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'Find your Scope'

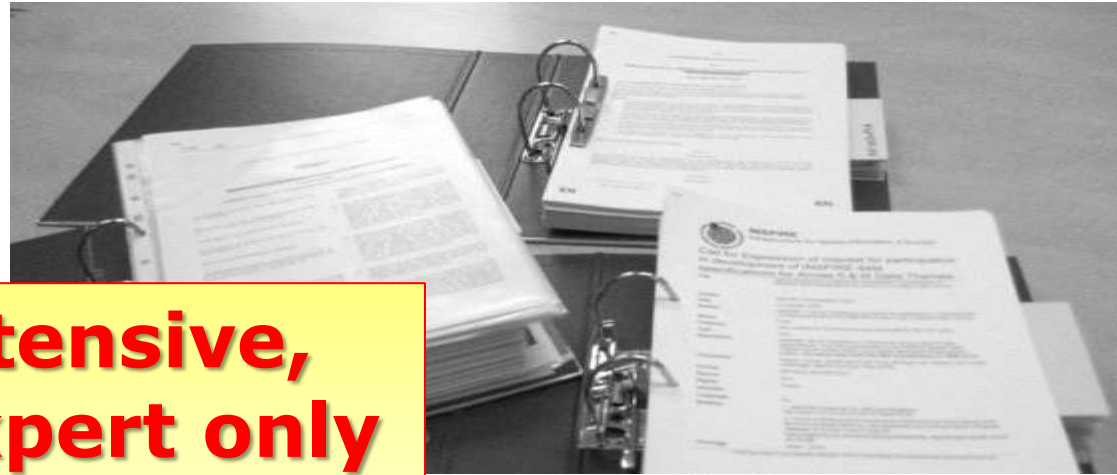
– **INSPIRE interactive data specification SW Toolkit**

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INSPIRE 2016

Barcelona, 28 September 2016

INSPIRE legal & technical documentation



**Extensive,
+ expert only
reading**

INSPIRE Thematic Scope

Annex I	Annex II	Annex III
<ol style="list-style-type: none"> 1. Coordinate reference systems 2. Geographical grid systems 3. Geographical names 4. Administrative units 5. Addresses 6. Cadastral parcels 7. Transport networks 8. Hydrography 9. Protected sites 	<ol style="list-style-type: none"> 1. Elevation 2. Land cover 3. Ortho-imagery 4. Geology 	<ol style="list-style-type: none"> 1. Statistical units 2. Buildings 3. Soil 4. Land use 5. Human health and safety 6. Utility and governmental services 7. Environmental monitoring facilities 8. Production and industrial facilities 9. Agricultural and equaculture facilities 10. Population distribution - demography 11. Area management/ restriction/regulation zones & reporting units 12. Natural risk zones 13. Atmospheric conditions 14. Meteorological geographical features 15. Oceanographic geographical features 16. Sea regions 17. Bio-geographical regions 18. Habitats and biotopes 19. Species distribution 20. Energy Resources 21. Mineral resources

6 legal acts
40+ Technical Guidelines
4000 + pages

INSPIRE **Interactive** Data Specifications

In house developed set of tools/applications to make the **INSPIRE Data specifications more accessible and usable.**

The target user groups are:

- INSPIRE data providers
- INSPIRE newcomers
- Thematic policy makers
- Service / Solution providers



<http://inspire-regadmin.jrc.ec.europa.eu/dataspecification>



INSPIRE **Interactive** Data Specifications

Two applications:

- 1. Find your scope** - helps you with data transformation tasks by selecting the INSPIRE spatial object type(s) and their properties relevant to your datasets.
- 2. Data Specifications** - simplifies on-line reading of selected parts of the INSPIRE Data Specification – Technical Guidelines. You can also compare sections of two different data themes (e.g. The Use case descriptions or recommended Portrayal rules).

<http://inspire-regadmin.jrc.ec.europa.eu/dataspecification>



Where to find?



