

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.
 - Identification of spatial data with relevance to the environment (step 1)
 - Documentation of the data (metadata) (step 2)
 - Accessibility of the data through digital services (step 3)
 - Interoperability of spatial data sets (step 4)

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 Italy. More detailed information is available on the [INSPIRE knowledge base](#).

Coordination

National Contact Point

Name of Public Authority: Ministero dell'Ambiente e della Tutela del Territorio e del Mare

Contact Email: [Click to email](#)

National INSPIRE Website: <http://www.isprambiente.gov.it>
<http://sgi.isprambiente.it/geoportal>

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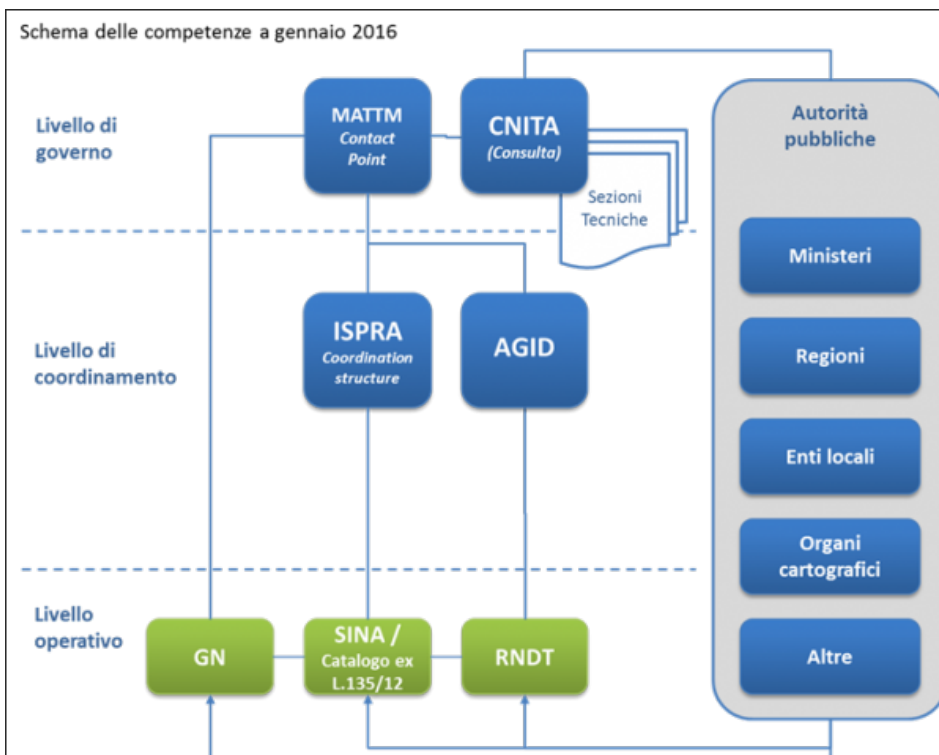
Email: NCP.Inspire@minambiente.it

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Contact Person: Carlo Cipolloni

Email: carlo.cipolloni@isprambiente.it



Coordination Structure & Progress:

- **National Contact point**

Name of public authority	Ministero dell'Ambiente e della Tutela del Territorio e del Mare
Mailing address	Via Cristoforo Colombo, 44 – 00147 Roma
Telephone number	
Fax number	
E-mail	NCP.Inspire@minambiente.it
Website address	http://www.minambiente.it/
Contact person	
Telephone number	
E-mail	
Contact person substitute	
Telephone number	
E-mail	

- **Coordination Structure**

- **Progress**

- According to adopted coordination strategy (January 2016) there are three levels in the governance structure:
 - Top: governmental level, including the NCP (Ministry of Environment) and the consulting and supporting body created in May 2016 (CNITA), website: <http://www.minambiente.it/>
 - Middle: coordination level, including the coordination structure (ISPRA, the National Environment agency) and the national body for the Digital Agenda (AGID),
 - Bottom: operational level, including the National Geoportal (GN), the National Environmental Information System (SINA) and the national geographic metadata catalogue (RNDT)
- In May 2016 Italy has set up a body in charge of linking all the public administrations providing spatial data, this body called "Consulta Nazionale per l'Informazione Territoriale" (CNITA) was already envisaged in 2010 in the law transposing the INSPIRE Directive but never established so far.
- The coordination structure supporting the MSCP is ISPRA - Via Vitaliano Brancati, 48 - 00144 Roma, Tel. +39 06 5007 1, email: inspire@isprambiente.it; website: www.isprambiente.it.

