



# MINING

## CAPABILITIES STATEMENT

Mining projects are unique, with a finite life and inherent uncertainty and risk across multiple operational & technical areas. Understanding the need for, and how to sustain an effective, safe and reliable surface transport network throughout each delivery phase can be extremely challenging.

For almost 60 years, ARRB has been at the forefront of research and knowledge in road infrastructure design and safety, traffic and network management, road construction and maintenance. We work across public and private sector networks, sealed (bituminous and concrete) and unsealed (soil and gravel) roads and all road users and vehicle types used within mining. This makes ARRB ideal partners in the mining sector, providing customised solutions to current and emerging challenges whilst delivering knowledge transfer opportunities.

### COMMERCIALLY COMPETITIVE

Tailored to our client's needs.

- Road safety audits
- Incident investigation and reconstruction
- Traffic design / Traffic management
- Intersection design
- Haul road design
- Risk assessments
- Strategy, policy and practice reviews
- Heavy vehicle / Light vehicle safety
- Fatigue management
- Road asset management
- Maintenance manuals
- Rail access roads and level crossings
- Public road / Private road interface
- Knowledge transfer - workshops

## SAFETY

ARRB can assist to identify, manage and mitigate the risk of injury and property damage on your mine haul and access road networks through the application of best practice road safety engineering and traffic management principles. We can work with you in developing strategy, policy and standards in addition to undertaking practical network reviews and formal road safety audits.

Through ARRB's experience in the design, management and maintenance of haul roads and associated facilities we can greatly improve safety outcomes for all road users (including pedestrians) and vehicle types including interactions at intersections and facility entry / exit points. Applying a systems approach to road safety, our expertise extends beyond consideration of safer road infrastructure solutions; it includes safer road user behaviour, fatigue management, and guidance on safer vehicles aspects of mine operations.

## INCIDENT INVESTIGATIONS

ARRB offers world class independent investigation services and can assist on your site, access road or off-site involving mine personnel and contractors with any land transport related incident that may occur throughout Australia and internationally.



Our specialist team can investigate, reconstruct and visualise vehicle and pedestrian collisions and incidents, and we are experienced independent expert witnesses in matters that may lead to formal proceedings.

## RAIL

Working with the mine rail infrastructure teams, we have developed a modified ALCAM model to assess risk at the road/rail interface of level crossings. This, along with our knowledge and experience of road safety reviews of rail access roads and facilities makes ARRB unique in this field.

## ROAD CONSTRUCTION & MAINTENANCE

Mine haul road infrastructure is a core asset that supports a safe and productive mine operation. For almost 60 years ARRB has worked with Australian road managers to develop world best practice road construction and maintenance for Australia's vast road network.

This unequaled experience can assist the mining industry gain significant operational and safety efficiencies on haul roads through the application of appropriate geometric design standards, road drainage systems and the preparation of pavement design to ensure roads are operational for longer periods.

ARRB can also assist in the development and establishment of a fit for purpose road asset maintenance regime to support investment in operational infrastructure.

## KNOWLEDGE TRANSFER

With a wealth of knowledge at our fingertips, ARRB's Knowledge Transfer and Learning programs continue to share research of the latest in road management best practice with mining, local government, and the transport infrastructure sectors. These workshops provide face-to-face learning opportunities for your personnel from our experts and the webinar program continues to offer cost savings and convenient solutions to our clients, reaching practitioners in more remote areas of Australia who cannot attend face-to-face events.



## CONTACT

Email at [mining@arrb.com.au](mailto:mining@arrb.com.au) or visit [arrb.com.au](http://arrb.com.au) for more information.

### About ARRB

Australian Road Research Board (ARRB) provides research, consulting and information services to the road and transport industry. ARRB is the source of independent expert transport knowledge, advising key decision makers on our nation's most important challenges.

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