

Rapid Long & Medium Term Mine Planning

Solution Summary



Includes MineRP XMP's

The Challenge

Whether for green- or brown fields operations, mine planning across any time horizon is time consuming and laborious. This means mines are typically able to create and assess only one mine plan per annual planning cycle. Manually drawing CAD mine designs to be sequenced and scheduled is the major bottleneck, and the handover between design and financial costing & budgeting is spreadsheet hell.

The Use Case & Innovation Scenario

Framework based planning with MineRP Planner transforms mine planning, and dramatically reduces the process time for mine design, sequence and scheduling activities. Traditional design by CAD drawing is replaced by automated framework based design, but the reduced complexity, time and effort in the planning cycle provides opportunity to create and examine many more business alternatives. Moreover, MineRP Planner gives miners the flexibility to make large scale or incremental adjustments in response to market trends within the window of opportunity presented.

Expected Benefits

- Rapidly produced multiple strategic business alternatives within the business planning cycle
- Integrated multidisciplinary and multi time horizon mining and financial planning at common granularity
- Manage and compare multiple planning alternatives simultaneously using 3D spatial and conventional quantitative views (i.e. tables and graphs)
- Rapid re-planning for operational focus based on internal and external environmental changes

The Best Practices

MineRP's Planning Protocol references the Open Group Exploration and Mining Business Process model at the sub-process level of detail. It defines a single process for mine planning, irrespective of granularity from strategic to operational and irrespective of mining method. It thus lends itself to a multi-disciplinary, integrated view of planning input roles and information flow ideal for mapping the relevant expert applications creating the necessary datasets.

The Defined Value



80% Improvement in planning cycle times



Cost of Money



Improved forecast

Published Case Studies

- Anglo Platinum
- Centurion Mine

MineRP Solution Components

- MineRP Planner
- MineRP Enterprise Resource Planning Platform
- MineRP Schedule Mediation Platform