European Commission

INSPIRE
Infrastructure for spatial information in Europe

European Commission > INSPIRE

Home Learn Implement Participate Use Toolkit

INSPIRE Video

The INSPIRE Directive: A brief description

Focus on

INSPIRE Special
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Commission's INSPIRE report and REFIT evaluation published!

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INSPIRE Conference 2016: "INSPIRING a sustainable environment"

24/08/2016
FOSS4G 2016

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FIND YOUR SCOPE

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<http://inspire.ec.europa.eu/>



Find your scope



INSPIRE
Interactive Data Specifications

European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Intro

Intro | Read/Compare Technical Guidelines | **Find your scope** | Favorites

The process of building of the European Spatial Data Infrastructure based on the INSPIRE requirements and recommendations is now fully in its implementation phase. See the official INSPIRE Roadmap

This INSPIRE Interactive Data specification site offers INSPIRE data providers with all resources/tools related to the implementation of the INSPIRE data specifications.

TECHNICAL GUIDELINES **FIND YOUR SCOPE**

Please, use the **Feedback** button to send us any suggestions, improvements or bugs.

This set of applications was developed in the framework of the official EU INSPIRE Mapping and Observation Implementation Framework (MIF) defined under work package 1 (MWP 1) - Improve accessibility and readability of TG. MIF

The development of the tools accessible on this site has been supported by ARE3NA, A... 17 of the EU ISA Programme.

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Find your scope



helps you with data transformation tasks by selecting the INSPIRE spatial object type(s) and their properties relevant to your datasets using the following tools:



Interactive Workflow



offers with an intuitive selection of INSPIRE data theme followed by the selection of relevant application schema(s). The next step is about selecting concrete spatial objects based on their definitions.



Direct Search



helps you to iteratively search for INSPIRE objects. The search engine looks in the labels, definitions and descriptions of all existing/defined INSPIRE spatial objects, application schemas and data themes.



Catalogue of INSPIRE objects



presents a Catalogue of all spatial objects defined by INSPIRE. The Catalogue allows you to search for objects in alphabetical order. The Catalogue can also be filtered to show only spatial object types, data types or code lists / enumerations.

Find your scope



INSPIRE
Interactive Data Specifications

European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope

Intro Read/Compare Technical Guidelines Find your scope Favorites

The application **Find your scope** supports data providers with identification of the INSPIRE spatial data themes and spatial object types that are relevant to the dataset(s) they administer. This application is foreseen to be useful especially in situations when datasets fall under two or more INSPIRE data themes / application schemas content. The application also serves as a catalogue of all objects defined by INSPIRE.

There are three possible ways for "finding your scope" or INSPIRE objects:

- CATALOGUE OF INSPIRE OBJECTS
- INTERACTIVE WORKFLOW
- DIRECT SEARCH

The main result

The main outcome of this application is the list of the INSPIRE objects, their properties – attributes, code lists values etc. which are relevant to one's dataset(s). The final list also includes all associated objects and their properties.

Additional results

Apart from the main list of relevant INSPIRE objects a data provider after completing the whole interactive workflow will be also able to:

- Find a spatial object type and its property defined by INSPIRE definitions.
- Identify data properties needed to be transformed according to INSPIRE definitions.
- Identify missing information in his/her dataset that is required by INSPIRE object definitions. (Gap Analysis)
- Identify a potential INSPIRE data theme extension, to cover his/her full dataset scope.

Basic notes

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Find your scope



INSPIRE Interactive Data Specifications

European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope > Interactive Workflow > Themes

Home Application systems Pre-selection Selection refinement

Please, select one or more themes based on their definition and description.

