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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 2021](#) acquired in December 2021 and Member States update.

State Of Play

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

Coordination

National Contact Point

Name of Public Authority: Czech Environmental Information Agency (CENIA)

Postal Address: Czech Environmental Information Agency

Moskevská 63

Praha 10, 101 00

Czech Republic

Contact Email: [Click to email](#)

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

MIG Contacts: Contact Person: Eva Kubátová

Email: Eva.kubatova@mvcv.cz

Contact Person: Jitka Faugnerová

Email: Jitka.Faugnerova@cenia.cz

MIG T Contacts: Contact Person: Lenka Rejentova

Email: lenka.rejentova@cenia.cz

COORDINATION COMMITTEE (KOVIN)

3 member - management



16 members - public authorities



2 members – associations of regional and local authorities



1 member – GI professional association



Coordination Structure & Progress:

- National Contact point

TECHNICAL WORKING GROUPS

METADATA

DATA

SERVICES, GEOPORTALS

MONITOR./REPORTING, FINANCE

DATA SHARING, LEGISLATION

EDUCATION

STRATEGY

Name of the public authority	Czech Environmental Information Agency (CENIA)
Contact information:	
Mailing address	Czech Environmental Information Agency Moskevská 63 Praha 10, 101 00 Czech Republic
Telephone number	+ 420 267 225 226
Email address	inspire@cenia.cz , info@cenia.cz
Organisation's website URL	www.cenia.cz , http://inspire.gov.cz/
Contact person (if available)	Jitka Faugnerová
Telephone number	+ 420 725 549 970
Email address	inspire@cenia.cz
Contact person - substitute (if available)	Lenka Rejentová
Telephone number	+ 420 267 225 294
Email address	inspire@cenia.cz

Coordination Structure:

- Ministry of the Environment (MoE) is responsible for the INSPIRE implementation in the Czech Republic. MoE coordinates the infrastructure using the INSPIRE Coordination Committee established in 2010. Members of Coordination Committee are representatives of all the central bodies (Ministries) of the Czech Republic (18 members), 2 representatives of associations for regional and local authorities and one representative of the national GI association joining stakeholders from private sector, users, and universities. Changes in the coordination structure are foreseen in year 2023 due to the establishment of new agency for digitalization Digital and Information Agency (<https://digitalizace.gov.cz/>) and transfer of some of the INSPIRE responsibilities from Ministry of Interior to this agency.
- In agreement with MoE, Czech Environmental Information Agency (CENIA) is responsible for: National INSPIRE Geoportal (SW and HW maintenance and development, administration, updates, and support to users), Development of new National (INSPIRE) Geoportal, communication with data providers, communication with DG ENV and JRC, secretariat of Coordination Committee, National Contact Point and primary contacts in both, Maintenance and Implementation Groups (MIG) political and technical.

Progress:

The activities in the year 2022 were divided into the technical and non-technical ones.

Technical activities were focused namely on finalization of harmonisation of data Annex III. and on the checks of quality and availability of data sets and services at EU geoportal.

Data themes III.4 and III.6 remain unharmonised despite of the financial and human resources spent on them in 2022. Their two major projects, whose outcome is also INSPIRE harmonised data, remain unfinished due to delays caused by the suppliers. In case of data III.6 a pilot service of the information system was started at the end of 2022. Data providers theme III.6 were included in the pilot testing and preparation of transformation schemas. At the end 2023, possibly for the December monitoring, data and services should be available at EU geoportal.

Apart from harmonisation national contact point provides checks of data and services of the data providers. An automatic tool similar to the EU geoportal sandbox is foreseen in upcoming years. This tool should be one of the tools of new geoportal, whose building is now postponed to year 2024. For now a lot of manual controls must be done throughout all the year. Before the monitoring deadline it is done on daily basis.

Non-technical activities were focused on finalization of the process of amendment of INSPIRE transposition law the law 123/1998 Coll. on access to environmental information. Due to the elections in autumn 2022 legislation was again delayed. The text of the law was prepared in 2018, roles of the coordinators for each of the INSPIRE theme was defined and set in 2019. After 4 years of not having the coordinators defined in the law, it almost seems there was no need to do it.

