

Agenda item 3

Operational and Technical progress report

August 2010 - June 2011

Ian Jackson and Francois Robida

Progress reported against the four OneGeology objectives

- *(general information)*
- improve the accessibility of geological map data
- exchange know-how & skills
- accelerate interoperability in the geosciences
- use global profile to increase awareness of the project & relevance of the geosciences

General information

- The OneGeology concept originated in 2006 and the project was initiated in Brighton, UK in March 2007.
- OneGeology continues to be coordinated through a two-part “hub” - a Secretariat based in BGS and the portal technology and servers provided by BRGM.
- The “hub” is guided and supported by two international groups – the Operational Management Group (OMG) and the Technical Working Group (TWG).
- A Steering Group, comprising 7 Directors, one for each continent, provides strategic guidance

General information

- Steering Group scheduled to meet in Japan in April 2011 – postponed due to earthquake and re-scheduled for September 2011
- Interim Steering Group telephone conference held 7 April 2011
- In addition to increasing OneGeology data services, the 2 main tasks in 2010-2011 were completion of OneGeology-Europe and advancing incorporation
- Strengthened our linkages with GeoParks and met with Map Action, the international humanitarian organisation which provides responsive mapping capability in disaster zones (e.g. Pakistan and Haiti).

Improve the accessibility of geological map data

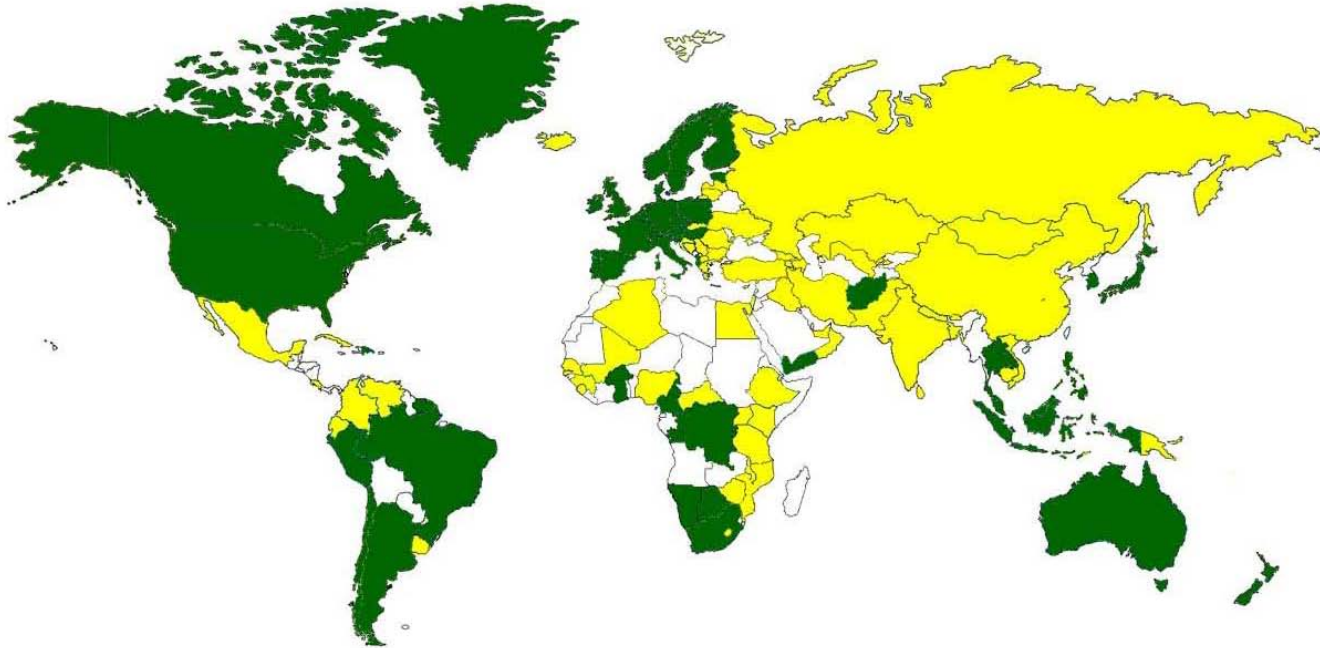
- Despite efforts national participants number remains at 116 countries (item 11 thus important)
- However, number of state/provincial surveys participating and serving data has increased.

