

Table of Contents

- Introduction
- State of Play
 - Coordination
 - Functioning and coordination of the infrastructure
 - Usage of the infrastructure for spatial information
 - Data Sharing Arrangements
 - Costs and Benefits
- Key Facts and Figures.
 - Monitoring Indicators

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 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: CENIA, Czech Environmental Information Agency

Vršovická 1442/65

Praha 10, 100 10

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

Contact Person: Jiří Poláček

Email: jiri.polacek@cuzk.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	CENIA, česká informační agentura životního prostředí
Contact information:	
Mailing address	Vršovická 1442/65, Praha 10, 100 10
Telephone number	+ 420 267 225 226
Telefax number	+ 420 271 742 306
Email address	inspire@cenia.cz , info@cenia.cz
Organisation's website URL	www.cenia.cz
Contact person (if available)	Jitka Faugnerová
Telephone number	+ 420 267 225 308
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 and Central Authorities) 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.
- In agreement with MoE, CENIA, Czech Environmental Information Agency, oversees National INSPIRE Geoportal (SW and HW maintenance and development, administration, updates, and support to users), ensures 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 full year of pandemic restrictions has made the national coordinators to focus mainly on the technical aspects of the implementation, while the non-technical has lagged behind. New tools supporting the data providers in creation of metadata 2.0 have been published at the national INSPIRE geoportal (<https://geoportal.gov.cz>). Czech data providers

have had the opportunity to create and validate their metadata; support has been provided by publication of a metadata handbook, a video guidance, and a record from a metadata webinar. Based on that a significant progress has been made in reaching metadata 2.0 compliance, consequently, in increasing the score of monitoring indicators.

The non-technical aspects of the implementation, such as the amendment of the Law on INSPIRE, described already in the Country fiche 2020, are currently delayed. On contrary a substantial intent of an act on National Spatial Data Infrastructure, being the umbrella law for the national and the INSPIRE infrastructure, was prepared within the year 2020. A significant time has been devoted to the relation of the current INSPIRE law and the planned NSDI law.

Preparatory works for an update of the Strategy for development of infrastructure for spatial information in the Czech Republic till 2020 have started.

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. Practical implementation issues are solved in dedicated Technical Working Groups. Results from the Technical Working Groups are implemented by each of the data providers.
- Physical meetings of the Coordination Committee were influenced by the pandemic restrictions. One meeting was held as usual, two meetings online.
- 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. 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.
- During the year 2020 the legislative process of the amendment of a law 123/1998 Coll. on access to environmental information, which also includes transposition of the INSPIRE Directive in the Czech Republic started. Before the end of the year comments were received, however due to major comments of the Ministry of Finance, not all the comments could have been proceeded.
- The quality of metadata, services and data itself has improved due to the coordinated approach taken. Increasing the quality has been supported by making available new EU geoportal and validator. EU geoportal is well appreciated, because it demonstrates, in a clear and user-friendly way, the level of implementation of INSPIRE data themes in all EU countries. By promoting the data accessibility in comparison with other EU countries, the geoportal supports quicker implementation in some institutions. Consequently, the number of datasets published on EU Geoportal has increased and remains stable. Stable validation tools for finishing the data harmonisation are now needed. Data providers need to make the “final check” before publishing their data as harmonised.
- The project focusing availability and harmonisation of the theme Utilities and Governmental services under the lead of the Ministry of Interior is well set. Based on an Agreement of horizontal cooperation between the Ministry of Interior and CENIA, Czech Environmental Information Agency works on building an information system for this theme. Despite recent progress, a delay caused (again) by the pandemic restrictions can be expected.
- Large improvement is expected in the theme Land use (III.4), as the responsible ministry, Ministry for Regional Development, is now building a National geoportal of urban planning within an EU co-funded project. One of the outputs of the project is also INSPIRE compliant data sets for the theme Land use (specifically data for planned land use). However, first results are expected in July 2023.
- The situation in the theme Health and Security remains an issue, strengthened by the pandemic situation, when all the ICT employees of the Ministry of Health fully dedicate their worktime to information systems related to covid. Negotiation with this ministry will continue when the situation gets more stable.
- The data providers have been informed about the transition to metadata 2.0 and the need of having it finished before 15th December 2020. However, due to technical issues that needed to be solved on the side of the provider of the national catalogue service (CENIA), the transition from metadata 1.3 to 2.0 actually happened between October and end of November 2020. Despite this very short period, the results are satisfactory. Although one major technical issue on the side of the JRC validator was reported rather late. Solving of this issue is expected in upcoming weeks. Particular errors in metadata will be explained to each of the data provider.
- Currently, in case of INSPIRE data sets of Czech Office for Surveying, Mapping and Cadastre only metadata of dataset series are harvested on the European INSPIRE Geoportal. This approach has been applied because several dataset series contain a high number of datasets (in tens of thousands) and it is much more convenient for the users to search for the whole series rather than for each particular data set. This approach was agreed by JRC at the early implementation stage; however this may cause some data does not appear downloadable at the European INSPIRE Geoportal. Therefore, it can affect the monitoring results. There have been several attempts to solve this issue (for example within the MIG-T group).
- Czech-Slovak INSPIRE conference was planned for 8th and 9th October 2020, in addition Copernicus themes were supposed to be included. The conference was cancelled in mid-September 2020 and was not replaced by the online version. The conference was replaced by a set of three two hours long webinars in November dedicated to metadata