Annex I

- Administrative Units
- Cadastral Parcels
- Geographical grid systems
- Hydrography
- Protected Sites
- Transport Networks
- Addresses
- Coordinate reference systems
- Geographical Names

Annex II

- Geology
- Geomorphology
- Land Use

Annex III

- Atmospheric Conditions
- Bio-geographical Regions
- Buildings
- Environmental Monitoring Facilities
- Human health and Safety
- Land Use
- Mineral Resources
- Oceanographic Geographical Features
- Population Distribution - Demography
- Production and Industrial Facilities
- Sea Regions
- Soil
- Species Distribution
- Statistical Units
- Agricultural and Aquaculture Facilities
- Area Management Restriction Regulation Zones and Reporting units
- Meteorological geographical features
- Energy Resources
- Habitats and Biotopes
- Natural Risk Zones
- Utility and Governmental Services

Summary

1. Selected themes:

1. Geology
2. Land Use

Next

Land Use

Definition: Territory characterised according to its current and future planned functional dimension or socio-economic purpose e.g. residential industrial commercial agricultural forestry recreational

Description: Land Use theme is defined as the use and functions of a territory, and it is description of land in terms of its socio-economic and ecological purpose. Land use theme is itself split in two different types:
The Existing Land Use which objectively depicts the use and functions of a territory as it has been and effectively still is in real life.
The Planned Land Use which corresponds to spatial plans defined by spatial planning authorities depicting the possible utilization of the land in the future. Two types of classification systems are supported by Land Use theme: the obligatory hierarchical INSPIRE Land Use Classification System which is a multi-level classification system that will apply to the existing and planned land use; the optional specific classification system in use in a member state.

Close



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Find your scope



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European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope > Interactive Workflow > Application schema

Intro | Read/Compare Technical Guidelines | **Find your scope** | Favorites

Theme | **Application schema** | Pre-selection | Selection refinement

Please, select one or more application schemas.

Theme: Geology

Defined Application schemas:

- Geology
- Geophysics
- Hydrogeology

Real TG
INSPIRE Registry
Thematic Cluster

Summary

- Selected thematic: Geology
- Selected application schemas:

Available resources

Technical Guidelines:

- W Compendium

Communities:

- Post of Experts

Legislation:

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- Roadmap



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European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope > Interactive Workflow > Pre-selection

Intro | Read/Compare Technical Guidelines | **Find your scope** | Favorites

Theme | Application scheme | **Pre-selection** | Selection refinement

Please, select one or more objects.

Application scheme - Geology

- ISG, Issue
- ISG, Model
- Mapping title

Geologic structure - Abstract - Spatial object type
A configuration of matter in the Earth based on describable inhomogeneity, pattern, or fracture in an earth material.

- Fold - Spatial object type
One or more systematically curved layers, surfaces, or lines in a rock body.
- Shear Displacement Structure - Spatial object type
Brittle to ductile style structures along which displacement has occurred.

Geomorphologic Feature - Abstract - Spatial object type
An abstract spatial object type describing the shape and nature of the Earth's land surface (i.e. a landform).

- Anthropogenic Geomorphologic Feature - Spatial object type
A geomorphologic feature (i.e. landform) which has been created by human activity.
- Natural Geomorphologic Feature - Spatial object type
A geomorphologic feature (i.e. landform) that has been created by natural Earth processes.

Geologic Feature - Abstract - Spatial object type
A conceptual geological feature that is hypothesized to exist coherently in the world.

- Geologic Structure - Spatial object type
A configuration of matter in the Earth based on describable inhomogeneity, pattern, or fracture in an earth material.
- Geologic Unit - Spatial object type
A volume of rock with distinct characteristics.
- Geomorphologic Feature - Spatial object type
An abstract spatial object type describing the shape and nature of the Earth's land surface (i.e. a landform).
- Earth Resource - Spatial object type
The kinds of observable or inferred phenomena required to classify economic and non-economic earth resources.
- Geologic Collection - Spatial object type
A collection of geological or geophysical objects.
- Mapped Interval - Spatial object type
A special kind of mapped feature whose shape is a 1-D interval and which uses the SRS of the containing borehole.

