OneGeology Technical Implementation Group Meeting

DATE: 13 June 2018

TIME: 09:00

VENUE: Geological Survey of Canada, Vancouver

ATTENDEES	
Member reps in person	
James Passmore (JP)	BGS - TIG Co-Chair
Nicolas Mauroy (NM)	BRGM - TIG Co-Chair
Tim Duffy (TD)	BGS - OneGeology Project Manager
François Robida (FR)	BRGM
Matt Harrison (MH)	BGS
Virginia Hannah (VTH)	BGS – Note taker
Dr. Shinji Takarada (ST)	Geological Survey of Japan
Christelle Loiselet (CL)	BRGM
Eric Boisvert (EB)	NRCAN/GSC
Boyan Brodaric (BB)	NRCAN/GSC
Urszula Stępień (US)	Geological Survey of Poland / Polish Geological Institute
Maria Glícia da Nóbrega Coutinho (MG)	Geological Survey of Brazil (CPRM)
Hiran Silva Dias (HD)	Geological Survey of Brazil (CPRM)
Patricia During Jacques (PJ)	Geological Survey of Brazil (CPRM)
Ollie Raymond (OR)	Geoscience Australia
Michael Sexton (MS)	Geoscience Australia
Observers (obs.)	
Zhang Minghua (ZM)	Chinese Academy of Geological Sciences
Yongzhi Wang (YW)	Chinese Academy of Geological Sciences
Mark Rattenbury (MR)	Geological and Nuclear Sciences Limited (GNS Science)
Steve Richard (SR)	US Geoscience Information Network (USGIN)
Remote	
Franck Theeten (TF) **(obs.)**	Royal Museum for Central Africa (RMCA)
Apologies	

Kristine Asch	International Union of Geological Sciences (IUGS)
Héryk Julien	NRCAN/GSC
Carlo Cipolloni **(obs.)**	Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA)
Lucie Kondrova **(obs.)**	Czech Geological Survey
Martin Schiegl **(obs.)**	Geological Survey of Austria (GSC)
Jouni Vuollo **(obs.)**	Geological Survey of Finland (GTK)
Invites were sent out to all technical contacts for OneGeology member organizations	

Agenda Item 2: Outstanding actions

Minutes of the last TIG meeting (Vienna 23/05/2017) were accepted as correct.

Actions arising from the last meeting

Action 1: James and Agnes to work together to resolve this CSW catalogue URL issue - **CLOSED**

Action 2: The initiator of new issues on the forge to CLOSE issues that have marked Resolved once both sides are satisfied with that proposed resolution. In this case BGS needs to close #16610 and #16609. **CLOSED**

Action 3: FR to get Francois T to double check the old URN support has gone, and correct up-to-date CGI and INSPIRE HTTP-URIs are being used**: Remains open on the forge, issue #14040**

Action 4: FR to check with his team again if it is possible to Search by keyword (where keyword is a phrase). **Was demonstrated as working in the new portal (http://portal.onegeology.org/OnegeologyGlobal/), but is currently case sensitive.**

New Action: BRGM to investigate making the search non case sensitive (forge issue #13925 was updated)

Action 5: JP and FR to revisit the issue and report again (clarify) the issue(s) to both satisfaction

Was demonstrated as working in the new portal

New Action: BGS to close forge issue #13900

Action 6: FR will discuss this proposed 4-keyword solution with Agnes/Francois T. **Was not actioned, and related forge issues are still open #14324, #13909**

Action 7: James to send Ollie the pattern for OneGeology SLD. - **CLOSED**

Action 8: FR to discuss with OGC, putting money towards getting an OpenLayers developer to put WMC content back into OpenLayers. The next day OneGeology workshop on LOD requested that for now (until OWSContext was supportable) the OneGeology portal continue to support WMC output.

- **No discussion with OGC on the matter has so far taken place**.
- **The new portal was released with export support for WMC**

Action 9: FR: to discuss with Agnes whether new portal will drop French language support and to look at the above GFI (GetFeatureInfo) issues. -

- **Discussion about French language was had and the decision was to drop French language support in the new portal**
- **The new portal was released with same potential issue for GFI responses**

New Action: BRGM to investigate using iframes or tabs to show GFI responses in the future portal

Action 10: Agnes' team to complete the agreed action/fixes above in section 3 and release the next draft version of the new portal – it was noted that this would not happen until well into summer 2017.

- **The new portal was released in December 2017 with the majority of issues mentioned resolved. Unresolved issues from the road map not already covered above are:**
- **Map layer stats (forge issue #16387) is still under development and progress reported on elsewhere in this meeting**
- **Monitoring services, is still under development and progress reported on elsewhere in this meeting**

Action 11: BRGM to Refresh GEOSS relationship, register new OneGeology CSW endpoint. - **Was not actioned.**

Agenda item 3 and 4 Combined: Current portal/catalogue/web site/cookbook developments and Agenda item 4 **Usage reporting** were combined

NM gave a presentation on an in development version of the portal (http://onegeology.brgm-rec.fr/1GG-CAN-2018/)

NM proposed to seek agreement from the board to continue with the current developments of the roadmap as outlined in the presentation, focusing on the features to help user navigation and update the GeoNetwork catalogue to fix the bugs and ability to handle HTTPS services.

NM gave a report on the use of the PIWIK open source analytics tool to show breakdown of portal usage.

NM asked the TIG to report on what statistics should be collected.