(10th November), data harmonisation (18th November) and new National INSPIRE geoportal (25th November). The webinar did not replace the full program of the planned conference, the full conference will be organised probably in late 2021, or in 2022. Outcomes of the webinars available: <https://inspirujmese.cz/den-s-inspire-2020/>

- National INSPIRE geoportal is not a reliable and a stable system anymore. Some of the functionalities (not directly related to INSPIRE) had to be removed after the transfer from the original to the new hardware infrastructure. The need of the new geoportal has been discussed since 2016. In 2020 the feasibility study for a new geoportal has been started. Two ways of building INSPIRE geoportal have been presented. First, geoportal similar to today's one with functionalities related to INSPIRE, second, a national geoportal including functionalities for INSPIRE, but also of the Czech e-government. At the date of the reporting the final decision has not been made yet and the feasibility study remains unfinished.

Usage of the infrastructure for spatial information

- In general, use of spatial data and services is continuously increasing. 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>. This link contains also links to the geoportals of 14 Czech regions. These regional geoportals are usually source of information about geoportals of cities and municipalities within the region.
- Four new portals/systems with high relevance for INSPIRE are planned or under development. These portals should solve issues of a specific domain and at the same time the INSPIRE obligations.
 - 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
 - Statistical Geoportal, under coordination of Czech Statistical Office, focused on geographical dissemination of Census 2021 data, including infrastructure of network services for publication and sharing of INSPIRE themes Population distribution (III.1) and Statistical units (III.10).
- The National MD / data harvesting is functioning well therefore 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 - RUIAN).

Data sharing arrangements

- Already in 2019 efforts were made within the Coordination Committee to use Creative Commons licence (CC 4.0). Czech translation of this licence was approved and officially published in 2020. Many of the data providers already use this licence or started in 2020. But there are still some data providers whose legislative burdens prevent them from making data available under the CC 4.0.
- From the technical point of view a new code list offering CC as one of the options was introduced to the document National metadata profile. The data providers were asked to follow the new updated metadata profile and use the code list. Also, the metadata editor of the national INSPIRE geoportal was updated in autumn 2020 to include this code list.
- Many data providers publish their INSPIRE data as the open data to National Open Data Catalogue (<https://opendata.gov.cz/>)

Costs and benefits

- Regulation impact assessment (RIA) accompanying amendment of the "INSPIRE law" (law 123/1998 Coll. on access to environmental information, which also includes transposition of the INSPIRE Directive in the Czech Republic) has showed that data providers have spent over 10 mil Euro for the INSPIRE implementation without receiving funding from the state budget. Finalisation of the implementation will (the most complicated data harmonisation) will cost another 3,7 mil Euro, which raise a conflict between the data providers and the Ministry of Finance. The costs for the implementation are obvious but treated as ineligible. It is important to note, that this may have an impact on the success of the final years of implementation.
- Benefits were not precisely financially quantified; however, these are the major benefits agreed by the Coordination Committee:
 - Better accessibility of data in general
 - 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

