



HELIX

Enhancing Safety,
Productivity and
Intelligent Control for
Underground Mining
Operations.

A Komatsu technology brand

CONTENTS

DISCLAIMER

The information contained in this document has been prepared by Mine Site Technologies Pty Ltd (MST Global) [ABN 93 002 961 953]. Every effort has been made by MST Global to ensure that the content is accurate, relevant, and up to date at the time of publication. However, the information provided is subject to change without notice. All technical information is presented in summary form and is not intended to be exhaustive.

This document is distributed on the understanding that MST Global is not responsible for any outcomes resulting from actions taken based on the information contained herein. MST Global does not accept liability for any errors, omissions, or damages arising from misrepresentation, misinterpretation, or any deviation from the provided information or instructions. Recipients are encouraged to independently assess the suitability of the information for their specific purposes prior to use.

OVERVIEW MODULAR.

3

DIGITAL-TWIN.

5

KEY CHALLENGES.

6

HELIX PLATFORM.

7

HELIX 3D CONNECT.

8

HELIX SENTINEL.

10

HELIX SMART MONITORING.

13

HELIX INTELLIGENT CONTROL.

15

HELIX TELEMETRY.

17

HELIX DISPATCH (FMS)

21

OVERVIEW

MST Global's HELIX enterprise software platform is an innovative solution for modern mining operations.

HELIX offers 3D visualisation, real-time data capture, integrated automation, and extensive customisation options via a geospatial digital twin of your mine's surface and underground operations.

Enhance your mines safety, increase productivity, and reduce costs with HELIX's modules; empowering informed decision-making and optimising your operations. Join the forefront of mining digitalisation technology and revolutionise your operations.



HELIX PLATFORM OVERVIEW

MODULAR SOLUTIONS FOR UNDERGROUND MINING OPERATIONS

The HELIX platform is a comprehensive and versatile solution designed to enhance mining operations through its modular capabilities:

- Each HELIX module, including Automation, Sentinel, Telemetry, IoT, 3D Connect, and Dispatch, provides specialised functionalities to optimise different aspects of mining.
- From real-time data capture and advanced automation to environmental monitoring and fleet management, HELIX integrates cutting-edge technology to streamline processes, improve safety, and drive efficiency. Its flexible architecture allows for seamless integration and customisation, making HELIX a powerful tool for modern mining operations.



3D CONNECT

INTERACTIVE SPATIAL INSIGHTS

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



INTELLIGENT CONTROL

MINE-WIDE AUTOMATION

HELIX Intelligent Control enables the "intelligent mine", enhancing efficiency and safety using personnel and asset location intelligence for controlling fans, pumps, doors, traffic lights etc.



SENTINEL

ENHANCED SAFETY MONITORING

HELIX Sentinel, integrated into the HELIX Platform, delivers real-time visibility of underground personnel locations, enhancing situational awareness, safety monitoring, and operational response.



