GeoMine™

EFFICIENCY   PRODUCTIVITY   PROFITABILITY
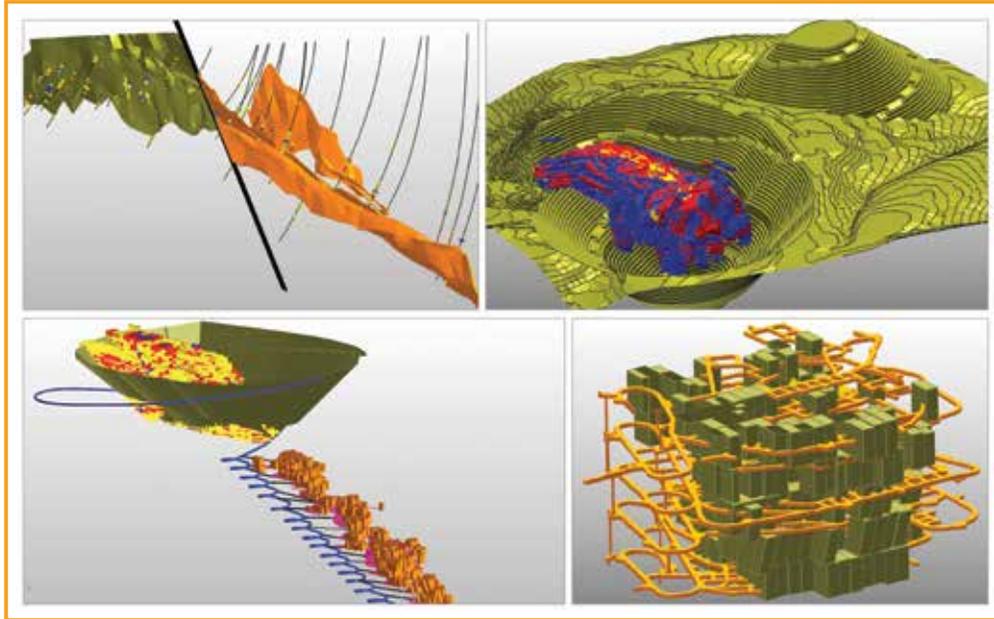
THREEDIFY®

FULLY INTEGRATED

Resource Modelling and Mine Planning Solutions for Mines of Every Type, Method and Commodity

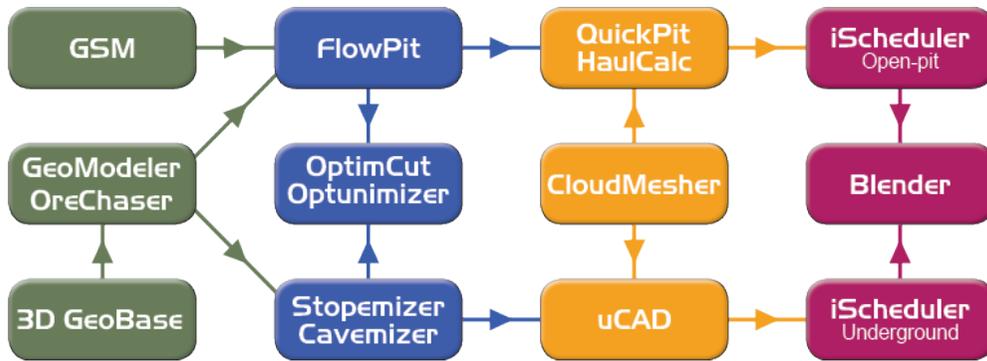**High Performance 3D/2D Modelling and Optimization**

TOOLS TO HANDLE BIG DATA

www.threedify.com

GEOMINE
Solutions for Open-Pit and Underground Mining

The Competitive Advantages of
GEOMINE

- **GeoMine** can create resource models in a universe with a record breaking size **that is over 1000 times larger than the 1 billion blocks** offered by traditional mining software packages. That empowers users to model their orebodies with a smaller block size to improve accuracy, or to model multiple satellite deposits in a single GeoMine project.

- **GeoModeler's** state-of-the-art surface based Dynamic Anisotropy interpolation system helps geologists improve accuracy of their resource estimates.

- **FlowPit** is much faster than other pit optimizers in the market and it can handle 100 million non-air blocks without use of super-blocking. It is well-known that super-blocking materially affects NPV or solution accuracy.

- **Stopemizer** uses anisotropic rotation angles for defining stope shapes and orientations to minimize dilution and increase mining recovery while respecting basic geometric and geotechnical constraints.

- **GeoMine's Visual Formula Editor** and parametric 3D design tools can be adapted to any deposit type with a variety of constraints, as well as " *what-if* " scenarios.

GEOMINE MODULES

- ▸ **GeoModeler** - powerful resource modelling & estimation tools
- ▸ **OreChaser** - Plan and Optimize your Drilling Programs
- ▸ **FlowPit** - high performance pit optimizer
- ▸ **QuickPit** - incremental and parametric pit designer
- ▸ **Stopemizer** - dynamic anisotropic minable shape optimizer
- ▸ **Cavemizer** - cave optimizer & parametric designer
- ▸ **uCAD** – 3D underground design toolbox
- ▸ **Optunimizer** - open-pit to underground transition optimizer
- ▸ **OptimCut** - cut-off grade optimizer
- ▸ **iScheduler** - strategic and tactical scheduler
- ▸ **Blender** - ore and stockpile blender
- ▸ **HaulCalc** - integrated haulage analysis & fleet budgeting
- ▸ **CloudMesher** - point cloud meshing toolbox
- ▸ **GSM** - modelling & design tools for stratified deposits

ThreeDify features Optunimizer, the **ONLY** Open Pit to Underground Transition Optimizer which takes guess work out of your mine planning

GeoMine-Optunimizer is being used on a global scale to help mine planners and investors determine the optimum open-pit to underground transition zone to maximize their deposit's economic potential.

Not only is Optunimizer a good tool to help mine planners determine the optimum transition zone, it can also help investors/shareholders to make informed decisions in the early feasibility studies on their investments.

We have helped some of our clients conduct feasibility studies on their projects via Optunimizer; after detailed " *what-if* " scenario analyses, they found the best strategies to achieve the fastest ROI.