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Introduction

The INSPIRE Directive sets the minimum conditions for interoperable sharing and exchange of spatial data across Europe as part of a larger European Interoperability Framework and the e-Government Action Plan that contributes to the Digital Single Market Agenda. Article 21 of [INSPIRE Directive](#) defines the basic principles for monitoring and reporting. More detailed implementing rules regarding INSPIRE monitoring and reporting have been adopted as [Commission Implementing Decision \(EU\) 2019/1372](#) on the 19th August 2019.

This country fiche highlights the progress in the various areas of INSPIRE implementation. It includes information on [monitoring 2020](#) acquired in December 2020 and Member States update.

State Of Play

A high-level view on the governance, use and impact of the INSPIRE Directive in Slovakia. More detailed information is available on the [INSPIRE knowledge base](#).

Coordination

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Coordination Structure & Progress:

- Coordination Structure
 - Coordination of the relevant stakeholders in Slovakia is facilitated on two main levels:
 - Strategy / Main public sector stakeholders' level represented by **Coordination Committee of NSDI (NSDI**

Council / [KR-NIPI](#))

- Technical / implementation level represented by **Expert Group of NSDI (NSDI Expert Group / [ES NIPI](#))**.
The ES NIPI coordinates the work of ad hoc Technical Working Groups).
- - Main responsibility for the INSPIRE implementation and coordination was assigned to the Ministry of Environment of the Slovak Republic, supported with the Coordination Council (KR NIPI). KR NIPI is representing the main central public authorities, including the representation of local governance.
 - Ministry of Environment of the Slovak Republic is also in charge of [National Geoportal](#), [Spatial Data Registry](#) as well as [National INSPIRE website](#) maintenance, communication with the Slovakian stakeholders, communication with European Commission, and provides the primary contacts in both Maintenance and Implementation Groups: [MIG \(policy\)](#) and [MIG-T \(technical\)](#).
- Progress
 - **In summary INSPIRE implementation in Slovakia is in progress, where still a lot needs to be done, but systematic changes has been triggered, what might with responsible support from stakeholders deliver more visible achievements, soon.**
 - Main focus of the activities during the 2020 was on the getting a better overview of the involvement of the stakeholders, compliancy of the metadata with the new Metadata Technical guidelines v. 2.0 and INSPIRE priority datasets.
 - Initial activities took place with the support of the Effective management of spatial data and services national project.
 - Where possible, synergies with eGovernment and Open Data activities also took place.
 - Main challenges remains with the availability of the as is and INSPIRE harmonised datasets (mainly Annex II+III themes) and their accessibility via INSPIRE network services.

Functioning and coordination of the infrastructure

- In order to collect information about the status of the INSPIRE implementation across the main stakeholders on national level (ministries, central state administration bodies and organizations in their area of responsibility) and identify their interest for INSPIRE implementation support with the national projects prepared by the MoE specific survey [has been launched](#). [Main outcomes provided](#) information about the diverse INSPIRE requirements awareness as well as their interpretation and consequently status of their implementation. From the perspective on foreseen readiness to fulfil INSPIRE requirements, more than half of respondents (26 organisations) confirmed they will use own infrastructure and resources. Majority of the respondents expressed an interest for INSPIRE implementation support via national projects of MoE.
- Main coordination activities took place via existing coordination channels (KR NIPI, ES NIPI) as well as in the specific thematic groups ([INSPIRE priority datasets](#) and [Hydrography](#)). In addition, set of specific surveys took place addressing following topics:
 - [User requirements for better websites and communication in the field of NSDI/ INSPIRE](#),
 - [Survey of demand and supply of training in the field of geoinformatics and NSDI / INSPIRE](#),
 - [Interest in access to and use of spatial data of the Copernicus program](#).
- To support the coordination of the infrastructure and to get better understanding of the real contributions to the national spatial data infrastructure initial analysis of the metadata in the [Spatial data registry](#) provided an overview about the metadata distribution. This confirmed the presence of the metadata only from the half of the main ministries and central state administration bodies. There are also significant differences within the distribution of the metadata across the stakeholders with registered metadata in the Spatial data registry.

