

MIG WORKSHOP ON THE IMPACT OF THE HVD ACT ON THE IMPLEMENTATION OF THE INSPIRE DIRECTIVE

INSPIRE vs. OpenData&HVD SK perspective

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Context

- Legislation
- Governance
- Metadata
- Data
- Services/API
- Sharing/Licencing
- Monitoring/reporting

Legislation

INSPIRE

Observations/Comparisons

- Directive INSPIRE (2007/2)
 - Metadata regulation (1205/2008)
 - Interoperability regulations (1089/2010, 102/2011, 1253/2014)
 - Network services regulation (976/2009), Download and transformation amendment (1088/2010)
 - Spatial data services regulation (1311,1312/2014)
 - Data sharing regulation (268/2010)
 - Monitoring and reporting decision (2019/1372), regulation (2019/1010)

OD&HVD

Observations/Comparisons

- Directive Open Data (2019/1024)
 - Regulation HVD (2023/138)

Legislation II

INSPIRE

Observations/Comparisons

- SK transposition
 - 1 SDI Law (3/2010 with changes)
 - 1 Decree (352/2017 with changes)

Questions

- Will HVD require changes in INSPIRE legislation?

OD&HVD

Observations/Comparisons

- SK transposition
 - 1 Law on freedom of information (211/2000 with changes)
 - 1 Decree (78/2020)

Questions

- What are the exact dates of force/deadlines?
 - Directive entry force: 16.07.2019?
 - Regulation entry force: 09.06.2023?
 - First reporting: 09.02.2025?
- Are there foreseen another legislation acts, or technical guidelines under OD&HVD?

Governance

INSPIRE

Observations/Comparisons

- INSPIRE Committee
- INSPIRE MIG & MIT-T
- SK responsible authority: Ministry of environment of the Slovak republic

Questions

- Where and how the governance synergy between INSPIRE and OD&HVD will/shall take place on EU and national level?

OD&HVD

Observations/Comparisons

- Committee on open data and the re-use of public sector information
- SK responsible authority: Ministry of Investments, Regional Development and Informatization of the Slovak Republic

Questions

- Is it possible to get an overview of governance and contacts on OD&HVD structures across the MS as already available under [INSPIRE in your country?](#)

Governance

SK situation

- Initial coordination of responsible authorities
- Plans to invite other relevant stakeholders
- Plans to establish integration between SDI and OpenData metadata registers
- Support for HVD harvesting via developed new OpenData portal

The screenshot shows the OpenData.gov.sk website interface. The top navigation bar includes the METAIS logo, a 'Priestory' dropdown, a 'Vytvorit' button, and a search bar labeled 'Vyhľadavať'. The main content area is titled '7. HVD - Datasets s vysokou hodnotou' and includes a sub-header 'Riadiaci panel / Metodika pre sprístupňovanie otvorených údajov (opendata.gov.sk) Domov'. Below the title, it states 'Vytvoril/a Miroslav Líška, naposledy zmenené feb 13, 2023'. The page provides a URI: <http://publications.europa.eu/resource/authority/dataset-type/HVD>, a proposed alternative name: 'Datasety s vysokou socio-ekonomickou hodnotou (cz)', and a simplified URL: opendata.gov.sk/hvd. A list of links includes 'HVD Governance', 'HVD Legislatíva', 'Zoznam HVD datasetov', 'HVD Odkazy', and 'HVD Kalendár udalostí (povinnosti)'. A sidebar on the left contains a 'Stránky' menu and a 'Blog' section. At the bottom, there is a comment box with the text 'Napište komentár'.

