RPMGLOBAL

XECUTE

INTELLIGENT
SCHEDULING

XECUTE minimises data entry and maximises planning value, adaptability and agility by using automation to connect planning with operations, with 3D cross-team collaboration, and integrated design and scheduling.

Combining RPMGlobal's proprietary Product Optimiser with a game-inspired 3D interface, XECUTE enables planners to build an optimal short-term schedule that's easy to understand and communicate, providing a coherent link between medium-term planning and operational execution.

Inherently multi-user, XECUTE allows a greater level of collaboration and planning efficiency than ever before. Enterprise data feeds provide planners with the most up-to-date schedule inputs and allow schedule outputs to be automatically pushed to downstream systems, closing the loop between

Enabling a fundamental shift in mine planning outcomes by harnessing short-term mine planning data.

Benefits

Design flexibility
XECUTE can utilise imported designs or allow planners to create or alter designs in the scene. This allows an organisation to choose the right level of design flexibility that balances the need to conform with long-term design processes and the need to react to unexpected events, and short-term goals.

Improved plan-to-plan compliance
Plan compliance through long, medium, and short-term plans has always been an issue in mining. XECUTE takes guidance published from long-term planning tools and makes it available to the user both spatially and numerically, providing the greatest opportunity for short-term planners to comply with the long-term plan. This leads to an improved alignment between the short-term tactics and the long-term strategy.

Optimal schedule and product blending
XECUTE is built on RPM's scheduling platform, a mature, proven and powerful scheduling engine. Utilising RPM's proprietary Product Optimiser, planners can define objectives and constraints to optimise the allocation of material to destinations and material movement through the mining value chain. This allows, for example, blending of material to hit mill or product specifications, maximising saleable product tonnes, or providing for better stockpile management by material attributes.

Continuous live plan
An operational mine site is continuously changing. With XECUTE, mine planners are able to use the most accurate and up-to-date information coming from authoritative sources. This allows planners to make the best decision with the most accurate information.

React to reduce downtimes and delays
The ability to visualise not only the current task, but how changes affect subsequent tasks, delivers clarity never before seen in mine planning. Reacting to unplanned events quickly and accurately has a significant impact on utilisation, production delays and ultimately the bottom line.

Improved cross-team communication
XECUTE allows for data and information to flow freely between systems. Communication and efficiency are improved across the site with data transferred and used in other tools without a human in the loop. Rich graphical display and animation enhances communication between planning horizons and between planning, maintenance and operations teams.

Mobility and Visability
With the iOS and Android companion apps, the plan is visible to everyone who needs it, whether it's an on-site planners, an operator about to start a shift, or the mine manager in the board room. In addition to the plan, realtime progress against that plan can be seen as well. This provides a level of mobility, visibility and communication never before available.

Features

Dynamic product optimisation

XECUTE uses RPM's proprietary Product Optimisation algorithm to select the best destination for excavated material in each shift, maximising benefits and minimising costs. Dynamic Product Optimisation allows material to be blended to achieve specified grade targets, maximising operational value.

Live feed from FMS shows real-time progress against plan.

Multi user collaboration

XECUTE is a true multi user tool that allows multiple departments and people to use the same model and plan simultaneously. Drill planners in a remote operations centre can work on the same model at the same time as the production planner at site and immediately see changes as they are made.

Schedule guidance

Longer term plan outputs published from RPM's XPAC Solutions can be automatically brought into XECUTE, providing spatial and numerical schedule guidance to the short term planner. Guidance data can be interrogated to provide planning context, giving planning teams an unprecedented ability to collaborate and improve plan-to-plan compliance.

Flexible design and just-in-time reserving improves material and blend targeting.

Integration with fleet management systems

XECUTE allows the mine planner to publish the plan directly to FMS. This saves valuable time and reduces the chance of miscommunication when relaying the plan. As the plan is executed, data is automatically fed from FMS back to XECUTE, closing the planning-operations loop and providing planners with a live, reactive, continuous planning environment. Machine positions, bucket positions and progress through a shift are all available to the mine planner to ensure targets are being achieved.

A platform for true collaboration across the mining value chain or manage variability and enhance productivity with the industry's sole ultra-short term planning solution.