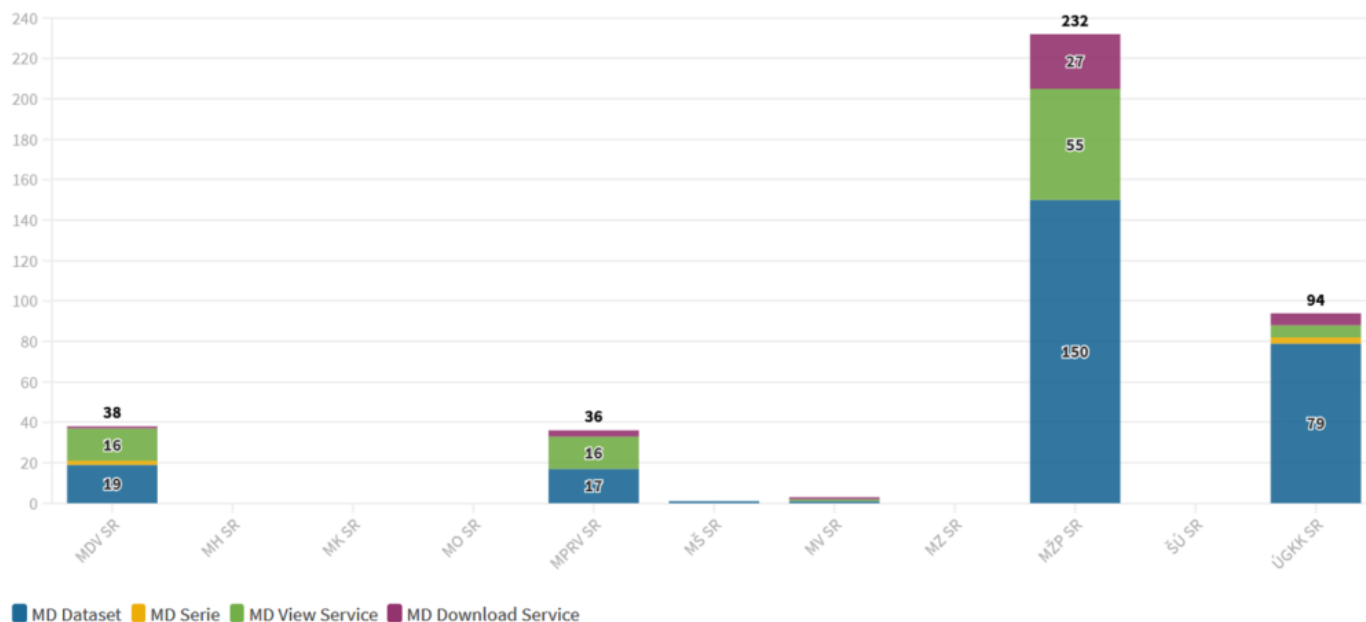
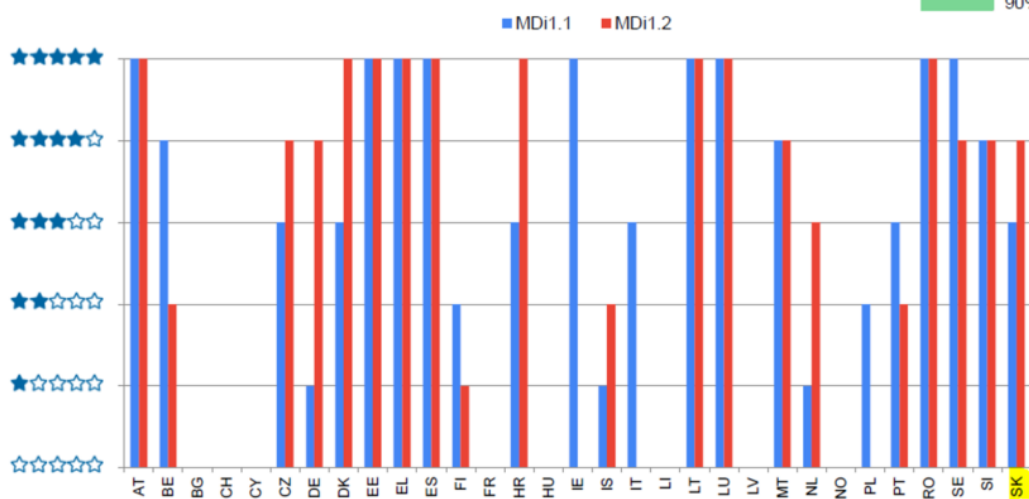
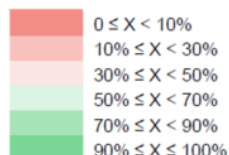


