

The background image shows a large-scale underground construction site. A massive tunneling machine, likely a TBM, is visible, cutting through a rock face. The scene is dimly lit, with warm orange and yellow lights on the left and cooler blue and green lights on the right. The rock surface is rough and textured, with some rebar structures visible. The overall atmosphere is industrial and technical.

Unlocking Value with Short Interval Control (SIC)

Who is MST?

Why SIC?

For **over 40 years**, MST has been a trusted partner to **underground mining** operations, delivering the critical systems that keep people safe, connected and productive.



40+ YEARS OF EXPERIENCE

A long-standing heritage in underground mining safety, communications and data infrastructure.



PART OF KOMATSU, BUILT FOR ALL

Proudly part of Komatsu, operating across all equipment brands with a vendor-neutral approach.



PROVEN SOLUTIONS THAT DELIVER

Our fleet management solution, **DISPATCH**, has been trusted by major mining operations for over 10 years.



DATA INFRASTRUCTURE THAT CONNECTS

Platforms like **HELIX** integrate data across systems to provide real-time visibility and operational intelligence.



FOCUSED ON WHAT MATTERS

We sit at the intersection of safety, data and execution—helping operations close the gap between plan and actual.



→ We don't just connect systems. **We connect what matters most—people, data and decisions.**

What's in it **for you!**

Short Interval Control turns real-time insight into **real business outcomes**



IMPROVE PRODUCTIVITY

Stay on plan and recover time in the same shift.

More tonnes, metres or cycles delivered.



LOWER COSTS AND WASTE

Identify and address delays, idle time and inefficiencies early.

Lower operating costs and better use of resources.



MAXIMISE ASSET UTILISATION

Get the most from your equipment and people when it matters most.

Higher utilisation, longer asset life.



REDUCE FUEL USE AND EMISSIONS

Less idling and queuing means less fuel burn and lower emissions.

Lower costs and a smaller environmental footprint.



ENHANCE SAFETY AND GOVERNANCE

Proactive control improves situational awareness and accountability.

Safer decisions, consistent execution and a clear audit trail.



Better decisions. Faster action. Stronger results. **Every shift.**

How?

We connect the right data, give you real-time visibility, and help your team **act within the shift**—when it matters most.



1



CONNECT EVERYTHING

Reliable underground connectivity with **AXON** ensures people, equipment and systems are connected—everywhere, all the time.

2



CAPTURE & INTEGRATE DATA

Real-time data is captured from multiple sources and integrated across systems to create a single source of truth.

3



VISUALISE IN REAL TIME

HELIX turns data into clear, actionable insights with dashboards and alerts that highlight what matters right now.

4



ACT WITHIN THE SHIFT

Short Interval Control (**SIC**) drives disciplined reviews, decisions and actions throughout the shift to keep work on plan.

5



MEASURE, LEARN & IMPROVE

Results are tracked, performance improves, and learnings are embedded—creating a cycle of continuous improvement.



From insight to action.
Every shift. Every decision. Measurable impact.

MST's connectivity, data and software work together to close the gap between plan and actual—so you can deliver safer, more productive, more sustainable underground operations.

Short Interval Control (SIC)

Keeps the Mining Sequence Moving

SIC reduces waiting and delays between steps—so locations flow to plan and value is maximised.



Development



Drilling



Charging



Firing



Ventilation



Bogging



Support

THE IDEAL FLOW

No gaps. The sequence flows continuously.



THE REALITY

Delays, standby and downtime create gaps in the sequence.



WITH SHORT INTERVAL CONTROL (SIC)

SIC detects issues early, drives action and removes the causes of delay—keeping the sequence close to plan.

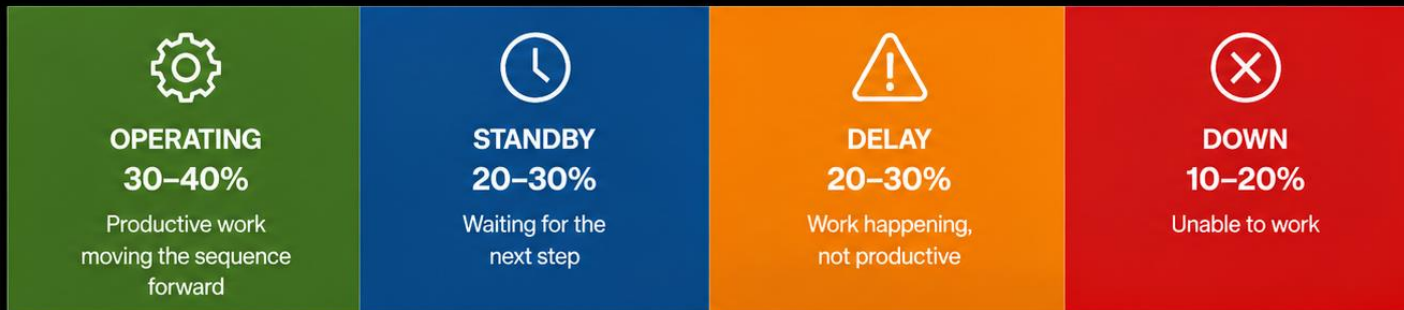


GAPS REDUCED. TIME SAVED. VALUE PROTECTED.

Where Time Is **Lost** in the Sequence

Only a portion of time is truly productive

TIME BREAKDOWN AT A LOCATION



60-70% OF TIME IS **NON-PRODUCTIVE**

Common Causes of **Lost** Time



Delays within activities

Scaling, rehab, equipment issues, ground conditions



Waiting between activities

No memo, access, services, coordination



Unplanned interruptions

Flooding, paste blockage, ventilation, geotech



Poor handover between crews

Information gaps, prioritisation, readiness



Other contributing factors

Equipment availability, maintenance, external dependencies

Thank you!

