

Efficient Drilling **STARTS WITH OPERATIONAL VISIBILITY**

Discover how a mining company reduced drilling costs and increased productivity through data-driven operational management.

Fast2Mine



THE CHALLENGE OF DRILLING OPERATIONS

Drilling operations face daily challenges related to productivity, operational control, and decision-making.

In many mining operations, there is still limited visibility into what actually happens throughout each drilling cycle.

WITHOUT RELIABLE DATA AND REAL-TIME OPERATIONAL INFORMATION, MINING TEAMS OFTEN STRUGGLE WITH:

- Low operational productivity
- Hidden operational bottlenecks
- Excessive consumables consumption
- Unplanned downtime
- Limited operational predictability
- Reactive decision-making

In addition, decentralized information makes it difficult to effectively monitor activities, reducing the operational team's ability to respond quickly and efficiently.

IN MANY OPERATIONS, THE BIGGEST CHALLENGE IS NOT DRILLING ITSELF, BUT THE LACK OF VISIBILITY INTO CRITICAL OPERATIONAL INDICATORS SUCH AS:

- Equipment utilization
- Tool wear
- Consumables consumption
- Shift productivity
- Overall operational efficiency

The result is a less predictable operation, with higher operating costs and reduced control over productivity and performance.

THE IMPACT OF LIMITED OPERATIONAL VISIBILITY

A lack of real-time operational control directly affects productivity, operating costs, and drilling performance.

These losses often occur silently throughout the shift, making it difficult to quickly identify the root causes of operational deviations.

AMONG THE MOST COMMON IMPACTS ARE:



REDUCED PRODUCTIVITY

Without detailed monitoring of drilling cycles, identifying productivity losses and improvement opportunities becomes much more difficult.



UNPLANNED DOWNTIME

Limited operational traceability reduces the team's ability to respond quickly to failures and operational deviations.



HIGH CONSUMABLES CONSUMPTION

Bits, rods, diesel fuel, and other consumables are used less efficiently when there is no proper monitoring and performance control.



LOW OPERATIONAL PREDICTABILITY

Decision-making depends on delayed, incomplete, or decentralized information.



REACTIVE DECISION-MAKING

Without reliable real-time information, operations spend more time correcting problems than preventing them.
More than simply an operational challenge, limited visibility directly impacts operating costs, productivity, mine planning, and overall operational efficiency.



WHAT IS MINING CONTROL FOR DRILL?

Mining Control for Drill is Fast2Mine's intelligent platform for real-time drilling operations management.
The solution connects equipment, field operations, and management within a single digital environment, providing complete operational visibility and full traceability throughout the drilling process.

WITH MINING CONTROL FOR DRILL, YOUR OPERATION BENEFITS FROM:

- Real-time drilling cycle management
- Automated and continuous data collection
- Consumables management
- Productivity and equipment utilization indicators
- Operational and executive dashboards
- Integrated operational management

THE PLATFORM ALSO ENABLES:

- Equipment performance monitoring
- Shift-by-shift productivity analysis
- Equipment utilization management
- Tool lifecycle traceability
- Continuous operational performance monitoring

With greater operational visibility, supervisors and managers can make faster, more strategic decisions based on reliable, real-time data.



THE DRILLING OPERATIONAL JOURNEY

Effective drilling management requires complete visibility throughout the entire operational journey.

Each stage directly influences productivity, equipment utilization, operational costs, and overall mine performance.

PLANNING -> OPERATIONS -> MONITORING -> ANALYSIS -> DECISION



PLANNING

- Defining operational targets
- Planning drilling activities
- Scheduling equipment and resources



OPERATIONS

- Complete drilling cycle management
- Automatic activity recording
- Continuous operational monitoring



MONITORING

- Operational KPIs
- Equipment utilization
- Productivity by shift
- Operational deviations



ANALYSIS

- Executive dashboards
- Bottleneck identification
- Shift comparison
- Equipment performance analysis



DECISION

- Faster response to operational deviations
- Greater operational predictability
- Continuous performance improvement

WHEN EVERY STAGE OF THE DRILLING PROCESS IS CONNECTED, MINING OPERATIONS ACHIEVE HIGHER PRODUCTIVITY, GREATER OPERATIONAL CONTROL, AND IMPROVED EFFICIENCY.



