

Mine design and planning

Mining

Effective mine design and planning are essential to correctly evaluate and select the mining method that will exploit a deposit optimally, on schedule, and safely to meet your production requirements.

Inherent to this process is life-of-mine optimization, mining equipment selection and implementation, and the interface with the associated mining infrastructure designs.

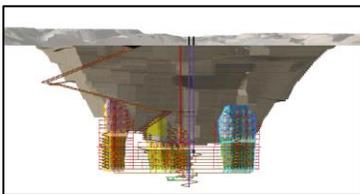
We provide extensive expertise in the design, specification, selection, and optimization of different mining methods for applications including base metals, industrial minerals, precious metals, rare earths, and other mined commodities.

Our mine design and planning services extend to surface and underground operations, as well as any transition process, and include:

- Cut-off grade optimization
- Mining method selection and optimization
- Extraction rate optimization and interface with process plants, tailings, and waste rock handling systems
- 3D planning, sequencing, scheduling, and performance evaluation
- Integration of mine ventilation requirements and sequencing
- Integration and optimization of shaft and hoisting system requirements and configurations
- Identification and optimization of backfill systems
- Mine services requirements
- Life-of-mine activity costing and estimation
- Support for all phases of both brownfield and greenfield projects from concept to full EPCM implementation and ongoing operations support

By drawing on our full range of engineering and project delivery services, you can minimize engineering and construction interfaces and maintain continuity from design through to the implementation of your projects.

We can help you integrate the overall mine design and associated infrastructure designs, so they can be executed to the highest standards of safety, quality, and sustainability.



Open pit and underground mine design

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