Why build 3D geological models?
Geology is a 3D science, so valid 3D geological models will improve your understanding of your projects.

Exploration
3D models will improve your interpretations and generate drill targets.

Resource Definition
3D models define domains and allow constrained resource estimations.

Mining
3D geological and structural models improve mine design, hydrology and geotechnical studies.

Why use SRK?
Until recently, generating 3D wireframe models was a very time consuming process. In 2001 SRK recognised the need for change and developed Leapfrog software with Applied Research Associates of New Zealand (ARANZ). Since that time we have continued to develop and expand our expertise in new geological modelling software, such as Geomodeller and GoCAD.

Our experience, combined with these new software tools, allows us to quickly build realistic 3D models, in regional areas with limited mapping or wide-spaced drilling and in advanced projects and mines, where complex geology and structural features can be modelling in hours or days, instead of weeks or months.

We love a challenge and look forward to discussing your geological modelling requirements with you.
The SRK approach

SRK encourages a collaborative relationship with its clients, building on their core geological skills to enhance exploration and mining projects. Employing a flexible approach allows full 3D models at a range of scales to be quickly constructed. However, we still use the traditional elements of data validation and analysis, conceptual geological models, interpretation and model construction in a true 3D environment.

By using implicit software, such as Leapfrog, SRK’s experienced geoscientists can add value to your projects in a cost effective manner.

Benefits of working in a 3D Environment are:

- True 3D consistency of data is maintained
- Surfaces can incorporate structural data - no longer a join the dots exercise
- Influence of specific drillholes or sections can be evaluated quickly
- No need for time-consuming tie lines or intermediate sections
- Time taken to complete the model is significantly reduced
- Deformed block models can model lithology properties around folds or across faults

If you require further information, or a competitive quote please contact the 3D modelling team on +61 8 9288 2000 or email 3dmodelling@srk.com.au

For more information on our services and a complete directory of our offices look us up at www.srk.com.au or give us a call.