GEOVIA

3DEXPERIENCE®

GEOVIA ROLES
EXPLORING THE GEOVIA CAVING PORTFOLIO

PCBC is used by virtually every mining company involved in block caving who depend on it to improve profits through better mine plans, schedules and production management.

PCBC clients realize substantial increases in deposit value through more accurate resource estimations and reports, while benefiting from better dilution management and geotechnical stability.

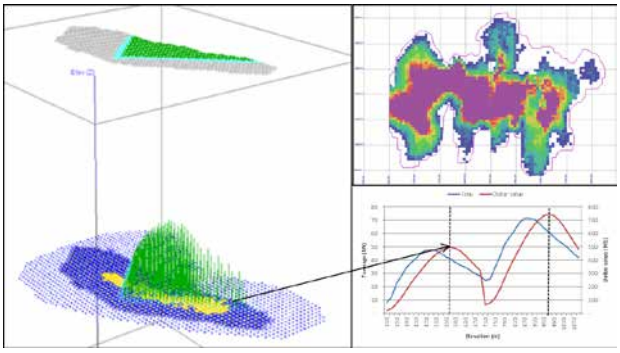
DASSAULT SYSTEMES

PCBC™

POWER AND FLEXIBILITY FOR YOUR BLOCK CAVE OPERATION

// CAVE FOOTPRINT OPTIMIZER

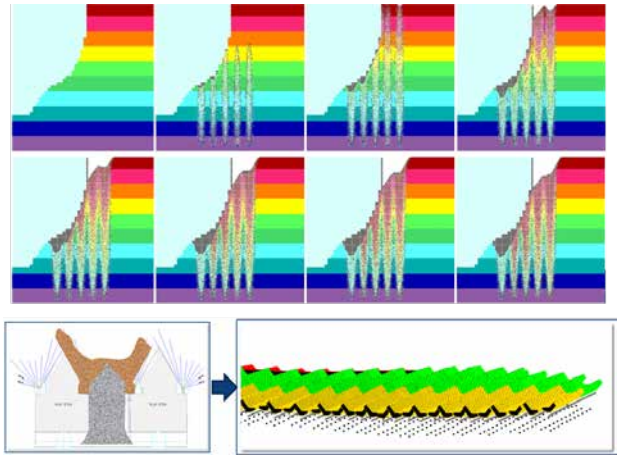
GEOVIA Cave Footprint Optimizer enables a quick study of different footprints at different elevations, useful for pre-feasibility studies. It allows for sequencing factored into discounted cash flow and multiple sector scheduling which includes multi-lift.



- Find the best elevation and orientation for locating a new extraction horizon for block and sub level caves
- Optimize the draw strategy for SLC
- Reduce risk for large capital projects by evaluation of multiple scenarios.
- Adjust the development rate, production rate, and mining sequence all within the Footprint Finder.

// CAVE MID-TERM PLANNER

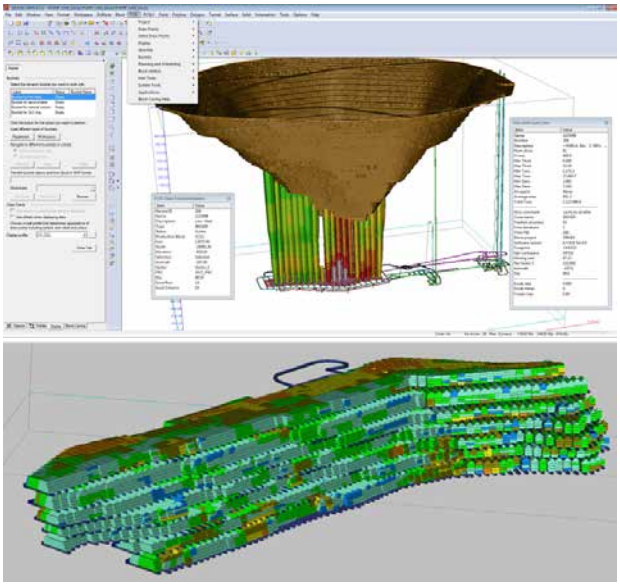
GEOVIA Cave Mid-term Planner enables the long and medium-term planning of a caving operation. Easily generate a production that allows you to improve the value of a project/mine while maintaining a practical mining plan and satisfying complex cave management logic adding multiples constraints, such as tonnage, grade and equipment performance.



- Create realistic undercut sequences in PCBC with operational constraints
- Design the undercut level with exact ring shapes and precise grades
- Use alternative flow models to help determine the best model to be applied to any site situation
- Have more flexibility in multi-lift caving environments
- Obtain a complete residual block model directly after the analysis

// CAVE LONG-TERM PLANNER

GEOVIA Cave Long-term Planner enables the long and medium-term planning of a caving operation, including detail analysis per draw point, flow model analysis, and calibration. It also automatically generates tunnels for a cave design - both for Block and Sub-level Caves.



- Better grade modeling and forecasting by using multiple material mixing options
- Evaluate long-term planning scenarios
- Define minerable reserves, allowing for easy delineation of practical footprints as well as sensitivity studies of price and mining cost variations
- Generate numerous production schedules to study the interaction of the key scheduling parameters
- Run concurrent analysis of results in Microsoft Excel

// CAVE OPERATIONS SCHEDULER

GEOVIA Cave Operations Scheduler helps manage the cave by storing past tons mined from draw points and using these to generate new daily draw orders for daily or shiftly operation.

- Keep production schedules current under dynamically changing conditions
- Spend less time creating scheduling options that satisfy daily production (grade, dilution, contaminants, etc.)
- Perform powerful production scheduling which can rapidly be updated and modified for real production statistics
- Use strong interface capabilities with LHD dispatch and monitoring systems
- Accurately predict the grade for selected draw points in the short-term

DASSAULT SYSTEMES | The **3D**EXPERIENCE® Company

Americas
Dassault Systèmes
175 Wyman Street
Waltham, Massachusetts
02451-1223
USA

Europe/Middle East/Africa
Dassault Systèmes
10, rue Marcel Dassault
CS 40501
78946 Vélizy-Villacoublay Cedex
France

Asia-Pacific
Dassault Systèmes K.K.
ThinkPark Tower
2-1-1 Osaki, Shinagawa-ku,
Tokyo 141-6020
Japan