Functioning and coordination of the infrastructure

- Information available through Italian INSPIRE geoportal <http://www.pcn.minambiente.it/geoportal/csw>

- Tests on the infrastructure show a 95.13% conformity (as of April 2016)
- Italy clearly states that they are willing to use the present and future collected data for decision making processes related not only to environmental or reporting matters, but also to the wider land use planning and governance. Moreover, they are willing to adopt an open data strategy

Usage of the infrastructure for spatial information

- Incomplete information on data usage at national and regional level. An activity to harmonise the access to network services and related use through tracking procedures is foreseen
- Metadata statistics are presented in the report
- The report provides number of accesses to the national geoportal between 2012 and 2015, also categorised the INSPIRE theme.
- Good example of cross-border collaboration in the alpine Region, with French and Swiss Authorities. The collaboration resulted in a system for visualising and analysing the territory using a 3D cartography
- Italy participated to the OneGeology Europe project, supporting in particular risk analysis and environmental impact assessments across Italy France, Switzerland, Austria and Slovenia

Data sharing arrangements

- The Italian Ministry of Environment has signed more than 200 data sharing agreements since 2009, and for the subscription to the national geoportal
- LIDAR data have been also shared through a dedicated policy instrument (Piano Straordinario di Telerilevamento), and there is now open procedure for an agreement with the JRC (Global Security and Crisis Management Unit) to share this data with the EC
- Two main barriers to data sharing identified:
 - One of the obstacles to fully comply to INSPIRE is identified in the current legislative landscape that in many cases is antecedent the INSPIRE Directive and therefore applies limitations to data sharing.
- Especially local administrations have difficulties in funding the right expertise /infrastructure that would enable harmonisation towards INSPIRE formats that would feed the national data infrastructure with local data "ready to use".

Costs and benefits

- The report contains information on the costs of implementation of the infrastructure in terms on man months, and divided by the different actors (Ministry of Environment, ISPRA)
- There is no description of the methodology followed to estimate such costs
- On benefits, amongst the qualitative benefits outlined, the rationalisation of the economic investments and of the operational costs, thanks to the removal of duplications; and the wider use of the public data thanks to the data sharing, standardisation and harmonisation activities required by INSPIRE

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:

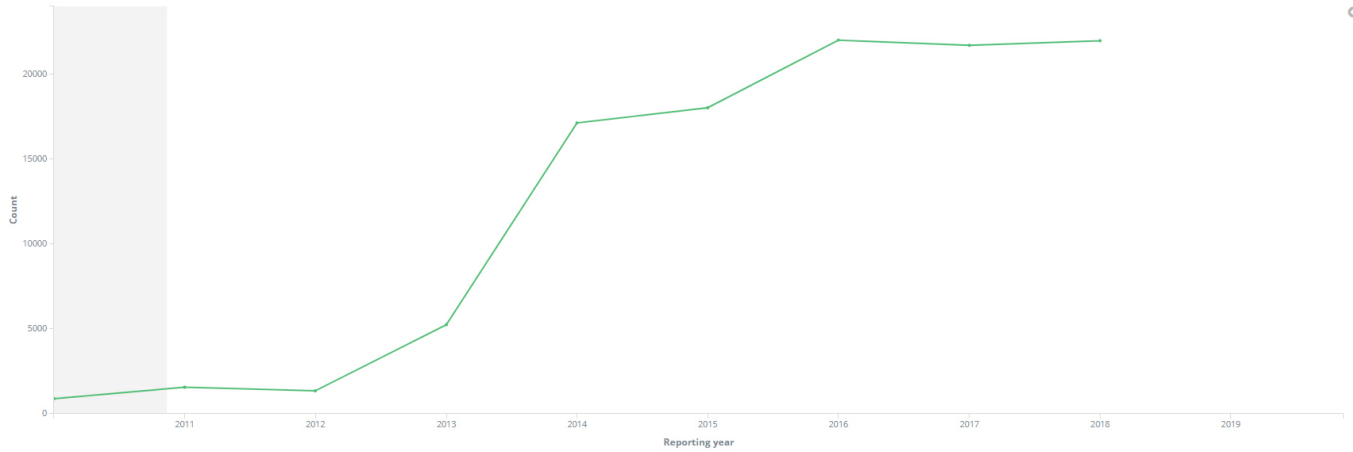
- Step 1: Identify spatial datasets
- Step 2: Document these datasets (metadata)
- Step 3: Provide services for identified spatial datasets (discovery, view, download)
- Step 4: Make spatial datasets interoperable by aligning them with the common data models.

