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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 May 2019** 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 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>

MIG Contacts: Contact Person: Christiaan de Jong

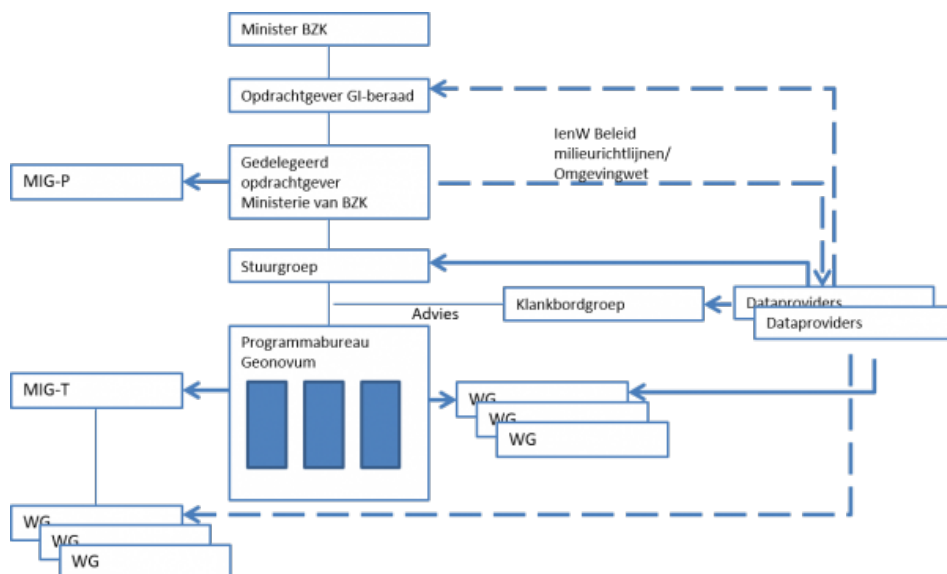
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Coordination Structure & Progress:

- **National Contact point**

Name of the public authority	Ministry of the Interior and Kingdom Relations
Mailing address	P.O. Box 20011, 2500 EA The Hague The Netherlands
Telephone number	+31 77 465 67 67
Organisation's website URL	https://www.government.nl/ministries/ministry-of-the-interior-and-kingdom-relations/contact
Contact person (if available)	Mr Noud Hooyman
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- **Coordination Structure**

- **Progress**

- The coordination structure for the INSPIRE implementation over the past 3 years was unchanged.
- Belgium and the Netherlands have organized the INSPIRE conference 2018.
- 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 planning for the harmonization of Annex II and III has started.
- The Netherlands have drawn up a vision for INSPIRE after 2020.
- INSPIRE is connected with important developments within the Dutch Government such as the digital system for the Omgevingswet (Environment Act).
- The Make it Work (MiW) initiative for drafting principles for smart environmental reporting was finished.

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 the digital system for the Omgevingswet (Environment Act).
- The Make it Work (MiW) initiative for drafting principles for smart environmental reporting was finished.
- The core of the INSPIRE programme of quality assurance in the Netherlands is formed by:

- The functioning of a sounding board (INSPIRE dataproviders).
- 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 (89), CC0 (86) and CC-BY(29) licenses. Only one dataset has limitations on public access.

Costs and benefits

- After almost ten 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.
- 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

In addition to the above mentioned issues, the implementation of INSPIRE Directive requires Member States to take four main steps in relation to management of spatial datasets which fall under the Directive:

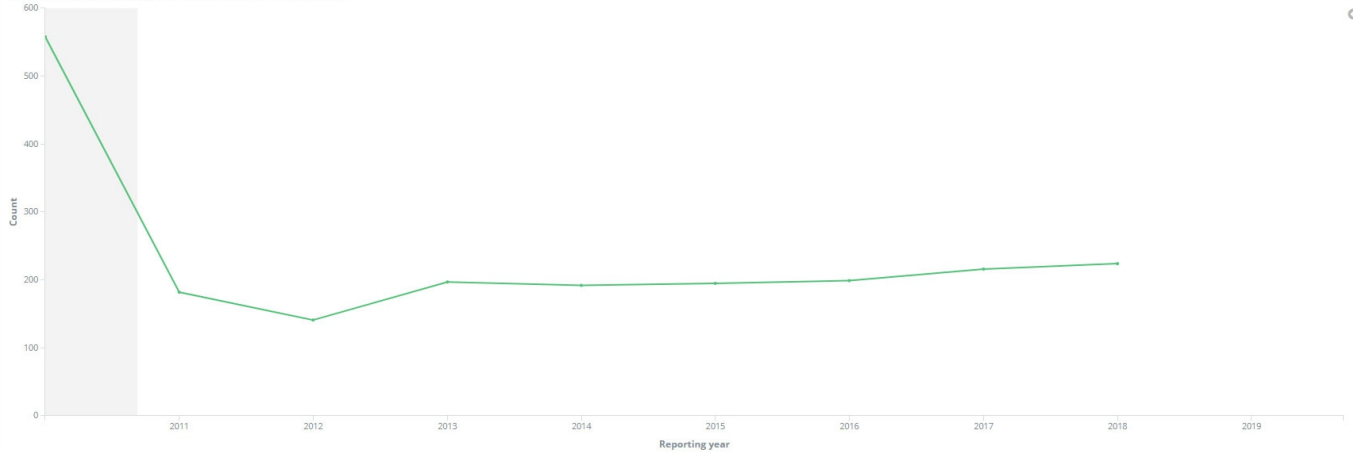
- Step 1: Identify spatial datasets
- Step 2: Document these datasets (metadata)
- Step 3: Provide services for identified spatial datasets (discovery, view, download)
- Step 4: Make spatial datasets interoperable by aligning them with the common data models.

The key facts and figures presented in this country fiche are based on the information provided by Netherlands on the [INSPIRE dashboard](#). **The provided statistics is not reflecting the data available on INSPIRE geoportal.** The INSPIRE geoportal is updated on a regular and ongoing basis, whilst the INSPIRE dashboard is typically updated after every reporting round, on a yearly basis.

The conformity of the implementation is assessed against the full set of legal specifications set out by the Directive and the Implementing Rules and the commonly agreed good practices set out by the technical guidelines.

Identification of spatial data with relevance to the environment (step 1)

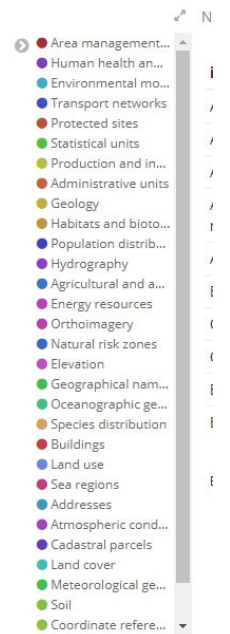
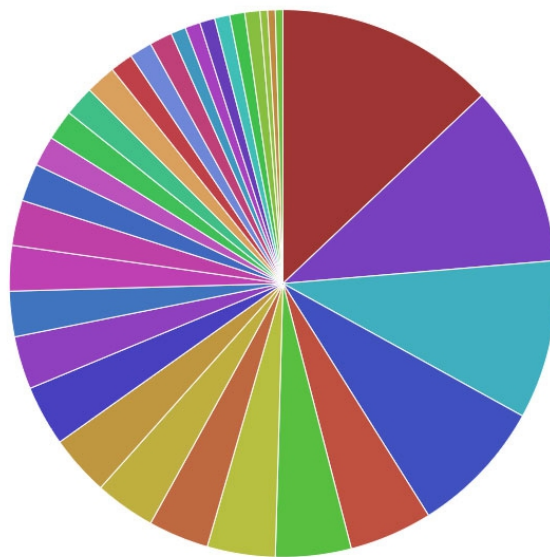
Indicator / Number of spatial data sets for all annexes (DSv_Num)



Country fiche / datasets by annex

Data sets made available per INSPIRE theme (reference year 2018)

