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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 DECISION regarding INSPIRE monitoring and reporting on the 5th of June 2009.

This country fiche highlights the progress in the various areas of INSPIRE implementation and presents an outlook of planned actions for further improvement of the INSPIRE implementation. The country fiche includes information **until March 2020** as an update of the information acquired through:

- member states update,
- monitoring report in May 2019.

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

National Contact Point

Name of Public Authority: Ministry of Environment of the Slovak Republic

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Telephone Number: +421 048 4374 523

National INSPIRE Website: <http://inspire.gov.sk>

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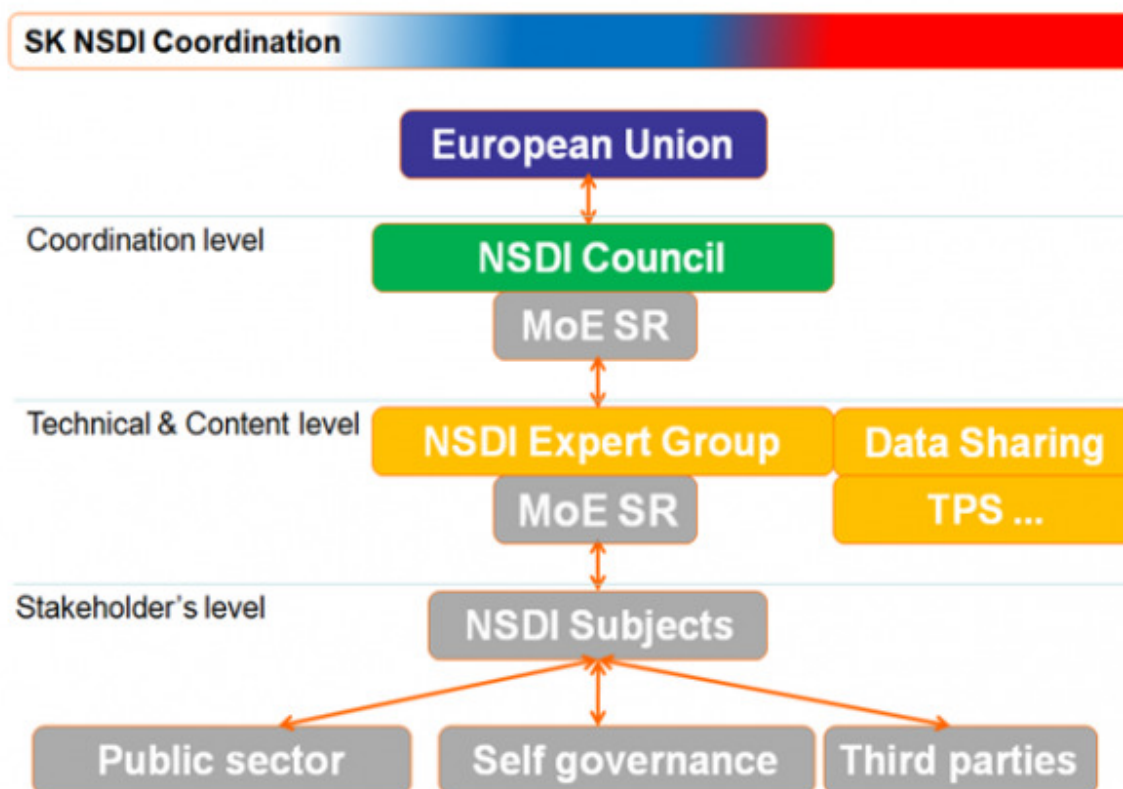
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Coordination Structure & Progress:

