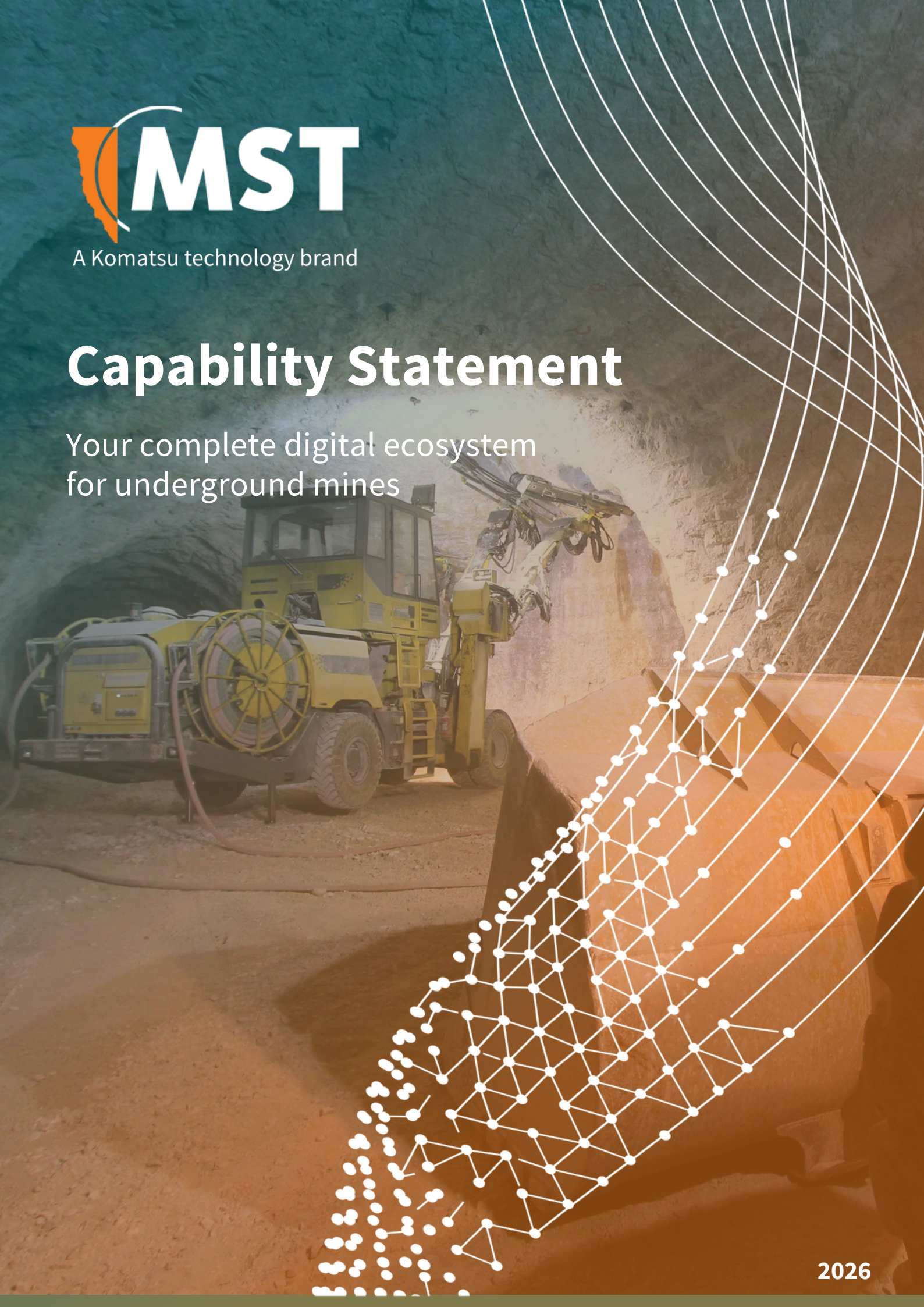




A Komatsu technology brand

Capability Statement

Your complete digital ecosystem
for underground mines



MST Global specialise in **technology** for harsh industrial environments that empowers you to unearth **safety** and **productivity** improvements

MST Global is a leading provider of operational technology, communications and networking solutions for mining, resources, infrastructure and industrial operations worldwide. For more than 35 years, MST has designed, deployed and supported mission-critical solutions that connect people, equipment, assets and systems for underground environments, helping customers improve safety, productivity and operational visibility.