The key facts and figures presented in this country fiche are based on the information provided by Italy 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)

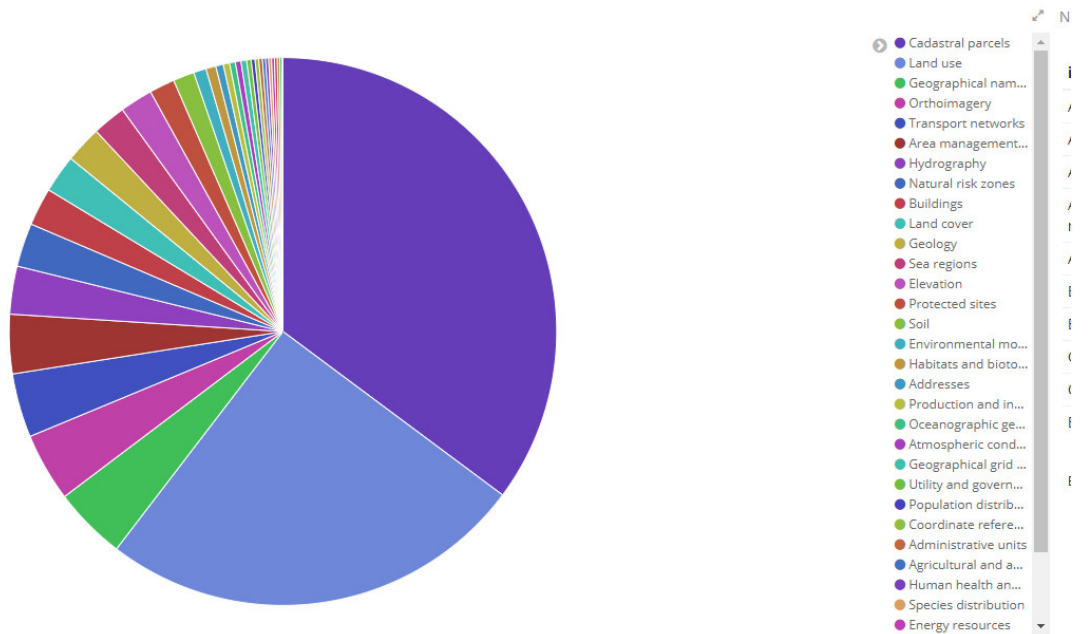
Indicator / Number of spatial data sets for all annexes (DSv_Num)



