

Road safety at ARRB

About ARRB:

ARRB Group Ltd (ARRB) provides research, consulting and information services to the road and transport industry. ARRB applies research outcomes to develop equipment that collects road and traffic information and software that assists with decision making across road networks. ARRB is the leading provider of road research and best practice workshops in Australia.

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Road safety at ARRB

providing research and advice towards a safer road system

ARRB is a recognised leader in developing the Safe System vision for road transport. ARRB works together with road authorities to implement the vision's aim of no death and serious injury on Australian and New Zealand road networks.

The ARRB Safe Systems team has experience in most road safety areas including:

- policy and strategy development
- road design and traffic engineering
- road user behaviour and education
- enforcement
- fatigue monitoring and management
- vulnerable road users
- vehicle safety
- heavy vehicles including vehicle dynamics
- collision and incident investigation.

Road design and traffic engineering

Well-researched design guidelines, monitoring of road crashes, timely problem identification, and implementation of remedial treatments and evaluation of countermeasures are all critical to the safety of the road network.

ARRB's expertise in road design and traffic engineering includes:

- development of road safety strategy and action plans
- speed limits and speed management
- blackspot, mass action and proactive programs
- road safety audit procedures, training and implementation
- accident analysis and countermeasure development
- roadside hazard management
- safety for pedestrians, cyclists and motorcyclists
- human factors in road design and traffic management
- investigation of road design practices
- development of road design and traffic management guidelines
- evaluation of remedial treatments and effectiveness of traffic control devices
- economic evaluation of road safety treatments and programs
- Intelligent Transport Systems (ITS) and road safety
- railway level crossings.

In addition, ARRB has developed a range of software tools to assist road safety practitioners. These tools can help you to set speed limits, conduct road safety audits, prioritise safety treatments and assess options for reducing crash risk.



Road user behaviour

ARRB assists governments and business to identify and understand road user behaviour issues that impact on transport efficiency and contribute to crashes. It develops programs to educate, encourage, enforce or regulate safer behaviour. ARRB also evaluates program implementation and outcomes.

The Safe Systems team has conducted successful projects in areas including:

- the 'big 4' behavioural issues - speed, alcohol, fatigue and restraint use
- young driver issues, risk-taking, experience, skill deficits
- novice driver training and licence test development
- pedestrian and cyclist safety
- enforcement strategies
- community road safety
- road safety education
- inter-agency coordination.

Vehicle safety

ARRB can assist in the independent assessment of vehicle innovations ranging from changes in vehicle structure to ITS applications. Each type of vehicle from bicycles through to multi-articulated trucks has its own set of safety issues.

The ARRB heavy vehicle team provides independent specialist advice on the development, assessment and compliance of existing or concept vehicles with heavy vehicle regulations and standards.

The heavy vehicle safety services include:

- performance assessment of innovative vehicles under Performance Based Standards (PBS) using physical testing and/or computer modelling
- crash investigation and reconstruction
- advice to the transport industry and government agencies on safety and productivity issues
- in-vehicle performance measurement such as roll-over stability and dynamic axle loads
- in-service risk analysis
- advice on road-friendliness issues and compliance with regulations.

Investigations and strategic reviews

Our specialist team can investigate and visualise vehicle and pedestrian collisions and incidents including:

- collision scene response
- incident investigation, reconstruction and visualisation
- crash event simulations
- chronology, causation and liability
- human tolerance to injury (biomechanics)
- occupant protection (e.g. seat belts, airbags, helmets)
- highway design, provision and maintenance
- road user and road environment interaction
- vehicle stability and performance
- road user performance against standards and guidelines.



International capabilities

ARRB Group has established an outstanding overseas track record in the delivery of road safety-related projects. ARRB has a team of experienced professionals focussing on international projects. It also calls on the expertise of its Australian staff across all areas of transport research, data collection, high-tech equipment and consulting to ensure the best team for any project.

This commitment has resulted in ARRB becoming a well-known provider of professional services undertaken through the Global Road Safety Partnership, International Road Federation, OECD and the Global Transport Knowledge Partnership. Some examples of the recent international projects road safety ARRB has contributed to include:

- State road safety public education project, Kerala, India
- Development of school-based road safety program, Thailand
- Study on development of railway crossing safety plan, Thailand
- Road safety review and strategy, China
- Speed limit setting software, United States of America, New Zealand.
- International Road Assessment Program (iRap) Vietnam
- Dubai road safety audit, United Arab Emirates
- Abu Dhabi street addressing system user guide and signs manual, United Arab Emirates
- Management capacity assessment for road safety, Yemen.

ARRB staff have contributed to a number of global road safety best practice guidance documents, including the UN guides to drinking and driving issue management and on speed management.

