

Organization and implementation of an INSPIRE registry in France

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Abstract

BRGM (the French geological survey) is France's reference public institution for Earth Science applications. BRGM works on managing and delivering geosciences data to be used as support to decision-making for spatial planning, mineral prospecting, groundwater protection, pollution control, natural risk prevention and the characterization of local areas.

For all these data, models have been defined at a conceptual level (UML) and implemented using existing standards (GeoSciML, EarthResourceML, GroundWaterML2, ...) to enable interoperability with other systems. For some attributes, codelists have been defined, such as for example a list of values characterizing the lithology like granit, sandstone, etc. These codelists contain common values with INSPIRE codelists, as well as extended specific values. BRGM is currently implementing a GeoScience multithematic registry (geology, mineral resources, groundwater, ...) in order to identify and describe the content of these codelists.

BRGM is also managing the French Géocatalogue (www.geocatalogue.fr) which collects information (metadata) and provides tools for harvesting, searching and consulting geographical information. It also provides a discovery service (CSW) so it can be harvested by the INSPIRE geoportal. In accordance with INSPIRE implementing rules, a national registry is being implemented in the Géocatalogue infrastructure. For the technical solution, two registry softwares (R3gistry and UKGovLD) have been tested.

This situation provides a unique opportunity to validate that a data provider registry can be linked to a national one which in turns is synchronized with the European INSPIRE registry.

Categories

Topic Area: *[2.3] Technologies and tools to support implementing, using and assessing the technical implementation of INSPIRE*

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