



Asset Vision

Case Study

Keeping the Onslow Iron Haul Road Moving with Connected Asset Intelligence

Asset Vision helps Mineral Resources improve inspection visibility, maintenance coordination and decision-making across a critical remote road network in Western Australia.



MANAGING ROAD PERFORMANCE IN A REMOTE, HIGH-PRESSURE ENVIRONMENT

The Onslow Iron Haul Road is a critical link in Mineral Resources' (MinRes) operations, supporting the continuous movement of iron ore across vast distances in Western Australia.

Operating in a remote, high-demand environment, the road network must perform under constant pressure. Heavy vehicle movements, environmental conditions and operational intensity place significant strain on the asset, making maintenance, safety and uptime non-negotiable.

To meet these demands, MinRes required a modern asset management approach that could provide consistent inspection coverage, real-time visibility and faster maintenance response across the entire network.

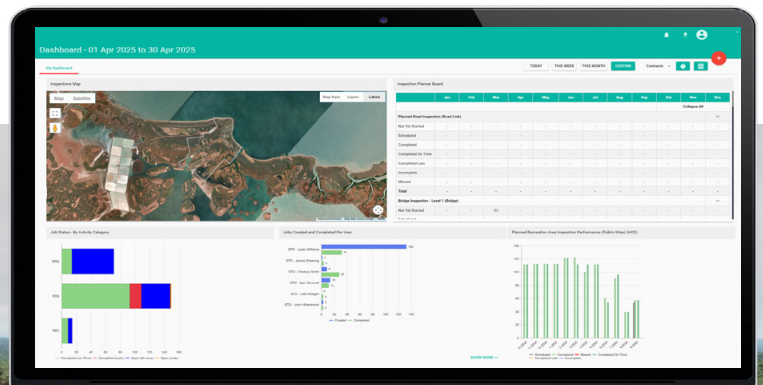
Asset Vision was deployed to bring together inspections, maintenance and data into a single connected platform, enabling MinRes to manage the haul road more proactively, safely and efficiently

THE CHALLENGE

Managing the Onslow Iron Haul Road required Mineral Resources to balance operational performance with safety and efficiency, often in challenging conditions.

Key challenges included:

- Maintaining continuous road availability to support production targets
- Ensuring safe, consistent inspections across long and remote corridors
- Managing a wide range of assets including road surfaces, drainage, and safety infrastructure
- Reducing reliance on manual processes and disconnected systems
- Improving data quality and visibility to support faster decision making
- Mobilising a solution quickly to align with project timelines



THE SOLUTION

Asset Vision was implemented as the asset and maintenance management platform for the Onslow Iron Haul Road, giving Mineral Resources a connected way to manage inspections, maintenance and operational data across the network.

The platform brought together a centralised asset register, linear referencing, offline mobile inspections and integrated maintenance workflows for both reactive and planned works. This improved visibility across field and office teams while supporting more consistent asset and maintenance management in remote conditions.

AutoPilot was also deployed to enable safer, vehicle-based road inspections, capturing condition data without crews needing to stop or leave the vehicle. Real-time data services and cloud-based APIs provide a foundation for enterprise reporting and future integration with systems such as SAP and Dynamics.

Asset Vision worked closely with Mineral Resources to align the platform to practical operational needs, enabling rapid mobilisation and providing a scalable foundation for future asset management requirements.

SAFER INSPECTIONS, FASTER RESPONSE

With Asset Vision in place, Mineral Resources has improved how the Onslow Iron Haul Road is monitored, maintained and managed.

Safer, more efficient inspections

AutoPilot enables inspections to be completed from within vehicles, improving safety while increasing consistency and coverage.

Clear visibility across the network

Centralised data provides a real-time view of asset condition, defects and maintenance activity, supporting faster and more informed decisions.

Reduced downtime and improved performance

Better tracking of maintenance activities and KPIs enables quicker response times and helps minimise disruption to haul road operations.

Stronger field-to-office alignment

Inspection data flows directly into the platform, improving coordination between field crews and operational teams.

Scalable, future-ready platform

With integrated data services and APIs, Mineral Resources can extend the platform across additional assets and systems over time.



WHAT ASSET VISION DELIVERED

- AI-powered inspections with AutoPilot
- Offline mobile inspections for remote operations
- Centralised asset register with linear referencing
- Integrated maintenance and work management
- Real-time reporting and data services
- Scalable platform supporting additional asset classes

BUILT FOR CRITICAL INFRASTRUCTURE UNDER PRESSURE

For Mineral Resources, Asset Vision provides a more connected and reliable way to manage critical infrastructure under pressure.

By bringing together inspections, maintenance and data into a single platform, the team can make faster decisions, improve safety outcomes and keep the Onslow Iron Haul Road performing at its best.

ABOUT ASSET VISION

Asset Vision is an Australian enterprise asset management provider, delivering cloud-native solutions trusted by transport authorities, utilities, and private operators worldwide. Its platform unifies inspections, maintenance, compliance, and AI-driven analytics to deliver clarity, transparency, and control across asset lifecycles.