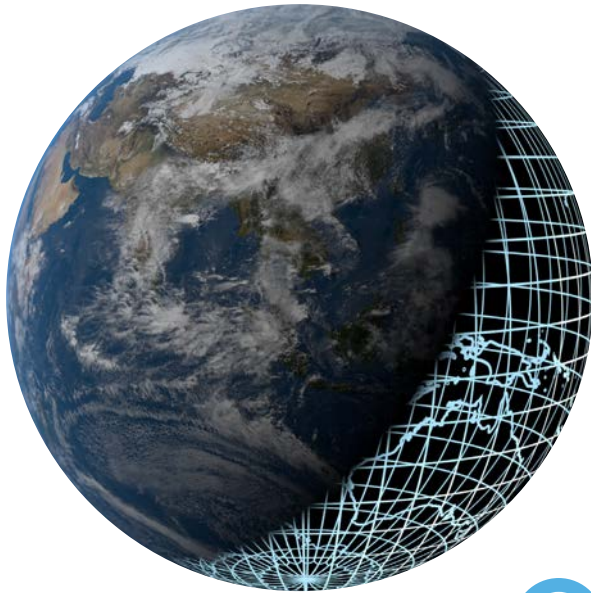


THE FUTURE OF 3D GEOSCIENCE





WE ALL SHARE ONE EARTH

We all live on one planet. We share the resources it provides and meet the challenges that it presents. While we may pursue them in different ways, we have the same goals: **sustainably developing our economies and the built environment, and keeping our communities safe from disasters.** Recognising our common aims is the **first step to achieving them.**



**Develop our
economies**



**Sustainable built
environment**

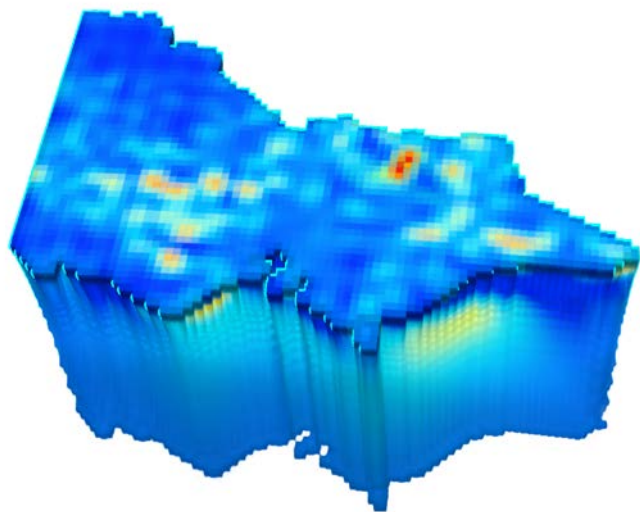


**Keep our
communities safe**

WE ALL SHARE ONE GEOLOGY

Geology has no borders. Countries that reside on different continents share the same architecture beneath the surface; they were once neighbours with common foundations.

In 2007, we recognised that we need to look beyond our boundaries to develop common data standards for 2D surface geology. With 119 countries on board, we have made great progress in achieving this aim. Interoperable geological data is now freely available to everyone for the benefit of society, demonstrating that geoscience can address both global and regional challenges.



WE CAN SHARE ONE VISION

We need to add a new dimension. Expanding on the knowledge and experience gained by developing 2D surface geological maps, we can build interactive, real-time 3D geological models.

The virtual reality technology to build this vision exists today. We can harness commercial software development expertise to adapt the technology to suit the specialised needs of geoscience. Data standards and rules are the common language we need to allow us to take advantage of these emerging technologies.



MODULAR APPROACH

Development at a global scale requires a flexible, integrated approach. Under a coordinated vision, multi-disciplinary teams will work on separate components in parallel.

