

German INSPIRE Monitoring 2014

supported by the GDI-DE Registry

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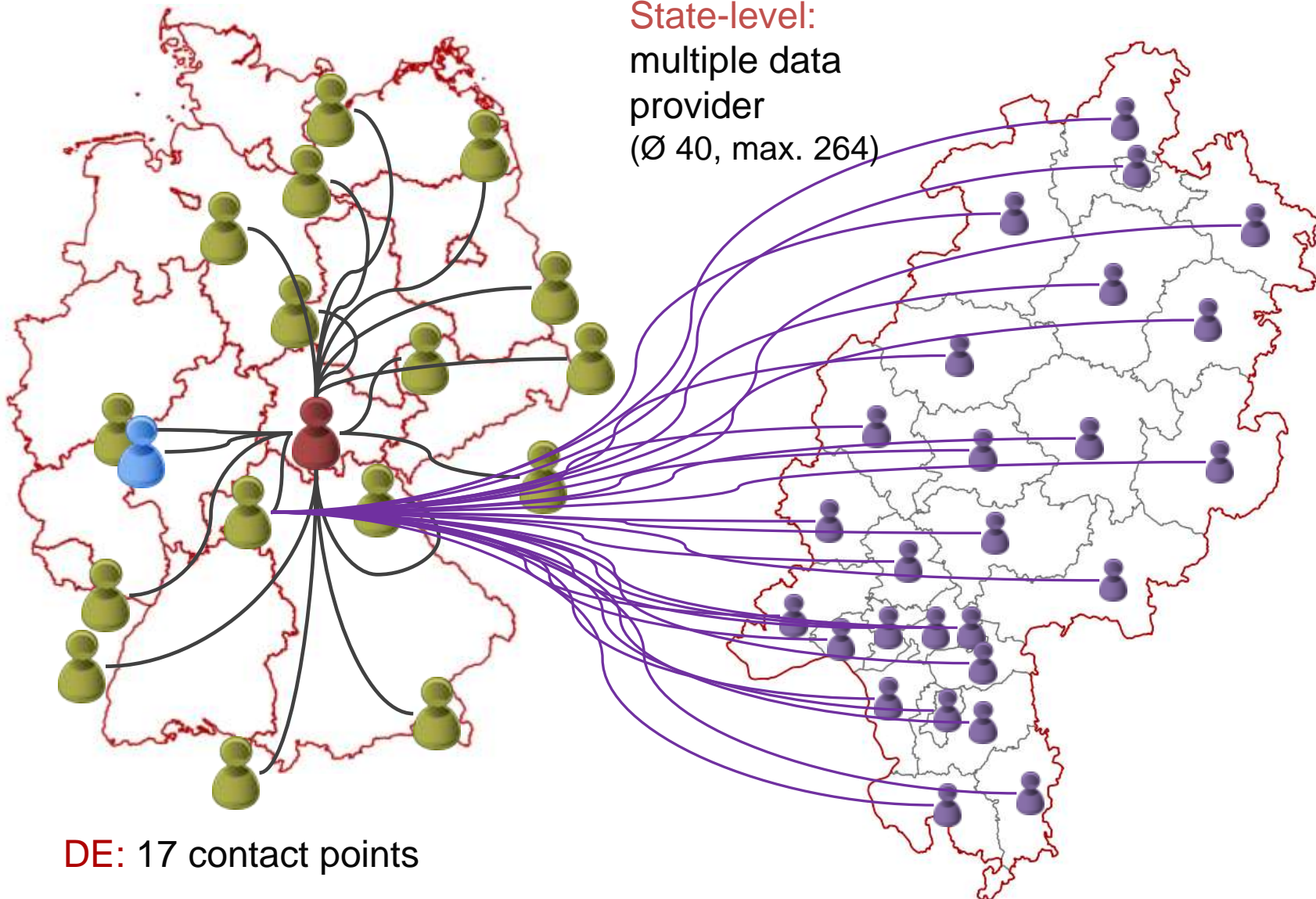
INSPIRE



1 Directive → 17 National laws (1 Federation, 16 States)



State-level:
multiple data
provider
(Ø 40, max. 264)