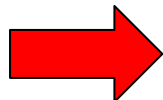
Composition Part - Data type
The composition of a geologic unit in terms of lithological constituents.

Thematic Class - Data type
A generic thematic classifier to enable the reclassification of Geologic Features with user defined classes appropriate to thematic maps.

- Geologic Event - Spatial object type
An identifiable event during which one or more geological processes act to modify geological entities.
- Mapped Feature - Spatial object type
A spatial representation of a Geologic Feature.
- Borehole - Spatial object type
A borehole is the generalised term for any narrow shaft drilled in the ground.

Summary

- Selected themes:
1. Geology
- Selected application schemes:
1. Geology
- Preselected objects:



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Find your scope



INSPIRE
Interactive Data Specifications

European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope > Interactive Workflow > Selection refinement

Intro | Read/Compare Technical Guidelines | **Find your scope** | Favorites

Theme | Application schema | Pre-selection | **Selection refinement**

Info! Please, add the selected objects to the list of favorite objects.

Borehole - Spatial object type

Definition: A borehole is the generalized term for any narrow shaft drilled in the ground.
INSPIRE Data Theme: Geology - [INSPIRE Data Theme Geology]
INSPIRE Application schema: Geology - [INSPIRE Application schema Geology]

Attributes

- purpose
- ...
- Geometry
- Length
- ...

Associated objects - Mandatory

- Mapped interval - { Name of the association; log Element }

Summary

1. Selected themes:

1. Geology

2. Selected application schemas:

1. Geology

3. Preselected objects:

1. Borehole

4. Selected objects:

1. Borehole

Add to favorites



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Find your scope



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Intro | Read/Compare Technical Guidelines | Find your scope | Favorites

Filter Favorite objects summary	Filter Actions
Favorite objects summary	Actions
Borehole - Spatial object type Theme: Geology - [INSPIRE Data Theme Geology] INSPIRE Application schema: Geology - [INSPIRE Application schema Geology]	
Geologic Collection - Spatial object type Theme: Geology - [INSPIRE Data Theme Geology] INSPIRE Application schema: Geology - [INSPIRE Application schema Geology]	

Show 10 entries Showing 1 to 2 of 2 entries

First Previous 1 Next Last

[Add more objects](#)

[PDF](#) [DOCX](#) [Matching Table](#) [hale transformation](#) [Executive report](#)

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Catalogue of INSPIRE object types



The screenshot shows the INSPIRE Interactive Data Specifications website. At the top, there is a navigation bar with the INSPIRE logo and the text "Interactive Data Specifications". Below this, there are several buttons: "Intro", "Read/Compare Technical Guidelines", "Find your scope", and "Favorites".

The main content area features three icons representing different ways to find objects: "CATALOGUE OF INSPIRE OBJECTS" (with an A-Z icon), "INTERACTIVE WORKFLOW" (with a circular arrow icon), and "DIRECT SEARCH" (with a magnifying glass icon). A red arrow points to the "CATALOGUE OF INSPIRE OBJECTS" icon.