DISPATCH

OPTIMISE FLEET MANAGEMENT

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



SMART MONITORING

IoT NETWORK

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

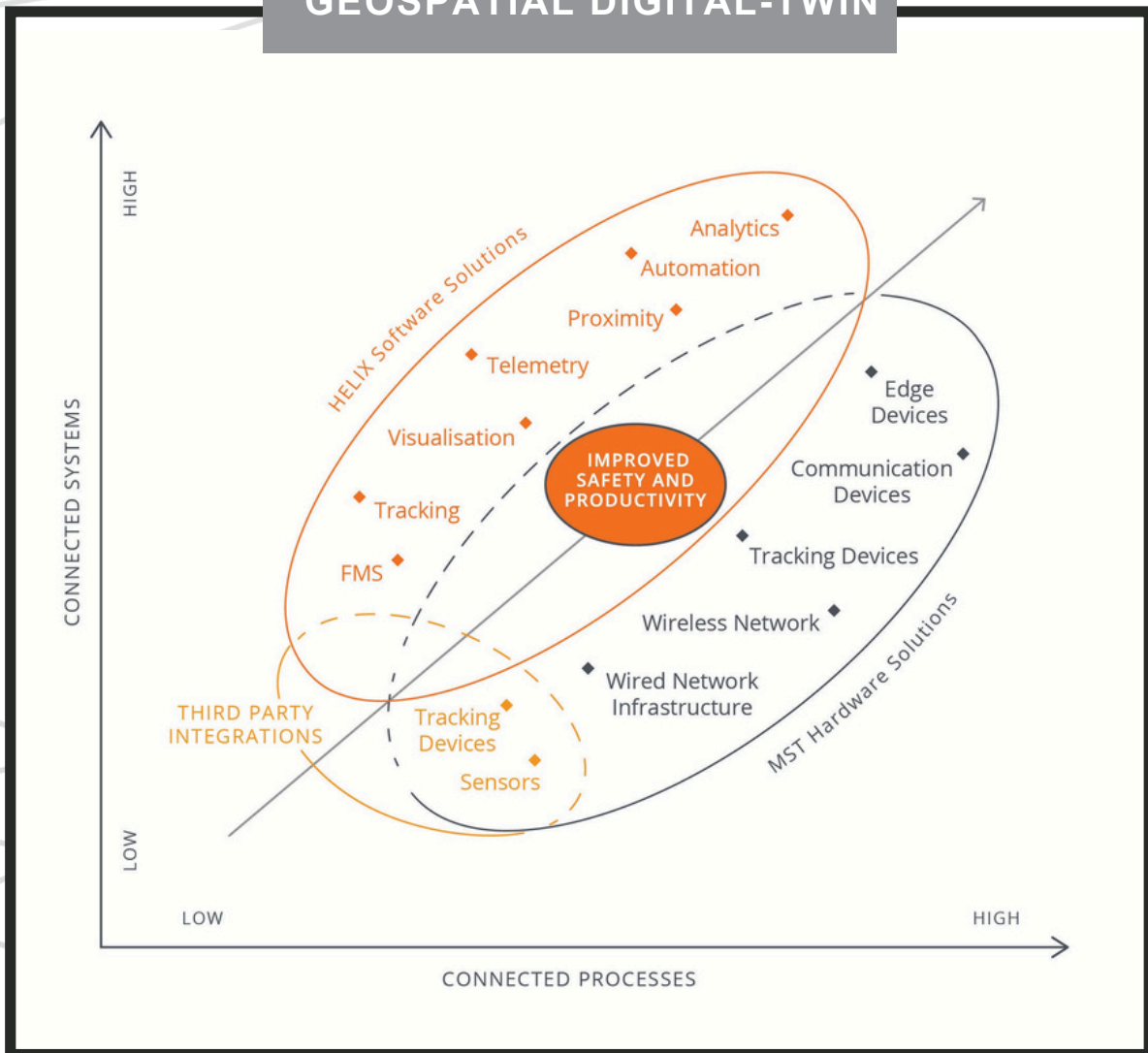


TELEMETRY

TRACK EQUIPMENT HEALTH

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

GEOSPATIAL DIGITAL-TWIN



Data is captured geospatially by real-time sensors, cameras, smart and edge devices, and wearables, all collected by a high-bandwidth, low-latency IP network.

This network is agnostic to wireless solutions and features interoperability capability through MQTT.

The HELIX platform provides an enterprise-level 3D visualisation system that acts on this information, leveraging artificial and operational intelligence to improve safety and productivity in real-time.

HELIX offers comprehensive digital monitoring, automation, and control for mining and tunneling, covering the entire mine. It includes next-generation precision tracking, proximity detection, and collision avoidance, all unified with full data capability. This ensures enhanced operational safety and efficiency throughout the mining process.



How can HELIX address and solve the unique operational challenges faced by mining companies?

Our goal is to provide a scalable digital platform that improves overall security and optimizes productivity.

Key Challenges in Mining Operations.

Safety Risks:

Ensuring the safety of workers in hazardous conditions, managing real-time emergency response, and adhering to stringent safety regulations.

Operational Efficiency:

Optimising resource allocation, maintaining equipment, and managing workflows to ensure continuous and cost-effective operations.

Environmental Impact:

Minimising the environmental footprint of mining activities, managing waste, and ensuring compliance with environmental regulations.

Data Management:

Handling large volumes of data from various sources, ensuring data accuracy, and utilising data effectively for decision-making.

Cost Control: Managing operational and capital expenses, reducing downtime, and implementing cost-saving technologies.

Need for Real-time Data and Automation.

Real-time Operational Awareness:

Eliminate data latency and gain a holistic view of the mining environment through real-time data capture and visualisation. This empowers faster response times to critical events and informed decision-making based on current conditions.