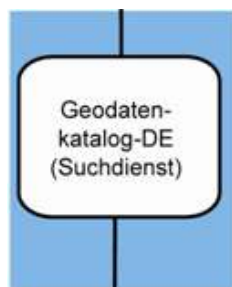
DE: 17 contact points

- Spatial data is distributed through all levels of administration and themes

Monitoring 2014

- 11.239 Datasets
- 15.354 Services





Geodata Catalogue (Geodatenkatalog.de)

Central discovery service

since 2011 online



Geoportal.de

Central access point to the data and services of GDI-DE

since 2012 online: www.geoportal.de



GDI-DE Testsuite

Conformity testing of metadata and services

since 2011 online: testsuite.gdi-de.org



GDI-DE Registry

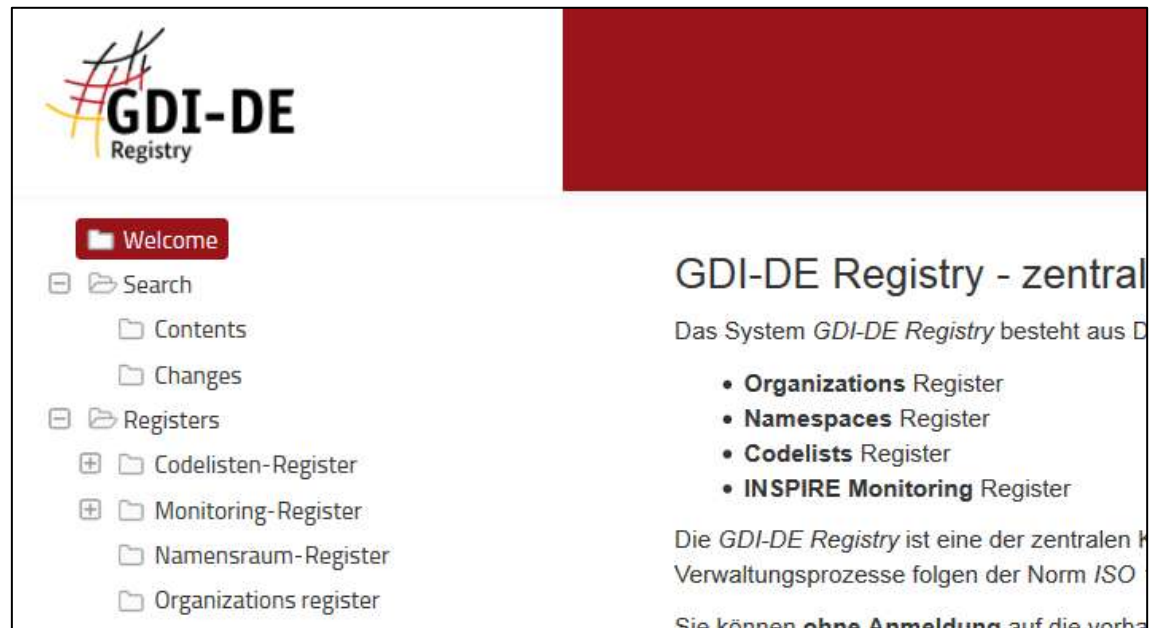
Access point of centrally managed registers and compilation of INSPIRE Monitoring

since 2014 online: <https://registry.gdi-de.org>

- ISO 19135 compliant data model and processes
- in accordance to German SDI standards and INSPIRE requirements
- main use cases:
 - Namespaces: create persistent unique resolvable IDs within German SDI
 - organize and maintain code lists
 - compilation and management of INSPIRE Monitoring information
- development by Frankfurt University of Applied Sciences (FUAS)

Registers:

- Namespaces
- Codelists
- Organizations
- **Monitoring**



The screenshot shows the GDI-DE Registry website. The header features the GDI-DE Registry logo on the left and a dark red bar on the right. Below the logo is a 'Welcome' button. A navigation menu on the left includes 'Search', 'Contents', 'Changes', 'Registers', 'Codelisten-Register', 'Monitoring-Register', 'Namensraum-Register', and 'Organizations register'. The main content area on the right is titled 'GDI-DE Registry - zentral' and contains a list of registers: 'Organizations Register', 'Namespaces Register', 'Codelists Register', and 'INSPIRE Monitoring Register'. Below this list, there is a paragraph of text starting with 'Die GDI-DE Registry ist eine der zentralen K...' and another line starting with 'Sie können ohne Anmeldung auf die vorbe...'. A dark red bar is visible at the top right of the screenshot.

