

Traffic and Transport Planning



Our team develops sustainable transport solutions for the community and finds traffic engineering solutions to satisfy individual client needs.

Traffic planning and development decisions cannot be made lightly. Socially and economically, transport systems and traffic management plans – whether at a national, state or local level – have a direct effect on communities' wellbeing.

Cardno's recommendations are based on practical experience, innovation and a comprehensive knowledge of current trends and legislation. Our reputation is built on providing well considered advice based on a high standard of technical assessment.

Unsatisfactory decisions can leave long and expensive legacies. With our assistance, clients see the big picture prior to making significant infrastructure commitments.

As planners, designers, engineers and analysts, we offer experience in all areas of traffic engineering and transport planning. Our teams consider the views, needs and impacts of transport plans on all members of the community. We aim to achieve optimum mobility for all members of society.

Working with local councils, state and federal government authorities, Cardno helps clients deliver safer transport systems. We work collaboratively with all stakeholders, from local residents to government representatives. Our goal is to achieve the right balance.

Transport planning and modelling

- ▶ Transport systems planning
- ▶ Regional planning
- ▶ Corridor and network planning
- ▶ Local area network planning
- ▶ Integrated and public transport planning
- ▶ Road hierarchy study

- ▶ Transport policies
- ▶ Intelligent transport systems
- ▶ Structure plans and development
- ▶ Contribution plans

Carpark design

- ▶ Complete site layout and masterplanning
- ▶ Access control analysis and design
- ▶ Feasibility and due diligence studies
- ▶ Commercial vehicle access/loading facilities

Mobility and integrated planning

- ▶ Integrated local transport plans/local area plans
- ▶ Cycle planning and design
- ▶ Major event/project consultation
- ▶ Movement system planning
- ▶ Pedestrian planning and design
- ▶ Travel demand management change planning

Traffic engineering

- ▶ Street lighting design
- ▶ Road networks and intersection design
- ▶ Traffic operations
- ▶ Development impact assessment
- ▶ Road safety audit and speed limit review
- ▶ Development planning and design
- ▶ Traffic management schemes
- ▶ Traffic signals design and operation

Crash assessments

- ▶ Accident reconstruction and crash investigation
- ▶ Crash rate analysis
- ▶ Road safety audit



Wollongong City Centre Revitalisation Strategy

Wollongong, New South Wales

Cardno was commissioned by Wollongong City Council with the aim of revitalising the city centre through:

- ▶ Access and movement strategies involving strategic transport planning, and detailed transport analysis
- ▶ Transport planning principles and policies as well as structure plans for each mode of transport
- ▶ Land use planning, pedestrian, cycle, traffic management, carparking and public transport structure plans
- ▶ Public transport structure planning detailing bus routing and bus/rail interchange concepts
- ▶ Consultation with stakeholders and government agencies.

Gateway Motorway Second River Crossing Planning Study

Brisbane, Queensland

Cardno was part of a team investigating a second Gateway Bridge over the Brisbane River and upgrading key sections of the Gateway Arterial Road for the Queensland Department of Main Roads. As part of the three-part EIS, the team:

- ▶ Determined the need for a second crossing and motorway upgrade
- ▶ Identified a route for the crossing/approaches and cost effective solutions to widen carriageways
- ▶ Considered social, environmental, economic and planning issues.

Hervey Bay Walk and Cycle Plan

Hervey Bay, Queensland

The Living Streets Strategy for the Hervey Bay City Council is a non-traditional approach to a walk and cycle plan. The strategy aims for social, vibrant and safe streets and parks. Cardno:

- ▶ Integrated elements of planning, urban design, safety, infrastructure and community targeting pedestrians and cyclists
- ▶ Developed network plans with a works program and supporting strategies
- ▶ Implemented supporting policies to include education and encouragement, and integrated support facilities within the planning process.

Chadstone Shopping Centre

Chadstone, Victoria

Chadstone Shopping Centre is the largest shopping centre carpark in Australia with over 8,000 carparking spaces. Cardno has been heavily involved in the development of Chadstone Shopping Centre from its beginnings and has assisted in:

- ▶ Introducing the current internal network of parking and roads
- ▶ Detailed traffic access investigations and analysis, including microsimulation analysis
- ▶ Parking layout, circulation and network design
- ▶ Loading access and operation design and assessment
- ▶ Pedestrian movement and route design
- ▶ Signage and line marking design.

Orbital SmartBus

Melbourne, Victoria

Cardno has an ongoing involvement with VicRoads and the Department of Infrastructure in the development of Orbital Bus Routes in metropolitan Melbourne. The Orbital Routes (Red, Green, Yellow and Blue) will involve a series of connected SmartBus services, providing connections between the existing radial train and tram networks. The SmartBus routes combine detailed passenger information, with on-road priority treatments. Cardno's involvement includes:

- ▶ Road safety audit, collection of traffic data, review of population trends, transport modelling, analysis of crash records and road inventory data
- ▶ Issues workshops with community representatives and stakeholders
- ▶ Developing costings for 100 plus potential projects.

As planners, designers, engineers and analysts, Cardno offers experience in all areas of traffic engineering and transport planning.

Cardno provides insight into issues relating to the provision of road infrastructure within an increasingly complex environment. Cardno understands the growth challenges in South East Queensland and the need for balance between different transport modes. Their dedication to technical excellence is evident in the quality of their work combined with an understanding of client requirements. Cardno's leadership team is accessible and actively seeks to build positive relationships across all areas of government.

**Tom Baskerville –
Director (Strategy & Relationships)
Department of Main Roads (Queensland)**

About Cardno

Cardno is an integrated professional services provider, delivering specialist advice to create or improve the physical and social infrastructure that underpins communities around the world. Our team is comprised of leading advisors who plan, design, manage and deliver sustainable projects and programs.

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