Functioning and coordination of the infrastructure

- Coordination Committee is chaired by Deputy Minister of the Environment, co-chaired by Director of the department for the e-government of the Ministry of Interior and by vice-chair of Czech Office for Surveying, Mapping and Cadastre. Changes are expected in first half of 2023 due to the establishment of new agency for digitalization Digital and Information Agency (<https://digitalizace.gov.cz/>) and transfer of some of the INSPIRE responsibilities from Ministry of Interior to this agency. Technical working groups are established for solving specific issues of the implementation. But in last months the technical issues are solved directly with dedicated persons at individual meetings or communicated at workshops and conferences rather than at the meetings of the TWGs. This situation proves that many of the data providers are familiar with ongoing activities in INSPIRE and also, that the situation is rather stable. Instructions regarding the changes in metadata of HVDS are expected to be received during 2023. After that guidance (probably workshop as well) will be prepared on national level. There was one online meeting of the Coordination Committee in 2022.
- In accordance with the INSPIRE Implementation Strategy the concept of identification and development of National INSPIRE Datasets has concluded by identification of coordinators of INSPIRE themes. These organizations are responsible for fulfilment of the scope of the INSPIRE theme within the extent of the whole country and for all the spatial objects and their attributes required by the data specifications, if possible. They are namely listed in the amendment of law 123/1998 Co. In many cases cooperation of more data providers is needed to cover one INSPIRE theme, either because of the limited coverage of their data sets or because the management of the specific spatial data objects or attributes are responsibility of various organizations.
- The process of amendment of the law 123/1998 Coll. on access to environmental information (INSPIRE transposition) was not finished in 2022. The amendment of the law was approved by the Government in first half of the year 2022. The first reading in Parliament was not done until the end of the year. Delays are expected again. Entry into force during 2023.
- Continual increase of the quality of metadata, services and data sets can be observed. Even thou there is a limited possibility for many Czech data providers to work continuously on INSPIRE (due to lack of financial and human resources), their effort is proven by the monitoring indicators. The EU geoportal is still well appreciated as a metadata catalogue. Data and services from other EU countries can be found easily. But, there is a significant number of non hamonised data, tagged as harmonised. Czech experts sometimes need to consult harmonised data sets from other EU countries. It has been noted that it is almost impossible to find data tagged as harmonised that would pass the validation without errors. Therefore, at this advanced stage of implementation, European Commission should check the data tagged as "harmonised" and evaluate it. As the manual validation is extremely time consuming, a tool enabling the automatic validation should be put in place. On top of all that checks of content, pan European maps presenting data of the INSPIRE themes should be published at the EU geoportal. There is a demand for pan European data accessible at one place even on national level.
- Theme III.6 Utilities and Governmental Services was not completed during 2022. The project of the Ministry of Interior for building a dedicated information system needed to be postponed until end 2023 because of missing cyber security elements. The information system exists, test data sets were harmonised but only in internal network.
- National geoportal of urban planning, under coordination of the Ministry for Regional Development, that is supposed to deliver among many other functionalities also harmonised data for the theme Land use (III.4, specifically data for planned

land use) is in the public procurement procedure. First results are expected at the end of 2023.

- The situation in the theme Health and Security remains an issue, weak involvement from the Ministry of Health is believed to be overcome by the legal obligation that will be given to the Ministry by the amendment of the Czech INSPIRE law which is now in the legislative process. The ministry will become responsible coordinator of the theme Health and Security.
- After several years of implementing new way of Monitoring obligation, Czech Republic would like to raise a discussion about more effective way that would prove more precisely the real availability of data and services. The automatic approach of harvesting and later calculation of indicators is fully supported by the data providers, the only issue remaining is that it happens only day within the entire year. Accident may occur on 15th of December, like electricity cut on 15th December 2021 and all the efforts are lost.
- The issue with harvesting metadata of dataset series instead of thousands of data sets of Czech Office for Surveying, Mapping and Cadastre is ongoing. Czech Office for Surveying, Mapping and Cadastre would prefer to have individual data sets harvested rather than the data sets series as this approach of the EU geoportal may cause some data does not appear downloadable. At the same time, the problem with WCS services remains. Data provided this way is not downloadable according to the EU geoportal, because the EU geoportal (the harvesting process) cannot link the data with this type of service.
- Czech-Slovak INSPIRE conference was held in Strbske Pleso, Slovakia on 7th -8th December 2022. Two full days were dedicated to the best practice examples not only from the INSPIRE implementation, but from geoinformation field in general. New obligations were presented and discussed in detail (as HVDS) as well as the current status of implementation in Czech Republic and Slovakia presented by various stakeholders. Full program with presentations and videos is available at the conference website: <https://inspirujmese.cz/program-1/>.
- In 2022 minister of the Environment finally decided about the need of the new geoportal.