<https://registry.gdi-de.org/>

■ 18 Monitoring-Register

The screenshot shows the GDI-DE Registry interface. The left sidebar contains a navigation menu with the following items: Welcome, Search, Contents, Changes, Registers, Codelisten-Register, and Monitoring-Register (highlighted in red). Under Monitoring-Register, there are 18 sub-registers listed: Baden-Württemberg, Bayern, Berlin, Brandenburg, Bremen, Bund, Hamburg, Hessen, Mecklenburg-Vorpommern, Niedersachsen, Nordrhein-Westfalen, Rheinland-Pfalz, and Saarland. The main content area features a 'Propose new' button (green) and a 'Supersede' button (orange). Below these buttons is a 'Show 10 items per page' dropdown menu. The main content area displays a table of 18 monitoring registers, each with a name and an 'Item class' of 'Subregister'.

| Name | Item class |
|-----------------------------------|-------------|
| Monitoring Baden-Württemberg | Subregister |
| Monitoring Bayern | Subregister |
| Monitoring Berlin | Subregister |
| Monitoring Brandenburg | Subregister |
| Monitoring Bremen | Subregister |
| Monitoring Bund | Subregister |
| Monitoring Hamburg | Subregister |
| Monitoring Hessen | Subregister |
| Monitoring Mecklenburg-Vorpommern | Subregister |
| Monitoring Niedersachsen | Subregister |
| Monitoring Nordrhein-Westfalen | Subregister |
| Monitoring Rheinland-Pfalz | Subregister |
| Monitoring Saarland | Subregister |

- Monitoring-Register Berlin (2014)

The screenshot displays the 'Monitoring Berlin' page on the GDI-DE Registry. The left sidebar shows a tree view of registers, with 'Monitoring Berlin' selected. The main content area features a header with 'Monitoring Berlin' and tabs for 'Overview', 'Contents', and 'Proposal contents'. Below the tabs are 'Propose new' and 'Signposts' buttons. A search bar and a 'Historic view' link are also present. The main content is a table with the following data:

| Name | Item class | Submitter | Status | Actions |
|---|------------|---|--------|---------|
| FNP (Flächennutzungsplan Berlin), Stand Neubekanntmachung 2009 | Service | Senatsverwaltung für Stadtentwicklung und Umwelt Berlin | valid | Actions |
| Landesentwicklungsplan Berlin-Brandenburg Festl.karte 2 - Städtische Kernbereiche | Service | Senatsverwaltung für Stadtentwicklung und Umwelt Berlin | valid | Actions |
| Landesentwicklungsplan Berlin-Brandenburg Festl.karte 2 - Städtische Kernbereiche | Service | Senatsverwaltung für Stadtentwicklung und Umwelt Berlin | valid | Actions |
| Landesentwicklungsplan Berlin-Brandenburg Festl.karte 1 - Gesamttraum | Service | Senatsverwaltung für Stadtentwicklung und Umwelt Berlin | valid | Actions |
| Landesentwicklungsplan Berlin-Brandenburg Festl.karte 1 - Gesamttraum | Service | Senatsverwaltung für Stadtentwicklung und Umwelt Berlin | valid | Actions |

- detailed information for each data set and service, published

Item Management information

Data set

| | | |
|--|--|---|
| Name | Short name ⓘ | Comment |
| Adressen Regionales Bezugssystem | | |
| Metadata identifier | Monitoring year | |
| e49d49f9-207a-3920-83b4-9d966cb72c71 | 2014 | |
| Provider organization | Region code | |
| Amt für Statistik Berlin-Brandenburg | | |
| Contact e-mail | Contact level | |
| christoph.effing@statistik-bbb.de | Land | |
| INSPIRE-compliant | Metadata existent | Metadata INSPIRE-compliant searchable |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| Actual area | Relevant area | |
| 890.0 | 890.0 | |
| Download service | View service | |
| 3911ac26-6d6b-3119-85d1-a4052e5d161d | 8347f4c5-f95a-3d9a-a197-c79901be84cb | |
| INSPIRE themes | | |
| Addresses | | |

- (Separate) Monitoring-tool
„Monitoring Data Collection“

The screenshot displays the GDI-DE Registry web application. On the left, a navigation sidebar lists various sections. The 'Monitoring Data Collection' item is highlighted with a red circle. The main content area on the right features the 'GDI-DE Registry' header and a list of registers: Organizations Register, Namespaces Register, Codelists Register, and INSPIRE Monitoring Register. Below this, there is introductory text about the system and instructions for users.