The screenshot displays the SPARQL Endpoint for the National Open Data Catalog. The page title is 'SPARQL Endpoint pre Národný katalóg otvorených dát'. It features a yellow warning banner at the top stating: 'Toto je testovacia verzia SPARQL Endpointu, ktorý bude súčasťou nového portálu otvorených dát. Zdrojom dát je stále súčasný data.gov.sk ktorý sa do NKODu harvestuje raz za deň.' Below the banner, there are links for 'opendata.mirri.tech' and 'Slovenčina'. The main content area is titled 'Príklady dotazov' and lists several query examples: 'Formáty dát distribuované celkom', 'Formáty dát distribúcií podľa poskytovateľa', 'Počty dát s daným kľúčovým slovom', 'Podmienky použitia distribúcií celkom', 'Podmienky použitia distribúcií celkom', 'Zoznam datasetov s vysokou hodnotou (HVD)', and 'Zoznam datasetov s vysokou hodnotou (HVD)'. A section titled 'Zadaj SPARQL dotaz' contains a query editor with a SPARQL query:

```

1 PREFIX foaf: <http://xmlns.com/foaf/0.1/>
2 PREFIX dcterms: <http://purl.org/dc/terms/>
3 PREFIX dcat: <http://www.w3.org/ns/dcat#>
4 PREFIX type: <http://publications.europa.eu/resource/authority/dataset-type/>
5
6 SELECT DISTINCT ?nazov_datasetu ?meno_poskytovateľa
7 WHERE {
8   ?dataset a dcat:Dataset ;
9     dcterms:title ?nazov_datasetu ;
10    dcterms:type type:HVD ;
11    dcterms:publisher ?poskytovateľ ;
12    ?poskytovateľ foaf:name ?meno_poskytovateľa ;
13    FILTER (langMatches(LANG(?nazov_datasetu), "sk"))
14    FILTER (langMatches(LANG(?meno_poskytovateľa), "sk"))

```

The query results table shows one entry:

názov_datasetu	meno_poskytovateľa
"High Value Dataset"@sk	"Ministerstvo práce, sociálnych vecí a rodiny SR"@sk

The page footer indicates 'Showing 1 to 1 of 1 entries'.

Metadata

INSPIRE

Observations/Comparisons

- ISO MD profile + national extensions
- National profile extensions
- Harvesting national catalogues to EC Geoportal

Questions

- Will HVD impact INSPIRE metadata?
- What will be the MD elements and criteria to assign INSPIRE MD under HVD?
- Is it foreseen to establish common coordination, where and how “INSPIRE & HVD MD integration” shall take place?
- Is it foreseen to consider HVD requirements in INSPIRE validator?
- Is it foreseen also integrate under HVD also MD for series and MD for services?

OD&HVD

Observations/Comparisons

- DCAT profile
- Requirements for mapping
- Unclear metadata aggregation at Union level

Questions

- Is it foreseen to provide common INSPIRE & HVD metadata mapping?
- How and where will HVD metadata be aggregated on Union level?
- What are the HVD requirements for metadata update?
- Are there some expectations to validate HVD metadata?
- Only metadata for datasets are expected from HVD, or also for applications?
- How to cope with concept of Distributions, supported by OD&HVD metadata?

Metadata

Initial mapping from ISO/INSPIRE SK national MD profile to DCAT

MAPOVANIE_RPI_DCAT				
Súbor Upraviť Zobrazíť Vložiť Formát Údaje Nástroje Rozšírenia Pomocník				
100% Iba zobrazenie				
A1	A	B	C	
1	Položka profilu DCAT	RPI mtd položky	Príklad hodnoty	Otázky
2	Trieda:Katalog			
3	názov, dct:title	Názov katalógu - RPI		
4	popis, dct:description	Popis katalógu RPI		
5	poskytovateľ, dct:publisher	MŽP SR		
6	kontaktný_bod, dcat:contactPoint	Meno a email		
7	domovská_stránka, foaf:homepage	www.rpi.gov.sk		
8				
9	Trieda:Dataset			
10	názov, dct:title	/gmd:MD_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:citation/g	INSPIRE - Poľnohospodárske zariadenia - Miesto (Farmy)	
11	popis, dct:description	/gmd:MD_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:abstract/g	Čiastočne harmonizované INSPIRE údaje pre Zoznam fariem v Ce	
12	poskytovateľ, dct:publisher	/gmd:MD_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:pointOfCo	Plemenárske služby Slovenskej republiky	
13	téma, dcat:theme	/gmd:MD_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:topicCate	Ministerstvo životného prostredia Slovenskej republik	V RPI mtd
14	periodicita_aktualizace, dct:accrualPeriodicity	/gmd:MD_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:resourceN	farming	Mapovan
15	kľúčové_slovo, dcat:keyword	/gmd:MD_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:descriptiv	-	V národn
16	typ_datasetu, dct:type	-	-	Tato polo
17	geografické_územie, dct:spatial	/gmd:MD_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:extent/gr	bbox udaje	V RPI mtd
18	časové_pokrytie, dct:temporal	/gmd:MD_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:extent/gr	-	Vieme na
19	kontaktný_bod, dcat:contactPoint	/gmd:MD_Metadata/gmd:contact/gmd:CI_ResponsibleParty	Ministerstvo životného prostredia Slovenskej republiky	
20	dokumentácia, foaf:page	-	-	Navrhujer
21	špecifikácia, dct:conformsTo	/gmd:MD_Metadata/gmd:dataQualityInfo/gmd:DQ_DataQuality/gmd:report/gmd:DQ_D	http://eur-lex.europa.eu/eli/reg/2010/1089	Tatuto po
22	koncent_euroVoc, dcat:theme	/gmd:MD_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:topicCate	farming	Vieme na
				Mapovan