Enhanced Situational Intelligence:

Leverage real-time data streams to generate actionable insights and predictive analytics. This enables proactive maintenance, optimised resource allocation based on dynamic needs, and improved safety protocols through risk anticipation.

Reduced Operational Friction:

Implement automated workflows and machine-to-machine communication to streamline processes, minimise human error, and optimise resource utilisation. This translates to increased efficiency, reduced downtime, and improved overall production flow.

Safety and Productivity Concerns.

Limited Environmental Awareness:

Underground environments present inherent risks like gas leaks, equipment failure, and cave-ins. Real-time monitoring and location tracking are crucial for mitigating these risks and ensuring worker safety.

Data Silos and Delayed Insights:

Fragmented data sources and delayed information hinder proactive safety measures and timely response to emergencies.

Inefficient Resource Allocation:

Manual resource allocation processes can lead to underutilised assets and bottlenecks in production flow. Real-time data and analytics can optimise resource allocation based on dynamic needs and workload demands.

Limited Operational Visibility:

Lack of real-time visibility into equipment health, asset location, and task completion can hinder proactive maintenance and timely intervention, leading to inefficiencies and production delays.

THE SCALABLE PLATFORM THAT POWERS INSIGHT

HELIX

Unifying your mine's operations with centralised control, seamless integration, and real - time insights.

The HELIX platform is the vital engine that powers the various critical functionalities. These include Wi-Fi tracking for tracking tags, Mine Phone, and VIP personnel, as well as network device management.

Additionally, HELIX facilitates telephony services, including Push-to-Talk (PTT) and Session Initiation Protocol (SIP) communications.

Key Features:

Network Management:

- HELIX ensures the smooth operation and performance of the network infrastructure that underpins the HELIX platform. This includes tasks like device configuration, network monitoring, and troubleshooting.

Wi-Fi Tracking Engine:

- It processes and interprets Wi-Fi signals from tagged personnel and equipment, enabling real-time location tracking within the geospatial digital twin created by HELIX 3D Connect.

Voice and Message Management:

- This functionality facilitates communication between personnel underground through functionalities like voice calls and text messaging. It integrates with the real-time location data, allowing for targeted communication based on location.

Key Benefits:

Enhanced Operational Efficiency:

- Improves productivity through real-time data and automation.

Optimised Decision-Making:

- Facilitates informed decisions with comprehensive visualisation.

Scalability and Adaptability:

- Adapts to varying operational scales and requirements.

Cost Efficiency:

- Reduces operational costs with tailored solutions and efficient data handling.

Improved Safety:

- Enables proactive monitoring and control for safer mining operations.

User-Friendly Interface:

- Enhances user experience with intuitive navigation and management.

Integrated Management:

- Centralises software control and operational oversight for enhanced efficiency.

GEOSPATIAL DIGITAL TWIN AND REAL-TIME TRACKING.

HELIX 3D Connect

THE HELIX TOTAL VISUALIZATION MODULE

HELIX 3D Connect is a module enabling communication with personnel and assets within the mine environment.

Benefits of the Production Tracking solutions include:

3D Visualisation:

- Experience a 3D representation of your entire mining environment (surface & underground) with support for different geospatial coordinate systems. Choose between 2D or 3D visualisations for surface and underground environments.

Real-time Tracking & Reverse Tracking:

- Track assets in real-time and reconstruct their historical movement outside communication range (reverse tracking).

Real-time Oversight:

- Gain real-time visibility across multiple mine sites for improved decision-making.

Multi-Positioning Technology:

- Utilise various positioning technologies like Wi-Fi, UWB, BLE, and GNSS with varying Quality of Positioning (QoP) options.

Customisable Insights:

- Create tailored dashboards and reports with relevant data for various user needs.

Scalable Tracking Views:

- Adjust the tracking view to match your specific requirements.

Direct Messaging:

- Streamline communication through in-app messaging directly on the tracking map.

Surface & Underground Visibility:

- Gain a comprehensive perspective by including surface maps alongside underground activities.

Geofencing:

- Implement extensive geofencing capabilities with support zones and beacons.



Curious about the cutting-edge tracking technologies supported by HELIX 3D Connect?