Figure info: Metadata distribution by the main stakeholders in 2020 (Source KR NIPI 1/2020)

- Dedicated [GitLab project](#) has been established, to provide the support with INSPIRE implementation and share experience with stakeholders.
- In order to increase awareness and provide access to the information also via social networks, new [inspire.gov.sk Facebook Page](#) started to share relevant information to stakeholders in 2020.
- During the 2020 initial activities took place for INSPIRE implementation support via national project Effective management of spatial data and services (ESPUS). First activities were focused on alignment of INSPIRE metadata with the new INSPIRE metadata Technical guidelines v.2.0 requirements and in the domain of INSPIRE priority datasets. The results were addressed the INSPIRE monitoring outcomes demonstrating increased level of SK metadata TG 2.0 compliance as well as progress in the availability of INSPIRE priority datasets.

Conformity of metadata

	MDi1.1	MDi1.2
Median	67%	43%



	MDi1.1	MDi1.2
AT	95%	92%
BE	86%	49%
BG	0%	0%
CH	0%	0%
CY	0%	0%
CZ	58%	79%
DE	19%	80%
DK	63%	99%
EE	100%	100%
EL	98%	100%
ES	96%	98%
FI	43%	18%
FR	0%	0%
HR	51%	100%
HU	0%	0%
IE	96%	5%
IS	27%	36%
IT	51%	5%
LI	0%	0%
LT	96%	100%
LU	99%	98%
LV	0%	0%
MT	70%	89%
NL	22%	67%
NO	1%	0%
PL	36%	6%
PT	55%	41%
RO	93%	97%
SE	91%	75%
SI	70%	89%
SK	60%	75%

Figure info: Monitoring of the conformity of metadata (Source MIG-T 64th)

Data source: INSPIRE Geoportal 3 February 2021

Country	Metadata records	Downloadable Data Sets	Viewable Data			
			Sets	Downloadable	Viewable	
at	Austria	137	131	132	95,62%	96,35%
es	Spain	86	84	84	97,67%	97,67%
lu	Luxembourg	91	91	74	100,00%	81,32%
be	Belgium	354	320	316	90,40%	89,27%
pt	Portugal	144	128	105	88,89%	72,92%
el	Greece	54	54	54	100,00%	100,00%
se	Sweden	60	57	56	95,00%	93,33%
dk	Denmark	48	46	43	95,83%	89,58%
mt	Malta	49	40	49	81,63%	100,00%
fi	Finland	19	19	19	100,00%	100,00%
lt	Lithuania	94	88	25	93,62%	26,60%
de	Germany	144	77	63	53,47%	43,75%
bg	Bulgaria	229	97	99	42,36%	43,23%
cy	Cyprus	11	9	9	81,82%	81,82%
lv	Latvia	68	32	33	47,06%	48,53%
cz	Czech Republic	33	14	29	42,42%	87,88%
sk	Slovak Republic	61	28	28	45,90%	45,90%
pl	Poland	59	29	26	49,15%	44,07%
fr	France	262	120	23	45,80%	8,78%
nl	Netherlands	36	24	17	66,67%	47,22%
ee	Estonia	24	12	13	50,00%	54,17%
it	Italy	128	5	7	3,91%	5,47%
ro	Romania	28	10	10	35,71%	35,71%
is	Iceland	2	2	0	100,00%	0,00%
si	Slovenia	9	4	4	44,44%	44,44%
hr	Croatia	16	1	5	6,25%	31,25%
ie	Ireland	42	0	0	0,00%	0,00%
hu	Hungary	20	2	2	10,00%	10,00%
no	Norway	14	1	1	7,14%	7,14%
ch	Switzerland	0	0	0	0,00%	0,00%
li	Liechtenstein	0	0	0	0,00%	0,00%

Indicative ranking of countries based on their performance in identifying priority data sets and making them accessible.