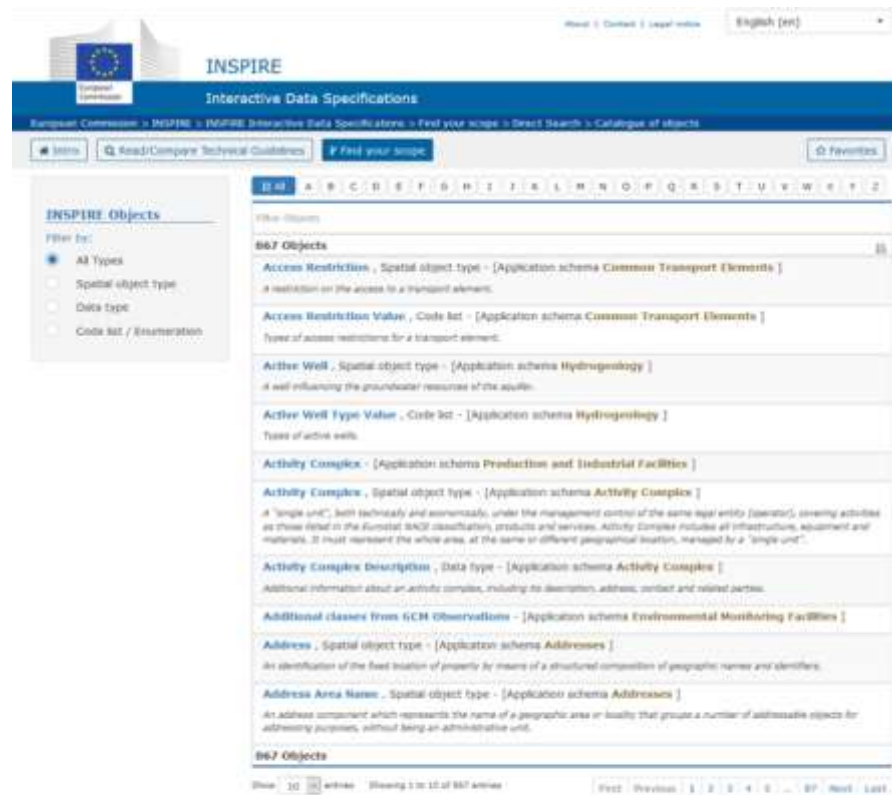
Below the icons, there is a section titled "The main result" and "Additional results". The "Additional results" section lists four points:

1. Find a spatial object and its property defined by INSPIRE.
2. Identify data properties needed to be transformed according to INSPIRE definitions.
3. Identify missing information in his/her dataset that is required by INSPIRE object definitions. (Gap Analysis)
4. Identify a potential INSPIRE data theme extension, to cover his/her full dataset scope.

At the bottom of the page, there is a "Basic notes" section and a footer with various links and social media icons.



Catalogue of INSPIRE object types



INSPIRE Interactive Data Specifications

European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope > Direct Search > Catalogue of objects

Home | Read/Compare Technical Guidelines | Find your scope | Favorites

INSPIRE Objects

Filter by:

- All Types
- Spatial object type
- Data type
- Code list / Enumeration

Filter Objects

B67 Objects

- Access Restriction** - Spatial object type - [Application schema Common Transport Elements]
A restriction on the access to a transport element.
- Access Restriction Value** - Code list - [Application schema Common Transport Elements]
Types of access restrictions for a transport element.
- Active Well** - Spatial object type - [Application schema Hydrogeology]
A well influencing the groundwater resources of the aquifer.
- Active Well Type Value** - Code list - [Application schema Hydrogeology]
Types of active wells.
- Activity Complex** - [Application schema Production and Industrial Facilities]
- Activity Complex** - Spatial object type - [Application schema Activity Complex]
A "single unit", both technically and economically, under the management control of the same legal entity (operator), covering activities as those listed in the Eurostat NACE classification, products and services. Activity Complex includes all infrastructure, equipment and materials. It must represent the whole area, at the same or different geographical location, managed by a "single unit".
- Activity Complex Description** - Data type - [Application schema Activity Complex]
Additional information about an activity complex, including its description, address, contact and related parties.
- Additional classes from GCM Observations** - [Application schema Environmental Monitoring Facilities]
- Address** - Spatial object type - [Application schema Addresses]
An identification of the best location of property by means of a structured composition of geographic names and identifiers.
- Address Area Name** - Spatial object type - [Application schema Addresses]
An address component which represents the name of a geographic area or locality that groups a number of addressable objects for addressing purposes, without being an administrative unit.

