



# GEOVIA MINESCHED

Turn Plans into Performance



Create practical, reliable mine schedules faster with an intuitive solution that simplifies complex planning, enables rapid scenario analysis, and seamlessly integrates geology and design data for better decisions and greater confidence.





## SURFACE MINE SCHEDULING

Mining operations are under increasing pressure to evaluate multiple production scenarios while maintaining consistent material quality. Mine planners are also expected to optimize equipment and workforce utilization, and to adapt rapidly to changing conditions.

Planning is no longer a linear exercise. It has become a continuous balance between strategic intent and operational reality. This growing complexity requires a connected approach to decision-making across the full mining value chain, from long-term intent through to short-term execution and performance tracking.

Within this context, GEOVIA MineSched™ supports a seamless planning continuum spanning Strategic Planning, Tactical Scheduling, Operational Execution, and Reporting and Integration, ensuring consistency and traceability across all levels of the operation.

## CORE VALUE



### Speed of Scenario Setup:

Build your baseline schedule in record time and start testing options faster.



### Rapid Scenario Generation:

Explore multiple options quickly to find the most effective plan.



### Haulage & Stockpile Management:

Move materials efficiently and maintain the right balance across the site.



### Mining Activity Sequencing:

Keep operations flowing smoothly with smart task prioritization.



### Target Scheduling:

Align production and quality goals automatically to stay on track.

## SCHEDULE WITH CONFIDENCE AND FLEXIBILITY

GEOVIA MineSched provides an innovative scheduling experience for mining, helping teams maximize productivity and profitability. Intuitive, rapid setup and guided workflows take the complexity out of scheduling, putting real decision-making power back in the hands of engineers and mining operations.

MineSched is employed by surface and underground mining operations of all types and sizes to produce long-term and short-term schedules that meet capacity and material quality targets. MineSched can schedule from pre-created block, and polygon models that originate from many different mine planning systems. GEOVIA MineSched works seamlessly with GEOVIA Surpac™, however can also be used with other industry geology and mine planning (GMP) products. MineSched creates schedules that improve mine site operational productivity and profitability.

## BENEFITS

- **Achieve scheduling objectives** by quickly and easily creating and comparing scheduling scenarios.
- **Lower processing costs** by meeting your feed grade requirements through MineSched's target scheduling algorithms.
- **Increase productivity and efficiency** by directly reading from all of the popular mine planning solutions or combinations thereof for a data-conversion-free advanced scheduling user experience.
- **Validate schedules** by visualizing them in 3D animations and sharing them via the standalone Interactive Viewer application.
- **Reduce mining costs** by preparing practical schedules through the use of rules, constraints and capacity targets.
- **Collaborate with others** by publishing your schedule results to Microsoft® Excel®, Microsoft® Project®, and to the 3DEXPERIENCE platform.





## SURFACE MINE SCHEDULING

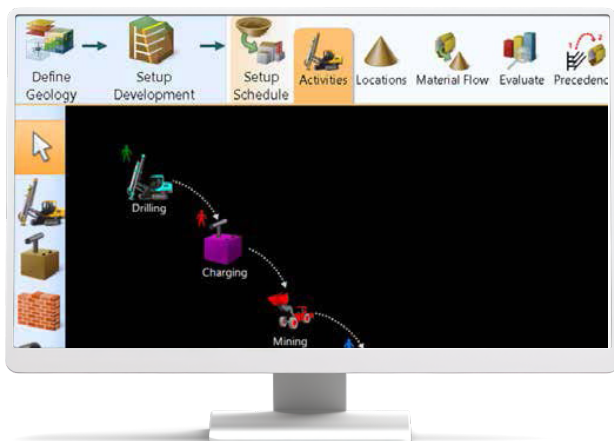
From bulk commodities to base metals, open pit to strip mining, MineSched provides complete long-term and short-term scheduling capabilities.

- Prepare practical schedules quickly by having MineSched automatically sequence your mining bench by bench.
- Minimize the amount of contaminants sent to the plant by targeting contaminant values as well as grade values.
- Blend material from other mines, stockpiles, and processing plants through multiple stages in the material flow network.
- Compute all ancillary equipment requirements including haulage, drilling, explosive charging, and much more.
- Schedule dumps geometrically, and watch the dump advance progress concurrently with in-pit and stockpile locations.
- Create end-of-period face position surface triangulations of the pit and dump that can be used in other geology and mine planning packages

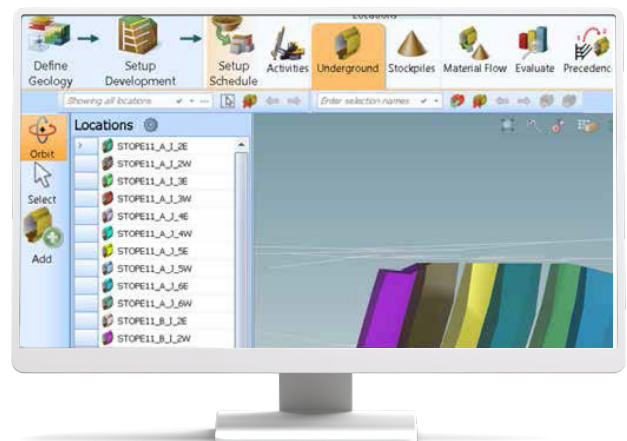
## UNDERGROUND MINE SCHEDULING

From heading advancement to stope production, MineSched generates practical and integrated underground development and production schedules for long and short-term scheduling.