ACTION: After table discussion NM agreed to speak with Michael (GSA) to discuss how GSA are currently capturing the data and possibly using these techniques to enhance stats already captured in the portal.

ACTION: TIG to ask the OneGeology Board, what they would like to see/do with the statistics and the information that are currently being produced via the portal.

JP asked whether it would be beneficial to pay for the premium version of the PIWIK Tool

JP gave a quick demonstration of the new web pages, which are better linked with the portal and catalogue. The aim for the technical pages was to make them more intuitive and more thematic, splitting up the cookbooks by software and interface standard where necessary as well as providing generic pages. The old cookbooks still currently exist as they are linked to by numerous external sources. The new technical pages now include support for ERML and ERML-Lite. The how to use the portal pages have not yet been updated, pending release of the new version of the portal.

ACTION: All TIG members are asked to visit the technical pages and feedback to the OneGeologyhelp with any ideas or suggestions.

Agenda item 5: **Adding 2.5D/3D capabilities**

NM gave a video of the 2.5D/3D capabilities of an in development version of the portal (http://onegeology.brgm-rec.fr/1GG-CAN-2018/) that uses the CesiumJS (JavaScript) libraries to allow the 2D WMS layers to be draped onto a globe within the same OpenLayers client used by the portal.

NM gave a video of the 3D model discoverability and X3DOM visualization tool built into the development version of the portal (http://onegeology.brgm-rec.fr/1GG-CAN-2018/) using a tool developed for another project (SCUDDD) with an example linked to an EPOS GeoSciML-Lite ModelView WFS. The intention of SCUDDD was to have a one interface for discoverability etc. able to access models in original format from different modelling software.

There was a general discussion on the technologies utilized, and the requirements for a generic API to access model metadata. At the moment all the models are stored in a single location (on a BRGM server) but the end goal would be to have an API that could access distributed services.

It was agreed that model discoverability (access) and visualization of models should be a priority, rather than querying, and that OGC and CGI standards should be used where possible.

There was a discussion on the role of the TIG with respect to 3D developments.

ACTION: The TIG should interact with OGC Borehole Interoperability Experiment (IE), to ensure that the OneGeology 3D use cases for boreholes are included.

ACTION: TIG to review current status with APIs for model discoverability and visualization including cross-sections and compile a comparable report of possible solutions, for the next OneGeology Board telephone conference in the autumn.

Agenda item 6 (**Adding ERML support**)

JP gave a report on the current status of ERML-Lite services that could be incorporated into the portal, and on the development of an SLD loosely based on the INSPIRE Technical guidance for Mineral Occurrences.

There was a discussion on whether to add portrayal tools for ERML-Lite services

ACTION : BRGM to add the minerals portrayal tools for ERML-Lite services to the portal, specifically to allow symbolization on commodity, mineral occurrence type and mines operating status.

ACTION : JP to push out view on top of existing ERML layers from M4EU to create ERML Lite service for the OneGeology portal.

Agenda item 7: Linked data for OneGeology services/data

EB Gave a demonstration of the NRCAN/GSC prototype linked data viewer application (https://geoconnex.ca/gsip/app/index.html) showing relationships between Hydrogeologic units and GeologicUnits such as https://geoconnex.ca/gsip/info/hydrogeounits/Richelieu2

There was a discussion on how to use linked data to link to geological maps, and a decision was made to move forward with the use of OGC Web Map Context (WMC) / OGC Web Services Context.

ACTION: BRGM to re-instate capability to support loading and using WMC in the portal to facilitate Linked data.

Agenda item 8: Improving search, discoverability and use of OneGeology data and services…

Most of discussion for this item was covered by discussions elsewhere in the meeting. Such as possibility of having /developing widgets designed to use OneGeology services, like some sort of containerization (e.g. Docker), and Jupyter Notebooks for scientists to develop their own workflows.

It was discussed whether there was any scope for onegeology members to help in developing tools and software, outside of the portal to help with better use of for example WFS, SLD creation, WMC, OWS context, including development of Python libraries, and also what could the OneGeology technical group could do to improve configuring of services and data for service providers.

ACTION: TIG to seek approval from OneGeology Board, to move forward with the discussed next stages.

It was agreed that it would be nice if we could have the Portal OpenLayers client code and even the Forge to be put into an open (source) location, so that all in the team could put in manpower/hours to help develop and maintain it.

ACTION: **BRGM to investigate a more open repository for OneGeology code and report findings to the next Board telephone conference in the autumn.**

Agenda item 9: Forge issues/enhancement requests

The BRGM Forge for issue tracking was demonstrated to new TIG members. Issues were reviewed and it was agreed that most forge issues had been covered by previous agenda items.

Items not covered were:

GeoSciML 4 /4.1 issue #18382.   It was agreed that both versions need to be supported in the portal, but version 3 is support is no longer required.

Agenda item 10: AOB & Meeting Round-Up

MH advised that the OneGeology Board may look into producing a Science Strategy and the TIG could be asked to direct how this goes. He suggested that the TIG may need to be more responsive to other tools and platforms.

TD advised that the ESRI grant support system for OneGeology users has been rolled out for a further 3 years. The ArcGIS INSPIRE module has been added and can be obtained with a letter from OneGeology. ESRI are now looking to support GeoSciML 4

Urszula identified some issues with the Simple Lithology vocabularies; Mark Rattenbury advised that CGI draft the vocabularies and they should be contacted with any change or addition requests.