

# Economic analysis





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Economic analysis is instrumental in allocating society's scarce resources to gain maximum benefit. The overall aim of transport economics at ARRB is to address key economic issues relating to infrastructure investment, operational efficiency and social equity in the transport sector.

Our clients make critical decisions on road transport investments or projects to efficiently allocate scarce resources, capital, and finances to meet their target objectives. ARRB has an in-house team with a wealth of expertise in economic analysis to assist our Australian and international clients.

## Capabilities and services

Our expertise lies in research and consulting in:

- Economic impact analysis
- Project evaluation
- Cost-benefit analysis
- Econometrics
- Statistical analysis
- Business case development
- Land use and transport planning
- Economic profiles
- Environmental economics
- Policy impact assessment
- Risk analysis
- Inter-modal competition
- Local and regional economic development strategies
- Freight demand modelling and forecasting
- Employment strategies
- Urban economics
- Transport policy analysis
- Demand analysis and forecasting
- Road pricing principles and analysis.

## Our clients

Our clients include Austroads, state and territory governments, Commonwealth and local government and the private sector. We provide a range of business services and integrated solutions tailored to meet client needs.



**Meeting client needs**

## Integrated solutions

ARRB prides itself on an integrated service comprising economists, civil and mechanical engineers, planners, scientists and other transport professionals. Our range of skills and expertise enables us to provide an integrated approach to addressing transport issues encountered by transport decision makers and practitioners.



**Providing solutions**

## making best use of the transport network

### Recent project highlights

- Review of methodologies for calculating road user effects for transport projects (travel time, vehicle operating costs, crash costs and externalities)
- Review of developments in road pricing: international experience and key issues in application to Australasia
- Advice on road pricing mechanisms, technology and case studies, and assessing impacts of road pricing on future road use and network wide traffic flow patterns
- Accelerated road rehabilitation program: an alternative concept for investing in road and bridge rehabilitation and maintenance
- Methodologies for targeting investments in transport
- Assessment of crash cost savings in project evaluation
- International comparisons of cost of wire rope safety barriers
- Economy-wide and employment impacts of road investment
- Review of funding agreements and revenue forecasts
- Austroads Guide to Road Transport Planning
- Austroads guidelines for environmental reporting
- Project cost estimation and procedures and risk analysis
- A framework for assessing the impact of climate change on road networks
- Defining transport congestion for the Victorian Competition and Efficiency Commission (VCEC) Inquiry into congestion in Victoria.



### Key publications

- Guide to Project Evaluation (eight parts)
- Valuation of travel time savings for freight
- Triple bottom line evaluation of transport proposals
- Roads and road transport in the logistics chain
- Planning for freight in urban areas
- The outlook for road related revenues and road transport demand
- An accelerated approach to funding road rehabilitation
- Light freight transport in urban areas
- Road pricing options for addressing congestion: lessons and possibilities for Australia
- Valuing environmental and other externalities
- Framework for addressing climate change impacts on road infrastructure assets and operations
- Road transport planning in Australia: current practice versus best practice.



## 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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