



SEEQUENT

WHERE IS THE METAL?
3D MODELLING IN THE MODERN
MINERALS INDUSTRY

SARAH CONOLLY – SENIOR PROJECT GEOLOGIST



Where is the metal?

1. Who Am I?
2. Who are Seequent?
3. What is 3D geological modelling?
4. Live demonstration of the 3D modelling software.
5. Why?
6. A day in the life of a project geologist at Seequent.
7. Review and questions.

Who Am I?

- British, Australian, and soon to be Canadian Geologist.
- MSci Geology from Imperial College London – travelled and completed fieldwork across the UK and mainland Europe.
- Why geology? Curious of the world we live in, love of outdoors, tangible career.



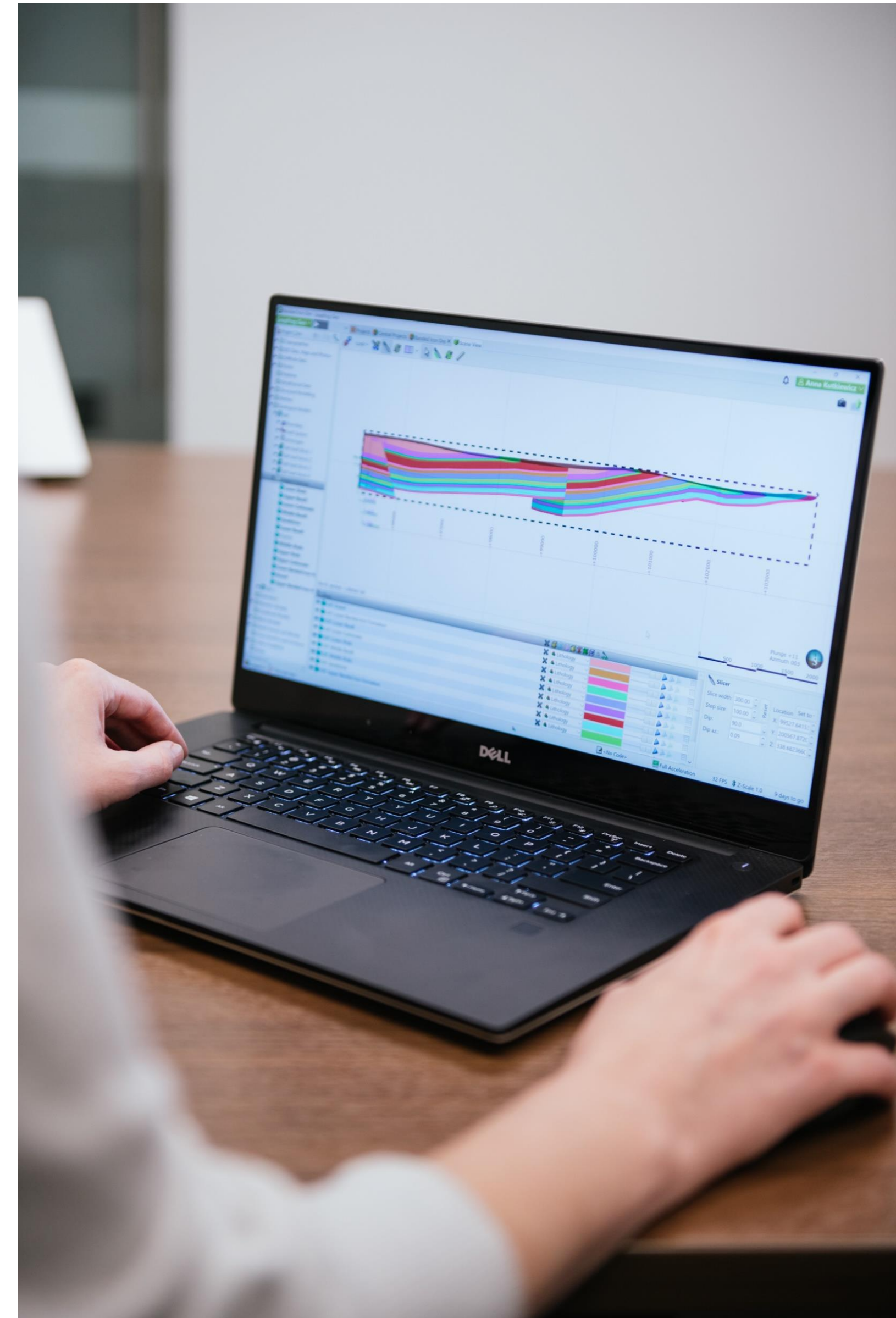
Who Am I?

