

CGI Working Groups

• GeoSciML

This OGC Standards Working Group is a collaboration with CGI, refining and publishing a geology data model standard for enabling the exchange of geological information. The standard has already been widely adopted by geological surveys and can be used to integrate information and provide harmonized views across borders.

<https://cgi-iugs.org/project/geosciml/>



• EarthResourceML

This CGI working group is refining early versions its mineral resources, mining and exploration data model to share and exchange natural resource information. The standard is being used in many geological surveys to enhance the discoverability and accessibility of their resource and extraction industries.

<https://cgi-iugs.github.io/project/earthresourceml/>



• Geoscience Terminology

This CGI working group is compiling and publishing hierarchically-organised vocabularies of geoscience terms with their meaning, groupings, sources and synonyms. Multi-lingual translations are becoming available. The vocabularies are machine-readable and are integrated with the GeoSciML and EarthResourceML data models.

<https://cgi-iugs.github.io/project/geoscience terminology/>

• Geoscience DWG

This OGC Geoscience Domain Working Group is a collaboration with CGI to connect domain experts to develop, improve and promote information exchange technologies in emerging geoscience areas. Current projects include drill hole data interoperability and the interface between earth and building information.

<https://cgi-iugs.github.io/project/geosciencedwg/>

• Deep-time Digital Earth STG

The DDE Standards Task Group supports the major international IUGS Deep-time Digital Earth initiative through the development and inclusion of information standards. This relatively new project will result in a massive digital geoscience information resource covering most aspects of Earth's geological history built around good data management practise.

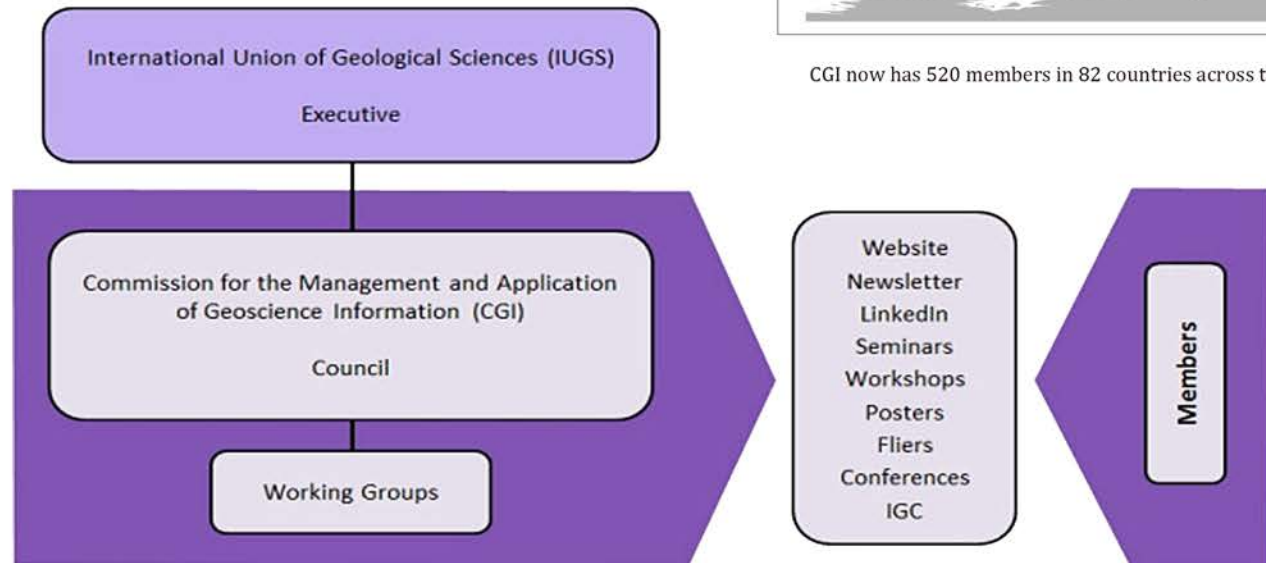
<https://www.ddeworld.org/working/>



Partners

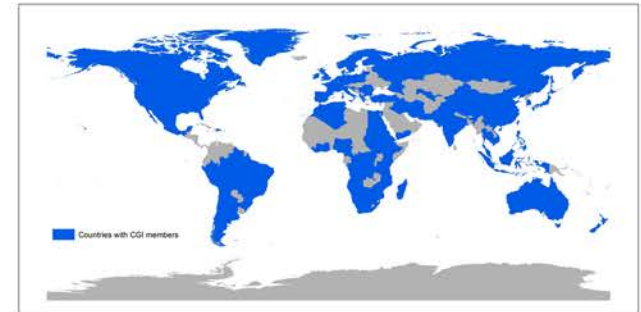


CGI Structure



CGI's role within IUGS science policy

The CGI fills the role of the geoscience information body of the IUGS. It represents IUGS on geoscience information matters, provides the means for transferring knowledge on geoscience information and systems, assists international dissemination of best practice in geosciences information, stimulates and supports initiatives which are developing standards.



CGI now has 520 members in 82 countries across the world.

CGI's mission

To foster the interoperability and exchange of geoscience information of the entire earth-system, by active community leadership, collaboration, education, and the development and promotion of geoscience information standards and best practice.

CGI's vision

- that geoscience information can be exchanged, understood, and used without limitation.
- that geoscience information can be readily integrated with standards-based information from other knowledge domains.
- that geoscience information is semantically rich and structured to enable seamless interaction in all environments.
- that global education about the management, modelling, exchange, and use of geoscience information enables its best possible application.
- that geoscience information is used for the benefit of all society.



<https://cgi-iugs.org/>

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The Commission for the
Management and Application
of Geoscience Information (CGI)