Each module will address a separate component of the workflow, from observations in the field to 3D model production, including:

- 3D data standards
- Data pre-processing
- Structural modelling
- Uncertainty characterisation
- Mesh development



Why collaborate



**Faster and
more efficient**



**Reduced costs
for each country/
cost sharing**



**Global standards
and practices**

How to contribute



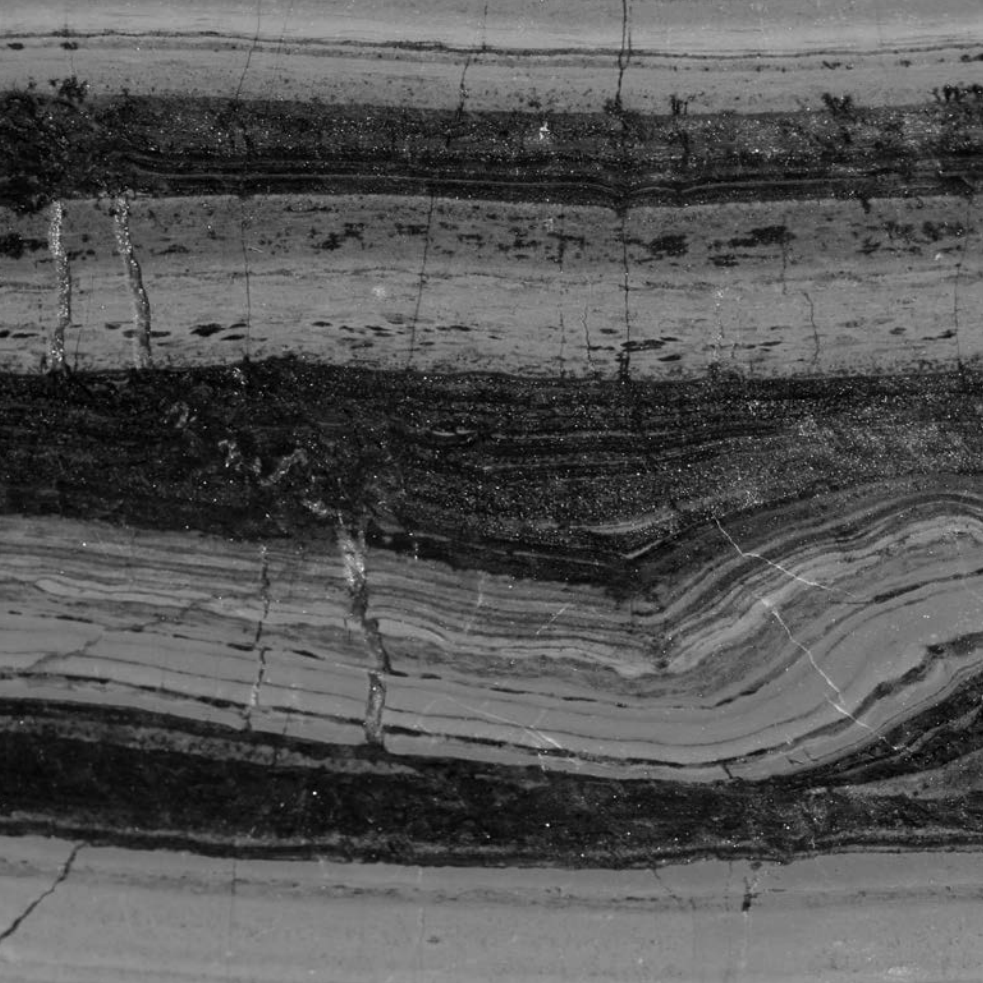
**Financial
investment**



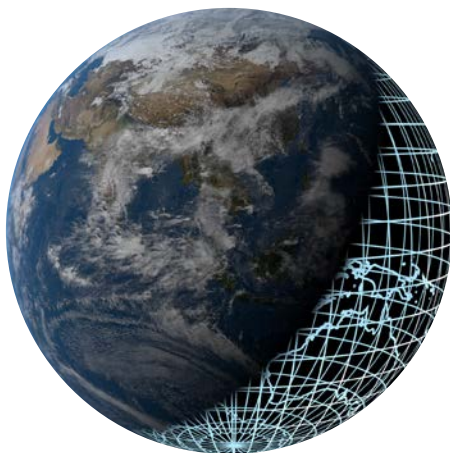
**In kind
contributions**



**Research or
scholarship
support**







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