



Hexagon Operator Alertness System (OAS)

Case Study



Surface



Underground



MMG partners with Hexagon to revolutionise operator safety at Rosebery Mine in Tasmania

Customer

MMG is a globally recognised producer of base metals. It operates in diverse and challenging environments and continually seeks innovative solutions to protect its workforce. Committed to ensuring its people return home safely, MMG partnered with Hexagon to address critical safety challenges.

Challenge

MMG faced the complex challenge of fatigue and distraction among truck operators at Rosebery in Tasmania. The mine's complex underground environment intensified the risks associated with operator alertness. MMG recognised that long hours and repetitive tasks faced by operators could compromise attention and increase safety hazards.

It's no secret that operator fatigue is one of the leading causes of accidents in mines. Heavy machinery, repetitive work and long hours heighten the dangers. According to US Federal Agency the National Institute for Occupational Safety and Health (NIOSH), employee fatigue contributes to at least 20% of all workplace incidents and costs employers at least \$135 billion per year.

Solution

In response to MMG's safety concerns, Hexagon introduced the customer to Hexagon Operator Alertness System (OAS).

OAS employs advanced sensor technology and machine-learning algorithms to actively monitor an operator's alertness levels. In the event of distraction, drowsiness or microsleeps, the operator receives real-time notifications, thereby adding a significant layer of protection that potentially prevents an accident during operators' demanding 12-hour shifts.

Working in partnership with MMG, Hexagon deployed OAS on Rosebery's underground haulage fleet. The technology's adaptability to the mine's challenging underground environment made it an ideal choice for MMG. So, too, did a focus on change management. MMG and Hexagon understand that any credible safety enhancement initiative must be backed by a proven change management methodology to ensure a meaningful safety culture prevails.

Results

Hexagon OAS transformed safety at Rosebery. By providing real-time alerts for fatigue and distraction, the solution empowered operators to respond proactively, significantly reducing the risk of accidents. Applying the profound insights uncovered by implementing OAS enabled management to enrich the safety culture at Rosebery.



The deployment of Hexagon OAS is providing valuable data for our operation and making a difference in the safety of MMG’s workers. We recognise that with long shifts, fatigue can become a hazard and this technology enables us to continually assess and address the fatigue risk of our underground truck operators objectively, in real time.”

Hexagon’s collaboration with MMG in deploying OAS at Rosebery exemplifies a successful partnership that prioritises a shared belief: that investing in safety need not be at the expense of productivity.

In fact, it’s the most valuable investment a mine can make. The integration of leading technology to address the challenges of fatigue and distraction demonstrates the commitment of both MMG and Hexagon to advancing safety standards and ensuring that everyone gets home safely. Our partnership with Hexagon underscores the transformative potential of employing technology to revolutionise safety protocols and operational excellence in underground mining operations.

- Steve Scott, General Manager, Rosebery, MMG

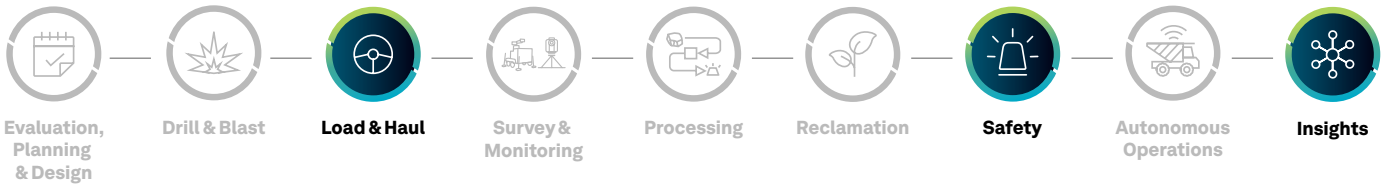


Overlooking the Rosebery Mine, MMG website

Integrated life-of-mine solutions

Having one technology partner for the life of your mine is a superpower in the face of modern mining challenges. With Hexagon, you gain a trusted partner backed by 50 years of expertise. Our integrated technology solutions help eliminate the need for disparate products to address all the work areas that make for a successful mine.

This package includes solutions to support:



Connect with us

hexagon.com/mining | info.min@hexagon.com