Data

INSPIRE

Observations/Comparisons

- Narrower scope (34 themes)
- Higher model complexity
- UML & narrative data model description
- Unified model structure
- Direct and indirect spatial representation
- Availability data validation rules and tools
- Only latest available versions
- Encodings: GML, GeoJSON, GeoPackage

Questions

- Does yet unharmonised (AsIs) data falls under the HVD?
- Which encoding for Orthoimagery and Elevation data (TIFF, GPKG)?
- Are INSPIRE GPKG vector datasets acceptable also under OD&HVD?

OD&HVD

Observations/Comparisons

- Wider scope (6 categories, ~ 68 datasets)
- Lighter data structure
- Tabular/narrative data model notation
- Heterogenous model structure
- It's unclear, if some HVD datasets comes with spatial representation
- Unclear situation about data validation
- Heterogenous update frequency and timeliness

Questions

- Encodings: Unclear, what exactly means Union or internationally recognised open, machine-readable format
- For environmental domain, is INSPIRE priority datasets mapping going to be applied?
- What about Copernicus data?

Data II

SK situation

- Initial mapping has been started, on dataset metadata level
- More challenging will be the level of geometry and attributes

HVD2INSPIRE@SK

Súbor Upraviť Zobrazíť Vložiť Formát Údaje Nástroje Rozšírenia Pomocník

100% € % ,0_00 123 Predvolen... 10 B I A

B2	A	B	C	D	E	F	G	H	I
1	Mapovanie datasetov na Zoznam datasetov s vysokou pridanou hodnotou (HVD)								
2	HVD kategória	HVD Dataset	SK dataset	SK Povinná osoba	Metazáznam pre dataset				
3	Geopriestorové údaje								
4		Správne jednotky	INSPIRE - Administratívne jednotky	ÚGKK SR	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/17316219/SK_UGKK_7				
5			NUTS SK 2004	MV SR	TBD				
6		Zemepisné názvy	INSPIRE - Geografické názvoslovie	ÚGKK SR	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/151866/SK_MVSR_INSPIRE				
7		Adresy	INSPIRE - Adresy	MV SR	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/151866/SK_MVSR_INSPIRE				
8		Stavby	INSPIRE - Budovy	ÚGKK SR	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/151866/SK_MVSR_INSPIRE				
9		Katastrálne parcely	INSPIRE - Katastrálna parcela_UO	ÚGKK SR	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/151866/SK_MVSR_INSPIRE				
10			INSPIRE - Katastrálna parcela_KN	ÚGKK SR	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/151866/SK_MVSR_INSPIRE				
11		Referenčné parcely							
12		Polnohospodárske parcely							
13	Pozorovanie Zeme a životné prostredie								
14		Hydrografia (I)	INSPIRE - Hydrografia	ÚGKK SR	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
15		Chránené územia (I)	INSPIRE - Chránené územia	MŽP SR	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
16			INSPIRE - Chránené územia - Kultúrne - f PÚSR		https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
17			INSPIRE PD 24,07 Rozsah vtáčích území	ŠOP SR	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
18			INSPIRE PD 24,08 Rozsah citlivých vtáčid	ŠOP SR	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
19			INSPIRE PD 45,01 CDDA Spoločná databáza	MŽP SR	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
20		Výška (II)	INSPIRE - Výška	ÚGKK SR	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
21		Geológia (II)	INSPIRE - Geológia - Hydrogeológia - Prá	ŠGÚDŠ	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
22			INSPIRE - Geológia - Vrty	ŠGÚDŠ	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
23		Krajinná pokrývka (II)	INSPIRE - Krajinná pokrývka - CORINE Lai	SAŽP	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
24			INSPIRE - Krajinná pokrývka - CORINE Lai	SAŽP	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