Country fiche / datasets by annex

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

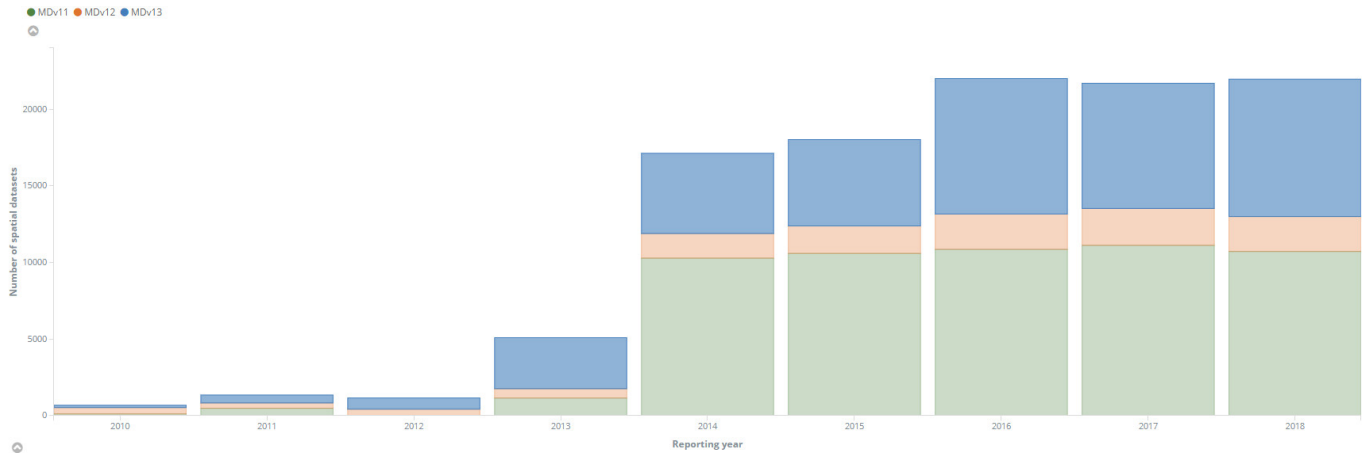
INSPIRE Raw data (datasets) by themes



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

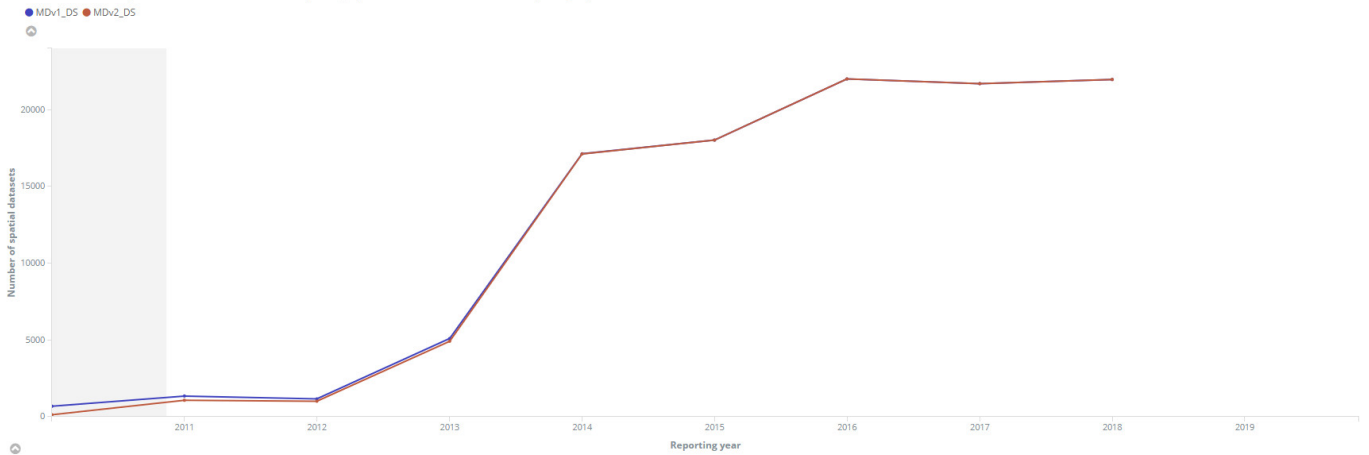
MDv1.2: number of spatial data sets for Annex II that have metadata