HELIX 3D Connect supports four advanced tracking technologies:

Wi-Fi

Positioning:

Leveraging existing Wi-Fi infrastructure, HELIX Wi-Fi Positioning enables real-time tracking of personnel and equipment. By calculating signal strength from strategically placed access points, it determines precise locations, enhancing both safety and operational efficiency.

Ultra-Wideband (UWB)

Positioning:

HELIX UWB Positioning provides highly accurate position tracking by measuring signal travel times between tags and anchors. This makes it ideal for complex underground environments where traditional tracking methods may falter. UWB's minimal interference with physical obstacles ensures reliable performance, which is particularly crucial for safety applications such as proximity detection and collision avoidance.

Bluetooth Low Energy (BLE)

Positioning:

HELIX BLE Positioning uses energy-efficient beacons with extended battery life, making them ideal for continuous use in mining environments. This technology is perfect for offering a scalable and cost-effective solution. Numerous beacons can be deployed to track personnel and assets with precision.

Global Navigation Satellite System (GNSS) Positioning:

HELIX GNSS Positioning delivers accurate tracking for surface and near-surface operations, particularly for vehicles and heavy equipment. It covers large areas and provides precise position data, making it ideal for integration with fleet management systems.

TRANSFORMING MINE SAFETY AND EFFICIENCY

HELIX Sentinel

THE HELIX PEOPLE MANAGEMENT MODULE

HELIX Sentinel, integrated into the HELIX Platform, delivers real-time visibility of underground personnel locations, enhancing situational awareness, safety monitoring, and operational response.:

- With access to a digital dashboard, users can easily track individuals within specific zones.
- Deploy multiple tag-boards on flat screens in key areas for real-time awareness.
- Sentinel provides intuitive, customisable visual cues for proactive personnel management and optimised mining operations, delivering tangible benefits.

Digitally manage personnel location and well-being with HELIX Sentinel.

KEY BENEFITS:

Digital Tagboard:

- HELIX Sentinel replaces traditional physical tagboards with a digital solution. Easily track the location and status of equipment and personnel in real-time using the HELIX 3D geospatial digital twin.

Improved Visibility:

- By visualising the location and status of personnel and equipment on the geospatial digital twin, HELIX Sentinel provides a clear picture of underground activities, enhancing overall situational awareness for better decision-making and faster response times.

Streamlined Workflow Management:

- With real-time location data and improved communication, HELIX Sentinel can potentially automate tasks related to dispatching personnel and equipment, optimising workflow management.



KEY SENTINEL USE CASES:

Unassigned Tag Alerts:

- Automatically notify the control room when a tag is detected without a valid personnel assignment, helping maintain accurate visibility of everyone underground.

Hazardous Area Time & Overtime Compliance:

- Monitor how long personnel remain in hazardous or restricted areas and flag overtime or overexposure conditions before they become a safety or compliance risk.

Kiosk Sign-In / Sign-Out Monitoring:

- Verify that personnel have correctly signed in before going underground and signed out when exiting, improving traceability, shift accountability, and emergency readiness.

Real-Time Zone Presence Tracking:

- Provide live visibility of who is in each underground zone at any given time, supporting supervision, dispatch, access compliance, and faster incident response.

Muster & Emergency Accountability:

- Rapidly confirm who has reached designated muster points during an incident or evacuation and identify anyone who is still underground or unaccounted for.

Restricted Area Access Alerts:

- Detect entry into unauthorised or geofenced areas and notify supervisors immediately to improve movement control and reduce exposure to unsafe conditions.



ENSURING SAFETY THROUGH REAL-TIME TRACKING

HELIX Sentinel prioritises both safety and operational efficiency by combining real-time personnel location and activity tracking, with automated zone monitoring, streamline operations and resource allocation.

Proactive alerts for safety protocol violations and incident response are facilitated by continuous monitoring, while automated data analysis empowers data-driven decision-making, ultimately enhancing productivity and worker safety.

KEY BENEFITS:

Enhanced Safety Monitoring:

- Provides real-time tracking of personnel and equipment to ensure safety in mining operations.

Proactive Incident Response:

- Alerts and notifications for immediate action in case of safety breaches or emergencies.

Comprehensive Environmental Monitoring:

- Tracks environmental conditions such as gas levels, temperature, and humidity to maintain a safe working environment.