- First job in an underground Zinc and Lead mine in Ireland.
- Moved to Western Australia and worked in various underground gold mines. Worked in the desert, lived on the beach - 'fly in and fly out'.
- Ten years working in active mines as a geologist at various levels.



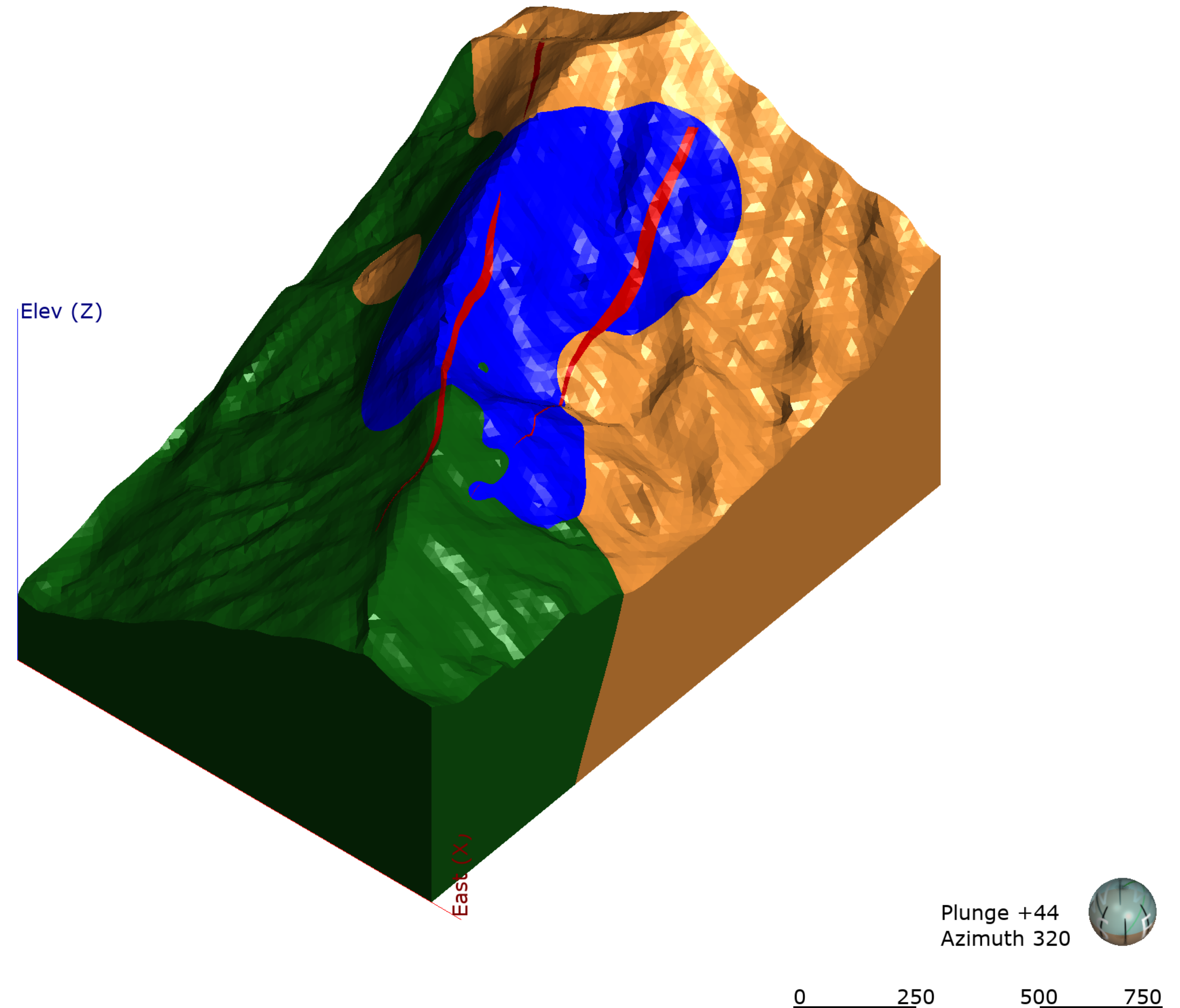
Who Am I?