- Preparation of INSPIRE Monitoring data

- Load
 - Check
 - Update
- } data

The screenshot displays the GDI-DE Registry web application. At the top left is the GDI-DE Registry logo. Below it is a 'welcome' section with a navigation menu containing 'start', 'help', and 'preferences'. A 'my data' section lists various functions: 'metadata', 'excel-import/export', 'quality management', 'import register', 'inspire monitoring', and 'analyst'. On the right, a red header bar is partially visible above a 'welcome - help' sidebar. The sidebar contains a 'quick help' section with text explaining the 'my data' section, 'metadata data', 'excel-migration', 'quality management', 'import register', and 'inspire monitoring'.

Loading INSPIRE Monitoring data into Monitoring-Client

1. request of monitoring information from the metadata via Geodata Catalogue (central discovery service)
2. import of monitoring information via upload of metadata file (xml)
3. import of monitoring information via Excel sheets
4. manual data input



welcome

my data

metadata

- 📁 catalog-filter
- 📁 catalog-import
- 📁 file-upload

excel-import/export

quality management

import register

inspire monitoring

analyst

metadata - catalog-filter

capability's URL

filter:

- „old“ Excel-Sheet can be loaded, format of 2013

| Name des Geodatenobjekts | Organisation | Kontakt, Email | Relevante Flächen |
|---|--|--|-------------------|
| Auskoordinaten Berlin | Senatsverwaltung für Stadtentwicklung und Umwelt | jens.stephansky@senstadtum.berlin.de | 890 |
| automatisierte Liegenschaftskarte (ALK-Berlin) farb | Senatsverwaltung für Stadtentwicklung und Umwelt | ursula.guske@senstadtum.berlin.de | 890 |
| Lotztypen (Umweltatlas) | Senatsverwaltung für Stadtentwicklung und Umwelt | holger.brandt@senstadtum.berlin.de | 890 |
| Seehöhehöhen 2009 (Umweltatlas) | Senatsverwaltung für Stadtentwicklung und Umwelt | manfred.goedecke@senstadtum.berlin.de, thomas | 890 |
| Lohnpunktarte Landesgeologie | Senatsverwaltung für Stadtentwicklung und Umwelt | alexander.limberg@senstadtum.berlin.de, wolfgang | 890 |
| Grundwassermessstellen | Senatsverwaltung für Stadtentwicklung und Umwelt | alexander.limberg@senstadtum.berlin.de, wolfgang | 890 |
| Grundwassertemperatur 20m unter Geländeoberflä | Senatsverwaltung für Stadtentwicklung und Umwelt | alexander.limberg@senstadtum.berlin.de, wolfgang | 890 |
| Grundwassertemperatur 40 m unter Geländeoberflä | Senatsverwaltung für Stadtentwicklung und Umwelt | alexander.limberg@senstadtum.berlin.de, wolfgang | 890 |
| Geologische Skizze Umweltatlas | Senatsverwaltung für Stadtentwicklung und Umwelt | alexander.limberg@senstadtum.berlin.de, wolfgang | 890 |
| Geologiegeologische Karte (Umweltatlas) | Senatsverwaltung für Stadtentwicklung und Umwelt | alexander.limberg@senstadtum.berlin.de, wolfgang | 890 |
| Digitale farbige Orthophotos 2011 (DOP20RGB) | Senatsverwaltung für Stadtentwicklung und Umwelt | thomas.tresp@senstadtum.berlin.de | 890 |
| Lebensweltlich-orientierte-Räume (LOR) Bezirkare | Amt für Statistik Berlin-Brandenburg | harimst.boernermann@statistik-bbb.de, christoph.ef | 890 |
| Lebensweltlich-orientierte-Räume (LOR) Planungare | Amt für Statistik Berlin-Brandenburg | harimst.boernermann@statistik-bbb.de, christoph.ef | 890 |