B67 Objects

Show 20 entries Showing 1 to 12 of 867 entries

First Previous 1 2 3 4 5 ... 87 Next Last



INSPIRE Interactive Data Specifications

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Direct search



INSPIRE
Interactive Data Specifications

European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope

Intro Read/Compare Technical Guidelines Find your scope Favorites

The application **Find your scope** supports data providers with identification of the INSPIRE spatial data themes and spatial object types that are relevant to the dataset(s) they administer. This application is foreseen to be useful especially in situations when datasets fall under two or more INSPIRE data themes / application schemas content. The application also serves as a catalogue of all objects defined by INSPIRE.

There are three possible ways for "finding your scope" or INSPIRE objects:

- CATALOGUE OF INSPIRE OBJECTS
- INTERACTIVE WORKFLOW
- DIRECT SEARCH**

The main result

The main outcome of this application is the list of the INSPIRE objects, including their properties – attributes/relations/relations etc. which are relevant to one's dataset(s). The final list also includes all associated objects and their properties.

Additional results

Apart from the main list of relevant INSPIRE objects a data provider after completing the whole interactive workflow will be also able to:

- Find a spatial object type and its property defined by INSPIRE.
- Identify data properties needed to be transformed according to INSPIRE definitions.
- Identify missing information in his/her dataset that is required by INSPIRE object definitions. (Data gaps)
- Identify a potential INSPIRE data theme extension, to cover his/her full dataset scope.

Basic notes

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Direct search



INSPIRE
Interactive Data Specifications

European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope > Direct Search > Search by object

Intro | Read/Compare Technical Guidelines | Find your scope | Favorites

Search by object | Pre-selection | Selection refinement

The search engine looks in the labels, definitions and descriptions of existing INSPIRE objects.

INSPIRE object categories:

- Object types
- Application schemas
- INSPIRE Data Themes

Borehole

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Direct search



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European Commission > INSPIRE > INSPIRE Interactive Data Specifications > Find your scope > Direct Search > Pre-selection

Intro | Read/Compare Technical Guidelines | Find your scope | Favorites

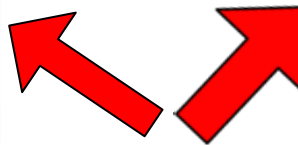
Search by object | Pre-selection | Selection refinement

Please, select one or more objects.

Filter the select objects	Filter relevance
Pre-select objects	Relevance
<input checked="" type="checkbox"/> Borehole , Spatial object type - [Application schema Geology] A borehole is the generalised term for any narrow shaft drilled in the ground.	A
<input type="checkbox"/> Campaign , Spatial object type - [Application schema Geophysics] - borehole logging survey: Survey Type Value Type of geophysical survey or dataset	D
<input type="checkbox"/> Geologic Collection , Spatial object type - [Application schema Geology] - borehole collection: Collection Type Value Types of collections of geological and geophysical objects	D
<input type="checkbox"/> Geoph Profile , Spatial object type - [Application schema Geophysics] - borehole logging: Profile Type Value Type of geophysical profile	D
<input checked="" type="checkbox"/> Mapped Interval , Spatial object type - [Application schema Geology] A special kind of mapped feature whose shape is a 2-D interval and which uses the GIS of the containing borehole.	G
<input type="checkbox"/> Mining Activity , Spatial object type - [Application schema Mineral Resources] - borehole mining: Mining Activity Type Value The type of mining activity, processing activity, or production.	D
<input type="checkbox"/> Observed Soil Profile , Spatial object type - [Application schema Soil] A representation of a soil profile found on a specific location which is described on the base of observations in a trial pit or with a borehole.	G
<input type="checkbox"/> Soil Plot , Spatial object type - [Application schema Soil] - borehole: Soil Plot Type Value Set of possible values that give information on what kind of plot the observation of the soil is made.	D
Geology - [INSPIRE Data Theme Geology] Geology characterised according to composition and structure. Includes bedrock aquifers and geomorphology.	N
Pre-select objects	Relevance