Australia: Victoria

USA: Arizona, Kentucky, Illinois

*Canada: Manitoba, Newfoundland & Labrador,
Ontario*

Improve the accessibility of geological map data



Improve the accessibility of geological map data

- 50 countries and 6 states/provinces now serving data.
- *Africa: 8*
- *Asia: 9*
- *Europe: 23*
- *Central and Southern America: 7*
- *Northern America: 2*
- *Oceania: 2*
- Currently 229 WMS and 23 WFS data layers being served through the portal from 57 data providers and 46 service providers. One or more layers for 51 nations, 20 continental or other large world regions and 8 sub-national regions.

Improve the accessibility of geological map data

OneGeology portal received 128,000 visits in period

1. Europe 91939 (71.99 %)
2. North America 18033 (14.12 %)
3. South America 4359 (3.41%)
4. Asia 4198 (3.29%)

And from the following countries:

1. Italy (33.44%)
2. USA (12.13%)
3. France (8.83%)
4. UK (6.23%)
5. Germany (5.72%)
6. Netherlands (2.46%)
7. Brazil (1.38%)
8. China (1.20%)

Improve the accessibility of geological map data

- New version of OneGeology portal (updates, user interface improvements, new version of catalog,...)
- OneGeology-Europe project has delivered 20 national Web Feature Services which are using a harmonised European chronostratigraphic and lithological data specification (consistent with IUGS-CGI specifications). A global first!
- Data for the Russian Federation will be served during 2011.

Exchange know-how and skills

- The WMS Cookbook updated several times
- New WFS cookbook will be produced over the coming year
- An open technical meeting and workshop was held in Ghana in October 2010.
- At 23rd Colloquium of African Geology in January 2011, Johannesburg. OneGeology held a workshop in association with GIRAF network and AEGOS.
- ESRI Grant offer being taken up
- Good links with YES

Exchange know-how and skills

- OneGeology-Europe project significantly improved the competence of EU geological surveys in data standards, access and a range of digital map capabilities. All this know-how is now available through documentation to OneGeology global participants.
- GIN project in the USA is sharing methods and understanding in providing data access via web systems.
- OneGeology web site provides general and specific technical guidance and queries are answered via email and phone calls.
- The buddy system is being used by 15 nations.

Accelerate interoperability

- GSO move to WFS means they are fully incorporating GeoSciML standards.
- Currently there are 23 WFS services,
- OneGeology-Europe took forward, enhanced and deployed the geological concept definitions and vocabularies developed by the IUGS-CGI GeoSciML team.
- This helps the geological sciences move on from interoperability to semantic harmonisation

Accelerate interoperability

- The technical workshops and training courses in Ghana and Columbia help ensure that OneGeology methods and IUGS-CGI standards are being taken up progressively across the globe.
- OneGeology is an active contributor to GEO/GEOSS
- Significant amount of joint activity has taken place including OneGeology featuring strongly in the GEO Ministerial Summit in Beijing in November 2010.

Use OneGeology profile to increase awareness

- Website is dynamic and is updated at least weekly.
- Three editions of the newsletter have been produced with a fourth due for publication in the summer. (disseminated to over 2000 contacts worldwide).
- 40 presentations have been given by OneGeology team members plus a number of articles and papers
- OneGeology was featured in ArcNews, 175 BGS 175th Anniversary science seminar.
- IJ continued to serve on a US National Academies/National Research Council Committee reviewing an SDI to support USGS future science.

Use OneGeology profile to increase awareness

- The European Environment Agency agreed an MoU with EuroGeoSurveys to use OneGeology (European) data
- OneGeology participants and the secretariat have improved the content of '**OneGeology4Kids**' pages and these have now been translated into several languages. They are a fun introduction to geology linked to OneGeology maps and aimed at children under 10 years. We now need offers of translations into Spanish, French, and German! (The USGS is using them to contribute to a President Obama initiative – getting kids outdoors!)

Thank you....

to all the geoscientists, information experts,
managers, communications people around
the world, without whom OneGeology would
still be an idea