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

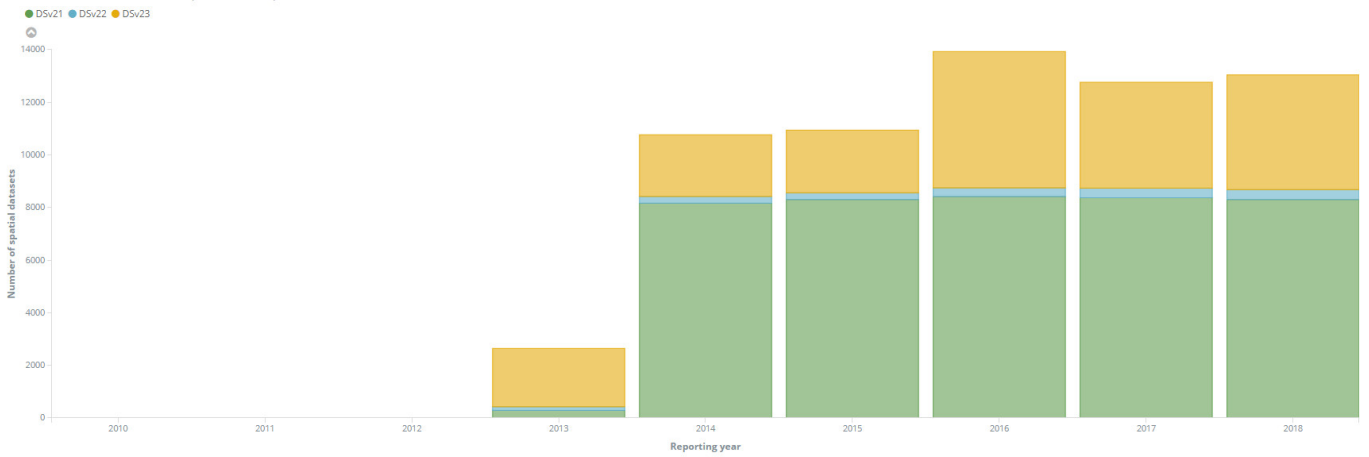
Documentation of the data (metadata) (step 2)

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)



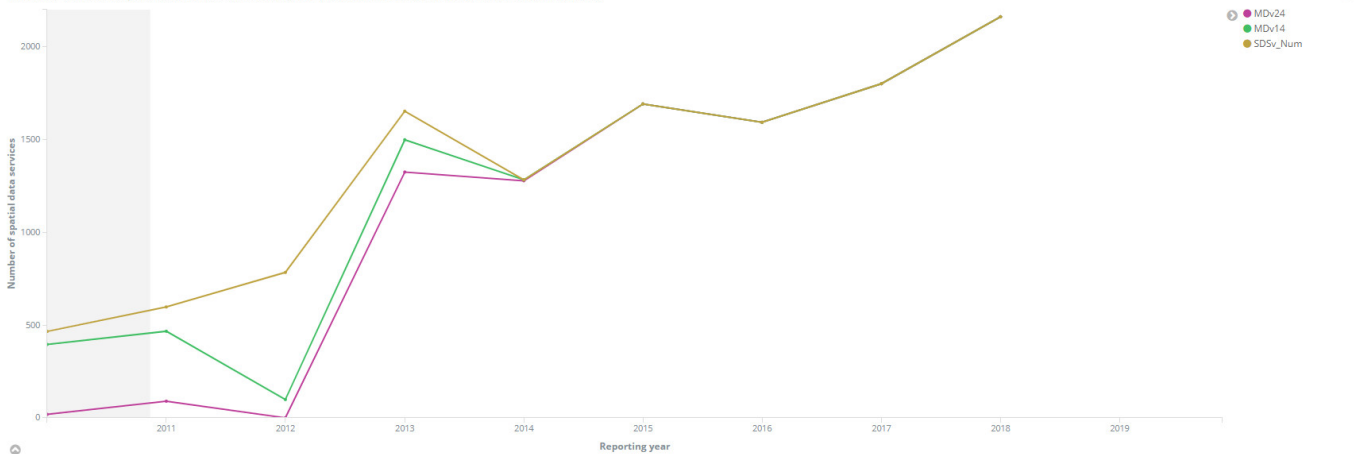
Indicator / Number of conformant spatial data sets per Annexes



