Implementation of the Inspire initiative at the Geological Survey of Sweden

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The Geological Survey of Sweden

The expert agency for issues relating to bedrock, soil and groundwater
Natural resources

- supporting the development of the mining, rock and mineral industries
- issuing exploration and extraction permits in accordance with the Minerals Act
- supervising agency regarding operators’ compliance with the Minerals Act
- promoting the sustainable use of groundwater resources
Physical planning

• promoting the use of geological information
• promoting sustainable development and responsible use of groundwater resources
• remediation and restoration of contaminated sites
• responsibility for the environmental quality objective Good-Quality Groundwater
Geology awareness, knowledge and expertise

- promote geological awareness and knowledge in the public debate
- strengthen the subject of geology in schools
- improve and strengthen geological awareness and expertise
Research

- close contact with universities and institutions of higher education
- participation in international projects
- supervision of dissertation projects and theses
- four adjunct professors
- support to R&D (funding SEK 6 million)
Access to SGU information

Personal service:

• Customer service for queries and orders
• The library – Sweden's largest library with a geological focus
• Archive – material from the entire 150-year history of SGU
• Registry – incoming and outgoing documents and decisions
• "Borrow a geologist" – one of our experts will help you find, understand and use geological information
Access to SGU information

Web services at sgu.se:

• order or download our products using GeoLagret
• create pdf maps from our databases in the Map Generator
• access information from our databases in map viewers, mobile applications and via Web Map Services (WMS)
• subscribe to SGU news
INSPIRE Implementation Roadmap

Annex I

03/12/2010
09/11/2011
23/11/2012
28/12/2012
09/12/2013
21/10/2015
23/11/2017
21/10/2020

Annex II

Annex III

Discovery metadata shall be available for spatial data sets and services

Spatial data sets shall be available for discovery and view from the INSPIRE geo-portal (data does not yet need to be conformant to IR-ISDSS)

Spatial data sets shall be available for download and transformation (whenever applicable)\(^1\) from the INSPIRE geo-portal (data does not yet need to be conformant to IR-ISDSS\(^2\))

Newly collected and extensively restructured spatial data sets shall be conformant to IR-ISDSS (incl. metadata for interoperability) and available through network services

All spatial data sets shall be conformant to IR-ISDSS (incl. metadata for interoperability) and available through network services

IR-ISDSS = Implementing Rules on interoperability of spatial data sets and services (Commission Regulation (EU) No. 1089/2010)

\(^1\) Transformation Services only need to be provided if data sets are not made conformant with the IR-ISDSS by some other means (see Art. 7(3) of the INSPIRE Directive)

\(^2\) With the exception of newly collected and extensively restructured Annex I data sets, which already have to be compliant with the IR-ISDSS by 23/11/2012
Themes that SGU are responsible for

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Guidelines

• Download Services

• View Services

• Harmonize Data
### INSPIRE data models

The INSPIRE Implementing Rules on interoperability of spatial data sets and services and the data specification guidance documents are based on the UML data models developed by the INSPIRE Thematic Working Groups. These data models are managed in a common UML repository, which also stores older revisions of the models.

This page makes different revisions of the INSPIRE UML models available in different formats and views (see below). Each of these revisions corresponds to a specific set of (draft or approved) Data Specification Technical Guidance (TGD) documents and/or Implementing Rules.

<table>
<thead>
<tr>
<th>Revision</th>
<th>Corresponding TG and IRs</th>
<th>Status</th>
<th>Feature catalogue</th>
<th>HTML view</th>
<th>Mapping Tables</th>
<th>EA project / XMI</th>
<th>SVN</th>
<th>GML &amp; code lists</th>
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<td>This version corresponds to the content of the Implementing Rules (EU) No 1089/2010, No 102/2011, No 1253/2013 and the latest publicly available version of the data specifications of Annex I, II+III.</td>
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<td>Schema repository</td>
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<td>This distribution contains only those data models that are contained in the amendment to the Implementing Rules for Annex I data themes, including the updates of the Annex I data themes.</td>
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#### Additional Metadata

- **Title**: D2.8.II.4 INSPIRE Data Specification on Geology – Technical Guidelines
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- **Date**: 2013-12-10
- **Subject**: INSPIRE Data Specification for the spatial data theme Geology
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- **Coverage**: Project duration
Open standards

• WMS
• SLD
• WFS
• GML
• O&M
• mfl
Environment for public services
WFS or GML-files?
Figure 7 - UML class diagram: GeologicUnit