SAFEGUARD WHAT MATTERS WITH A CONNECTED MINE

MOTOROLA *SOLUTIONS*

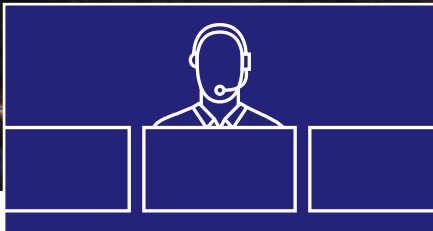# WORK SMARTER AND SAFER WITH A CONNECTED MINE

Keeping large teams and expensive infrastructure safe, secure and productive means having eyes on every area of your site – 24/7. Motorola Solutions supplies the visuals to monitor it and the smarts to help you interpret and act, fast.

Motorola Solutions' video security, mission-critical communications and control ecosystem supports you to direct resources, secure assets, solve operational challenges and keep your team safer – so you can focus on core business.

Connected management

- Searchable Video
- Incident Management
- Remote Operation Centre Software

Connected access

- Perimeter video
- Automatic number plate recognition
- Access management

Connected site operations

- Fixed camera systems
- Body-worn cameras
- Real-time radio alerts
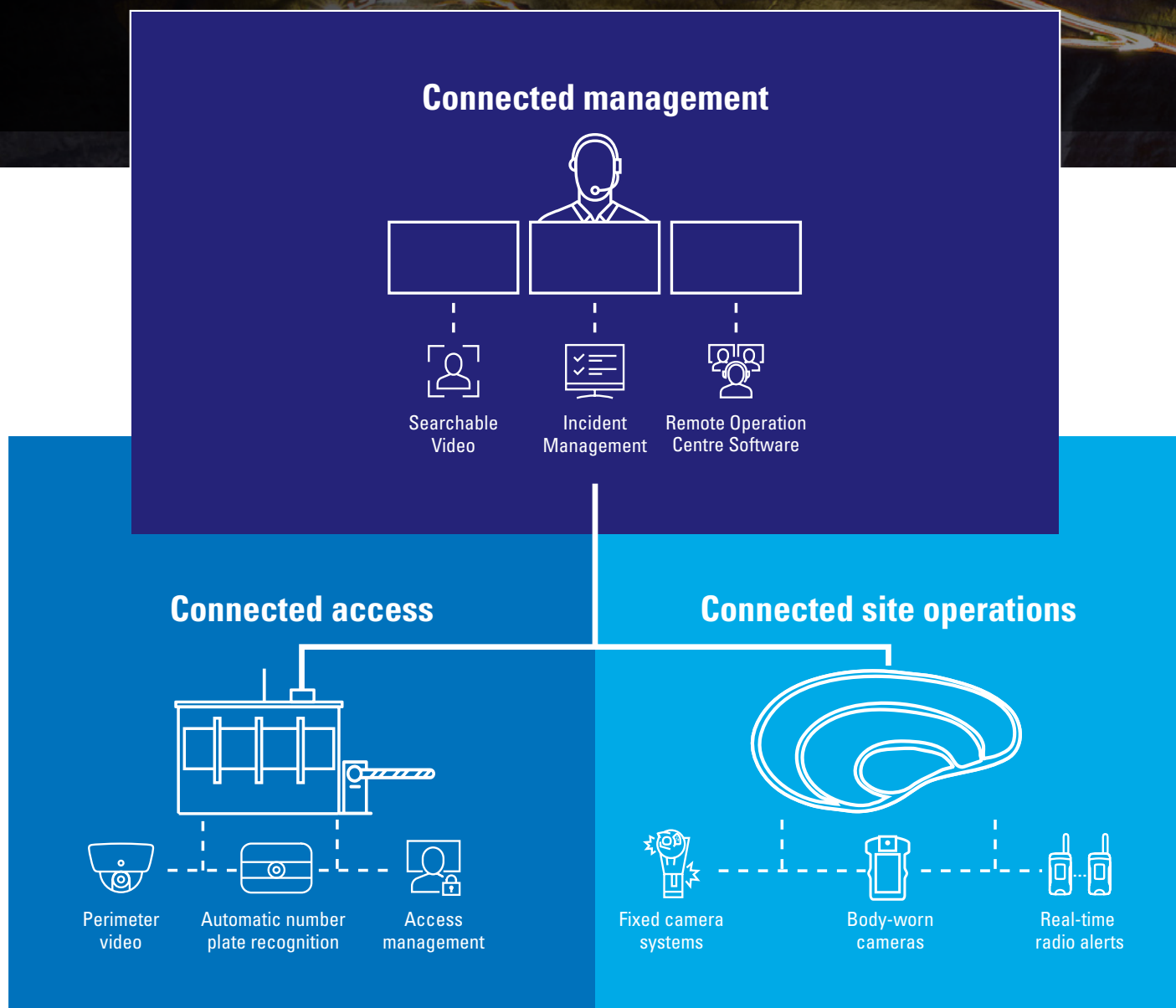
25%

