Mira Geoscience
...modelling the earth

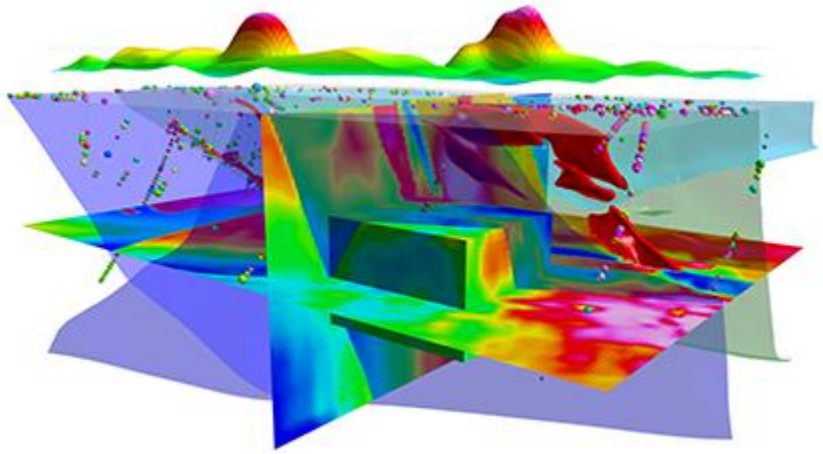
GOCAD® Mining Suite – Stratigraphic Modelling Package

GOCAD Mining Suite is the industry-leading platform for 3D integrated modelling of geological, geophysical, geochemical, structural, and geotechnical data. It specializes in the modelling of challenging environments within the realms of exploration, resource assessment, mine sites, and geotechnical modelling. It is the leader in 3D geological and structural modelling; excelling where drillhole control is minimal or non-existent, as well as in geologically-based 3D geophysical modelling and inversion, complex stratigraphic and fault modelling, geotechnical rock mass modelling and hazard assessment.

"I've had a chance to use SKUA (Implicit Modelling) on an active project and compare the results with conventional modelling. Generally, I've found most software looks good in the packaging and produces rather underwhelming results – SKUA was completely the opposite, I'm completely gobsmacked with how well it created an extensive, realistic regional model with a few scraps of a priori information."

-Adam Woolridge, Director – Xpotential Geoscientific Consulting

Use *all* of your data, *all* of the time



GOCAD Mining Suite is configured into packages specific to the minerals exploration and mining industry. The packages are designed to suit the specific requirements of geologists, geochemists, geophysicists, structural geologists, and geotechnical engineers. They are designed for integrated 3D model-building across all commodity types and geological environments, leveraging the core ability to import, create, and integrate objects of all types in a single environment. It is a true 3D GIS, where both vector objects (points, curves, and surfaces) and raster objects (grids/voxets) can be built, imported, edited, queried, and visualized. This Common Earth Modelling platform allows technicians, geoscientists, engineers, and managers to develop, share, and collaborate on data, information, and models regardless of their respective discipline.

We have a package configured for your needs:

Role	Geoscience Exploration Package	Advanced Interpretation Package	Geotechnical Modelling Package	Integrated Modelling Package	Advanced Geophysics Package	Stratigraphic Modelling Package
Technician	✓					
GIS Technician	✓					
Geomodeller	✓	✓				
Geochemist		✓		✓		
Geologist	✓	✓				✓
Geophysicist					✓	✓
Structural Geologist		✓		✓		✓
Resource Geologist		✓		✓		✓
Geological Engineer			✓			
Geotechnical Engineer			✓			

Stratigraphic Modelling Package

Users: Interpretation Geologists, Structural Geologists, Resource Geologists

Packaged specifically for modelling of stratified depositional environments and ore bodies with folded and/or faulted 3D grids in a stratigraphic space. This is a comprehensive offering that includes the full capability of the Advanced Interpretation Package plus industry-leading stratigraphic and structural implicit modelling. Contains complete geostatistics for resource modelling and estimation for stratified ore bodies, as well as structural restoration capability.

GOCAD 3D Mining Viewer + Foundation Modelling Module
Multi-Core Support for Foundation Modelling Module
Maps, Cross-Sections, and Log Display Module
Mining Utilities Module
3D-GIS Module
Well Correlation and Stratigraphic Analysis Module
Interpretation Modelling Module
Velocity Modelling and Time-to-Depth Conversion Module
+
SKUA Structure with Multi-Core Processing Module

- *Implicit modelling for stratified geological settings.*
- *Builds complex fault networks and stratigraphic horizons.*
- *Allows overturned folds as well as reverse and dying faults.*
- *Works in tandem with a stratigraphic column and includes depositional relationships between formations.*
- *Leverages multi-core processing capability for rapid processing.*

SKUA Stratigraphy and Fault Analysis with Multi-Core Processing Module

- *Implicit modelling of 3D geological grids for stratified geological settings.*
- *Builds the optimum grid for geostatistics; faulted and folded grids with parametric space equivalent.*
- *Leverages fault networks and horizon grid outputs from SKUA Structure.*
- *Provides the ideal grid for stratified deposit geostatistics and volumetric computation.*
- *Leverages multi-core processing capability for rapid processing.*

Reservoir Properties

- *2D and 3D geostatistical estimation and simulation workflows.*
- *Works with both continuous and discrete properties.*
- *Advanced search ellipsoid parameters.*
- *Post-processing functionalities for simulations.*
- *Wide variety of kriging and simulation methods.*
- *Proper geostatistical domain blending.*