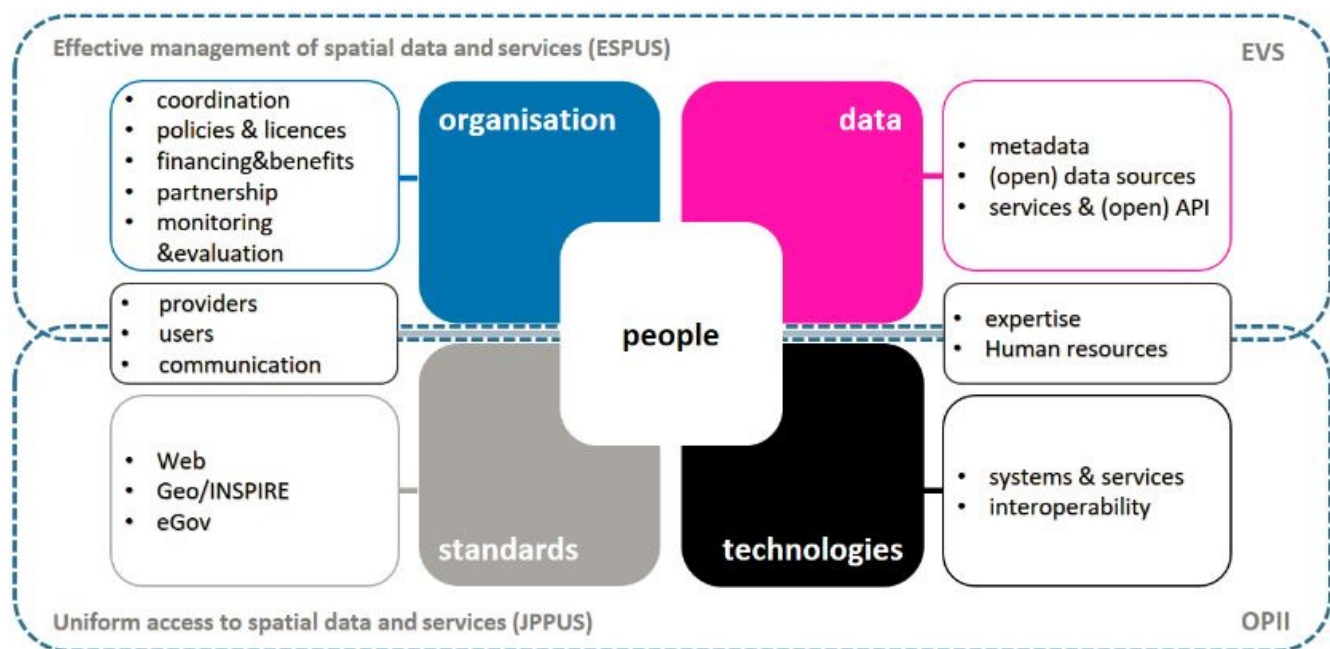
- Coordination Structure
 - Coordination of the relevant stakeholders in Slovakia is facilitated on two main levels:
 - Strategy / Main public sector stakeholders' level represented by **Coordination Committee of NSDI (NSDI Council / KR-NIPI)**
 - Technical / implementation level represented by **Expert 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
 - **Overall process of the INSPIRE implementation indicates signals of improvement, but significant amount of the work remains to be done.** The process so far, was mainly driven by the efforts in the components of the metadata, partially in network services and interoperability

(mainly for INSPIRE Annex 1), together with the rising focus on INSPIRE priority datasets and awareness of the utilisation of the Copernicus programme.

- Significant amount of the analytical and planning activities took place during the 2019 by the MoE in order to ensure necessary resources with the support from the National projects.
- Together with the fulfilment of the INSPIRE legal obligations for the harmonised spatial data and services exchange, support for the use of the digital spatial resource becomes of high importance, ensuring the synergy with the eGovernment and Open Data activities.

