**GeoInformatics:**
- Discover information resources
- Utilize existing data
- Enable automated workflow
- Utilize geoscience information exchange
  - Decision making; Research; Education

**Approach to developing a standard**

**International consensus**
- CG-ISO Data Model Working Group
- Experts from 12 countries (Africa, Asia, Europe, Oceania, USA)
- Project Chair: Anna David, British Geological Survey, London, UK
- WG Members: France, Germany, Italy, Japan, Korea, Spain, Sweden, Switzerland, Turkey, USA, Vietnam, USA
- SIWG on Geology: France, Germany, Italy, Japan, China, Korea, Spain, Sweden, Switzerland, Turkey, USA, Vietnam, USA

**Use of standard means this schema mapping only needs to be done once.**

Web service only needs to implement interface for GeoSciML input and output
Web service can focus on semantic mediation and application logic.

**GeoSciML Scope**
- Geologic units
- Geologic structure
- Earth Material Description

**Use related XMMML, SWE, GeoTime**
- Boreholes
- Stratigraphic time scale
- Samples
- Analytical data

**Where are we now**
- Successful development of Testbed 2 – although clear pushing current technology to limit
- Demonstration at IAMG 06 created wider interest in participation (in use rather than development)
- GeoSciML still very much in development