

Inspire Monitoring Spain

This document shows summary report 2015 of Spain based on the European Reporting Obligation. INSPIRE Directive: Monitoring of implementation and use of infrastructures for spatial information (<http://rod.eionet.europa.eu/obligations/692>)

Reporting organisation	Centro Nacional de Información Geográfica	Member state	ES
Year the monitoring refers to	2015	Date	13.5.2016
Language	spa	Source	Monitoring-Register
Number of reported spatial data sets	1435	Number of reported spatial services	1279

The information related to the spatial data sets and services, which are affected by INSPIRE, were collected by the [CODIIGE](#) through the Coordination Monitoring and Reporting of Spain. The spatial data sets and services have been provided by the following SDI node:

National nodes	Autonomical nodes
- Administrator of Railway Infrastructures (ADIF), SDI Node	- Andalusia SDI
- Directorate General for Cadastre SDI node	- Aragón SDI
- Directorate General for Architecture, Housing and Land SDI node	- Balearic Islands SDI
- Directorate General for Coordination with Autonomous Communities and Local Entities Competences	- Cantabria SDI
- Geological and Mining Institute of Spain (IGN) SDI node	- Castile and LeonSDI
- National Statistics Institute, SDI Node	- Castile-La ManchaSDI
- Ministry of Agriculture, Food and Environment SDI	- Catalonia SDI
- Ministry of Industry, Energy and Tourism SDI node	- Regional Community of Navarra SDI
- Ministry of Justice SDI node	- Valencian Community SDI
- Spanish National Geographic Institute SDI node	- Extremadura SDI
- Spanish National Research Council (CSIC) SDI node	- Galicia SDI
- Oceanographic Spanish Institute SDI	- La Rioja SDI
	- Basque Country SDI
	- Madrid SDI
	- Murcia SDI
	- Principality of Asturias, SDI

Monitoring Indicators

The calculation of the indicators is based on the "Commission Decision of 5 June 2009 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards monitoring and reporting" and the "INSPIRE Monitoring Indicators – Guidelines Document", Version 5.0 of 11 December 2009.

	Meta Data		Data Sets		Services			
	Existence	Compliance	Extend	Compliance	MD Accessibility	DS Accessibility	Use	Compliance
Indicator Name	MDi1	MDi2	DSi1	DSi2	NSi1	NSi2	NSi3	NSi4
Indicator Value	88.5%	83.05%	93.33%	1.81%	88.5%	29.12%	3143.44	16.81%
Numerator	2402	2254	139984671	26	2402	418	4020467	215
Denominator	2714	2714	149979815	1435	2714	1435	1279	1279

Existence of metadata for the spatial data sets and services

Calculate the number of SDS and Services that have metadata

- Number of SDS? 1435
- Number of service:1279
- SDS and spatial data services - all themes:2714

For the number of SDS, the variables and indicators are defined as follows:

- DSv_Num1: number of spatial data sets for Annex I= 305
- DSv_Num2: number of spatial data sets for Annex II = 220
- DSv_Num3: number of spatial data sets for Annex III =910
- DSv_Num: number of spatial data sets for all Annexes =1435
- MDv1.1: number of spatial data sets for Annex I that have metadata = 305
- MDv1.2: number of spatial data sets for Annex II that have metadata = 220
- MDv1.3: number of spatial data sets for Annex III that have metadata =910
- MDv1_DS: number of spatial data sets for all Annexes that have metadata=1435

For the number of SDS, the variables and indicators are defined as follows:

- SDSv_Num: number of spatial data services=1279
- MDv1.4: number of spatial data services that have metadata =967

Specific indicators

- o MDi1.1 = MDv1.1 / DSv_Num1 = 100%
- o MDi1.2 = MDv1.2 / DSv_Num2 = 100%
- o MDi1.3 = MDv1.3 / DSv_Num3 = 100%
- o MDi1.4 = MDv1.4 / SDSv_Num = 75,6%

General Indicator

- MDi1 = (MDv1.1 + MDv1.2 + MDv1.3 + MDv1.4) / (DSv_Num + SDSv_Num)= **88.5%**

Monitoring de la conformity of metadata

For the number of SDS, the variables and indicators are defined as follows:

- MDv2.1: number of SDS for Annex I that have conformant metadata=260
- MDv2.2: number of SDS for Annex II that have conformant metadata=203
- MDv2.3: number of SDS for Annex III that have conformant metadata=802
- MDv2_DS: number of SDS for all Annexes that have conformant metadata=1242

For the number of SDS, the variables and indicators are defined as follows:

- MDv2.4: number of spatial data services that have conformant metadata=819

Specific indicators

- MDi2.1 = MDv2.1 / DSv_Num1 =85,24%
- MDi2.2 = MDv2.2 / DSv_Num2 =92,27%
- MDi2.3 = MDv2.3 / DSv_Num3 =88,13%
- MDi2.4 = MDv2.4 / SDSv_Num =64,03%

General Indicator

- MDi2 = (MDv2.1 + MDv2.2 + MDv2.3 + MDv2.4) / (DSv_Num + SDSv_Num)=**76,78%**

Monitoring de la conformity of spatial data sets

For each spatial data set it is necessary to know if the spatial data set is in conformity with the implementing rules on data specifications and if its metadata is in conformity with the implementing rules on metadata. The information on each spatial data set will not be published, only the sum per Annex.

The variables are defined as follows:

	Number conformant	Total number	%of conformity
DSi2, Spatial data sets - all themes	26	1435	1,81%
DSi2.1, Spatial data sets - Annex I	18	305	5,9 %
DSi2.2, Spatial data sets - Annex	3	220	1,36 %
DSi2.3, Spatial data sets - Annex III	5	910	0,54 %

Accessibility of metadata for the spatial data sets and services through discovery services

For every spatial data set and spatial data service with metadata, it is necessary to determine if they are accessible through at least a discovery service.

	Number accessible	Total number	% of accessibility
NSi1, SDS and spatial data services - all themes	2402	2714	88,5 %
NSi1.1, SDS - all themes	1435	1435	100 %

NSi1.2, Spatial data services - all service types	967	1279	75,6 %
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Accessibility of spatial data sets through view and download services

Calculate the number of spatial data sets which are accessible through view and/or download services and the indicators on accessibility of spatial data sets through view and download services

The variables are defined as follows:

- NSv2.1: number of SDS for which a view service exists=1053
- NSv2.2: number of SDS for which a download service exists =425
- NSv2.3: number of SDS for which both a view and a download service exists =418

Specific indicators

- NSi2.1 = NSv2.1 / DSv_Num = 73,37%
- NSi2.2 = NSv2.2 / DSv_Num = 29,61%

General Indicator: "monitor the accessibility of spatial data sets"

- NSi2 = NSv2.3 / DSv_Num= **29.12%**

Conformity of network services

	Number conformant	Total number	% of conformity
NSi4 : spatial data services - network services. NSv4 / NSv_NumAllServ	215	1279	16,81
NSi4.1 number of conformant discovery network services	9	27	33.33%
NSi4.2 number of conformant view network services	189	1191	15,89%
NSi4.3 number of conformant download network services	16	59	27,11%
NSi4.4 number of conformant transformation network services	1	2	50%
NSi4.5 number of conformant invoke network services	0	0	-%