Improved Operational Efficiency:

- Optimises resource allocation and operational processes through detailed monitoring and data analysis.

Seamless Integration:

- Easily integrates with existing systems and IoT devices for a unified monitoring solution.

User-Friendly Interface:

- Intuitive dashboards and reports for easy access to critical information.

Scalability and Flexibility:

- Adapts to the unique needs of various mining operations, from small-scale projects to large, complex mines.

SMART, SCALABLE, REAL-TIME MONITORING

HELIX Smart Monitoring

THE HELIX MONITORING MODULE

HELIX Smart Monitoring is a capability within the HELIX platform that connects, ingests, and visualises data from underground devices and industrial systems using standard industrial protocols such as MODBUS. It provides a unified way to bring sensor data, equipment status, camera feeds, and environmental values into HELIX — making them visible on maps, available for alarms, and ready for use by automation and reporting.

KEY IoT CAPABILITIES:

Industrial Device Connectivity:

- Connect devices using standard industrial protocols without requiring additional middleware.

Map-Based Device Visualisation:

- Devices are placed at their real underground locations, allowing live values and status to be viewed in spatial context.

Live Values & Status Monitoring:

- View real-time measurements, operational states, and connectivity status from surface.

Alarm & Threshold Exposure:

- Device data is made available to HELIX alarms for safety and operational monitoring.
- Historical Data & Trending
- Sensor values and device states are stored for trend analysis, investigations, and reporting.

Camera Integration:

- Live camera feeds are integrated directly into HELIX and linked to map locations for fast visual verification.

HELIX IoT SUPPORTS DEVICES INCLUDING:

Environmental & Gas Monitoring:

- Fixed gas sensors.
- Environmental monitors in return airways and headings.

Industrial Infrastructure:

- Ventilation fans and pumps.
- Power and status signals from underground equipment.

Visual Systems:

- Underground cameras (e.g. RTSP streams)
- Visual alert devices such as Patlite and MineGlow.
- Visual alert devices are connected and monitored via HELIX IoT, with behaviour driven by alarms and HELIX Automation.



KEY IoT USE CASES:

Strata Monitoring:

- Monitor ground movement, stress changes, and strata behaviour to identify instability early and support safer underground access, operations, and re-entry planning.

Gas Monitoring:

- Visualise gas levels in return airways and other critical locations to support safe and informed re-entry decisions.

Strata Monitoring:

- Monitor ground movement, stress changes, and strata behaviour to identify instability early and support safer underground access, operations, and re-entry planning.

Fixed Asset & Infrastructure Monitoring:

- Track pumps, fans, doors, and other underground assets for status, health, and early fault detection.

Remote Visual Confirmation:

- Use camera feeds to visually verify equipment operation and underground conditions without sending personnel underground.

Environmental Conditions Monitoring:

- Monitor airflow, temperature, humidity, dust, and water ingress to identify changing underground conditions early.

KEY BENEFITS:

Improved Underground Visibility:

- Operators gain a single, real-time view of underground device conditions from surface.

Reduced Manual Checks:

- Minimises the need for physical inspections by providing continuous monitoring.

Trusted Data Foundation:

- Creates a reliable data layer that alarms, automation, and reporting can safely depend on.

Scalable Device Integration:

- Supports expanding device fleets and new use cases without redesigning the platform.

Operational Confidence:

- Combines live data, historical trends, and spatial context in one system.

SEAMLESS INTEGRATION, PRECISION CONTROL

HELIX Intelligent Control

THE HELIX PROCESS AUTOMATION MODULE

HELIX Intelligent Control is a capability within the HELIX platform that consumes real-time data from tracking systems, IoT devices, telemetry, and alarms and applies rules, workflows, and logic to automatically drive underground responses.

Enabling mines to move from monitoring to action, using location, sensor data and operational context to make automated decisions in safety and productivity workflows.

CONTINUOUSLY EVALUATE:

- Personnel and vehicle location and movement.
- IoT and telemetry values (e.g. gas levels, fan status, pump status)
- Alarm and emergency states / Zones, rules, and site context.
- Based on these inputs, HELIX Automation triggers automated actions to control behaviour, issue warnings, and enforce operational rules across the mine.

KEY AUTOMATION FEATURES:

Rule-Based Automation Engine:

- Define configurable automation rules that respond to tracking data, alarms, and IoT inputs.