MSTGlobal is recognised globally as a leader in underground mining communications and operational technology. MST's HELIX platform is a comprehensive and versatile solution designed to enhance mining operations through its modular capabilities. Product hardware and software that supports advanced underground wireless networks, communications systems, tracking, telemetry, automation-enablement and safety solutions that provide real-time connectivity throughout underground hard rock and soft rock/coal mining environments. Our underground solutions enable voice, data, asset and personnel tracking, fleet management, automation systems, environmental monitoring and critical safety applications, creating the digital foundation for modern connected mining operations.

Our capability spans the complete project lifecycle, including network assessment, RF planning, system design, engineering, equipment selection, installation, commissioning, optimisation and ongoing support. By combining deep expertise in underground communications with a strong presence across Australia and key mining locations around the world, MST delivers scalable, future-ready infrastructure that supports operational excellence from the control room to the underground working face.

AXON
HELIX



Our Expertise

MST Global delivers integrated digital technology solutions purpose-built for underground mining environments. With decades of experience in mine-hardened communications, tracking, automation and operational software, MST supports underground hard rock and soft rock operations with scalable systems that improve safety, productivity, visibility and control.

Our underground portfolio combines network infrastructure, voice and data communications, intrinsically safe technology, tracking, proximity awareness, automation-ready connectivity and the HELIX digital platform. These technologies can operate independently or as part of a connected underground ecosystem, enabling personnel, assets, equipment and control rooms to stay connected in real time.

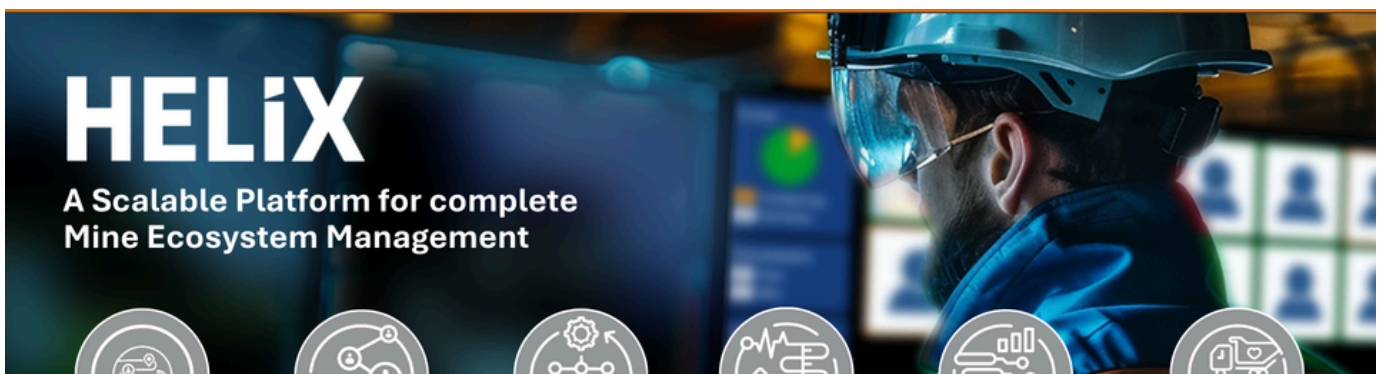
MST Global's technology enables you to build a true digital ecosystem positioned at the forefront of operational automation, digitisation and ESG industry concerns and megatrends.