GDI-DE Registry
 welcome
 my data
 metadata
 excel-import/export
 excel-migration
 excel-import / export
 quality management
 import register
 inspire monitoring
 analyst

excel-import/export - excel-migration
 You can import INSPIRE monitoring informationen from excel tables. This import supports the format that was used until 2013 for migration.

import data sets and services from excel file

Hint:
 You can specify more t
 You can also upload a
 excel files.

excel
 Browse BE_31Mrz2015_gdi-be 2014.xls

- Check against metadata derived from Catalogue and Testsuite results
 - Single parameters can be selected
 - Validation for completeness
-
- Interaction between the central components of the SDI Germany and regular testing

The screenshot displays the 'quality management - quality tests' interface. On the left is a navigation menu with items: welcome, my data, metadata, excel-import/export, quality management (with sub-items 'update from derivations' and 'quality tests'), import register, inspire monitoring, and analyst. The main content area is titled 'quality management - quality tests' and includes a sub-header 'Please select the markers you want to test:'. Below this, a text box states: 'This operation will update the dataset and service quality management marker.' A section titled 'definition of qn marker:' lists four status types: '-unchecked: marker has not been calculated', '-ok: record in 'my data' corresponds to derived information', '-conflict: record in 'my data' and derived information do not correspond', and '-incomplete: no result available as derivation could not be retrieved'. A 'confirm' button with a 'refresh qn marker' label is present. A list of checkboxes follows, with 'title', 'nd accessibility', 'conformity of metadata', and 'contact (email,organisation)' checked. Below are sections for 'datasets' (with 'fd view service', 'fd download service', and 'conformity of dataset' unchecked) and 'services' (with 'type of service' checked and 'conformity of service' partially visible).

- Data management and preparation

The screenshot shows the GDI-DE Registry interface for editing 'my data'. On the left is a navigation menu with options like 'welcome', 'my data', 'INSPIRE data sets', 'INSPIRE services', 'metadata', 'excel-import/export', 'quality management', 'import register', 'inspire monitoring', and 'analyst'. The main area is titled 'my data - INSPIRE data sets' and contains a table of data sets. Below the table are controls for 'my formular' (validate), 'automatic derivation' (refresh), and 'status of derivation'. A form below these controls allows editing various metadata fields.

| proposal-marker | QM-marker | title | organisation | MD-fileidentifier |
|-----------------|------------|----------------------------------|----------------------------------|------------------------------|
| ? unchecked | ≡ conflict | ATKIS®-Basis-DLM | Landesamt für Digitalisierung, B | d2124e25-ef58-37a3-8b2c-bf64 |
| ? unchecked | ≡ conflict | Digitale Ortskarte | Landesamt für Digitalisierung, B | 9c68c7ab-0974-4afd-b041-b88 |
| ? unchecked | ▼ valid | Digitale Topographische Karte 1: | Landesamt für Digitalisierung, B | c5d68bc0-9556-3cc0-b856-3e2 |
| ? unchecked | ▼ valid | Digitale Topographische Karte 1: | Landesamt für Digitalisierung, B | 8ff10917-3a85-3b10-aeaa-bc72 |
| ? unchecked | ≡ conflict | Liegenschaftskarte | Landesamt für Digitalisierung, B | b1767b09-cd33-44b7-8274-e2d |

91-100 von insg. 154 Zeilen.

my formular [validate] automatic derivation [refresh] status of derivation

md file identifier (FID) [8ff10917-3a85-3b10-aeaa-bc72456bacb8] [8ff10917-3a85-3b10-aeaa-bc72456bacb8] (according metadata)

title [Digitale Topographische Karte 1:50000] [Digitale Topographische Karte 1:50000] (according metadata)

organisation [Landesamt für Digitalisierung, Breitband und Vermessung Bay] [Landesamt für Digitalisierung, Breitband und Vermessung] (according metadata)

contact - email [inspire@ldbv.bayern.de] [service@geodaten.bayern.de] (according metadata)

organisation type [federal state] (not derivable)

- Save information as proposal group in the registry-client

welcome
my data
metadata
excel-import/export
quality management
import register
inspire monitoring
 proposal creation
 register-tools
 reports
analyst

inspire monitoring - proposal creation

Here you can create proposals for the monitoring register from the records in 'my data'.