RIO TINTO'S PRODUCTIVITY INCREASE FROM AUTONOMOUS BLAST HOLE DRILLS

CONNECTED MANAGEMENT

Monitor, report and respond from a central control point.

SEARCHABLE VIDEO

- Search through hours of video with ease

- Locate a specific person or vehicle of interest using physical descriptions and facial recognition.

INCIDENT MANAGEMENT

- Spot unusual activity and know exactly how many people are in a space with AI-powered analytics.

- Help your team recognise issues with colour-coding that indicates importance.

REMOTE OPERATION SOFTWARE

- Integrate with a wide range of third-party ONVIF (Open Network Video Interface Forum) software and hardware.

- Keep video data secure when it's recorded, sent and stored with FIPS 140-2 encryption.
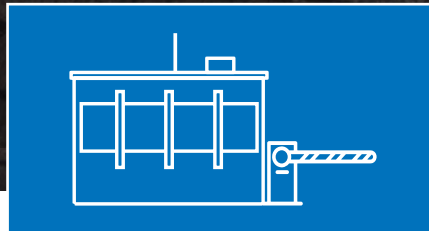
CONNECTED ACCESS

Ensure only the right people and vehicles gain site access, 24/7.

PERIMETER VIDEO COVERAGE

- Cover a wider area with fewer cameras using ultra-high-definition video security.

AUTOMATIC NUMBER PLATE RECOGNITION (ANPR)

- Automate entry and exit for authorised vehicles

- Be alerted of non-authorised vehicles approaching your site.

ACCESS MANAGEMENT

- Keep people, property and assets safe with an easy-to-use, role-based security system.

- Be alerted to perimeter breaches or unusual activities with advanced AI technology that brings new levels of automation to surveillance.
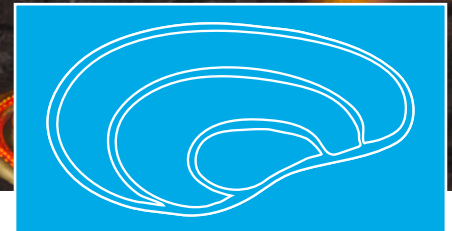
CONNECTED SITE

Boost situational awareness with HD cameras and radio alerting.

FIXED CAMERA SYSTEMS

- Protect your investment with cameras that are especially designed for harsh conditions – resistant to dust and ruggedised against explosions.

- Monitor large and confined areas.

- Detect movement in areas with challenging light conditions using thermal imaging.

BODY-WORN CAMERAS

- See what your team see with real-time streaming to both your control centre and the cloud.

- Pool cameras to optimise resource use.

REAL-TIME RADIO ALERTS

- Receive and respond to alarms from MOTOTRBO™ and APX™ radio systems.

MAKE SECURITY EASIER FOR EVERYONE ON YOUR TEAM

Enable seamless operations while you support site leaders and meet compliance needs.

SECURITY OPERATIONS

- Control access based on authority and risk levels.
- Equip your security network operations team with a holistic real-time view of operations.
- Integrate fixed and body-worn video with access control and two-way radio networks for a complete security ecosystem that helps to quickly detect and respond to incidents.

OPERATIONS AND COMPLIANCE

- Reduce risk of breaches by automatically alerting the appropriate teams and executing the proper procedure.
- Collect data and incident logs from multiple sources, including remote and high-risk areas.
- Store recordings in the cloud for evidence and future reference.

COMMUNICATIONS MANAGER

- Drive the performance of your mining operations with resilient, reliable and unified communications.
- Connect your control centre with video and radio to gain instant access to information, greater control of operations and more efficient use of critical resources.

IT MANAGER

- Manage day-to-day operations with secure self-service workflow.
- Harvest operational data 24/7 in cloud-based technology.
- Enable efficient remote operations through connected CCTV, high-speed broadband and digital communications.