A Complete Digital ecosystem for underground operations

MST's underground solutions are built around an all-make interoperable digital ecosystem. HELIX provides a single software environment for visualisation, fleet management optimisation, tracking, monitoring and operational control; helping mines make better decisions from real-time data.

HELIX supports:

- Advanced underground visualisation and tracking
- Dispatch and fleet management
- Personnel and asset visibility
- Control and monitoring workflows
- Real-time production tracking
- Safety checklists and task management
- Integration with MST hardware, third-party systems and underground operational data sources



HELIX

A Scalable Platform for complete Mine Ecosystem Management



3D Connect
Interactive Spatial Insights

HELIX 3D Connect is an RTLS (Real-Time Location System) solution enabling tracking and communication with personnel and assets within the mine environment.



Sentinel
Enhanced Safety Monitoring

HELIX Sentinel, integrated into the HELIX Platform, delivers real-time visibility of underground personnel location plus adjustable zone & access mgt. delivering enhanced situational awareness, safety monitoring, and operational response.



Intelligent Control
Process Automation

HELIX Control enables the "intelligent mine", through process automation, efficiency and safety is enhanced using personnel and asset location intelligence cameras, fan control, pumps, doors, traffic lights etc.



Smart Monitoring
IoT Network

HELIX Monitoring enables large-scale deployments for remote monitoring and automation use-cases across vast areas.



Dispatch
Optimise Fleet Management

HELIX Dispatch delivers unparalleled fleet management from the production face to surface and all points in between to ensure optimal machine production and utilization.