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

Evolution of documented services and conformity of the documentation

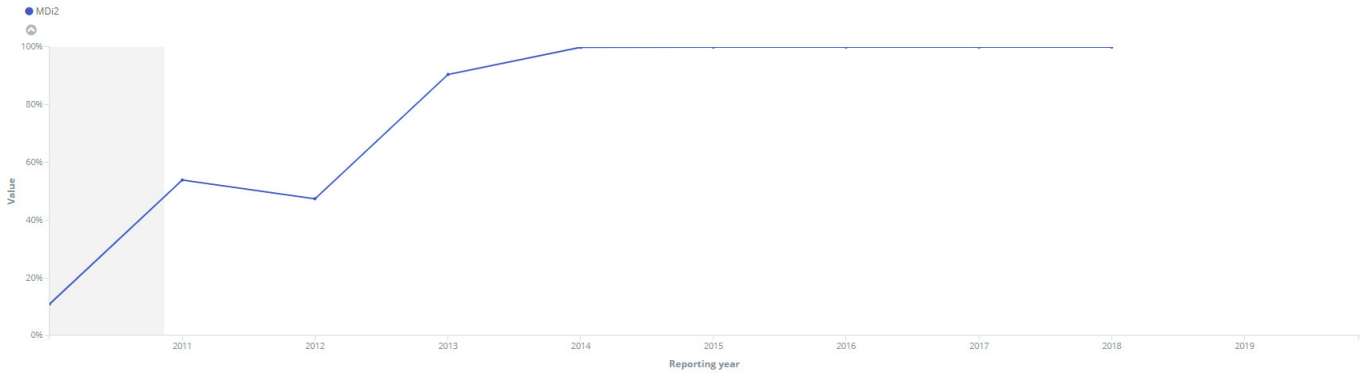
Indicator / Number of spatial data services (SDSv_Num) with metadata (MDv14) and conformant metadata (MDv24)



