



OUTLIERS Mining
Solutions

Short Interval Control & Scorecards



Empowering your Front-Line Team, The True Decision Makers

Unlock the full potential of your mining operations with Outliers Mining Solution's Short Interval Control (SIC) Toolkit. Designed to revolutionize the way mining processes are managed, our toolkit empowers your front-line team to make informed decisions in real-time, delivering optimized load and haul performance and compliance to plan.

The Outliers Short Interval Control is designed for front line teams, not managers. The goal is to inform, empower and provide the tools for front line teams to optimize performance of their shift while complying with the mine plan.

Outliers Mining Solutions has a proven track record working with six major Fleet Management Systems, including Caterpillar Minestar®, Modular Mining Systems Dispatch®, Wenco Fleet Control, and Hexagon MineOperate.

Key Features

DESKTOP SHORT INTERVAL CONTROL

- ✦ Harness the power of real-time data analytics with a five-minute refresh to gain deep insights into your mining operations across all productivity and utilization drivers.
- ✦ Drive continuous improvement efforts with stretch targets in the SIC. The plan must be met – the SIC is designed to move operations to world class performance.
- ✦ Target vs actuals for each productivity and utilization driver is quantified in the language of operations, tonnes / BCMs gained or lost, prioritizing effort for front line teams to maximize shift performance.
- ✦ Remove the availability excuse from Mine Operations. Live targets for load and haul are calculated based on actual equipment availability, focusing supervisors and dispatchers on what they control to optimize their shift.
- ✦ Monitor key performance indicators (KPIs) on cycle-to-cycle trends allowing for immediate detection of variances and proactive decision-making.
- ✦ Reduce operator variability by identifying and actioning variances in real time with an added benefit of improving performance of dispatch dynamic assignment.
- ✦ The ultimate dashboard to review end of shift performance with operations teams, identify what worked, what didn't and generate actions for the next shift.

MOBILE SHORT INTERVAL CONTROL

- ✦ All the details of real time mine performance are available for field supervisors on their phone.
- ✦ Designed to complement the desktop version in dispatch, supervisors can see the same information in the field, share with operators, take improvement actions and verify they've worked.
- ✦ Exhaustive in detail but simple in design, the Mobile SIC is the ultimate tool for supervisors to monitor shift performance, prioritize improvement efforts and have data-driven decision making.

OPERATOR SCORECARD PACKAGE

- ✦ Available for truck, shovel, crew and dispatchers to quantify individual and team performance.
- ✦ KPI selection carefully crafted to ensure it only includes those fully or partially in control of the individual or team.
- ✦ Expansive configuration allows operations to tailor KPIs to their site, or crews to focus improvement efforts or be exhaustive and track all KPIs for different roles.
- ✦ Configure how any KPI is calculated. Minutes per event, minutes per shift, time in first hour, averages or frequency.

Key Features (CONTINUED)

MINE OPERATIONS PLAYBOOK

- ✦ Document best practices at your operation with decision trees for any trigger / response. Include the list of potential improvement actions to support training and development of supervisors and dispatchers in optimizing their shifts performance.
- ✦ Excellent reference guide for lead hands, back-up dispatchers, and overall standardization of best practices at your operation
- ✦ Extend the playbook into mobile maintenance and crushing breaking siloes and aligning all teams towards best practice.

SYSTEM HEALTH TOOL

- ✦ Don't waste time troubleshooting why the Fleet Management System is not making the assignments you expect, let our tool diagnose for you to keep truck assignments optimized and plan priorities met.
- ✦ Use the System Health Tool to train new dispatchers on what's required for optimized assignments.

VISUAL MANAGEMENT

- ✦ Shift-to-shift trends is an excellent way to verify use of Short Interval Control and also manage low frequency events like shift change, blasting and returned from maintenance delays.
- ✦ Supervisors and dispatchers live in the world of Short Interval Control. Visual Management provides Superintendents and Managers with the same transparency, opportunity for accountability and actions over weekly timeframes.
- ✦ Trending shift to shift performance over a two week period identifies good practices amongst crews, to then implement and reduce crew to crew variability
- ✦ Select KPIs, and targets in our platform for easy printing or digital display. Configure your own KPIs to match your specific improvement opportunities.

BE AN OUTLIER ✦

Why Outliers?

INCREASED OPERATIONAL PERFORMANCE AND REDUCE COSTS

With 20+ deployments across the globe in multiple languages we've established a track record of delivering an 8-25%+ sustainable improvement in load and haul performance while also increasing compliance to plan. This value is realized either via increased material movement or achieving the mine plan with the fewest equipment hours resulting in parking equipment and significant cost savings.

We are most proud of the sustainability of our solutions. Once embedded it can't be taken away as it becomes the central tool for dispatchers, supervisors, and superintendents to manage and optimize shift performance.

SCALABLE AND CUSTOMIZABLE

Our Short Interval Control and Scorecard Package is designed to grow with your business, offering scalability and configuration to meet your unique needs. The platform is agnostic, with a normalized data model allowing true comparisons or KPIs between any mine operations regardless of the Fleet Management System installed.



A TOOL IS JUST A TOOL


The true differentiator at Outliers is the team behind the tools. We offer the experience and expertise necessary to quickly realize value from both your Fleet Management System, our Short Interval Control and supporting the implementation of mining best practices.

Outliers is not a technology company, we are a group of industry experts with extensive operational experience across mine operations, dispatching, mine technology, asset management, integrated operations, and front-line leadership. Change management for us is the easy part.

Minimal Investment for Major Results - No Hidden Costs

Our solutions are offered on an annual subscription model with minimal costs for set up, and we can deploy them in less than a week. We offer unlimited users, no hidden fees, upgrade requests are welcome and made at no charge as we strive to improve our products for all users.

Our product development roadmap is aggressive with major step change improvements planned for 2024. With the rapidly growing user base you can expect user forums, formal feedback channels, and sharing of success stories across our clients.

A large mining truck is positioned in the center of a dark, rocky tunnel. The truck's headlights are on, illuminating the ground. To the right, a person wearing a hard hat and a high-visibility vest stands with their back to the camera, looking towards the truck. The tunnel walls are rough and uneven.

**Contact us today to schedule a demo and experience
the future of mining operations management.**

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