Power gantt

The power gantt feature provides a swathe of configuration options, allowing the mine planner to show just the tasks they want to see how they want to see them. By focusing on specific tasks, areas, resources and time periods, communication of the mine plan becomes much simpler. Multi-user teams are better supported by allowing each planner to focus on their area of authority. Ultimately the power Gantt capability provides for clearer and simpler to understand mine plans, making it much easier to achieve compliance to plan.
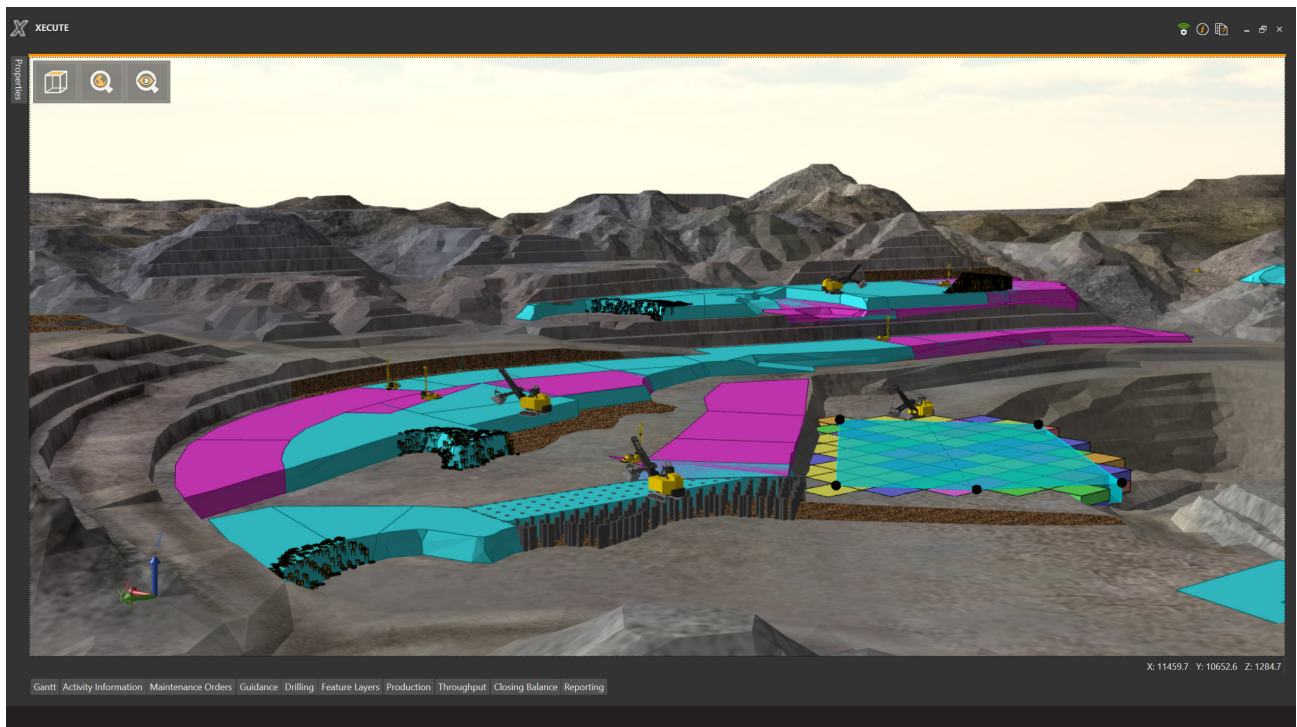
ERP Integration

Visibility across the entire mining value chain is critical – not just across the operational layer but also to the Corporate layer. RPM has invested in developing connectors between ERP's and RPM's Enterprise Planning Framework (EPF). Using RPM's connectors, XECUTE can take an automated data feed of maintenance orders. As the maintenance department update their plan it is immediately replicated within XECUTE giving clear visibility of issues and conflicts before they occur. Using an open standard interface also allows XECUTE to take maintenance information from any other Enterprise Resource Planning (ERP) or maintenance system, including RPM's own AMT.

iOS and Android Companion Apps

XECUTE+AR (iOS) and XECUTE Mobile (Android) are available to download from the Apple App Store and Google Play Store. These companion apps provide visibility of the XECUTE plan and real-time progress.

Smart Intervals

Smart Intervals feature allows planners full control over the granularity and level of detail required in each part of the mine plan. Earlier in the plan, granularity can be maximised to support Short Interval Control, manage demand chain flows, and optimise equipment allocation. Later in the plan, a reduced level of granularity can be applied to delay the need to eliminate conflicts in detail and make fine-grained adjustments until it becomes nearer term. Planners can now focus on managing just the right amount of detail, reducing the time needed to complete the plan and making it much easier to produce longer plans.

Schedule guidance gives short term planners the best opportunity to achieve long term strategic objectives.

Enterprise Planning Framework

Enterprise integration and collaboration will deliver the operational improvements mining companies need to realise the next wave of productivity improvements. Whilst most mining companies have realised value implementing an integrated strategy in their Corporate functions, such as finance and HR, they have not extended this to their Technical Mining Operations (TMO). Consequently the TMO is a complex web of point solutions, data sources and silos that delivers complex structures and inadequate functional collaboration.

RPMGlobal's Enterprise Planning Framework (EPF) is a strategic platform that consumes and exchanges data from multiple sources including ERP, Business Intelligence (BI) tools, mine planning and command and control fleet management systems (FMS). It supports management processes, eliminates reliance on disconnected spreadsheets, individual departmental point solutions and fragmented BI technologies. Integrating the data delivers timely decision-making as well as greater communication and visibility across the mining operations.

About RPMGlobal

RPMGlobal is the global leader in the digital transformation of mining. We provide data with context, transforming mining operations. Our Enterprise approach, built on open industry standards, delivers the leading digital platform that connects the systems and information and seamlessly, amplifying decision-making across the mining value chain.

RPMGlobal integrates the planning and scheduling, with maintenance and execution, with simulation and costings, on RPM's Enterprise Planning Framework, the mining industry's only digital platform that delivers insight and control across these core processes.

RPMGlobal's Advisory Team advise the global mining industry on their most critical issues and opportunities, from exploration to mine closure. Their deep domain expertise, combined with their culture of innovation, and global footprint, ensures our mining customers continue to lead.

RPMGlobal is the global leader in Enterprise mining software, Advisory services and Professional development who operate offices in 23 locations across 13 countries and have worked in over 118 countries.

For more information visit **rpmglobal.com** or email **info@rpmglobal.com.**