Geospatial Awareness:

- Rules can reference zones, intersections, declines, and mine layout to apply automation exactly where conditions occur.

Multi-Input Decision Logic:

- Combine tracking data, IoT values, telemetry, and alarms in a single rule to support complex operational scenarios.

Automated Outputs / Trigger actions such as:

- Visual alerts and lighting behaviour
- Equipment or system actions via connected interfaces
- Notifications and operational state changes

Execution History & Review:

- Automation events and outcomes are recorded for review, investigation, and continuous improvement.



**KEY
AUTOMATION
USE CASES:**

Ventilation on Demand (VoD)

Automatically manage ventilation behaviour based on:

- Vehicle or personnel presence / Zone occupancy
- Gas or environmental thresholds
- Delivers airflow only where and when it is required, improving efficiency and safety.

Underground Traffic Control (One-Way & Intersections)

Automate traffic behaviour using:

- Vehicle location and direction / Intersection and decline zones
- Controls lights and warnings to reduce collision risk and improve pedestrian safety.

Emergency-Driven Lighting & Alerts.

Automatically activate visual alerts based on:

- Emergency alarms / Evacuation states / Restricted zone breaches.
- Ensures clear, immediate underground communication during critical events.

Post-Blast & Restricted Area Control.

Automate access control and warnings using:

- Gas sensor values.
- Time-based or alarm-based clearance logic
- Prevents entry until underground conditions are confirmed safe.

**KEY
BENEFITS:**

- Reduces reliance on manual intervention during emergencies and high-risk situations.
- Ensures automation rules are applied consistently across shifts and operators.
- Supports growing numbers of rules, zones, and use cases without operational complexity.
- Automated actions occur immediately when defined conditions are met.
- Scalable Automation.
- Improved Safety.
- Faster Response.
- Operational Consistency.

POWERING OPERATIONAL INTELLIGENCE

HELIX Telemetry

THE HELIX VEHICLE DATA MODULE

HELIX Telemetry transforms real-time machine and vehicle data into actionable intelligence for underground mining operations. As an OEM-agnostic solution, it seamlessly integrates with diverse fleets and equipment to provide a unified view of asset health, performance, and utilisation.

HELIX TELEMETRY ENABLES:

Real-Time Equipment Visibility:

- Monitor machine performance, status, and health metrics in real time from surface, across all connected assets.

Unified Fleet Data Integration:

- Consolidate telemetry data from multiple OEM systems into a single, standardised platform for consistent analysis and reporting.

Operational Context Through Spatial Awareness:

- Combine telemetry data with HELIX's geospatial digital twin to understand not just what is happening, but where it is happening.

Continuous Data Availability:

- Maintain data capture and synchronisation even in intermittent or disconnected network environments.

Data-Driven Decision Support:

- Enable maintenance, operations, and planning teams with accurate, timely insights to optimise performance and reduce risk.



KEY AUTOMATION FEATURES:

By enabling predictive, data-driven decisions, HELIX Telemetry helps reduce downtime, maximise equipment reliability, and unlock higher operational efficiency.

Rule-Based Automation Engine:

- Define configurable automation rules that respond to tracking data, alarms, and IoT inputs.

Geospatial Awareness:

- Rules can reference zones, intersections, declines, and mine layout to apply automation exactly where conditions occur.

Multi-Input Decision Logic:

- Combine tracking data, IoT values, telemetry, and alarms in a single rule to support complex operational scenarios.

Automated Outputs:

- Trigger actions such as: Equipment or system actions via connected interfaces.

Execution History & Review:

- Automation events and outcomes are recorded for review, investigation, and continuous improvement.





KEY TELEMETRY CAPABILITIES:

Multi-OEM Data Integration:

- Connect to a wide range of vehicle and equipment systems, supporting OEM-agnostic data ingestion without complex custom integration layers.

Real-Time Monitoring & Alerts:

- Capture live telemetry values such as engine performance, load metrics, temperatures, pressures, and fault codes, with configurable thresholds and alerts for rapid response.

Geo-Tagged Event Visualisation:

- Telemetry events, alarms, and machine states are mapped directly onto the HELIX 3D environment, providing immediate spatial context for operational awareness.

Historical Data & Trend Analysis:

- Store and analyse historical telemetry data to identify patterns, support root-cause analysis, and enable predictive maintenance strategies.

