

MINESIGHT® STRATEGIC PLANNER

OPTIMAL LONG TERM PLANNING

OVERVIEW

MineSight Strategic Planner provides the level of detail required by the mining industry for full feasibility studies of new and existing mines to ensure that the long term life-of-mine plan can be used effectively by short and medium term mine planners as guidelines for their work.

MineSight Strategic Planner analyzes bench pushback reserves, material destinations, and haulage parameters to provide a feasible life-of-mine schedule that maximizes net present value (NPV) and considers all operating constraints while meeting or exceeding project-specific objectives, period production goals, and quality targets.

KEY POINTS

- ◎ Life-of-mine scheduling
- ◎ Equipment requirements
- ◎ Quality/quantity constraints
- ◎ Phase and bench scheduling
- ◎ Stockpile handling
- ◎ Maximize net present value (NPV)

KEY FEATURES

- > Optimize schedules for mined benches and phases in single or multiple pits
- > Production target controls for mill/leach capacities, grade/metal production/product (concentrate, smelter) requirements, and contaminant control
- > Manually control phase mining (daily mining rate, partial benches per period, vertical advance limits, forced mining), phase dependencies, destination controls (capacity, dumping rate, spread dumping), material movement, and stockpile handling
- > Economic parameter controls for mining costs, loading/hauling costs, processing costs, recovery, capital investment, and varying above costs based on period and material type
- > Create sub-regions with matching material types for destinations
- > Automatically maximize NPV by mining the highest grade material and satisfying operating constraints
- > Optimize truck/shovel fleet to increase NPV
- > Balance stripping ratios quickly
- > Model multiple quantity, quality, and ratio constraints
- > Report mining costs by bench and/or pit
- > Report truck and shovel cycle time, fuel burn rate, and costs
- > Compare NPV for varying schedule scenarios
- > Optimize partial bench mining and stockpile reclamation based on linear programming
- > Automatically replace trucks and shovels to optimize haulage fleet requirements
- > Optimize cutoff grade for each period by mapping reserves to destinations
- > Create schedules based on mixed integer linear programming principles
- > Create period-to-period life-of-mine schedule reports and material movement reports (Microsoft Excel®)
- > Integrated with MineSight3D to create end-of-period maps that include both pits and dumps

D A T A S H E E T



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