Progress on making priority data for e-reporting available



About 1/3 of the Member States are on target.

The other Member States are either lagging behind on implementation or underperforming.

After 4 years of implementation the outcome is not satisfactory.

The Commission will follow up with a compliance exercise in 2021 targeted at improving the overall identification and accessibility of prioritised data.



Figure info: Availability of INSPIRE priority datasets (Source Action 2016.5: Priority list of datasets for e-Reporting)

- Aside of the project activities further analysis of the current content of the Slovakian NSDI with aim to improve the quality of the metadata, availability of the network services providing the interoperable spatial datasets with clear data sharing provisions will continue, using the coordination framework and where needed appropriate stimulations and available legal enforcement tools.

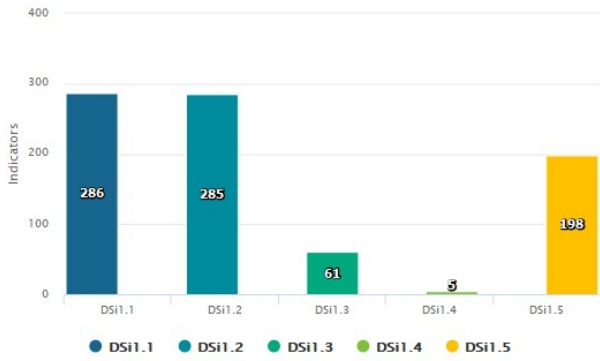
Usage of the infrastructure for spatial information

- The overall use of the infrastructure still remains challenge, mainly because of the range of the available spatial data, accessibility via network services as well as quality and update of the spatial data and services description by metadata.
- Another reason is linked with low awareness of the potential of NSDI on the user consumption side. In order to support an uptake of georesources, [new SK national metadata profile](#) was proposed, together with the new profile for applications.
- In order to support usage, new pilot apps has been designed under the ESPUS project aiming to support domains of Environmental policy inspection, analytical utilisation of georesources as well as in improvement of the access to the geospatial resources.
- MoE will continue with the activities supporting increased use of the SDI in order to demonstrate the benefits of spatial data and services availability.

Data sharing arrangements

- Based on the analysis of the metadata describing the spatial data and services in Slovakia, huge amount of diverse data sharing arrangements depicts the need to improve the situation.
- This resulted in the revision of the SK national metadata profile, where options for documenting of the data sharing arrangements were aligned with the INSPIRE metadata TG 2.0 requirements and recommendations.
- All SK inspire priority datasets were assigned under Open Data Creative Commons Attribution 4.0 International (CC BY 4.0) license.
- Also in other metadata records, presence of standardised licences is becoming more visible.
- There is still missing national translation of the Creative commons licenses (ver.4) to the Slovak language, in order to strengthen the usability of this standard licensing framework.
- Significant issue remains also on user side, as there are no simple tools, allowing filtering the spatial data resources under the unrestricted conditions as on national as well as European level. There has been initiated development of the new Spatial data registry, where these aspects are going to be considered.
- Coordination effort took place in connection to the transposition of the new PSI directive in connection to the [High value datasets](#).
- Integration of the open spatial data to the [National Open Data portal](#) is also still ongoing.

Monitoring of the availability of spatial data and service



Legend

Indicator	Definition
DSi1.1	The number of spatial data sets for which metadata exist
DSi1.2	The number of spatial data services for which metadata exist
DSi1.3	The number of spatial data sets for which the metadata contains one or more keywords from a register provided by the Commission indicating that the spatial data set is used for reporting under the environmental legislation
DSi1.4	The number of spatial data sets for which the metadata contains a keyword from a register provided by the Commission indicating that the spatial data set covers regional territory
DSi1.5	The number of spatial data sets for which the metadata contains a keyword from a register provided by the Commission indicating that the spatial data set covers national territory