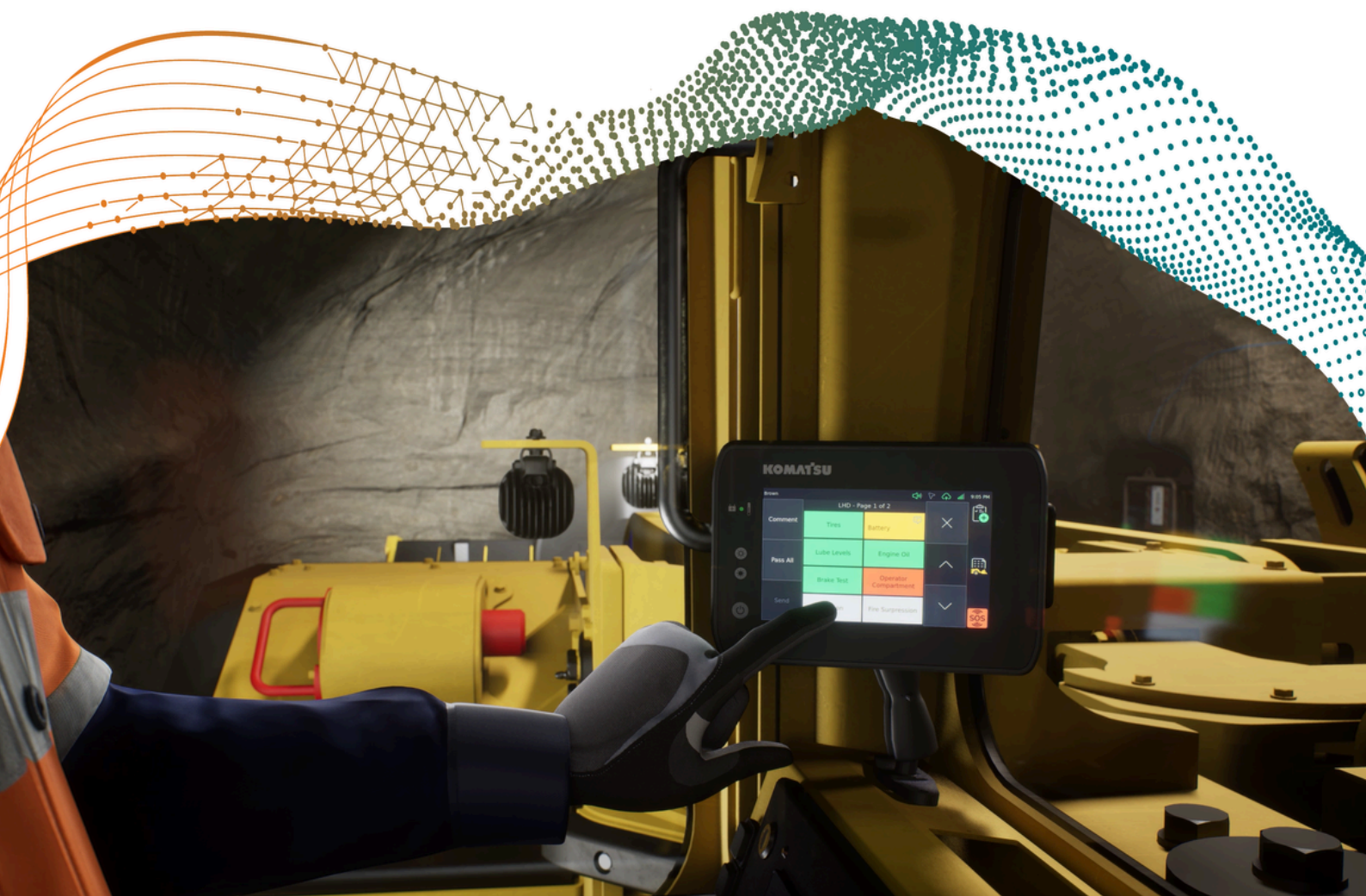
Telemetry
Track Equipment Health

HELIX Telemetry reduces machine downtime and maintenance costs through real-time tracking and analysis, enabling informed decision-making and optimized performance.

Underground Hard Rock

MST Global supports underground hard rock mines with robust, high-performance digital infrastructure designed for challenging underground conditions. Our solutions help mines establish reliable connectivity across development and production areas, enabling real-time operational visibility, improved communication, equipment tracking, fleet workflows and safer decision-making. Capabilities include:

- High-bandwidth underground networks using fibre, ethernet, Wi-Fi access points and mesh connectivity
- AXON network infrastructure for resilient underground communications and data transmission
- HELIX software for 3D visualisation, real-time data capture, tracking, dispatch, control and monitoring
- Fleet management and production tracking workflows to support shift execution and equipment utilisation
- Personnel, vehicle and asset tracking for improved visibility and emergency response
- Proximity awareness and safety systems to support risk reduction around mobile equipment
- Data capture for short interval control, mine planning and operational decision-making
- Voice and data communications through Wi-Fi, radio, leaky feeder and connected underground devices
- PED through-the-earth emergency messaging for mine-wide communication resilience
- Integration with third-party systems, mine planning tools, workflow systems and operational platforms



Underground Soft Rock

For soft rock operations, including underground coal and other hazardous environments, MST Global provides intrinsically safe digital systems engineered to support compliant, reliable and future-ready underground operations.

MST's intrinsically safe solutions are designed to enable communication, tracking and operational visibility in explosive or high-risk environments without becoming an ignition source. The AXON IS ecosystem, including AXON Core IS and AXON Air IS, supports safe, scalable underground connectivity for mine-wide digital operations.

Capabilities include:

- Intrinsically safe underground network infrastructure
- AXON Core IS and AXON Air IS for compliant, high-performing connectivity
- Fibre and Wi-Fi 6 technology for high-throughput underground communications
- AXON Mesh for reliable coverage in development areas, production areas and communication blind spots
- Two-way messaging and integrated tracking using ICCL Echo cap lamps and tracking tags
- Intrinsically safe VoIP communications through MP70 MinePhone
- Mine-wide personnel, vehicle and equipment tracking
- Digital operations and safety communications for continuous miners and shearers.
- Ventilation optimisation and asset monitoring through connected systems and integrations

Intrinsically Safe Coal Mining Solutions

Supporting the Digital Coal Mine ...enabling Safer, Smarter and More Connected Coal Operations

MST's integrated approach enables coal producers to establish a seamless communications environment from underground workings through to surface operations and enterprise systems. By connecting personnel, equipment, assets and operational technologies across the mine site, we help customers improve workforce safety, enhance situational awareness, optimise production and create the digital foundations required for present and future ready developments and mining initiatives.

