIRE Údajových špecifikácií - Technické usmernenia
INSPIRE Údajové špecifikácie - Technické usmernenia pre Prílohy I,II a III Tém priestorových údajov	Implementácia Abstraktnej testovacej zostavy (Abstract test suite - ATS), ktorá sa nachádza v prílohe “Annex A - Part 2” INSPIRE Údajových špecifikácií - Technické usmernenia

# Princípy validácie transformovaných údajov a metaúdajov

- Validácia metaúdajov

Požiadavky	Spôsob posúdenia súladu
Nariadenie Komisie (EÚ) č. 1089/2010 z 23.11. 2010 , ktorým sa vykonáva smernica Európskeho parlamentu a Rady 2007/2/ES, pokiaľ ide o interoperabilitu súborov a služieb priestorových údajov, vrátane neskorších doplnení (Nariadenie Komisie (EÚ) č. 102/2011 zo 04.02. 2011 a Nariadenie Komisie (EÚ) č . 1253/2013 z 21.10. 2013)	Implementácia Abstraktnej testovacej zostavy (Abstract test suite - ATS), ktorá sa nachádza v prílohe “Annex A - Part 1” INSPIRE Údajových špecifikácií - Technické usmernenia
INSPIRE Údajové špecifikácie - Technické usmernenia pre Prílohy I,II a III Tém priestorových údajov	Implementácia Abstraktnej testovacej zostavy (Abstract test suite - ATS), ktorá sa nachádza v prílohe “Annex A - Part 2” INSPIRE Údajových špecifikácií - Technické usmernenia



# Proces harmonizácie priestorových údajov a metaúdajov

Zdroj: Procedures for [Data and Metadata harmonisation](#), G.Martitano, F.Vinci, S.Morrone  
LINKVIT, smeSprire project, 2014

SK Preklad a modifikácia: Martin Tuchyňa (martin.tuchyna@sazp.sk)