25			INSPIRE - Krajinná pokrývka - CORINE Lai	SAŽP	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
26			INSPIRE - Krajinná pokrývka - CORINE Lai	SAŽP	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
27			INSPIRE - Krajinná pokrývka - Lesné typy	SAŽP	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
28		Ortografické zobrazovanie (II)	INSPIRE - Ortometria	ÚGKK SR	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
29		Spravované/obmedzené/regulované zóny a jednotky podávajúce s	INSPIRE - Spravované jednotky	ŠOP SR	https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
30			INSPIRE - Spravované, obmedzené alebo VÚVH		https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
31			INSPIRE - Spravované, obmedzené alebo NLC		https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
32			INSPIRE - Spravované, obmedzené alebo NLC		https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
33			INSPIRE - Spravované, obmedzené alebo VÚVH		https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				
34			INSPIRE - Spravované, obmedzené alebo NLC		https://rpi.gov.sk/client/map/summary?rid=https://data.gov.sk/set/rpi/gmd/42181810/AD0384B8D3C6				

Services/APIs

INSPIRE

Observations/Comparisons

- Spatial data / network services, mainly:
 - View (WMS, WMTS,)
 - Download (WFS, WCS, ATOM)
- Upcoming OGC APIs (Tiles, Features, Coverages..)
- QoS requirements
- Validation support

Questions

- What types of queries shall be supported by APIs?
- What are minimal requirements for API implementations and documentation?
- What will be the impact on INSPIRE MD simplification and linkages to Network services?

OD&HVD

Observations/Comparisons

- APIs
- Bulk download
- Unclear QoS requirements
- Unclear requirements for validation

Questions

- What will be the EC actions, aiming support consumptions of APIs on desktop, web client applications?
- What will be the requirements for APIs quality (e.g. type, performance...)
- What will be the requirements for management of the APIs and structure of the data provided?

Sharing/Licensing

INSPIRE

Observations/Comparisons

- Free and restricted sharing allowed
- CC-0, CC-BY supported licenses
- Only MD and View services are under free licence requirements

Questions

- If provider will restrict access to download because INSPIRE allows it, provides OD&HVD has higher legal “power” to enforce provision of the data?
- Is EC planning/willing to provide legal support with data provision enforcement?

OD&HVD

Observations/Comparisons

- Only free sharing allowed
- CC-0, CC-BY supported licenses
- Except public sector bodies exempted

Questions

- What will be the criteria and process to establish and maintain list of public sector bodies exempted in accordance with Article 14(5) of Directive (EU) 2019/1024?

Monitoring/Reporting

INSPIRE

Observations/Comparisons

- Annual period
 - 15.12. Harvest - Data
 - 01.03. Country Fiche - Report
- Automatic process
- Indicators for technical components
- Text info about Costs/Benefits

Questions

- Why metadata / data validation / processing is also executed after 15.12 period (e.g. SK last validations an indicator calculations in January 2023)?
- Why there is limited uptake of Costs/Benefits information from MS?
- Will HVD impact change of INSPIRE monitoring?

OD&HVD

Observations/Comparisons

- 2 years period (From 2025)
 - Report
- MS will provide report upon request of the Commission
-

Questions

- There will be no data under the OD&HVD monitoring/reporting? Just report?
- What is meant with “data protection impact assessment” ?
- Any plans to monitor and evaluate the benefits, use and impact of HVD?