- After gaining a decade of industry experience in mining moved into geoscience technology.
- My expertise is using Seequent's software to produce 3D geological models.
- Vancouver based, with some travel to both project sites and major cities in North America.



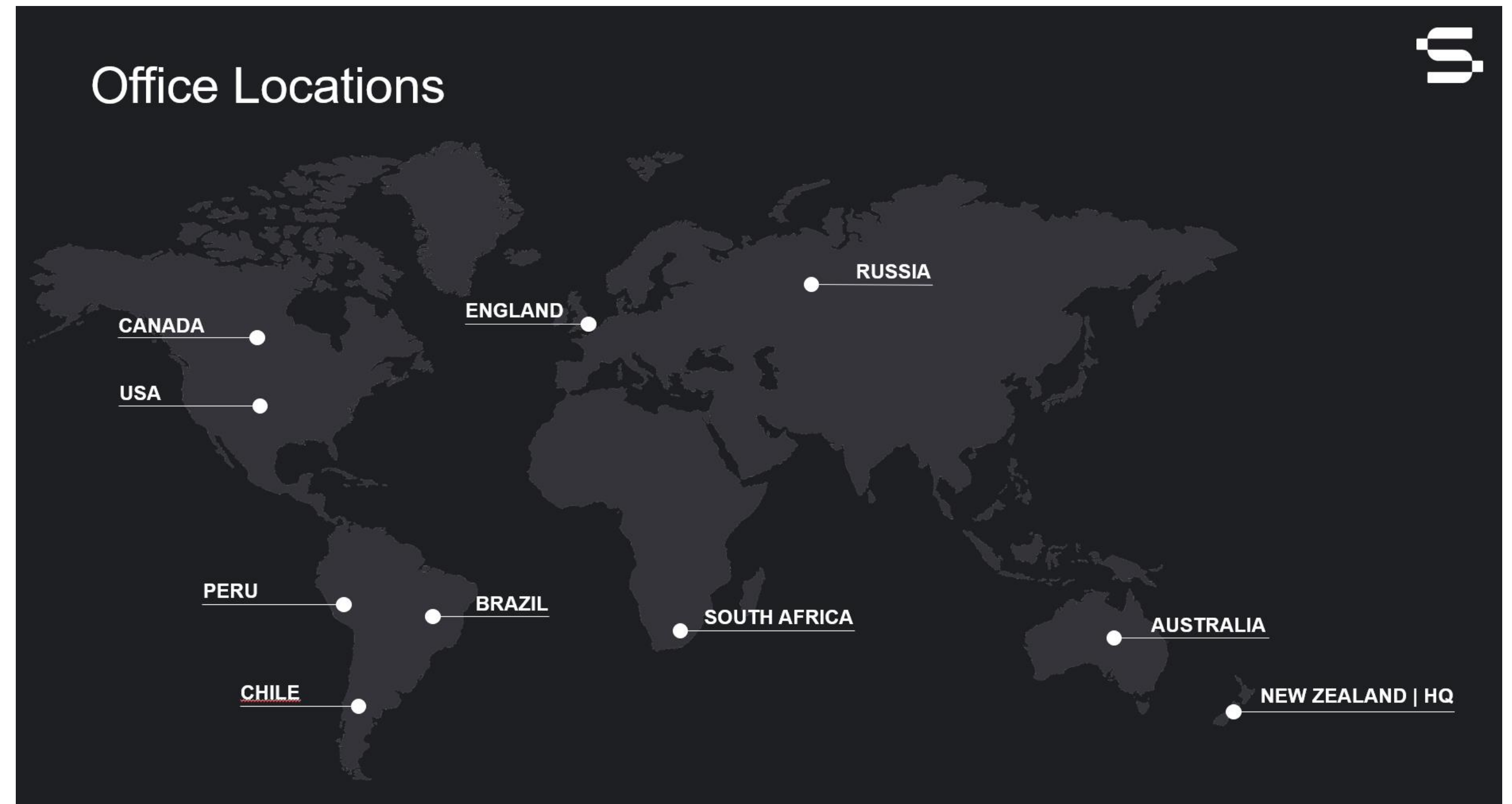
Who are Seequent?

- Developers of geoscience analysis and modelling software.
- Provide software solutions for the mineral exploration and mining, civil and environment and the geothermal industries.
- Multiple products for various specialities.