Functioning and coordination of the infrastructure

- Recent coordination activities mainly focused on the KR NIPI level as well as in the specific thematic groups (INSPIRE priority datasets, Hydrography, Land Cover & Use and Transport Networks).
- In order to ensure MoE can provide sufficient support for the INSPIRE implementation during the 2019 for two national projects, preparation process was completed and implementation phase has started as follows:
 - ESPUS: Effective management of spatial data and services (from 01/2020). This project is mainly focused on the resources, soft skills and implementation support for the stakeholders. Main activities will be focused on methodology framework for spatial data and services management and monitoring (area 1), harmonisation of spatial data and services (area 2), use cases demonstrating SDI in practice (area 3) and finally awareness raising activities (area 4).
 - JPPÚS: Uniform access to spatial data and services (from 09/2019). With this project, MoE will aim to provide the technology infrastructure sufficiently meeting INSPIRE legal and technical requirement as well as providing the support for stakeholders with limited or none own infrastructure.
- 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 is limited with the quality of the spatial data and services description by metadata and availability of the access to these resources via network services.
- Based on the outcomes of the survey executed during the Workshop held on requirements and expectations of the providers and users during the Czech and Slovak INSPIRE conference more than half of the participants indicated they are not monitoring the use of their spatial data. Some indicated ongoing use of certain monitoring techniques (e.g. Google analytics) and some are planning to do so.

Most of the participants came from public sector, with some representation of private and academia/research & development sector. Interesting outcomes came also addressing the question of motivation to use spatial data, whereas main drivers were identified as „Support to create added value, legal requirements and public interest“.

- MoE will continue with the activities supporting increased use of the SDI in order to demonstrate the benefits of spatial data and services availability.