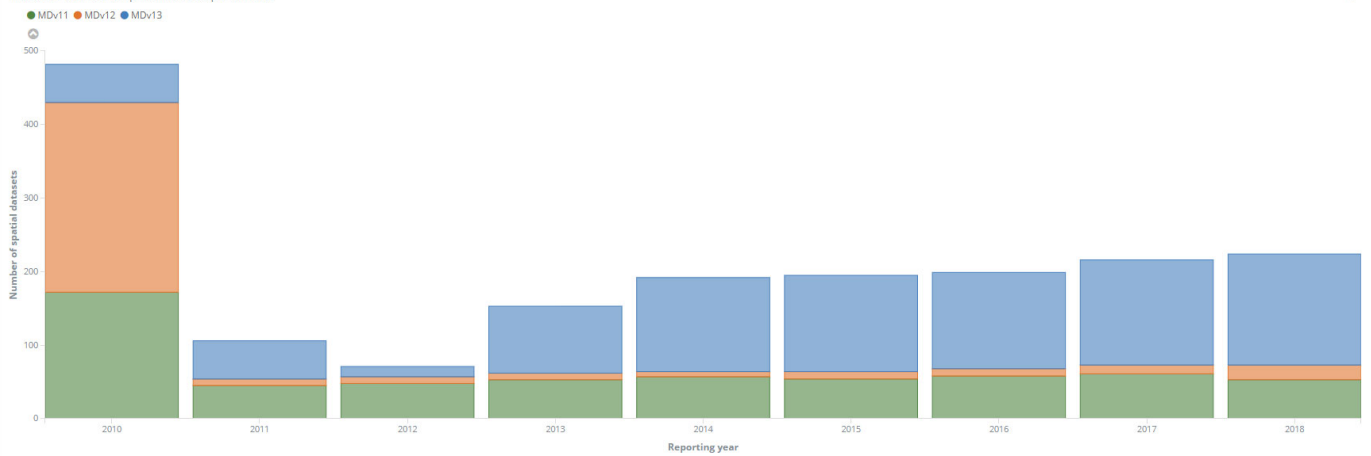
INSPIRE Raw data (datasets) by themes



Country fiche / datasets by themes

Data sets made available per INSPIRE theme

Indicator / Number of spatial data sets per annexes



Country fiche / Documentation of the data

MDv1.1: number of spatial data sets for Annex I that have metadata

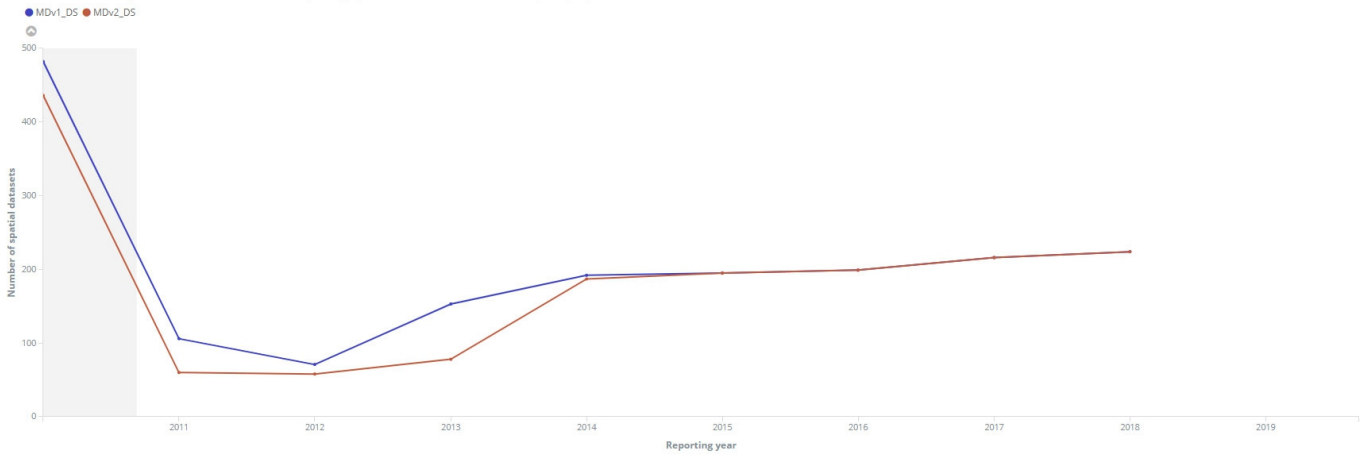
MDv1.2: number of spatial data sets for Annex II that have metadata

