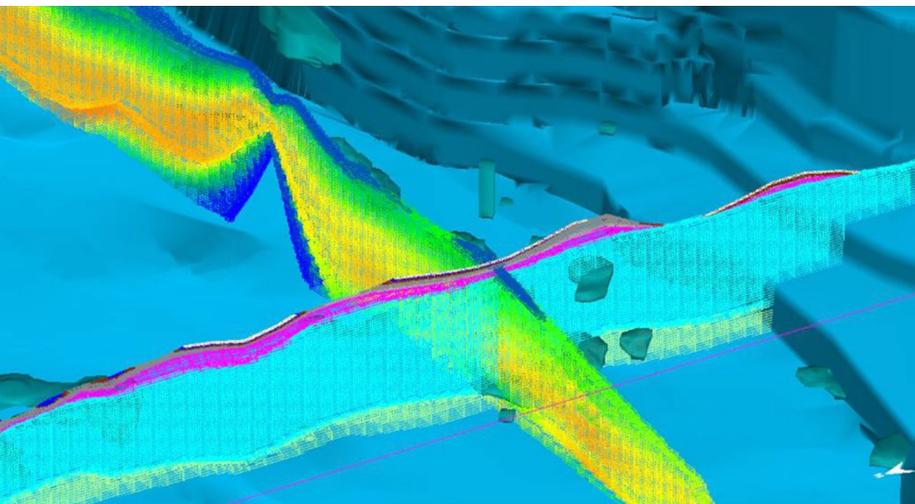INTELLIGENT MINING SOLUTIONS

# MineScape
## Block Model



MineScape Block Model provides a sophisticated environment where geologists or mining engineers can define modeling parameters for local geology, model grade, quality and other characteristics, and represent deposits of unlimited complexity.

## Accurate

The MineScape Block Model plug-in gives modeling geologists and engineers complete control over block model construction, sample selection, orientation and interpolation types.

Enabled with sub-celling capability, models can contain parent and sub-blocks created against any surface, wireframe or interval (including stratigraphic controls produced from the MineScape Stratmodel plug-in) allowing users to create block model spatial limits against real-world delineations such as overburden or weathering horizons, seam roof and floors or terrain models.

Geologists and mining engineers can generate accurate geological, quality and mine planning block models in any X, Y or Z orientation with any block size and run estimations using a full suite of industry-standard interpolators.

Blocks can also be sub-celled so that the block model can accurately define contacts and model around stratigraphic controls

When reserving, calculations can be run by level, material type, polygon, wireframe, and any block model attribute. MineScape's Block modeling plug-in fully integrates with MineScape's mine design and scheduling functionality, seamlessly informing downstream processes.

## Comprehensive

Thanks to the inherent integration with other components of MineScape, the Block Model plug-in directly accesses all available information and integrates with the reserves and quality sub-systems, as well as the 3D CAD system, including surfaces, vertical or inclined drill holes, survey data, digital terrain data, faults and washout zones to create a comprehensive, factually-accurate and complete model.

Models can display graphical results limitlessly, providing powerful visualization for presentation to anyone from geologists to mine planners to the mine manager.

Block Model also accesses and uses any other MineScape plug-ins, including Pit Optimization and MineScape Schedule, with export functionality to third-party optimization tools such as GEOVIA Whittle™ 4D.

## Reporting

Block Model is fully accessible for interactive graphical interrogation and viewing capability. Models can be sliced and intersected in any orientation to reveal graphical depiction of ore zones, dilution and grade trends against any block attribute. Reports, bar/frequency charts and grade tonnage curves can also be generated.

## Customizable

Block Model provides a flexible data structure that allows MineScape Expression Language (MXL) and MineScape Programming Language (MPL) to process or calculate block attributes such as products and grade equivalents automatically along user-defined parameters.

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