With a proven track record across both underground and surface coal operations, MST Global is uniquely positioned to deliver the communications and operational technology infrastructure that powers the modern connected coal mine.

MST delivers advanced communications and operational technology solutions specifically designed for underground coal operations, including:

- Underground wireless communications networks
- Voice-over-IP communications
- Personnel and asset tracking systems
- Longwall and development panel connectivity
- Mobile equipment communications
- Emergency warning and messaging systems
- Refuge chamber communications
- Environmental monitoring connectivity
- Industrial IoT automations and infrastructure
- Real-time operational data networks



Your digital transformation partner

Communications Networks

- Underground wireless communications networks
- Surface radio communications systems
- Industrial Wi-Fi networks
- ATEX Intrinsically safe radios
- Fibre optic and industrial Ethernet infrastructure (Intrinsically Safe)
- Wireless broadband
- Microwave point-to-point and point-to-multipoint systems
- Wireless mesh networks

Mining Technology & Operational Systems

- Underground voice and data communications
- Asset and personnel tracking
- Fleet management connectivity
- Automation-enablement infrastructure
- Industrial IoT connectivity
- Environmental monitoring systems
- Telemetry
- Remote operations infrastructure

Technology partners

MST Global works with following leading global technology providers including:

Communications

- Tait Communications
- Motorola Solutions
- Icom
- Harris
- Kenwood
- Simoco

Security & Infrastructure

- Axis Communications
- Hikvision
- Mobotix
- Omnitronics
- RFI
- Schneider Electric
- Mineglow
- Orica

Wireless & Networking

- Cisco
- Rajant
- Cambium Networks
- Ubiquiti
- Wave1

Managed Support Services

MST provides lifecycle support services designed to maximise network availability and system performance. Services include:

- 24/7 technical (Zendesk) support
- Service desk management
- Incident and problem management
- Preventative maintenance
- Software and firmware updates
- Hardware maintenance
- Network monitoring
- Performance reporting
- Asset lifecycle management

Safety & Security Solutions

- Proximity detection systems
- Collision avoidance systems
- Emergency messaging and alarm systems
- CCTV and video surveillance
- Access control systems
- Refuge chamber communications
- Emergency response communications
- Workforce safety technologies

Infrastructure & Industrial Solutions

- Communications shelters
- Mobile repeater systems
- Network infrastructure facilities
- Data cabling and fibre installations
- Renewable and backup power systems
- Remote camp communications
- Operational technology integration
- Site-wide connectivity solutions



Why MST Global ?

Proven Global Experience

- Worldwide Technology deployments
- Operations supporting customers across six continents
- Extensive experience in remote and challenging environments

End-to-End Delivery

- Design
- Integration
- Deployment
- Commissioning
- Maintenance
- Lifecycle support

Safety & Reliability

- Mission-critical communications expertise
- Industrial-grade solutions
- Proven operational performance

Innovation & Integration

- Open architecture solutions
- IoT-enabled infrastructure
- Seamless integration with existing operational systems

Local Support, Global Capability

- Strong service presence
- Global engineering expertise
- Rapid response support capability

Our
commitment
to quality

Quality, Safety & Compliance

MST Global maintains a third-party accredited Quality Management System certified for Surface and BSI Service Centre - ISO 9001 (covering the design, supply, manufacture, installation and maintenance of communications equipment and systems).
Security Providers License
ASIAL Membership Certificate
DNV 26 ATEX 46412Q
NSW Resource Regulator
Licence MLA 081378

The company is committed to delivering safe, high-quality outcomes through robust health, safety and environmental management systems



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