Offline Data Handling & Synchronisation:

- Ensure continuity of data collection in low-connectivity environments, with automatic synchronisation once communication is restored.

Advanced Analytics & Reporting:

- Leverage dashboards, visualisation tools, and export capabilities to support performance analysis, compliance reporting, and operational optimisation.





KEY USE CASES:

Predictive Maintenance & Reliability:

- Analyse trends in engine hours, temperatures, and fault conditions to predict failures before they occur—reducing unplanned downtime.

Fleet Performance Optimisation:

- Track utilisation, payload, and cycle performance to identify inefficiencies and improve overall fleet productivity.

Alarm & Fault Management:

- Provide immediate visibility of critical machine alarms, enabling faster troubleshooting and reduced equipment damage risk.

Operational Decision Support:

- Support supervisors and planners with accurate, real-time insights into equipment status and availability.

Cross-System Data Correlation:

- Combine telemetry data with IoT, tracking, and automation inputs to deliver a holistic operational view across the mine.

KEY BENEFITS:

Reduced Downtime:

- Shift from reactive to proactive maintenance, minimising unexpected equipment failures.

Improved Equipment Reliability:

- Continuous monitoring ensures assets operate within optimal parameters.

Enhanced Safety:

- Early detection of abnormal conditions helps prevent hazardous equipment failures.

Operational Efficiency Gains:

- Optimise asset utilisation and reduce bottlenecks through better visibility.

Single Source of Truth for Fleet Data:

- Eliminate data silos by consolidating telemetry across multiple OEM systems.

Scalable & Future-Ready:

- Easily expand to support additional assets, data sources, and advanced analytics use cases.



THE FLEET MANAGEMENT MODULE OF THE HELIX

HELIX Dispatch

THE HELIX FLEET MANAGEMENT MODULE

A flexible, scalable, and integrable FMS that adapts to your current and future mine.

The Production Tracking solution incorporates location, time, and crew information into production data, creating a cohesive picture of the work being performed underground.

Benefits of the Production Tracking solutions include:

Automatic, OEM-agnostic haul cycle detection:

- Manufacturer independent, for low-profile loaders and trucks, both underground and above ground.

Seamless data transfer:

- Includes material and load location from LHD loaders to trucks.

Productivity metrics capture

- Includes drilling and screwdriving and their association with task activity data.

Real-Time, Automated Production Tracking:

- Capture material movements without operator input and maintain material inventories in real-time.

Task Management:

- Enables identification of mining cycle inefficiencies and real-time monitoring of progress to production targets.

Time Tracking:

- Provides tools to manage time effectively, empowering dispatchers and supervisors to easily identify constraints and delays.

Single Source of Truth:

- Streamlines task lists for the entire fleet, increasing equipment utilisation and maximising material extraction.

Safety Checklists:

- Enhances equipment operator safety with digitised pre-start checks and location safety checklists.