Aktualisierung Proposal-Marker
Bitte warten Sie bis die Aktion ausgeführt ist.

Überprüfe existierende Meldungen und Proposal für Datensätze...
Prüfe Vollständigkeit unter 'Meine Daten' (z.B. ob Fileidentifizier angegeben ist)...
Vergleiche mit registrierten Meldungen (z.B. ob noch aktuell, Addition oder Supersession)...
übertrage 1 bis 60 (60) ...
Übertragung beendet.
Prüfe Datensätze in Register ...
Übertragung beendet.
Es wurden 60 Datensätze als Addition markiert.
übertrage 1 bis 63 (63) ...
Übertragung beendet.
Prüfe Dienste in Register ...
Übertragung beendet.
Es wurden 63 Dienste als Addition markiert.
Fertig.

Abbrechen OK

refresh proposal marker

save as proposal group in registry client.

- Report output from Monitoring-Registers to provide official INSPIRE Monitoring information (XML, HTML)

INSPIRE Monitoring-DE

The information related to the spatial data sets and services, which are affected by INSPIRE, were collected by the Coordination Office SOI Germany (GDI-DE) through the established coordination structure of GDI-DE. The data providers themselves were responsible for both identifying the spatial data sets and services affected by INSPIRE and the correctness of the information provided to calculate the indicators. Since the identification of spatial data sets and services is understood as an ongoing process, the list of reported spatial data sets and services doesn't claim to be complete.

| | | | |
|--------------------------------------|---------------------------------|--|---------------------|
| reporting organisation | Koordinierungsstelle der GDI-DE | member state | DE |
| year the monitoring refers to | 2014 | date | 8.5.2015 |
| language | ger | Source | Monitoring-Register |
| number of reported spatial data sets | 11239 | number of reported spatial data services | 15354 |

Monitoring Indicators

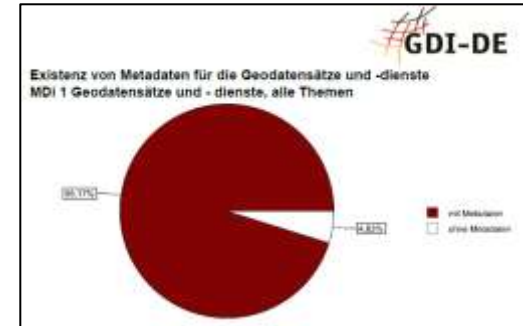
- existence of metadata for the spatial data sets and services
- conformity of metadata for the spatial data sets and services
- geographical coverage of the spatial data sets
- conformity of spatial data sets
- accessibility of metadata for the spatial data sets and services through discovery services

```
<?xml version="1.0" encoding="UTF-8"?>
- <monitoring:Monitoring xsi:schemaLocation="http://inspire.jrc.ec.europa.eu/monitoringreport
xsi:monitoring="http://inspire.jrc.ec.europa.eu/monitoringreporting/monitoring" xmlns:
- <documentYear>
  <year>2014</year>
  <month/>
  <day/>
</documentYear>
<memberState>DE</memberState>
- <MonitoringMD>
  <organizationName>Koordinierungsstelle der GDI-DE</organizationName>
  <email>Inspire@gdi-de.org</email>
  - <monitoringDate>
    <year>2015</year>
    <month>4</month>
    <day>27</day>
  </monitoringDate>
  <language>ger</language>
</MonitoringMD>
- <Indicators>
  - <NinConformityIndicators>
    <NSI41>1.0</NSI41>
    <NSI42>0.9811320754716981</NSI42>
    <NSI43>1.0</NSI43>
```

