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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 2022](#) acquired in December 2022 and Member States update.

State Of Play

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

Coordination

National Contact Point

Name of Public Authority: Ministry of Interior

Contact Email: [Click to email](#)

National INSPIRE Website: <https://www.geonovum.nl/geo-standaarden/inspire-europese-leefomgeving>

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Coordination Structure & Progress:

- **National Contact point**

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- **Coordination Structure**

- **Progress**

- The coordination structure for the INSPIRE implementation has been changed in line with the Dutch vision on INSPIRE of 2021. The coordination structure, in place since 2022, provides better support for benefit management and it broadens the scope to other European data initiatives.
- The use of the INSPIRE infrastructure for monitoring of environmental directives was promoted. Reporters of environmental directives were advised on the use of INSPIRE. The implementation gap concerning environmental data is closed for the most part.
- The harmonization of Annex I has been completed (with a few exceptions). The harmonization of Annex II and III is ongoing.
- The Netherlands have drawn up a vision for INSPIRE after 2020.
- INSPIRE is connected with important developments within the Dutch Government such as recently the Key Registry of the Subsurface.
- Activities for making HVD accessible are taken up jointly by the responsible departments.

Functioning and coordination of the infrastructure

- The vision paper Geosamen (the Netherlands' views on the future of the geosector) sees INSPIRE as an important building block of the GEO data infrastructure.
- INSPIRE is part of the Dutch geo-community and embedded in the Dutch geo-information infrastructure. Thus far the implementation of INSPIRE has followed a pragmatic approach, aiming at satisfying the legal obligations, using base

registries and their national services.

- The Dutch approach to assign to the data themes only custodians for the most suitable data sets has proven to be efficient: it has limited the burden of implementation and the quality is relatively high.
- The use of the INSPIRE infrastructure for monitoring of environmental directives was promoted. Reporters of environmental directives were advised on the use of INSPIRE. The implementation gap concerning environmental data is closed for the most part.
- INSPIRE is connected with important developments within the Dutch Government such as recently the Key Registry of the Subsurface.
- Activities for making HVD accessible are taken up jointly by the responsible departments.
- The endorsed good practice of data-service linking simplification is promoted. Many data providers are going to use this method. This will positively influence the monitoring results in 2023. It is still necessary that the INSPIRE geoportal is adapted to this method.
- The core of the INSPIRE programme of quality assurance in the Netherlands is formed by:
 - The functioning of a sounding board (INSPIRE dataproviders). In the coordination structure since 2022 the responsibilities of the INSPIRE board are replaced by a board that's responsible for the entire Dutch SDI (GI-Beraad).
 - The recording of data sets that must be disclosed for INSPIRE in a register.
 - The use of tooling, the control panel and validators, showing the INSPIRE implementation status.
- INSPIRE has been important for the visibility, quality and availability of geospatial information.

Usage of the infrastructure for spatial information

- To facilitate the use of services a number of tools have been developed, such as the Dutch QGIS plugin to INSPIRE. Services are also used in many applications without direct intervention of the data provider
- Open geodata, is automatically from the National Georegister delivered to the open data portal. Half of the open data in the Netherlands is geodata.
- The Netherlands, along with Belgium, organized the INSPIRE conference 2018 on 18-21 September 2018 in Antwerp. This conference has helped to highlight the challenges still ahead in order to INSPIRE data for different purposes can be used across borders.
- The usage of the INSPIRE services available in the discovery service has strongly increased the last 3 years.

Data sharing arrangements

- The open data policy removed for most datasets barriers to re-use. The datasets that fall under the INSPIRE are legally and economically accessible to all parties.
- In 2014 the Creative Commons license has been approved for use. It was agreed to make use of geo-information for the conditions of use with creative commons, except where this is not possible.
- INSPIRE datasets are available under Public Domain (52), CC0 (97) and CC-BY(32) licenses. Only one dataset has limitations on public access.

Costs and benefits

- After almost fourteen years of implementation, the costs are higher than were assumed in 2009. This is due to the lack of experience of implementation back in 2009, and the continuing complexity. The benefits are still difficult to quantify, but the qualitative and strategic benefits are no doubt significant. In 2023 we will reduce the complexity by using the endorsed good practice of data-service linking simplification.
- INSPIRE has proved its value, but the coming years will focus on the demand side, for instance by linking INSPIRE to the environmental reporting obligations.
- The Netherlands will focus on active benefitmanagement to gain better insights in the realized benefits for citizens, businesses, and administrations.