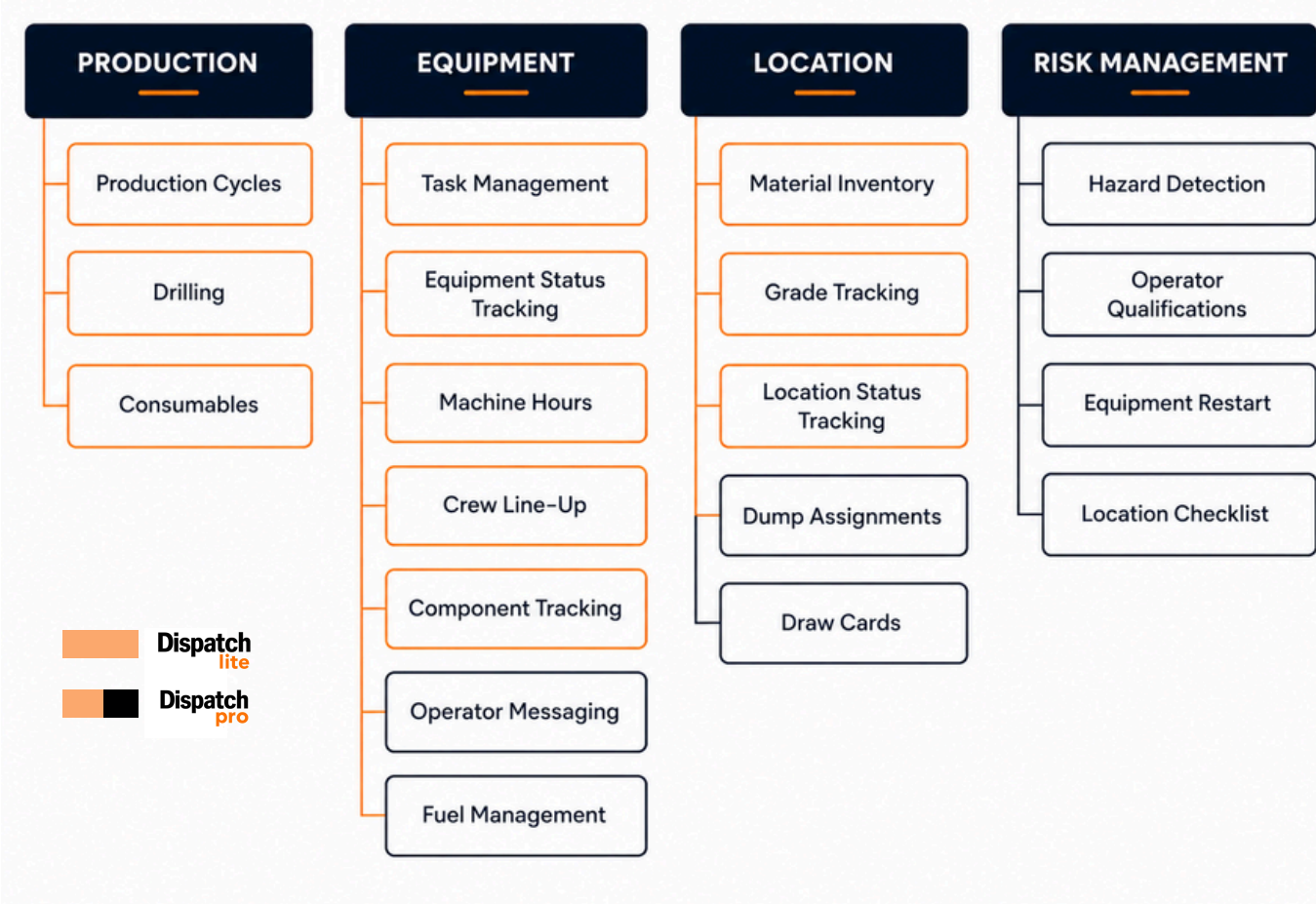
Extensive Feature Set:

- Includes both Core and Optional features to tailor the solution to specific operational needs.



HELIX Dispatch is equipment agnostic and works with any underground mining method and any wireless underground network infrastructure to:

- Optimise equipment efficiency, performance, and utilisation.
- Streamline operations.
- Improved productivity, operational efficiency, and timely material extraction.
- Optimized resource management across all mining operations.
- Informed decision-making for rapid problem-solving.
- Ensure safety in mining operations.
- Improve equipment operator safety with hazard tracking, digitised equipment prestart and location safety check lists.





Looking for solutions to improve safety, productivity, and operational performance in your mine?

www.mstglobal.com

- Visit the MST Global website to explore innovative technologies designed for underground mining and tunneling.
- Discover integrated solutions for communications, automation, IoT, fleet management, personnel tracking, and digital operations, backed by real-world customer success stories, technical resources, product information, and the latest industry innovations.
- Whether you're evaluating new technologies or planning your next digital transformation project, MST Global provides the insights and expertise to help you make informed decisions.

LinkedIn:

- Stay connected with MST Global on LinkedIn and be the first to discover our latest innovations in underground mining technology.
- Follow us for product updates, customer success stories, industry insights, event highlights, expert perspectives, and the latest advancements in automation, connectivity, safety, and digital transformation.
- Join our community and stay informed about the technologies shaping the future of mining.

YouTube channel:

- Explore MST Global's latest innovations in underground mining technology.
- Discover videos featuring communication networks, automation, fleet management, safety solutions, IoT, real-world customer success stories, product demonstrations, and digital technologies designed to improve mine safety, efficiency, and productivity.

Talk to our experts about HELIX and how it can improve underground safety and productivity within your mine.



A Komatsu technology brand

APAC

EMEA

AMERICAS

ASIA