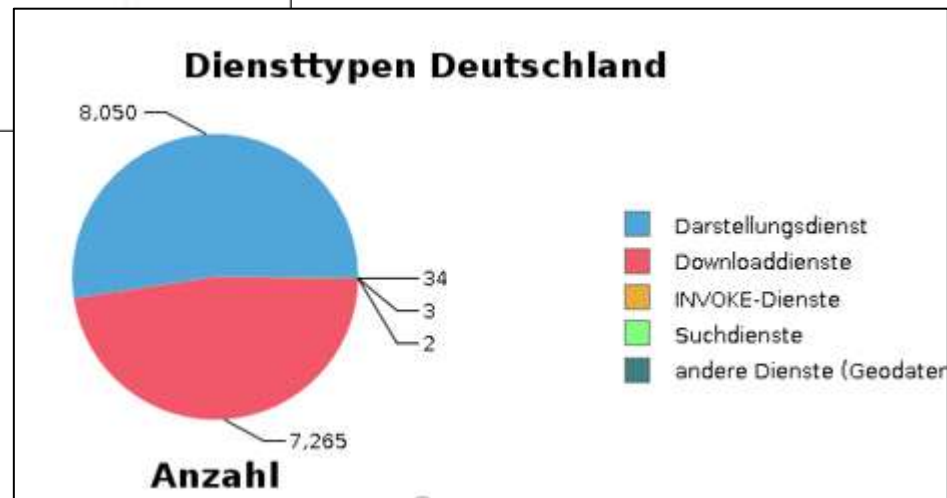
- Statistics, INSPIRE indicators and diagrams (not finalized)

Analyst - herunterladen

| Registar | Modelle | Jahre | Formate |
|--------------------------------|--------------------------------|-------|---------|
| Monitoring Baden-Württemberg | 7 Historie Meldende Stellen | 2005 | pdf |
| Monitoring Brandenburg | 2 Verteilung nach Annex | 2010 | html |
| Monitoring Bayern | 8 MDK1 | 2011 | excel |
| Monitoring Nordrhein-Westfalen | 6 Historie MDI | 2012 | |
| Monitoring Bund | 9 Diensttypen | 2013 | |
| Monitoring Hessen | 11 Verteilung Meldende Stellen | 2014 | |
| Monitoring Hamburg | 4 Verteilung nach Annex Thema | 2015 | |
| Monitoring Sachsen | 3 Verteilung nach Ebene | | |
| Deutschland | 10 Verteilung Annex | | |
| Monitoring Berlin | 6 Historie Datensätze und Dien | | |
| Monitoring Niedersachsen | 1 Diensttypen | | |
| Monitoring Test | | | |
| Monitoring Thüringen | | | |
| Monitoring Sachsen-Anhalt | | | |



| regName | org_distinc | org_distinc | org_distinc | org_distinc | org |
|-----------------------------------|-------------|-------------|-------------|-------------|-----|
| Monitoring Baden-Württemberg | 23 | 0 | 10 | 0 | 0 |
| Monitoring Bayern | 9 | 0 | 9 | 0 | 0 |
| Monitoring Berlin | 2 | 0 | 2 | 0 | 0 |
| Monitoring Brandenburg | 28 | 0 | 18 | 0 | 2 |
| Monitoring Bremen | 11 | 0 | 7 | 0 | 0 |
| Monitoring Bund | 21 | 19 | 0 | 0 | 0 |
| Monitoring Hamburg | 46 | 0 | 46 | 0 | 0 |
| Monitoring Hessen | 17 | 0 | 8 | 3 | 2 |
| Monitoring Mecklenburg-Vorpommern | 25 | 0 | 4 | 0 | 20 |
| Monitoring Niedersachsen | 264 | 0 | 22 | 0 | 48 |
| Monitoring Nordrhein-Westfalen | 36 | 0 | 6 | 1 | 16 |
| Monitoring Rheinland-Pfalz | 63 | 0 | 8 | 0 | 5 |
| Monitoring Saarland | 2 | 0 | 2 | 0 | 0 |
| Monitoring Sachsen | 69 | 0 | 14 | 0 | 34 |
| Monitoring Sachsen-Anhalt | 16 | 0 | 16 | 0 | 0 |
| Monitoring Schleswig-Holstein | 6 | 0 | 6 | 0 | 0 |
| Monitoring Thüringen | 19 | 0 | 6 | 0 | 5 |
| Monitoring Register | 0 | 0 | 0 | 0 | 0 |
| Deutschland | 656 | 19 | 183 | 4 | 132 |



Thanks for your
attention