MDv1.3: number of spatial data sets for Annex III that have metadata

Documentation of the data (metadata) (step 2)

Evolution of documented data and conformity of the documentation

Indicator / Number of spatial data set that have metadata (MDv1_DS) and have conformant metadata (MDv2_DS)



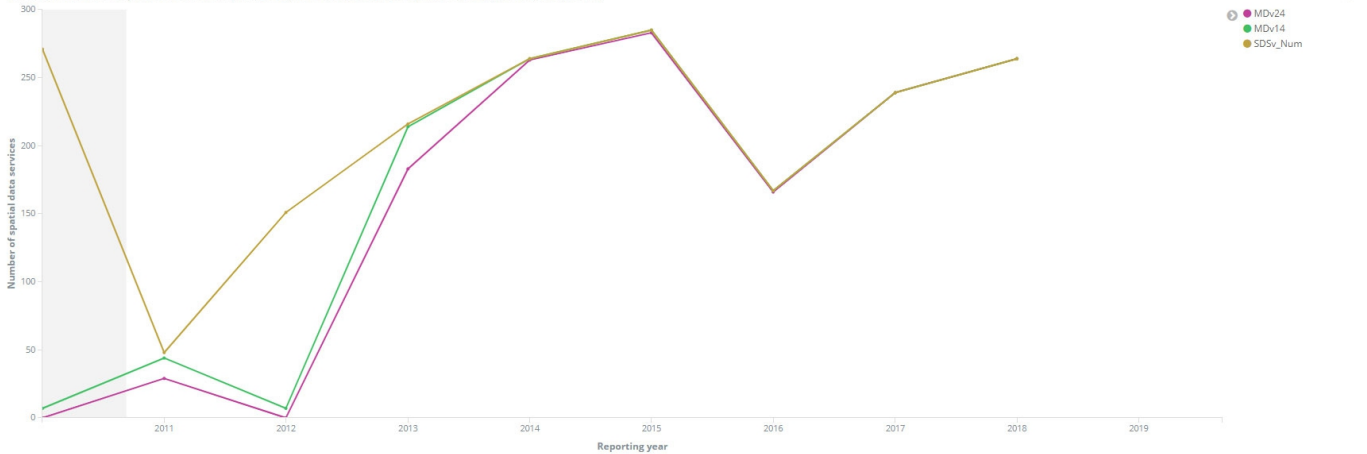
Indicator / Number of conformant spatial data sets per Annexes



Country fiche / Evolution of documented services and conformity of the documentation

Evolution of documented services and conformity of the documentation

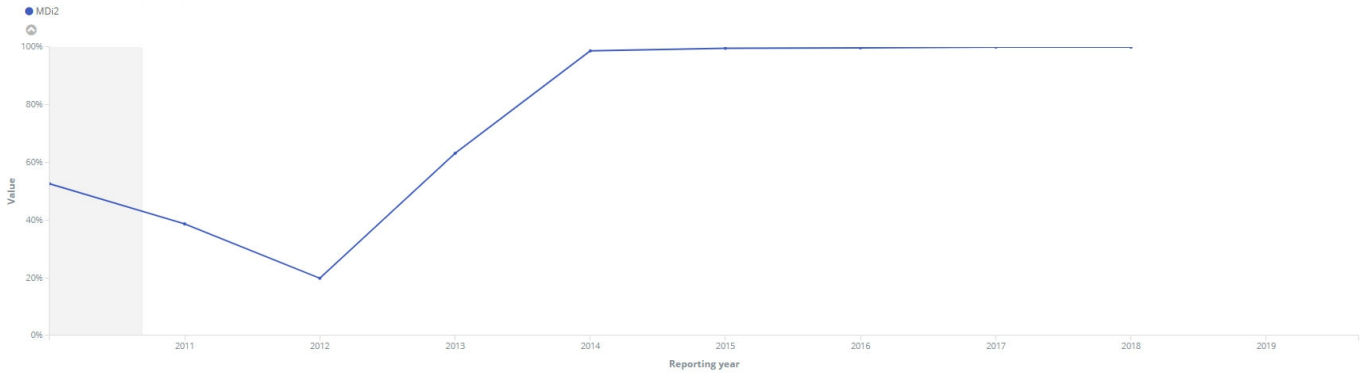
Indicator / Number of spatial data services (SDSv_Num) with metadata (MDv14) and conformant metadata (MDv24)