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

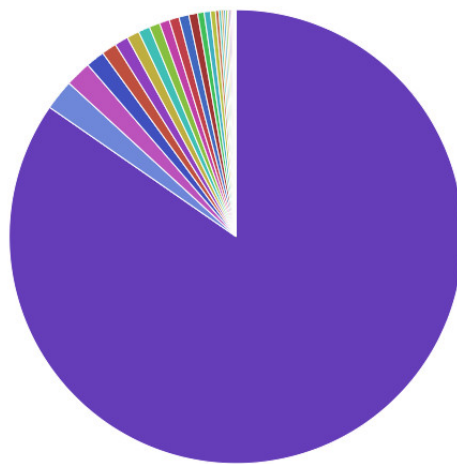
Country fiche / accessibility

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

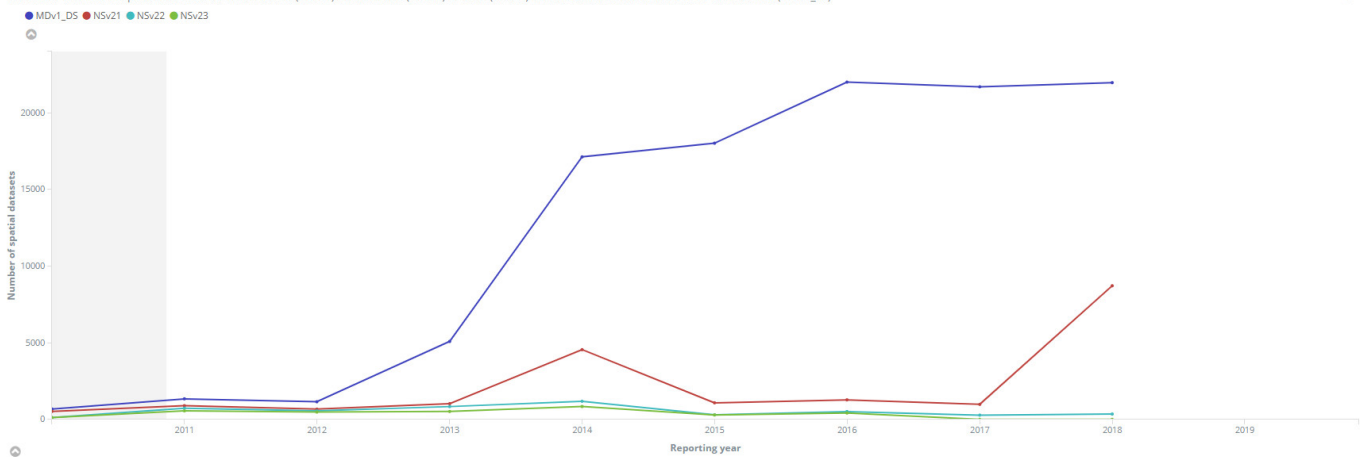


- Cadastral parcels
- Land use
- Elevation
- Transport networks
- Protected sites
- Hydrography
- Geology
- Land cover
- Soil
- Orthoimagery
- Buildings
- Natural risk zones
- Area management...
- Geographical nam...
- Environmental mo...
- Production and in...
- Administrative units
- Geographical grid ...
- Habitats and bioto...
- Addresses
- Utility and govern...
- Species distribution
- Population distrib...
- Bio-geographical r...
- Atmospheric cond...

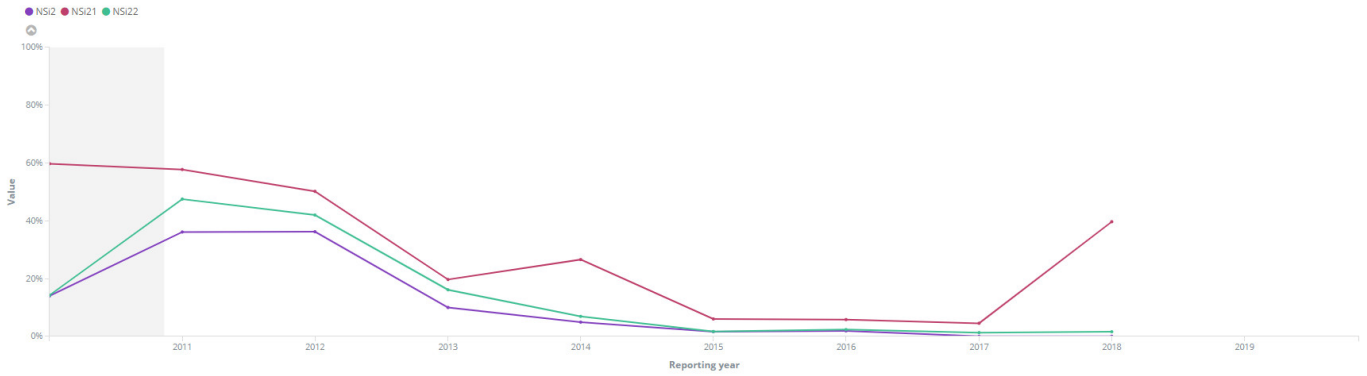
Country fiche / Evolution of spatial data accessible through services

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)