Who are Seequent?

- New Zealand company, global footprint.
- Approximately 450 employees.
- Geologists, software developers, business account managers, marketing team, administration and HR teams.



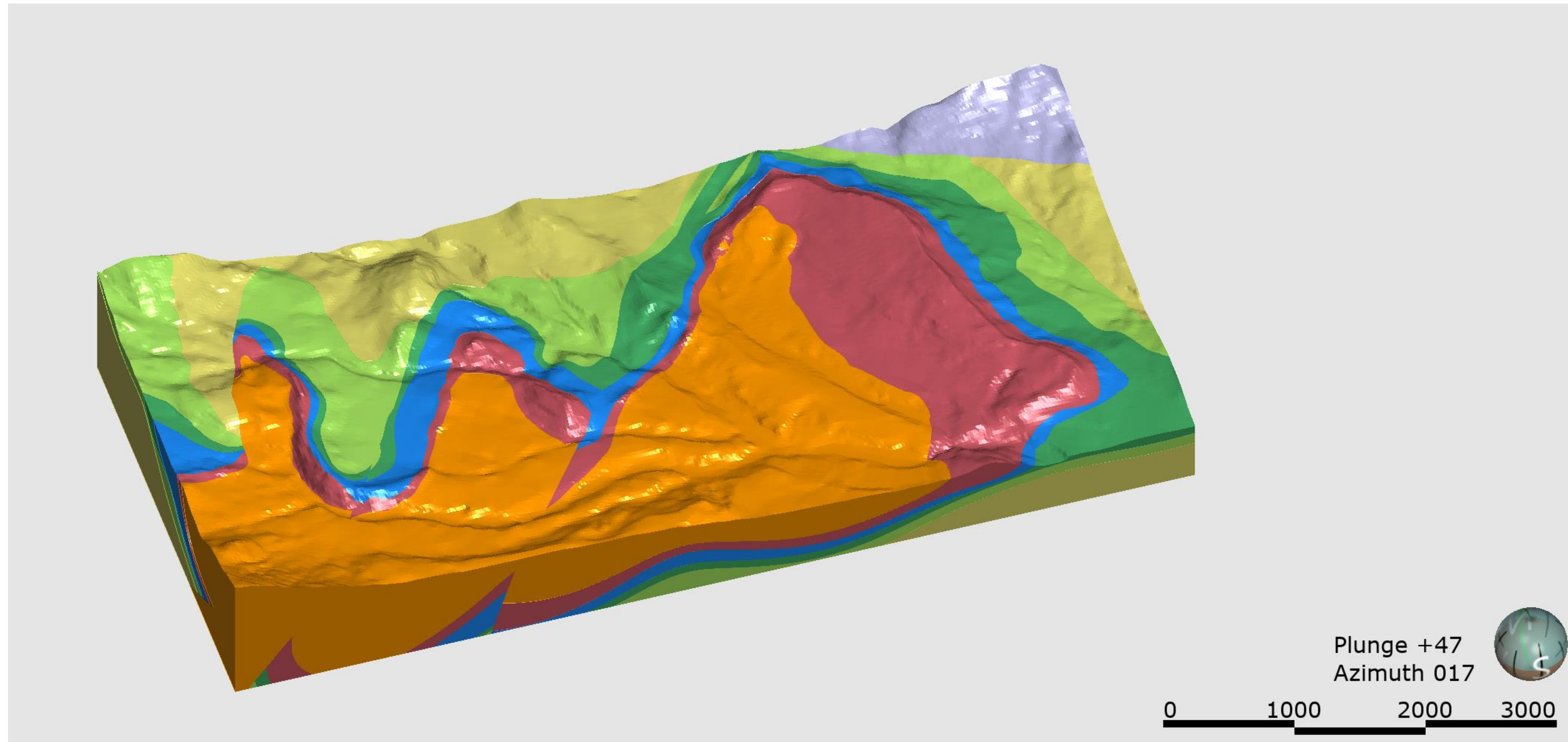
Seequent – North America

- Team of 24 staff in Vancouver.
- Seven on the technical team, seven in the sales team, mixture of others.

