

## **Presentació Geologia a INSPIRE**

**Dilluns, 4 d'octubre de 2010 a les 16h**

### **Programa**

#### **16.00 Presentació de l'acte**

Xavier Berástegui i Batalla, Subdirector tècnic de l'Institut Geològic de Catalunya

#### **16.10 Defining Geology for the European INSPIRE Directive: A Major Challenge for OneGeology-Europe**

Kristine Asch. Bundesanstalt für Geowissenschaften und Rohstoffe (BGR)

#### **17.00 Finalització de l'acte**

Sala d'actes de l'Institut Geològic de Catalunya  
c/Balmes, 209 08006-Barcelona  
Cal confirmar la vostra assistència a: [info@igc.cat](mailto:info@igc.cat)

### **Perfil del conferenciant**

La Doctora Kristine Asch és Cap de la Unitat de Cartografia i Sistemes d'Informació de l'Institut Federal Alemany de Geociències i Recursos Naturals (BGR) i Presidenta de la Comissió d'Informació Geocientífica de la Unió Internacional de Geociències (IUGS).

És membre fundador del projecte OneGeology, l'objectiu del qual és fer accessibles les dades dels mapes geològics accessibles per Internet. Conduïx els treballs per definir les especificacions de les dades geològiques d'Europa i s'encarrega de la seva harmonització entre els països participants. Ambdós resultats constitueixen una base substancial per les especificacions de les dades geològiques a INSPIRE.

És membre del Drafting Team "data Specifications" de la UE i del Grup de Treball Temàtic Geologia i Recursos Minerals (TWG GE+MR) que ha de crear les regles específiques per a la implementació de la Directiva INSPIRE. És coordinadora del Grup d'Experts INSPIRE dels Instituts Geològics (Federal i dels Estats) que integren el Consell Alemany de Geologia.



## ABSTRACT

### Defining Geology for the European INSPIRE Directive: A Major Challenge for OneGeology-Europe

Kristine Asch, Bundesanstalt für Geowissenschaften und Rohstoffe (BGR)

**Keywords:** Geology, EC-Directive, INSPIRE, Data specifications, vocabulary, OneGeology-Europe.

The EC INSPIRE Directive which came into force in May 2007 set out how the Member States of the European Union would describe, discover and provide access to spatial environmental data in a harmonised way. Amongst the thematic data sets specified in INSPIRE is “geology”. A fundamental question arising from this is: what is meant by the term “geology”? The question must be answered, and in some detail, if the intentions of the INSPIRE Directive to provide consistency of access are to be realised.

The Directive itself provides very little constraint on this definition. In it “geology” is described as “Geology characterised according to composition and structure. Includes bedrock, aquifers and geomorphology” (Directive 2007/2/EC, Annex II).

The challenge for the EC and its Member States – more specifically for the geological survey community – is to convert these few words into a precise and practical specification and data model that will deliver the outcomes intended by INSPIRE. The geological survey community is tackling this specification through two complementary routes. Through the Thematic Working Group “Geology and Mineral Resources” – a generic procedure adopted by the EC that started in May 2010 - and a EC eContentplus project, OneGeology-Europe. These groups do have pre-existing pan-European and global experience to build from – for example the geoinformation system of the 1:5 Million International Geological Map of Europe and Adjacent Areas (IGME 5000), the OneGeology (global) project, the IUGS-CGI Development of GeoScience Markup Language, etc.

There are numerous difficult questions and issues to be confronted and of course existing data models vocabularies, definitions and classifications need to be taken into account. Compounding these questions is the fact that few international standards exist in geoscience and almost every national geological survey has adopted different standards, standards which they are reluctant to concede.

Establishing a specification for spatial geological data for a continent, which has for almost two centuries developed disparate individual national approaches, is a major challenge. In creating a shared standard for basic geological data at a scale of 1:1 million OneGeology-Europe is taking an essential first pragmatic step in what may prove to be a long and arduous journey.

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