CONNECTED MINE IN ACTION

Keep your teams connected and site protected your from attempted theft and unauthorised access.

RFID card used by individual to gain access to a mine site explosive magazine.

Fixed camera and facial recognition technology identifies person using card is not authorised.

Cammand centre alerted to unauthorised individual in restricted area.

Image and location of the individual sent to field security team.

Field security apprehends individual and secures explosives.

Live stream from field security body-worn cameras received by command centre and secured in cloud.

VALUE ONLY MOTOROLA SOLUTIONS CAN BRING

Gain the support of a global leader in mission-critical communications, software and managed services.

Founded on customer-centred research and development, and reinforced with 90 years of mission-critical expertise, our ecosystem unifies radio and broadband communications, intelligently captures and analyses video and integrates software solutions end-to-end.

Motorola Solutions has more than 17,000 employees in 60 countries, serving over 100 countries. We provide communication infrastructure, devices, software and services for more than 2,500 mining and energy customers around the world. Our partners in Australia, New Zealand and the Pacific include some of the largest and most respected brands in the industry, such as Santos, Vale and Rio Tinto.

INNOVATING TO KEEP PEOPLE SAFE

We understand that the mining industry is committed to keeping its people and work environment as safe as possible. Through our products, services and experience, we have a track record of adding value to our customers' communications and safety capabilities.

We spent more than $680 million on R&D last year, demonstrating our commitment to designing the next generation of telecommunications to promote safety and efficiency. Our platforms include the latest advancements in APX P25 smart radios and virtual assistants, control room software, video security and managed and support services.

✔ VIDEO SECURITY AND ANALYTICS

By combining cameras, access control, infrastructure and management software with powerful analytics, your video system transforms from passive observer to active partner.

✔ MISSION-CRITICAL COMMUNICATIONS

We build infrastructure and devices that enable seamless communications, so the lifeline is always in reach.

✔ COMMAND CENTRE SOFTWARE

Our world-leading software interfaces streamline workflows through communications, records, data and analytics.

✔ MANAGED AND SUPPORT SERVICES

We deliver support services that ensure the systems you depend on are ready whenever you need them – for everyday routines or times of major disaster.

MISSION-CRITICAL COMMUNICATIONS

CONNECTED MINE

VIDEO SECURITY & ANALYTICS

COMMAND CENTRE SOFTWARE

MANAGED & SUPPORT SERVICES
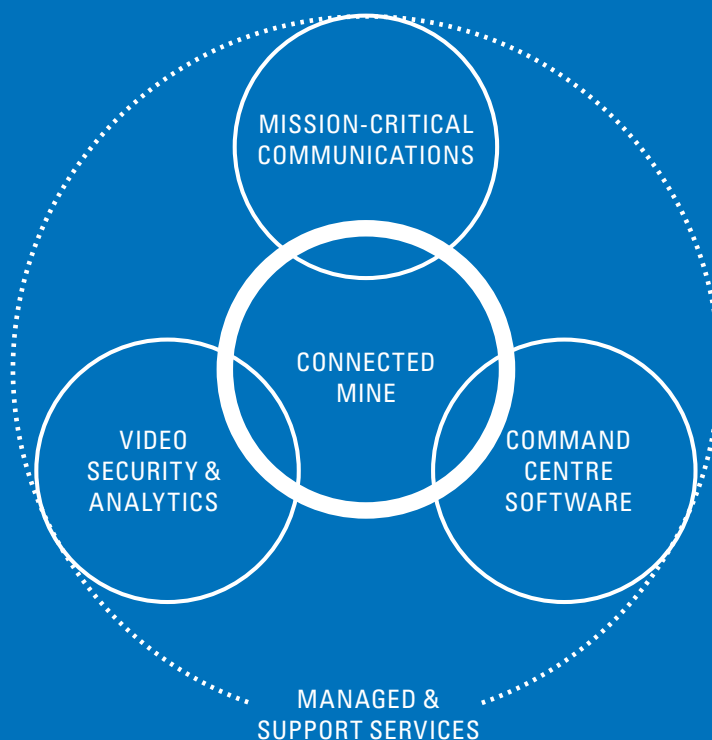
For more information on solutions for mining, contact your Motorola Solutions representative or visit motorolasolutions.com/mining

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