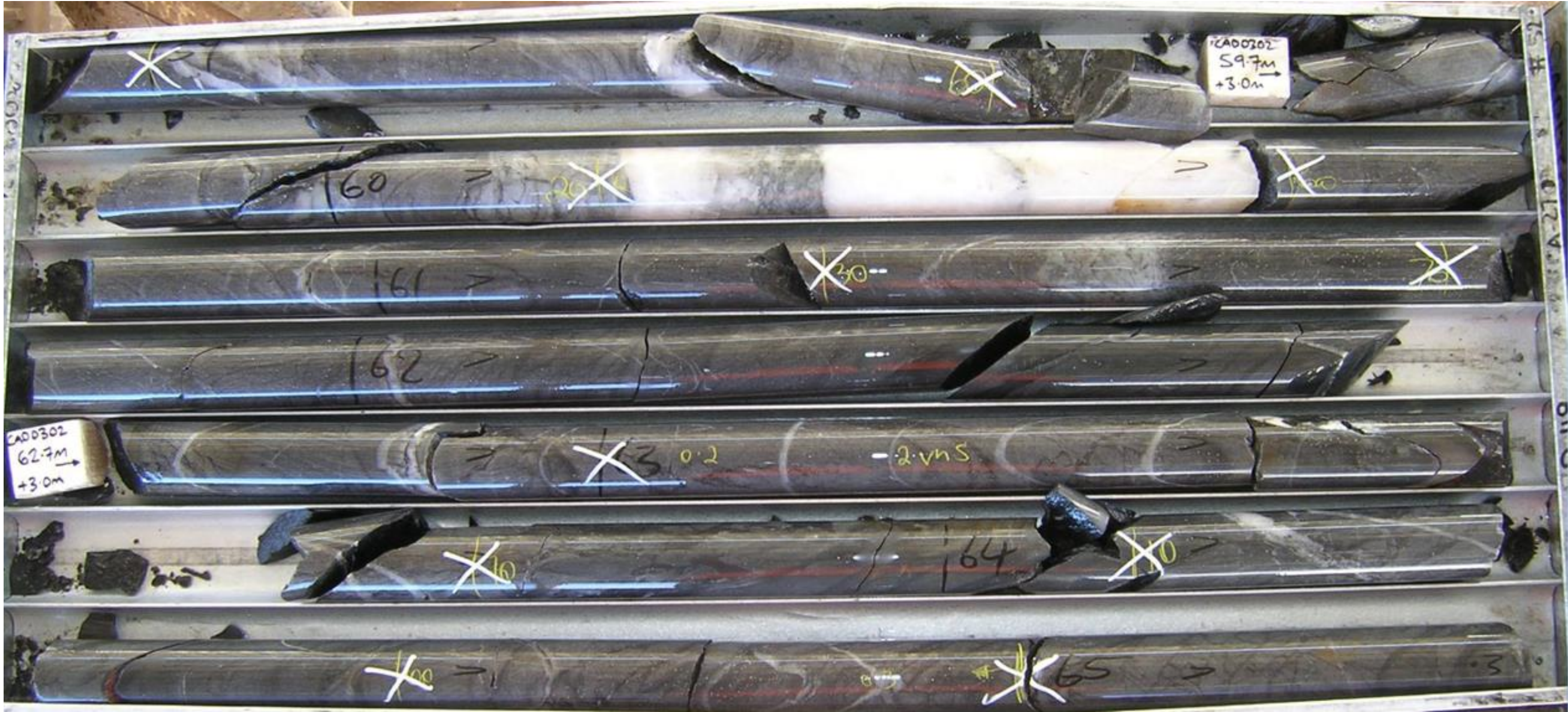


3D Geological Models

- Three-dimensional representation of what rocks are in the ground beneath our feet.