Usage of the infrastructure for spatial information

- The access to the data sources is not provided only via central portals with national relevance (e.g. National INSPIRE Geoportal - <https://geoportal.gov.cz> or National Open data portal - <http://opendata.gov.cz> or geoportal of Czech Office for Surveying Mapping and Cadastre - <https://geoportal.cuzk.cz>), but there are also many other sources. Domain specific geoportals exist and provide source geodata and services and are successfully in use mostly by the domain users. List of these geoportals is available via National INSPIRE geoportal at: <https://geoportal.gov.cz/web/guest/other-portals>
- Development of these portals is still ongoing:
 - Information system for Utilities and Governmental services under coordination of the Ministry of the Interior
 - National geoportal of urban planning, under coordination of Ministry for Regional Development
 - Digital Technical Map of the Czech Republic, coordination shared among Ministry for Regional Development, Czech Office for Surveying Mapping and Cadastre and Regional Authorities.
 - Only the project of the Digital Technical Map of the Czech Republic is running according to the time plan without delays.
- The National MD / data harvesting is functioning well therefore MD users have usually several options to find and use published spatial data
- The use of National INSPIRE services (registered on EU Geoportal) is due to the limited data content often lower than of the services providing more detailed data required for national e-Government agendas (e.g., via Base Register of Territorial Identification, Addresses and Real Estates).

Data sharing arrangements

- Data providers are being pushed more and more into opening their data. Some data providers are working on changes of the legislation prescribing limited access and fees for their data and services. This all align with the principles of the Open Data directive. CC 4.0 is considering to be the maximum required by the data providers, however there are still data providers whose conditions of use are very limited.
- CENIA in cooperation with the Ministry of Interior supports the data providers in technical aspects of opening their spatial data. Many data providers publish their INSPIRE data also in the National Open Data Catalogue: (<https://opendata.gov.cz/>). CENIA promised to investigate what is the relation between the Czech open data portal and the EU version of open data catalogue (<https://data.europa.eu/en>). Outdated data sets and wrong resource catalogues has been found. A presentation about this portal would be welcome at some of the next MIG-P meetings.

Costs and benefits

- Missing funds for finalisation of the harmonisation have been discussed recently with the Ministry of the Finance. The ministry have promised to assess the needs for new funds and personnel during the negotiations about the budget for upcoming years. This reassurance supported the smooth legislative process and a common agreement before presenting

the amendment of the “INSPIRE law” (aw 123/1998 Coll. on access to environmental information) to the government.

- Benefits have not been financially quantified; however, among major benefits are:
 - Better accessibility of data
 - Data available in open format (GML)
 - Ability to carry out analysis on up-to-date, reliable data (in this case payments for data seemed not to be an issue that big as analyses published using outdated data)
 - Existence of new jobs because spatial data is used more and more in official agendas of public organizations
 - Innovation potential (new services, apps) stems from the availability of standardized services, open data and ICT development.
 - Contribution to cross-border and/or EU projects and services
 - Smooth cooperation among all the data providers across the sectors

Key facts and figures

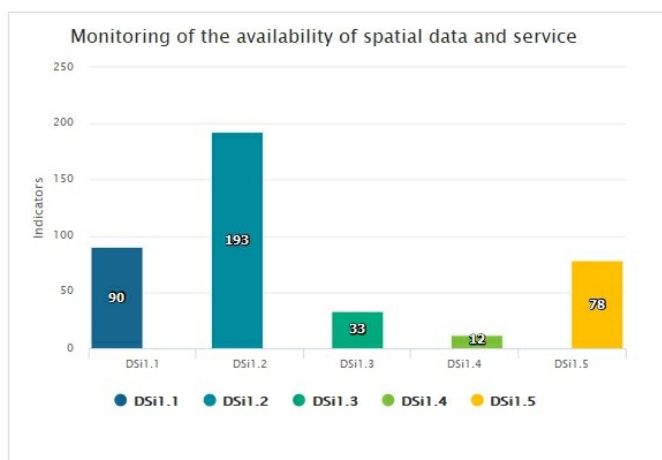
Czech Republic

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/mr2022_details.html?country=cz