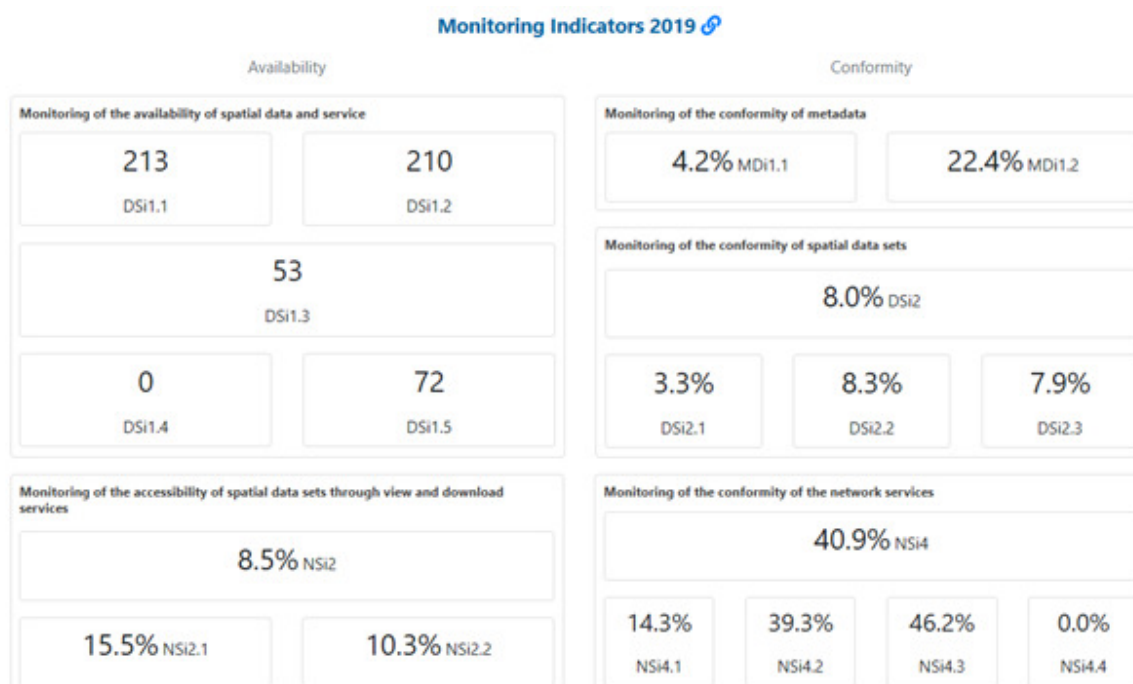
Data sharing arrangements

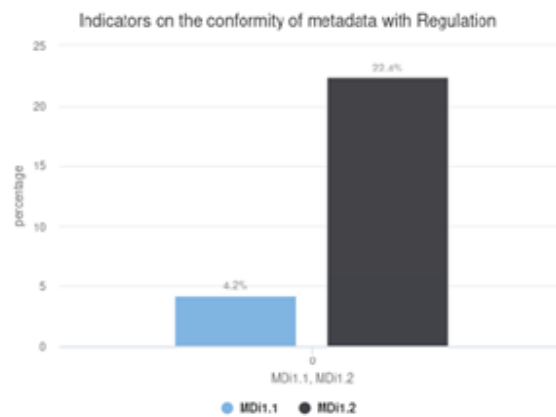
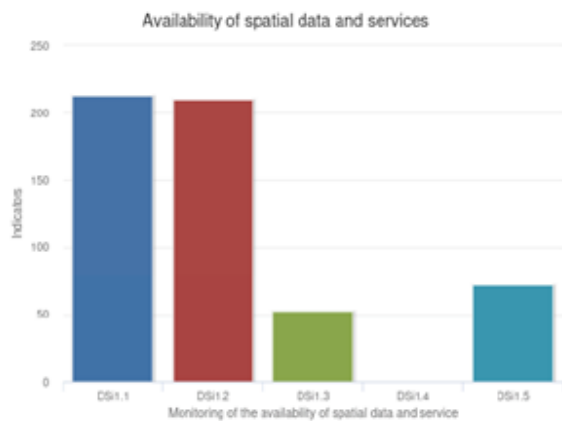
- Standardised description of the data sharing arrangements remains as significant issue in Slovakia. Except few cases, data providers are still using specific non-standardised licences as for sharing without restrictions (Open data) as well as for sharing under the restrictions.
- First examples of Creative commons standardised licences for Open data are visible in metadatada.
- There is currently ongoing activity to locate Creative commons licenses (ver.4) to 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.
- 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.

Costs and benefits

- The cost and benefits evaluation is based on the information collected in the structured information from the relevant stakeholders. It is important to highlight the information was collected based on the best available information resources collected from the stakeholders provided the information for the year 2019.
- The total indicative costs related with the INSPIRE implementation: **495 152 €** and **2139 person days** (Based on information collected by the 31.03.2020).
- From the Benefits perspective, these were identified only as indirect, although some stakeholders has not identified any benefits yet.
- Detailed information about the costs and benefits can be accessed via this summary table. Details, based on the information provided by the organisations (Some organisations, indicated limitations with collection of the information in connection to the COVID-19).

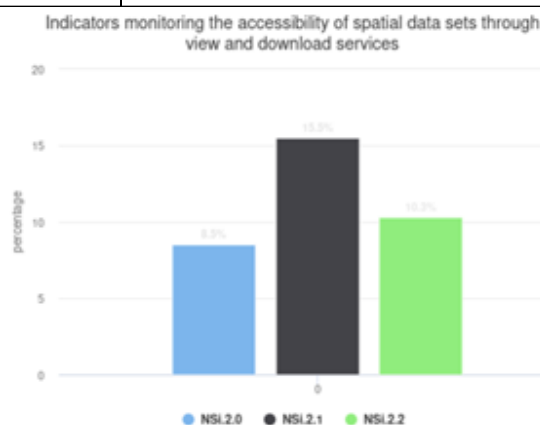
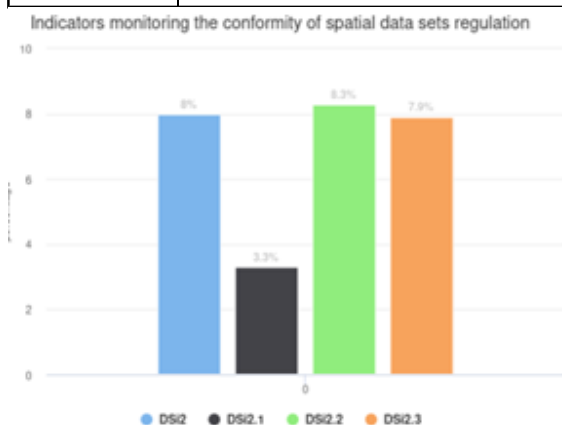
Information related to the Monitoring indicators - to be updated in Key facts and figures section:





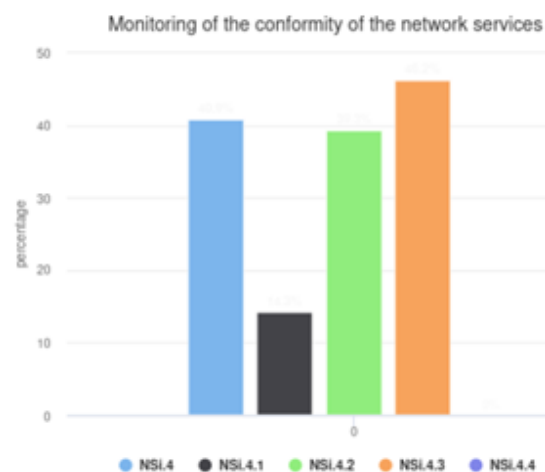
Indicator	Definition	Description
DSi1.1	The number of spatial data sets for which metadata exist	Number of all data set and series metadata records published by the Member States in their registered discovery services.
DSi1.2	The number of spatial data services for which metadata exist	Number of all spatial data services metadata records published by the Member States in their registered discovery services.
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	Number of metadata records tagged with one or more Priority data set keywords in the metadata "Keyword" element.
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	Number of metadata records tagged with the "Regional" value as SpatialScope keyword in the metadata "Keyword" element.
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	Number of metadata records tagged with the "National" value as SpatialScope keyword in the metadata "Keyword" element.
MDi1.1	Percentage of metadata for spatial data sets conformant with Commission Regulation (EC) No 1205/2008 as regards metadata	<p>This percentage value is obtained as $P_MDi1.1 = N \times 100 \div DSi1.1$</p> <p>Where N is the number of conformant metadata records the INSPIRE Geoportal verify, that successfully pass the following tests:</p> <ul style="list-style-type: none"> • "TG version 1.3 - Conformance Classes" (only for 2019 exercise) or • "TG version 2.0 - Conformance Classes" for Spatial data sets and series

MDi1.2	Percentage of metadata for spatial data services conformant with Commission Regulation (EC) No 1205/2008 as regards metadata	<p>This percentage value is obtained as $P_MDi1.2=N \times 100 \div DSi1.2$</p> <p>Where N is the number of conformant metadata records the INSPIRE Geoportal verify, that successfully pass the following tests:</p> <ul style="list-style-type: none"> •“TG version 2.0 – Conformance Classes” for Spatial Data services
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Indicator	Definition	Description
DSi2	Percentage of spatial data sets that are in conformity with Commission Regulation (EU) No 1089/2010 as regards interoperability of spatial data sets	The percentage value is obtained as $P_ (DSi2.x)=N \times 100 \div DSi1.1$
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	<p>For DSi2 indicator, N is the number of metadata dataset records with the declared conformity with Regulation 1089/2010.</p> <p>For instance, in the metadata the conformity is expressed with:</p> <pre><gmd:title> <gmx:Anchor link:href="http://data.europa.eu/eli/reg/2010/1089"> 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 </gmx:Anchor> </gmd:title></pre>
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	<p>See note [1] below for the complete requirement.</p> <p>For DSi2.x indicators, it also taken into account the presence of at least one theme listed in the relative Annex.</p>

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	For instance, in the metadata the theme keyword is expressed with: <gmd:keyword> <gmx:Anchor xlink:href="http://inspire.ec.europa.eu/theme/ac">Atmospheric conditions</gmx:Anchor> </gmd:keyword> See note [2] for the complete requirement.
NSi2	The percentage of spatial data sets that are accessible through view and the download services	The percentage value is obtained as $P_{(NSi2.x)} = N \times 100 \div DSi1.1$ Where N is the number the INSPIRE Geoportal considers: •as viewable, every data set for which at least one view network service could be correctly established/linked. •as downloadable, every data set for which: •at least one download network service could be established/linked
NSi2.1	The percentage of spatial data sets that are accessible through view services	•as downloadable, every data set for which: •at least one download network service could be established/linked
NSi2.2	The percentage of spatial data sets that are accessible through download services	•data could be successfully retrieved (from 0 up to 10Mb)