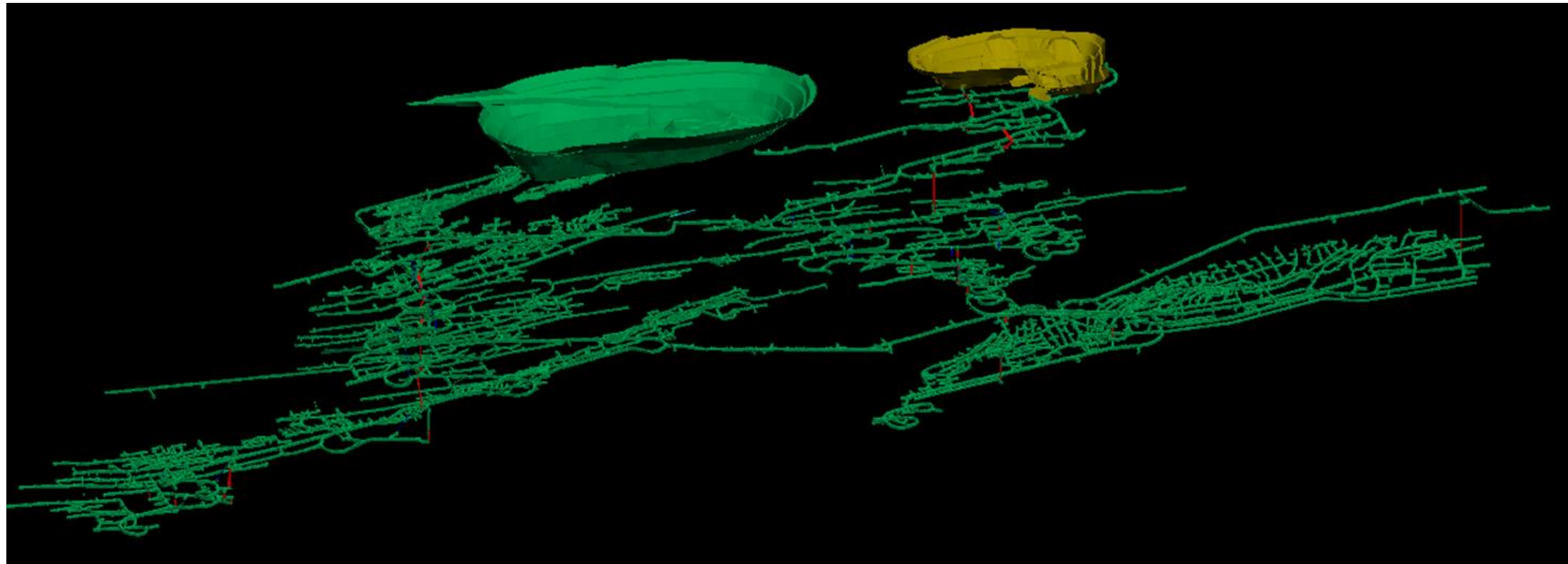


Live Demonstration



Why?

- Where are the rocks that contain the metal, and how much metal is in those rocks?
- To make good decisions!
- For exploration - a single hole 400m into the ground in northern Canada can cost > \$150,000 in some mountainous regions.
- A single mine can cost from 100 million dollars through to 6 billion dollars to develop!