Items: 22 entries Showing 1 to 9 of 9 entries

First | Previous | Next | Last



Summary

1. Searched text:
borehole

Relevance categories

2. Preselected objects:
1. Borehole
2. Mapped Interval

None

Relevance categories

Categories of types in which the searched text was found

- A. Spatial object types - label
- B. Spatial object types - attribute label
- C. Code list/numeration - label
- D. Code list/numeration values - label
- E. Data types - label
- F. Data types - attribute label
- G. Spatial object types - definition and description
- H. Spatial object types - attribute definition and description
- I. Code list/numeration - definition and description
- J. Code list/numeration values - definition and description
- K. Data types - definition and description
- L. Data types - attribute definition and description
- M. Application schema - label, definition and description
- N. Theme - label, definition and description



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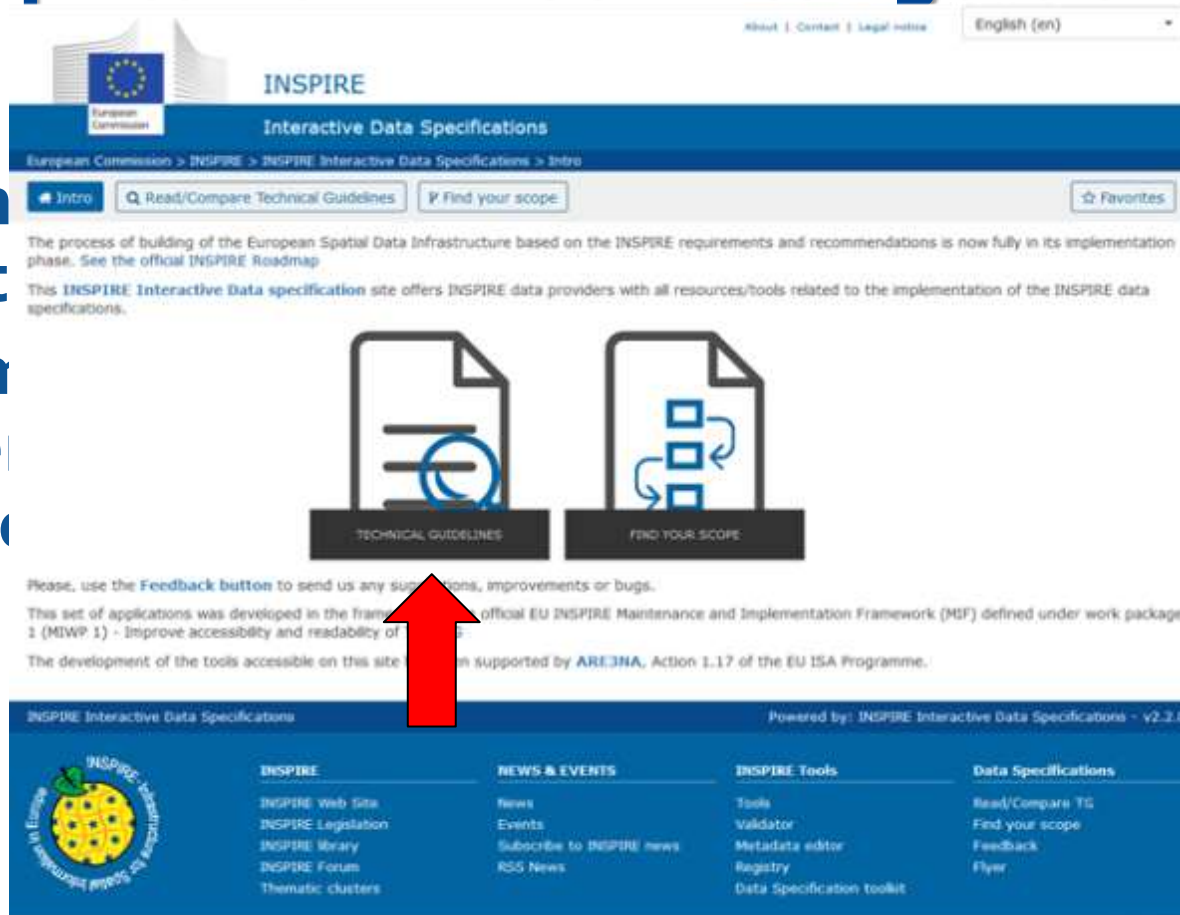
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2nd Application - Technical guidelines