Indicator	Definition	Description
NSi4	Percentage of the network services that are in conformity with Commission Regulation (EC) No 976/2009 as regards the Network Services	The type of network service identification is based on: •Metadata element "Spatial Data Service Type", expressed for example as:
NSi4.1	Percentage of the discovery services that are in conformity with Commission Regulation (EC) No 976/2009 as regards the Network Services	<srv:serviceType> <gco:LocalName codeSpace="http://inspire.ec.europa.eu/metadata-

NSi4.2	Percentage of the view services that are in conformity with Commission Regulation (EC) No 976/2009 as regards the Network Services	odelist /SpatialDataServiceType">view</gco:LocalName> </srv:serviceType>
NSi4.3	Percentage of the download services that are in conformity with Commission Regulation (EC) No 976/2009 as regards the Network Services	Note: once the simplification option is endorsed, the necessary information about the service access point will be taken from data set metadata (Resource locator).
NSi4.4	Percentage of the transformation services that are in conformity with Commission Regulation (EC) No 976/2009 as regards the Network Services	

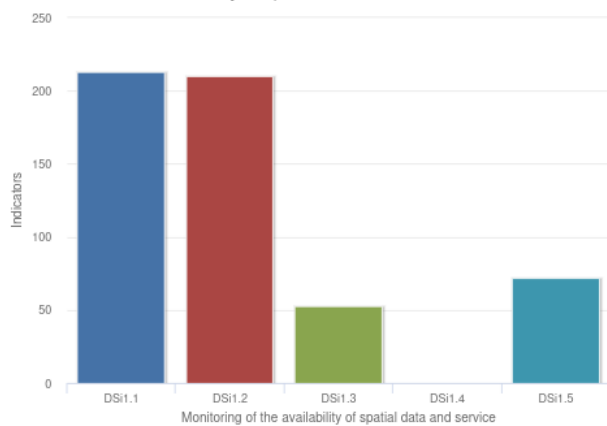
Key facts and figures

Slovakia

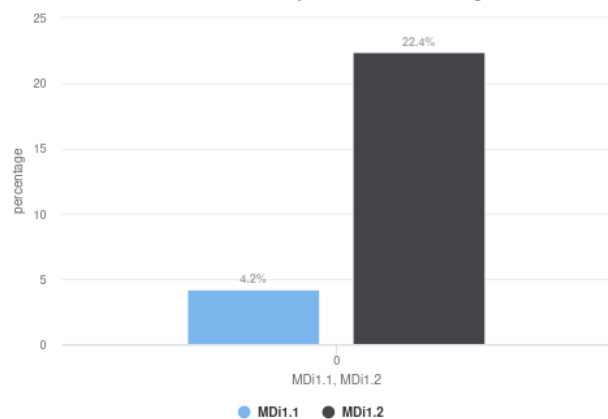
Indicators in support of Commission Decision (EU) 2019/1372 implementing Directive 2007/2/EC (INSPIRE) as regards to monitoring and reporting

Graphs generated with data taken from: https://inspire-geoportal.ec.europa.eu/mr2019_details.html?country=sk

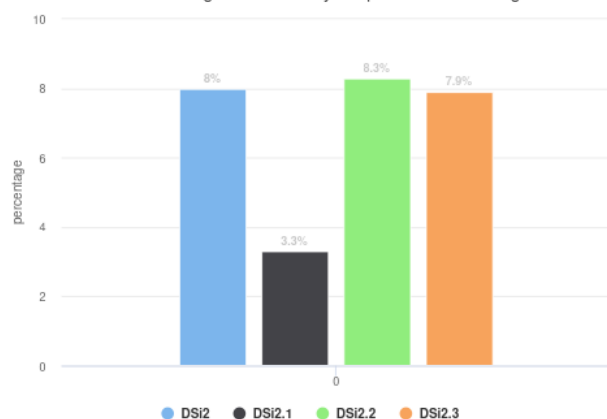
Availability of spatial data and services



Indicators on the conformity of metadata with Regulation



Indicators monitoring the conformity of spatial data sets regulation



Indicators monitoring the accessibility of spatial data sets through view and download services