Country fiche / Evolution of the overall conformity of the documented metadata

Evolution of the overall conformity of the documented metadata

Indicator / Percentage of spatial data sets and services with conformant metadata (MDI2)

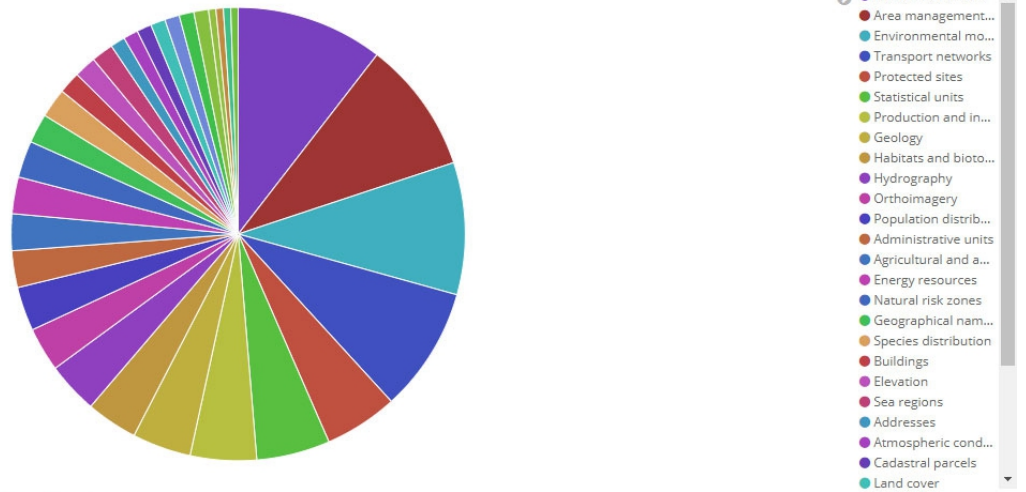


Country fiche / accessibility

Accessibility of the data through digital services (step 3)

Digitally accessible spatial data per INSPIRE theme (reference year 2018)

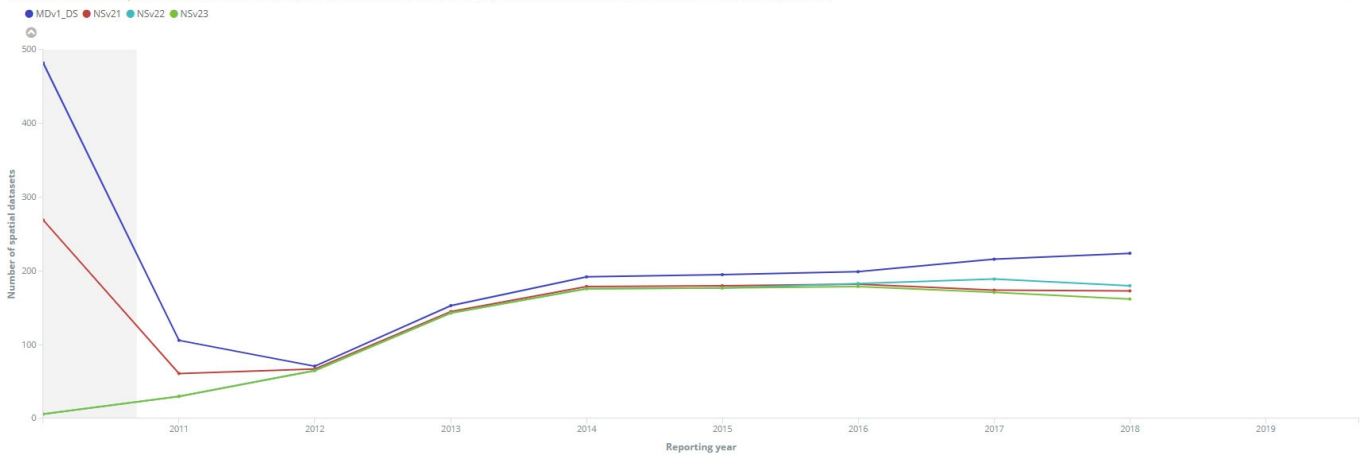
INSPIRE Raw data (datasets available through services) by themes

