

RIVET MINING SERVICES & GUARDIAN – TOGETHER, MAKING A POSITIVE IMPACT

“Guardian has had a significant impact within the Rivet Mining Services business...the data has assisted us better understand and address our high-risk locations and times of day/shift...”

GEOFFREY TAYLOR, REGIONAL HEALTH, SAFETY, ENVIRONMENT & TRAINING MANAGER RIVET MINING SERVICES

CLIENT PROBLEM

- Road-train drivers often navigate the identical route multiple times in a shift
- Driver complacency, distraction and fatigue are of real concern
- RMS believes:
 - safety is key to success
 - all injuries are preventable
 - training and consultation are essential
 - engaged staff = more risk-aware staff
- RMS is committed to ongoing improvement in HSE outcomes
- RMS sought to reduce driver distraction and fatigue related accidents and rollovers

GUARDIAN SOLUTION

- Implement Guardian in RMS road-train fleet
- Algorithms monitor driver's eye and head movements in real time; a forward-facing camera monitors the road
- Immediate in-cab seat vibration and audible alarms alert the driver
- 24/7 back-to-base monitoring and support by the 24/7 Guardian Center
- System data allows continuous safety improvement

CLIENT OUTCOME

- Increased awareness of the true levels of driver fatigue/distraction
- Real-time back-to-base alerts allow early intervention before accidents happen
- After 1 year, a “large reduction in the frequency of both fatigue and distraction, as well as rollover events”
- Guardian helps RMS drivers to manage fatigue and distractions proactively
- Guardian data assists management to identify and address high-risk locations, times or shifts
- “Guardian has had a significant impact within the Rivet Mining Services business”

Rivet Mining Services (RMS) is an Australian provider of bulk haulage and onsite ancillary services to the mining industry. It operates over 100 quad road trains. Part of the Rivet Group (Rivet), a trusted provider of large-scale logistics and transport solutions, RMS operates across the key resource areas of Western Australia, New South Wales and Queensland.

While RMS focuses mainly on iron ore, lithium, manganese and gold in the mining sector, the company's regional expansion and diversification allows it also to provide services such as road maintenance, stockpile management and quarry services to its clients.

Safety is regarded as fundamental, at Rivet, and management believes it is the key to Rivet's success. Rivet takes its health, safety and environmental (HSE) responsibilities seriously, and strives to continuously improve its HSE outcomes.

Some core beliefs which inform the Rivet safety ethos – and the way the company does business – include:

- All injuries are preventable
- Management is responsible for ensuring safe work and the availability of resources and expertise
- Training, consultation and participation of all staff is essential
- Engagement of staff through better communication and consultation improves safety awareness and 'risk mindfulness'.

RMS road-train drivers are often required to use the same route many times in each shift, and this monotony can understandably lead to complacency, distraction and fatigue. Distraction and fatigue – two of the most common causes of road accidents – are of particular concern at RMS, where drivers are rostered on for rolling shifts (with no set starting times) on a basis of four weeks on and two weeks off, with a week of day shifts alternating with a week of night shifts.

As part of its ongoing commitment to improved HSE performance, RMS was determined to reduce distraction and fatigue in their drivers, and thereby reduce the risk of fatigue – or distraction-related road accidents or vehicle rollover.

From the outset, with Guardian installed on their road-train fleet, management was able to see the true levels of fatigue and distraction events among their drivers: both were occurring much more often than they had anticipated.

The Guardian facility being able to flag driver distraction and fatigue events and relay the information back to base in real time allowed management to immediately deal with the situation before it could have serious consequences. As a result, after using Guardian for 12 months, management was able to report a **“large reduction in the frequency of both fatigue and distraction, as well as rollover events”** within the fleet and note that **“the system has assisted in coaching drivers to manage both their fatigue and distractions more proactively”** Geoffrey Taylor, Regional Health, Safety, Environment & Training Manager Rivet Mining Services.

The data provided by Guardian's in-cab driver monitoring system has also helped management better understand and address the times, shifts or locations most at risk for fleet driver fatigue and distraction.

RMS believes that the implementation of Guardian in their road-train fleet has had a significant positive impact on the business.

CASE STUDY RIVET MINING SERVICES

HEAD OFFICE

a 80 Mildura Street Fyshwick
ACT 2609 Australia
e marketing@seeingmachines.com
w [seeingmachines.com](https://www.seeingmachines.com)