HOW FAST2MINE'S MINING CONTROL FOR DRILL WORKS

Mining Control for Drill transforms operational data into actionable intelligence, helping mining companies improve productivity and make faster, data-driven decisions.

The platform automatically collects, organizes, and delivers operational information in real time to operators, supervisors, planners, and managers.



AUTOMATED DATA COLLECTION

Operational and maintenance information is automatically captured directly from drilling equipment, eliminating manual reporting while improving data quality and reliability.



DRILLING CYCLE MANAGEMENT

Monitor every stage of the drilling process, including:
· Advance · Downtime · Equipment positioning · Flushing · Drilling



EXECUTIVE DASHBOARDS

Monitor your most important operational KPIs in real time, including:
· Availability (AV) · Utilization (UT) · Overall Equipment Effectiveness (OEE)
· Productivity



ONLINE AND OFFLINE OPERATION

Mining Control for Drill continues collecting operational information even in underground environments with limited or no network connectivity. Once communication is restored, all information is automatically synchronized with the platform.



OPERATIONAL INTEGRATION

The solution improves communication and synchronization between Operations, Maintenance, and Mine Management, creating a single source of reliable operational information.
As a result, mining companies gain continuous visibility into productivity, equipment utilization, and overall operational performance.

CASE STUDY



DRILLING TOOL PERFORMANCE MANAGEMENT

A mid-sized Brazilian underground mining company faced a critical challenge in its drilling operation: **a high drilling cost per meter.**



THE OPERATION WAS EXPERIENCING:

- Excessive consumption of drill rods, bits, and hammers
- Reduced component lifespan
- Frequent tool replacement
- Limited traceability of tool wear
- Lack of consolidated operational data for decision-making

BEYOND THE FINANCIAL IMPACT, THE COMPANY ALSO STRUGGLED TO:

- Improve operational predictability
- Control operating costs
- Reduce unplanned interventions
- Increase drilling efficiency

THE IMPLEMENTED STRATEGY

To overcome these challenges, the company implemented a structured Drilling Tool Performance Management program based on:

- Continuous monitoring of tool lifespan
- Drilling cost per meter control
- Historical operational database
- Standardized maintenance procedures
- Statistical analysis of wear patterns and consumables usage
- Training for operational teams
- Stronger collaboration with suppliers

Operational decisions became entirely data-driven, supported by continuous monitoring of drilling performance indicators.

RESULTS ACHIEVED

- 55% reduction in drilling cost per meter
- Significant increase in tool lifespan
- Fewer operational interventions
- Greater cost predictability
- Reduced unplanned downtime
- Improved operational planning
- Enhanced operational safety

More than simply reducing costs, the operation strengthened a culture focused on operational excellence, performance management, and continuous improvement through reliable data.



KEY BENEFITS



INCREASED PRODUCTIVITY

Greater operational control leads to higher drilling efficiency and improved overall productivity.



REDUCED OPERATIONAL LOSSES

Fewer unplanned downtime events and less operational waste result in a more efficient and profitable drilling operation.



REAL-TIME OPERATIONAL CONTROL

Continuously updated operational data enables faster, more accurate, and data-driven decision-making.



OPTIMIZED CONSUMABLES MANAGEMENT

Gain greater control over fuel, drill bits, rods, and other critical consumables to reduce operating costs and maximize equipment performance.



GREATER OPERATIONAL PREDICTABILITY

A more integrated, data-driven operation improves planning, minimizes uncertainty, and increases overall operational performance.



KPI-DRIVEN MANAGEMENT

Provide supervisors, maintenance teams, and managers with reliable operational indicators to support continuous improvement.



CONCLUSION

Efficient drilling operations depend on much more than modern equipment.

They require operational visibility, continuous performance monitoring, and data-driven decision-making.

When mining companies monitor productivity, equipment utilization, tool wear, and consumables consumption in real time, they achieve:

- Greater operational predictability
- Increased operational control
- Reduced operational losses
- Higher drilling efficiency
- Better productivity across the entire mining operation

Fast2Mine's Mining Control for Drill was developed to transform operational data into actionable intelligence, enabling mining companies to continuously improve drilling performance.

MORE CONTROL.

MORE PRODUCTIVITY.

GREATER OPERATIONAL EFFICIENCY.



REQUEST A LIVE DEMO

Discover how Fast2Mine's Mining Control for Drill can transform your drilling operation through real-time operational intelligence.

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