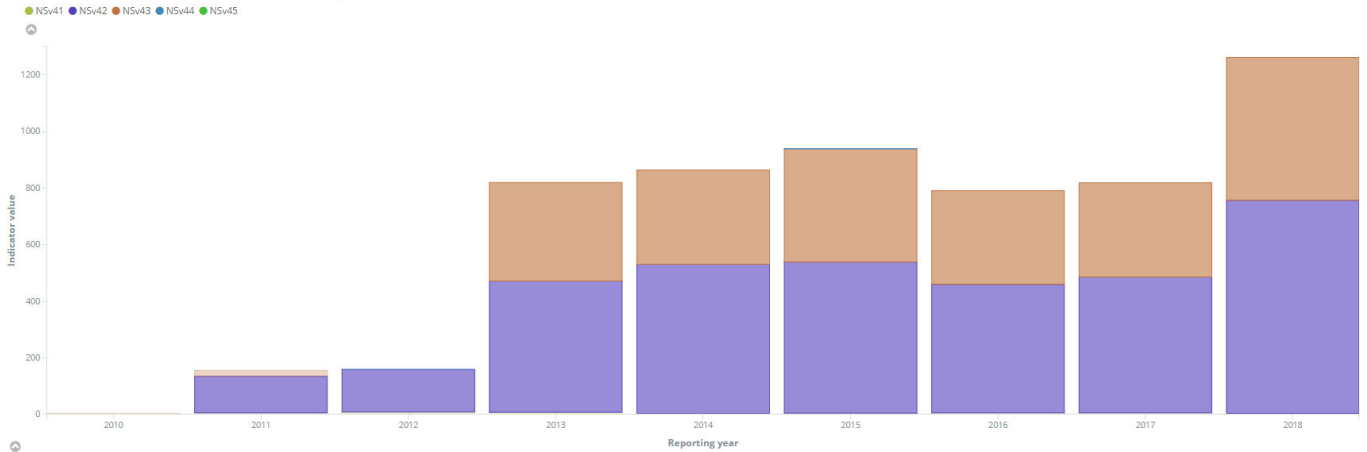
Indicator / Percentage of spatial data sets for which a view service (NSI21), a download service (NSI22) or a view and download (NSI2) exist



Country fiche / Evolution of the conformity of the digital services

Evolution of the conformity of the digital services

Indicator / Number of all conformant network services: discovery (NSv41), view (NSv42), download (NSv43), transformation (NSv44) total (NSv4)



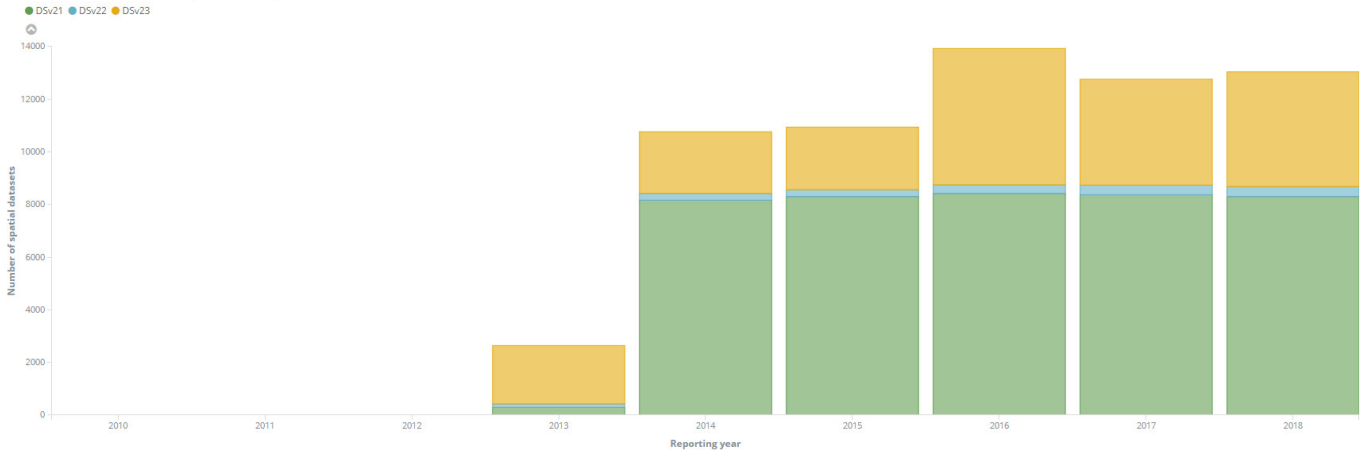
Country fiche / Interoperability

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

Indicator / Number of conformant spatial data sets per Annexes



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