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The screenshot shows the INSPIRE Interactive Data Specifications website. The main navigation bar includes 'Intro', 'Read/Compare Technical Guidelines', and 'Find your scope'. The main content area features two large icons: 'TECHNICAL GUIDELINES' and 'FIND YOUR SCOPE'. A red arrow points to the 'FIND YOUR SCOPE' icon. The footer contains a navigation menu with categories: INSPIRE, NEWS & EVENTS, INSPIRE Tools, and Data Specifications.

Technical guidelines



European Commission

INSPIRE Interactive Data Specifications

European Commission - INSPIRE - INSPIRE Interactive Data Specifications - RoadCompare Related Themes - Compare

Find your scope

The application Data Specifications facilitates the reading of INSPIRE Data Specification - Technical Guidelines documents by enabling to study only selected parts of the INSPIRE technical documentation. Furthermore the selected parts can be compared with the same parts of other data themes.

Please select a theme(s) to study.

Search themes...

The engine is searching in the title, contents and description of the INSPIRE data themes.

Summary

Selected themes:

1. Geology
2. Land Use

Compare

Annex I

- Administrative Units
- Cadastre Parcels
- Geographical grid systems
- Hydrography
- Protected Sites
- Transport Networks
- Addresses
- Coordinate reference systems
- Geographical Names

Annex II

- Geology
- Energy
- Air

Annex III

- Atmospheric Conditions
- Bio-geographical Regions
- Buildings
- Environmental Monitoring Facilities
- Human Health and Safety
- Land Use
- Lakes
- Lentic Geographical Features
- Distribution - Demography
- Land and Industrial Facilities
- Sea Regions
- Soil
- Species Distribution
- Statistical Units
- Agricultural and Aquaculture Facilities
- Area Management (Reservation, Regulation Zones and Reporting units)
- Meteorological geographical features
- Energy Resources
- Habitats and Biotopes
- Natural Risk Zones
- Urban and Governmental Services

INSPIRE Interactive Data Specifications

Powered by: INSPIRE Interactive Data Specifications - v2.2.0

INSPIRE	NEWS & EVENTS	INSPIRE Tools	Data Specifications
<ul style="list-style-type: none">INSPIRE Web SiteINSPIRE LegislationINSPIRE ManualINSPIRE ForumThematic chapters	<ul style="list-style-type: none">NewsEventsSubscribe to INSPIRE newsRSS feeds	<ul style="list-style-type: none">ToolsWebDataWebdata editorRegistryData Specification Toolkit	<ul style="list-style-type: none">RoadCompare TSFind your scopeFeedbackHow

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<http://inspire.ec.europa.eu/>

INSPIRE **Interactive** Data Specifications

Data sources for the apps:

- INSPIRE consolidated UML data model repository (EA)
- INSPIRE Registry:
 - Code list & enumeration registers,
 - Application schema register,
 - Data theme register
- INSPIRE Data specification-Technical guidelines documents

INSPIRE **Interactive** Data Specifications

- **Simplifies the use** of INSPIRE data interoperability documentation
- Understand whether your **datasets need to be transformed** and which parts
- The final set of relevant INSPIRE objects **gives you a direct entry** (Target schema) to the **transformation** SW tool HALE
- **Find quickly information** (e.g. definition and data properties) about each of the INSPIRE object types
- **Facilitates data interoperability** in the environmental and other domains.

PDF

DOCX

Matching Table

hale transformation

Executive report ^β



European
Commission

Thanks for your attention!

Try it yourself!

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Joint Research Centre

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