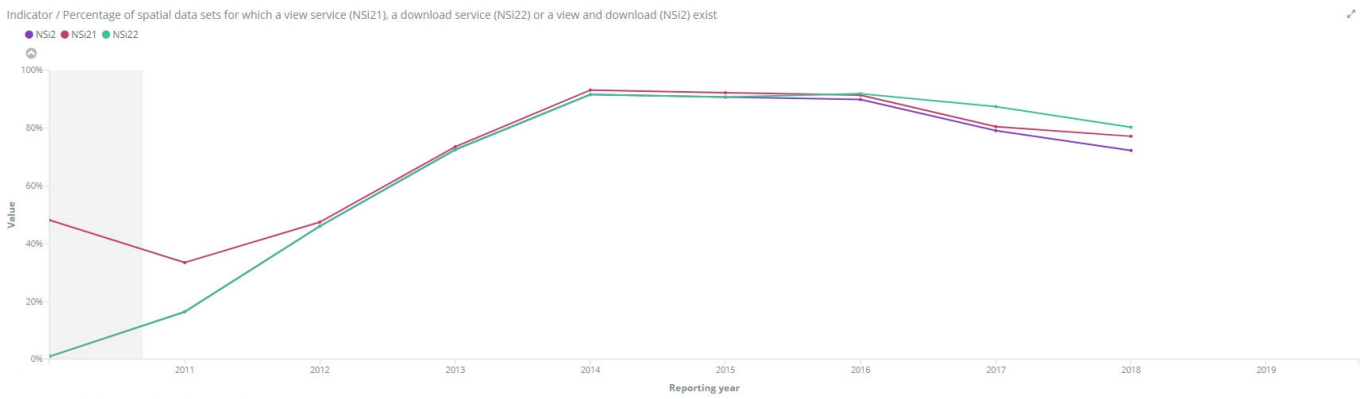


Country fiche / Evolution of spatial data accessible through services

Evolution of spatial data made accessible through digital services

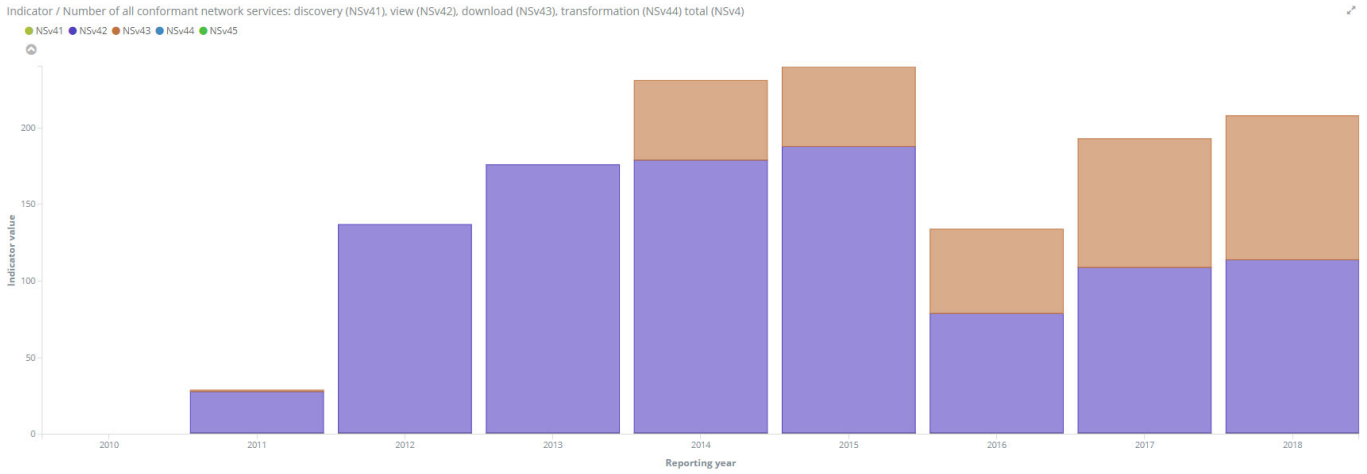
Indicator / Number of spatial data sets for which a view (NSv21) or download (NSv22) or both (NSv23) service exist and the total number of metadata (MDv1_ds)





