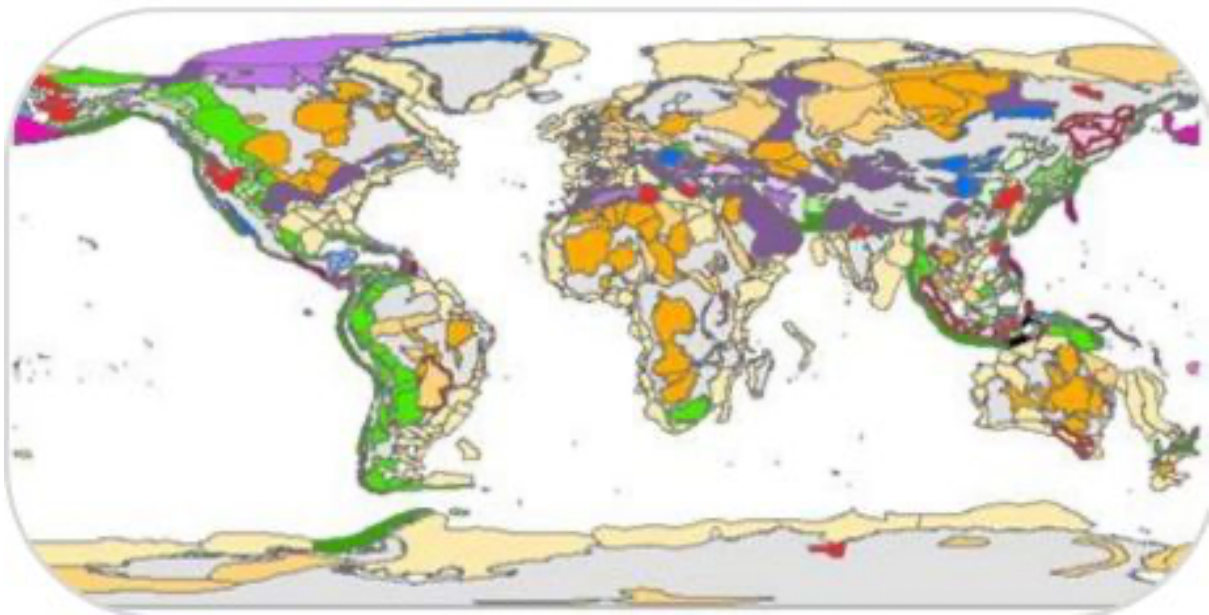


Global Basins Round Table



Amira Global would like to invite you to a round table to discuss its new P1336 Global Basins Project. At this stage we are inviting all interested industry stakeholders to come along to an online informal presentation. We invite feedback from potential Industry sponsors to assist with co-creation of an impactful project.

DATE: Monday 27th May 1-2pm

This will be a hybrid event hosted in person at CET, University of Western Australia and online.

Agenda:

(5 mins) - Welcome & Introduction to Geoscience Framework- Amira

(10 mins) - Introduction to Global Basins project structure and opportunities- Amira

(15 mins) - Australian Global Basin Hub – Weronika Gorczyk, Centre of Exploration Targeting, University of Western Australia

(30 mins) - Discussion

Executive Summary

Transition to the new energy economy and meeting associated targets set for CO₂ emission reduction will require discovery and mining of new mineral deposits on an unprecedented scale to provide key metals and minerals, including copper, nickel, cobalt, graphite, lithium, rare earth elements, zinc, aluminium, and platinum group elements. The significance of sedimentary basins is already evident as sediment-hosted stratiform copper (SSC) deposits account for about 20% of global copper production and are the planet's fourth-largest source of silver and the most important source of cobalt.

Basins, however, have been underexplored by the minerals industry over the last 2-3 decades, resulting in a significant knowledge gap. This initiative will launch a systematic, holistic, and consistent globally linked, multidisciplinary study of basin metallogeny to ensure a productive and sustainable future for the next generations.

The goal of the Global Basins Project is to drive a step change in knowledge and methodologies in Earth Sciences relevant to mineral exploration within sedimentary basins. The Global Basin Project aims to accomplish this by setting up a series of regional hubs to lead local basin research, along with data, knowledge, and expertise aggregating and sharing schemes between these hubs.

The Australian hub will focus on integrating stranded data (such as data in research papers) and additional datasets, including petroleum data and hydrogeological data, as well as developing global analogues for Australian basins and aggregating data attached to them.

Background

New opportunities for multidisciplinary research on sedimentary basins are underpinned by significant information technology advances for data acquisition, storage and analysis. The growing interdependence of the world's economies, cultures and populations provides an excellent opportunity for this integrated global project, with knowledge and talent exchange to progress the exploration potential within sedimentary basins worldwide. A vast body of accumulated knowledge regarding sedimentary basins exists; however, the data is not equally distributed with respect to water, petroleum, and mineral exploration. The flow of information and expertise between these sectors has been historically limited. In addition, the exchange of knowledge between geographical regions has been restricted by barriers of language, geopolitics, levels of development and theme.

In its pilot stage, the Global Basins Project aims to integrate existing multidisciplinary data and knowledge through time and space relating to multiscale basin evolution to highlight global (process-related) and local (geography-specific) knowledge gaps that will be tackled in consecutive projects under the Global Basins Project umbrella.

The Global Basins Project will achieve aggregation and integration of local datasets through web-based services within a common geospatial framework. Partnerships are being sought with institutions and entities who

specialise in the design and provision of data infrastructure that allows for large and disparate datasets and knowledge to be aggregated on a single platform whilst providing the means of acquisition, storage and analysis of these datasets via current advanced techniques. The platform will be based on the FAIR – Findability, Accessibility, Interoperability, and Reuse – of this digital asset.

The Global Basins Project will foster multilateral exchange and collaboration between the hubs to pave the way for a comprehensive understanding of basins from the viewpoint of metallogeny, to determine:

- how the basin evolved with respect to diagenesis and fluid composition,
- when major geological events that may have triggered fluid movement in the basin occurred,
- what exploration strategies would be effective to discover a deposit.

Next Steps

For further information please contact hayley.mcgillivray@amira.global

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