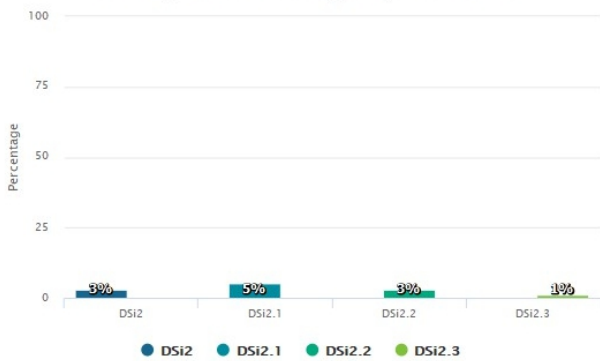
Monitoring of the conformity of metadata



Legend

Indicator	Definition
MDi1.1	Percentage of metadata for spatial data sets conformant with Commission Regulation (EC) No 1205/2008 as regards metadata
MDi1.2	Percentage of metadata for spatial data services conformant with Commission Regulation (EC) No 1205/2008 as regards metadata

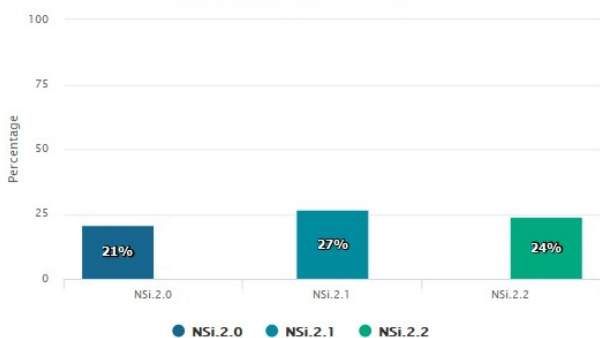
Monitoring of the conformity of spatial data sets



Legend

Indicator	Definition
DSi2	Percentage of spatial data sets that are in conformity with Commission Regulation (EU) No 1089/2010 as regards interoperability of spatial data sets
DSi2.1	Percentage of spatial data sets, corresponding to the themes listed in Annex I, that are in conformity with Commission Regulation (EU) No 1089/2010 as regards interoperability of spatial data sets
DSi2.2	Percentage of spatial data sets, corresponding to the themes listed in Annex II, that are in conformity with Commission Regulation (EU) No 1089/2010 as regards interoperability of spatial data sets
DSi2.3	Percentage of spatial data sets, corresponding to the themes listed in Annex III, that are in conformity with Commission Regulation (EU) No 1089/2010 as regards interoperability of spatial data sets

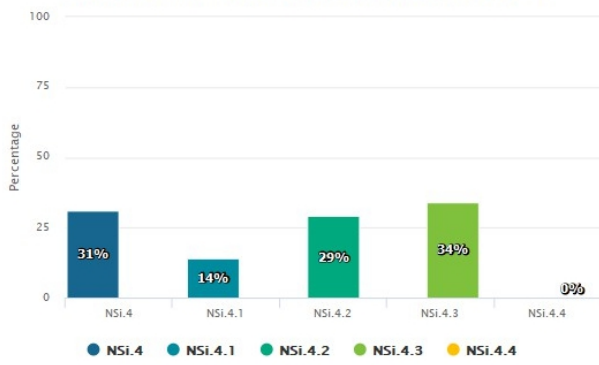
Monitoring of the accessibility of spatial data sets through view and download services



Legend

Indicator	Definition
NSi.2.0	The Percentage of spatial data sets that are accessible through view and the download services
NSi.2.1	The Percentage of spatial data sets that are accessible through view services
NSi.2.2	The Percentage of spatial data sets that are accessible through download services

Monitoring of the conformity of the network services



Legend

Indicator	Definition
● NSi.4	Percentage of the network services that are in conformity with Commission Regulation (EC) No 976/2009 as regards the Network Services
● NSi.4.1	Percentage of the discovery services that are in conformity with Commission Regulation (EC) No 976/2009 as regards the Network Services
● NSi.4.2	Percentage of the view services that are in conformity with Commission Regulation (EC) No 976/2009 as regards the Network Services
● NSi.4.3	Percentage of the download services that are in conformity with Commission Regulation (EC) No 976/2009 as regards the Network Services
● NSi.4.4	Percentage of the transformation services that are in conformity with Commission Regulation (EC) No 976/2009 as regards the Network Services