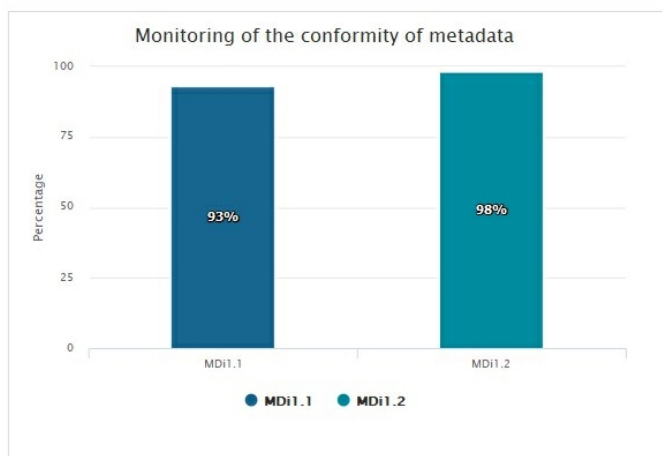
The date of harvest metadata: 2022-12-19, 20:04:27

Endpoint: 8b722540-763d-4ea2-985e-9bcf6bfe82ca



Legend

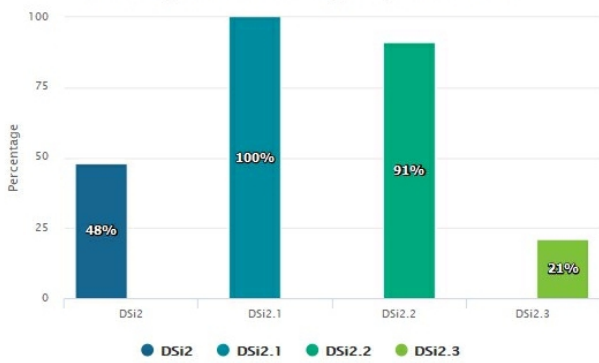
Indicator	Definition
DSi1.1	The number of spatial data sets for which metadata exist
DSi1.2	The number of spatial data services for which metadata exist
DSi1.3	The number of spatial data sets for which the metadata contains one or more keywords from a register provided by the Commission indicating that 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



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

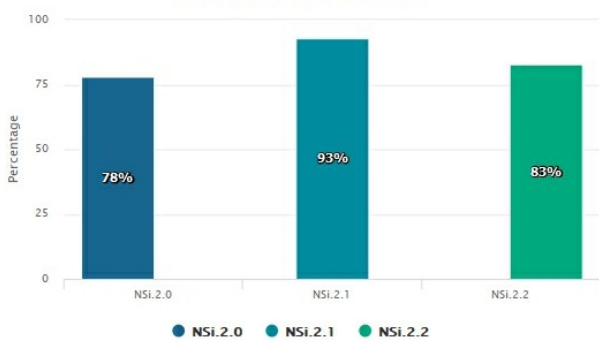
Monitoring of the conformity of spatial data sets



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

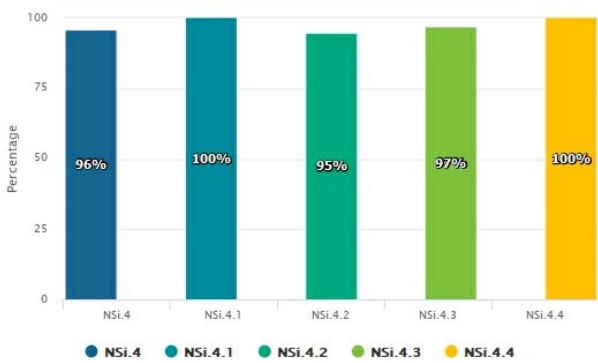
Monitoring of the accessibility of spatial data sets through view and download services



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