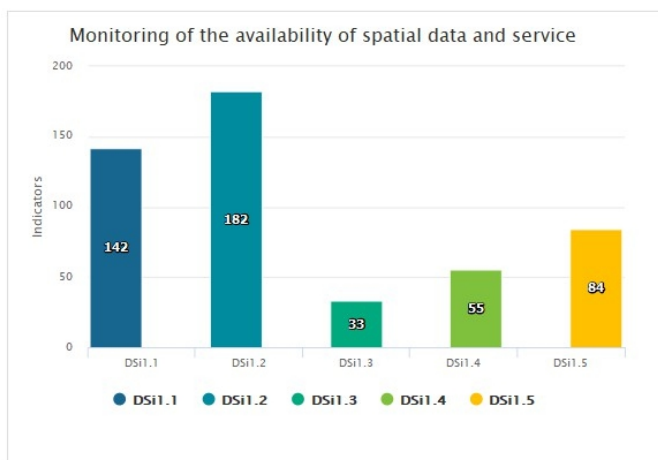
Key facts and figures

Czech Republic

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

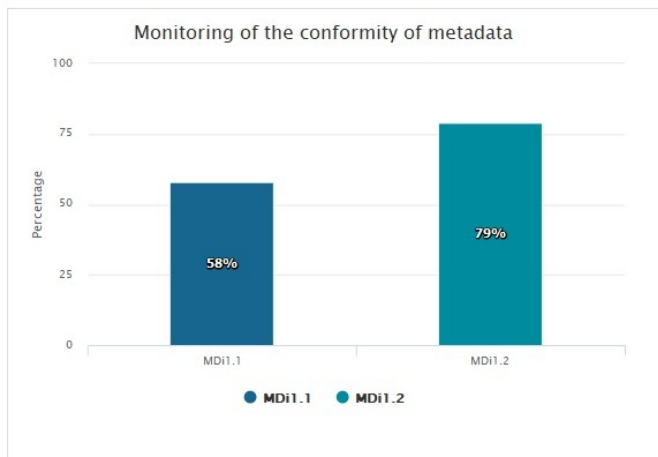
Graphs generated with data taken from: https://inspire-geoportal.ec.europa.eu/mr2020_details.html?country=cz

The date of harvest metadata: 16/12/2020



Legend

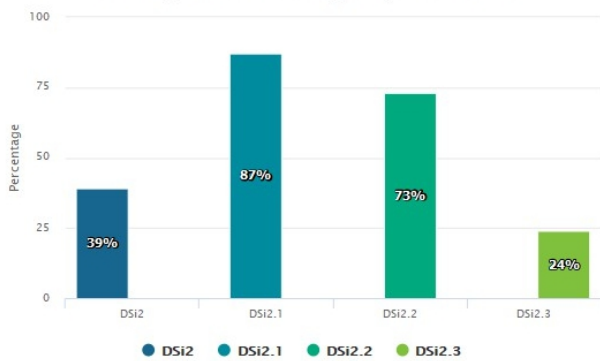
Indicator	Definition
● DSi1.1	The number of spatial data sets for which metadata exist
● DSi1.2	The number of spatial data services for which metadata exist
● DSi1.3	The number of spatial data sets for which the metadata contains one or more keywords from a register provided by the Commission indicating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

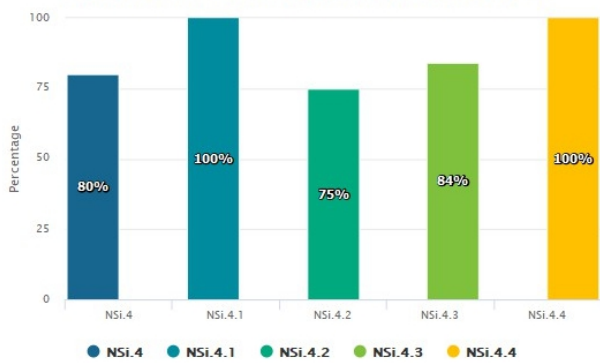
Monitoring of the accessibility of spatial data sets through view and download services



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