Country fiche / Evolution of the conformity of the digital services

Evolution of the conformity of the digital services

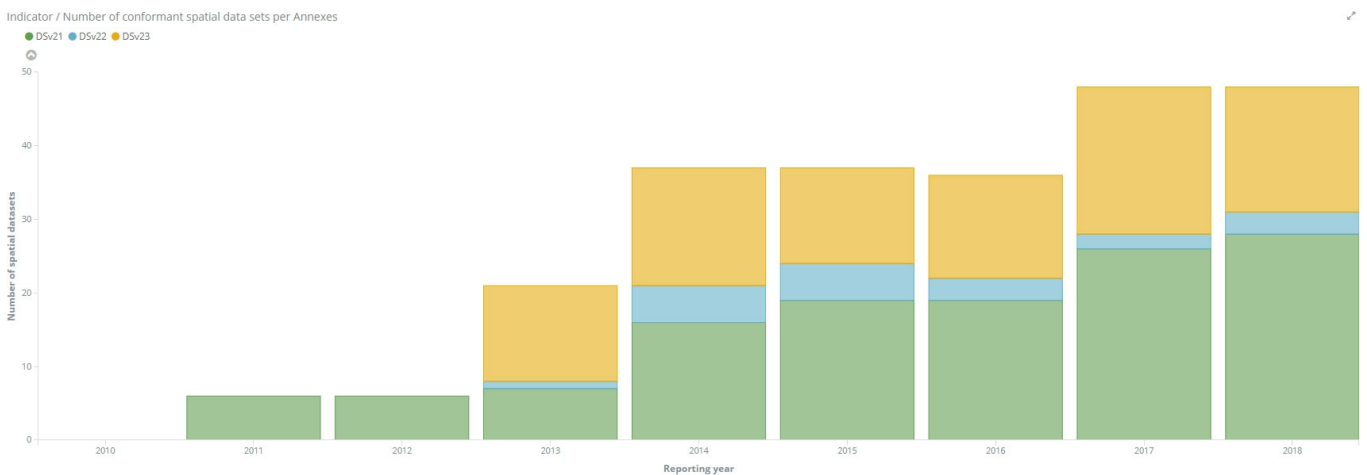


Country fiche / Interoperability

Interoperability of spatial data sets (step 4)

The interoperability of spatial data sets is an outlook on the readiness of Member States to make their spatial data interoperable according to the interoperability specifications laid down in the INSPIRE interoperability implementing regulation (Commission Regulation (EU) No 1089/2010 <http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:02010R1089-20131230&qid=1400675738563>). The deadlines for implementation of the spatial data interoperability are 23/11/2017 for Annex I data and 21/10/2020 for Annex II and III data.

Evolution of the conformity with INSPIRE interoperability specifications for spatial data



- DSv2.1: number of conformant spatial data sets with conformant metadata for Annex I
- DSv2.2: number of conformant spatial data sets with conformant metadata for Annex II
- DSv2.3: number of conformant spatial data sets with conformant metadata for Annex III