- Model material flow through remucks, ore passes, and material transport levels.
- Setup primary to secondary stope dependencies quickly, and in a single pass.
- Quickly add and accurately model ancillary activities such as drilling, explosive charging, blasting, stope barricading, and backfilling.
- Accurately predict stope opening dates by scheduling production and development simultaneously.
- Schedule development directly from a centerline model.
- Use precise development intersection rules to allow time for installing vent pipes and service lines.
- Create end of period solids representing exactly where development and stopes will be at the end of each period.



Create activities and assign resources intuitively using MineSched's Activities Canvas



Locations tab, underground scenario.

**“Scheduling with MineSched is faster, which means we are more efficient. And as engineers, the scheduling process needs to be short because time is money.”**

— Egar AGIFATWA, Mining Engineer at PT Sumberdaya Arindo

# IMMEDIATE SCHEDULING INSIGHTS

During scheduling, results are continuously updated in MineSched and instantly displayed in its unified dashboard, enabling users to:

- View pre-defined reports and charts showing per-period material and grades mined, stockpile balances and work quantities for each activity.
- Add a configurable Gantt Chart View and/or 3D Animation Canvas to the dashboard.
- Customize the layout of the dashboard to display several key scheduling results simultaneously.

## SCHEDULE ANIMATION

MineSched has two tools to provide schedule animation; the Animation Canvas in the dashboard and the MineSched Interactive Viewer application. Both deliver a purpose-built 3D display environment specially designed to analyze the sequence of the schedule with a full 3D navigation capability.

- Display scheduling as blocks, solids or polygons that are geometrically subdivided and coloured by period.
- Animate mining using different paradigms, such as depletion or additive methods of display.
- Animate ancillary activities realistically using additional geometry such as blastholes.
- See your stockpiles grow and shrink as their inventory changes over the schedule.
- Include reference geometries, such as surface topographies and solids models of other infrastructure.

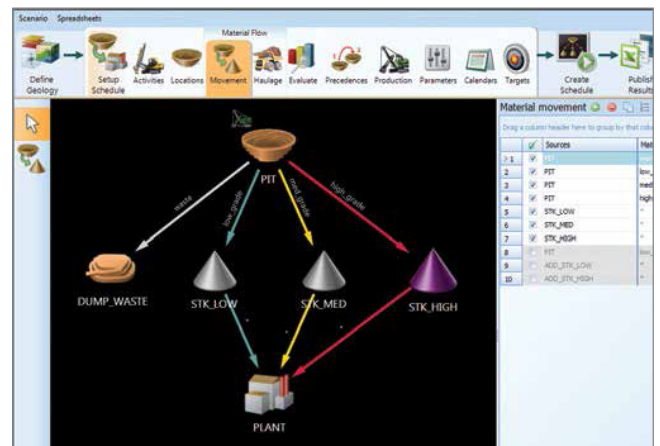
MineSched's Schedule Animation features are first setup using the 3D Canvas in the dashboard. Once the user is happy with the schedule and its animation, schedule results are saved to a compact MineSched animation file. This file can then be distributed to other users, such as managers and consultants, who can then use the MineSched Interactive Viewer to play the schedule while viewing it dynamically using operations such as zoom, pan and orbit.

For more information email [GEOVIA.Info@3ds.com](mailto:GEOVIA.Info@3ds.com) or visit [www.minesched.com](http://www.minesched.com).

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MineSched's Canvas allows material movement to be defined from surface and underground mining locations to stockpiles, processes and waste dumps.

## REPORTING AND PUBLISHING

In addition to the MineSched Interactive Viewer, MineSched supports several methods for distributing scheduling results.

- Microsoft Excel reports and charts use all the attribute data in the schedule to create period by period reports as either columns or rows.
- MineSched can output a scenario to Microsoft Project Gantt Charts at the click of a button.
- Scheduling results can be output to a set of tables in Microsoft® Access or any ODBC compliant database.
- Powerful geometric tools create end-of-period face positions as triangulated surfaces or solids for graphical output.

## MINESCHED INTEROPERABILITY

Easily exchange schedule data across your mining ecosystem through flexible import and export capabilities that support a wide range of file formats. MineSched is designed for interoperability, with ongoing efforts to adopt the OMF standard to streamline data sharing with other GMP solutions. This open approach enables consistent and efficient collaboration across tools, allowing teams to work seamlessly within their existing software environment.