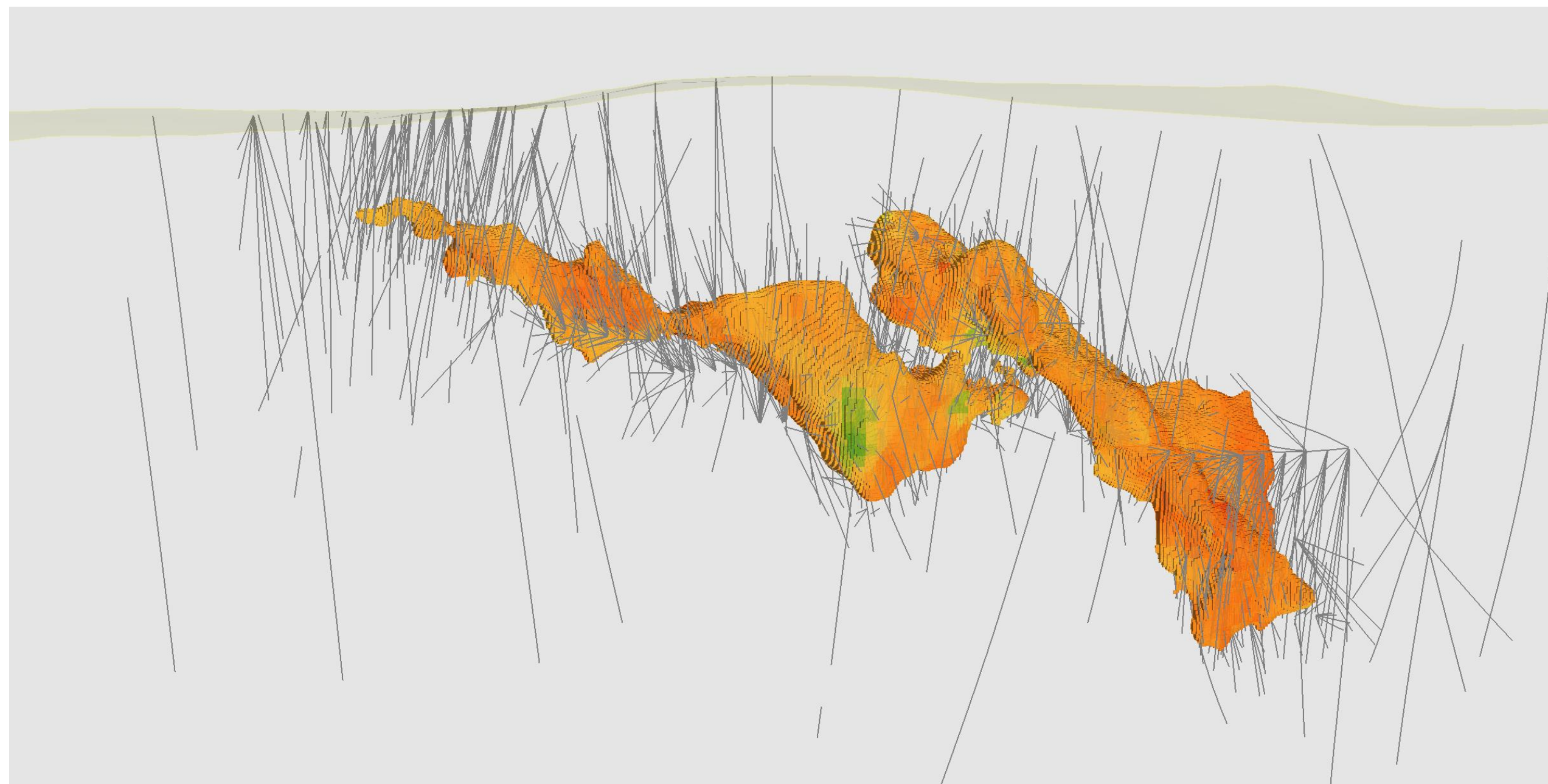
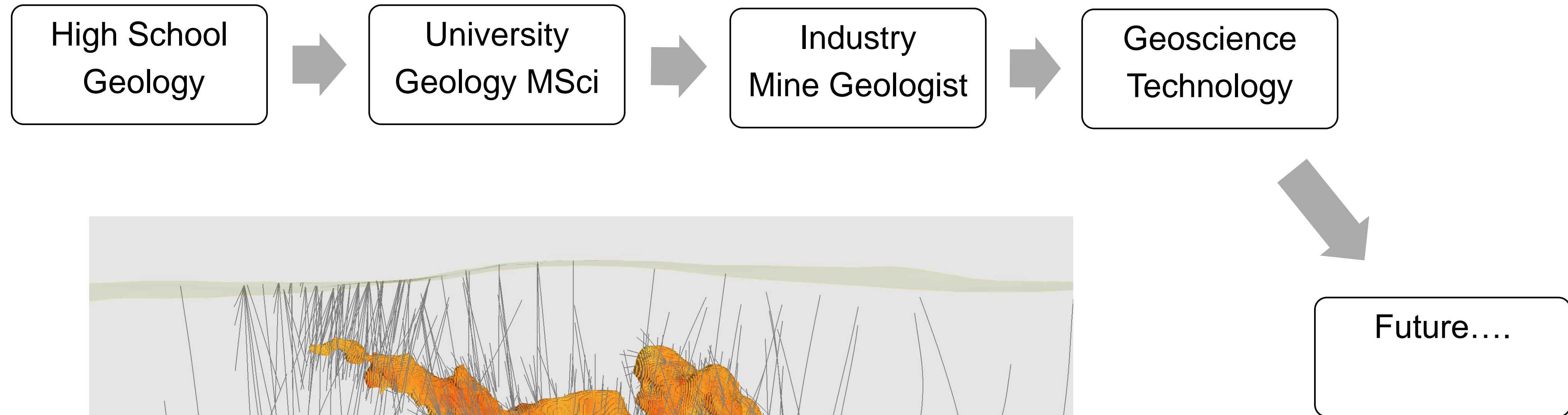


A day in the life of a Senior Project Geologist at Seequent.

- Varied!
 1. Training
 2. Technical support
 3. Account management
 4. Business development
- Technical, teacher, communicator, problem solver, team player, organiser.



My journey



Questions....?