Key facts and figures

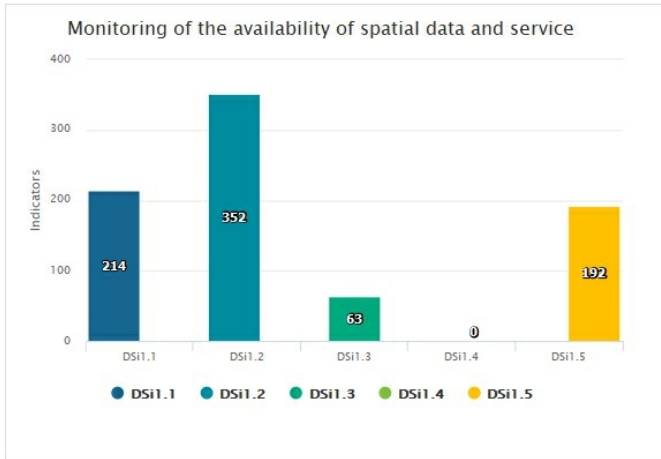
Netherlands the 

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=nl

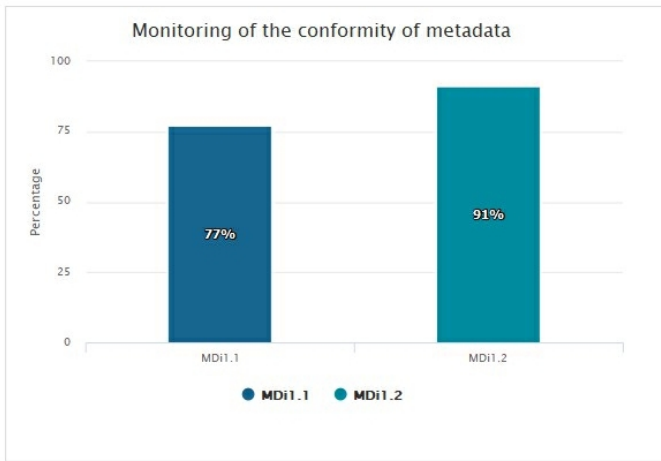
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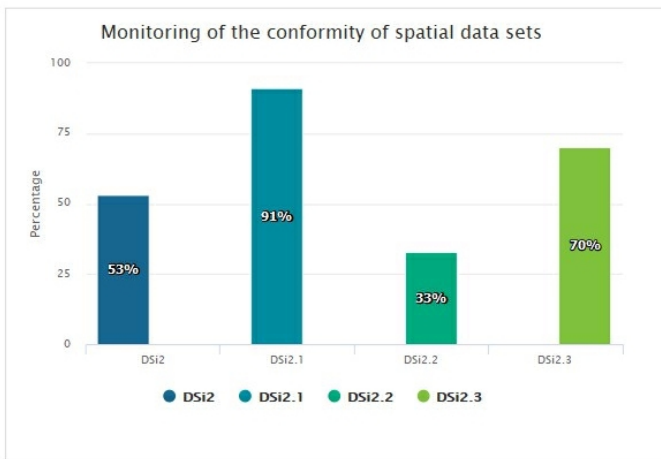
Legend

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

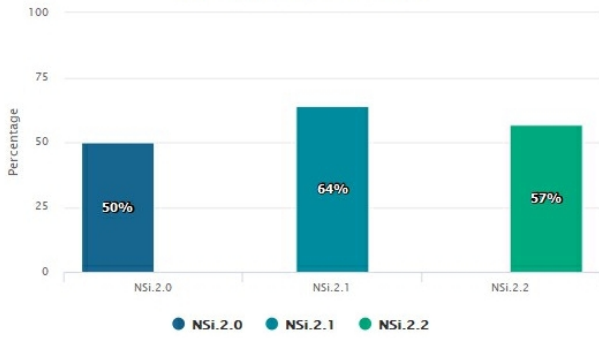
Indicator	Definition
MDi1.1	Percentage of metadata for spatial data sets conformant with Commission Regulation (EC) No 1205/2008 as regards metadata
MDi1.2	Percentage of metadata for spatial data services conformant with Commission Regulation (EC) No 1205/2008 as regards metadata



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

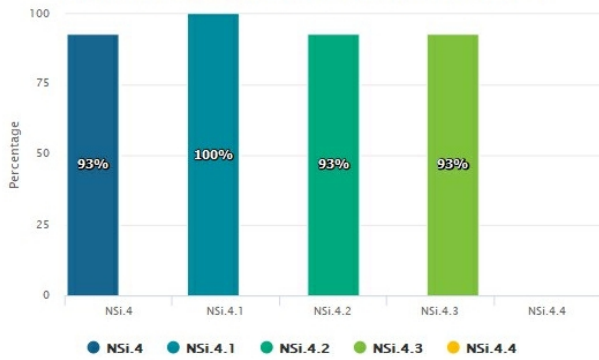
Monitoring of the accessibility of spatial data sets through view and download services



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