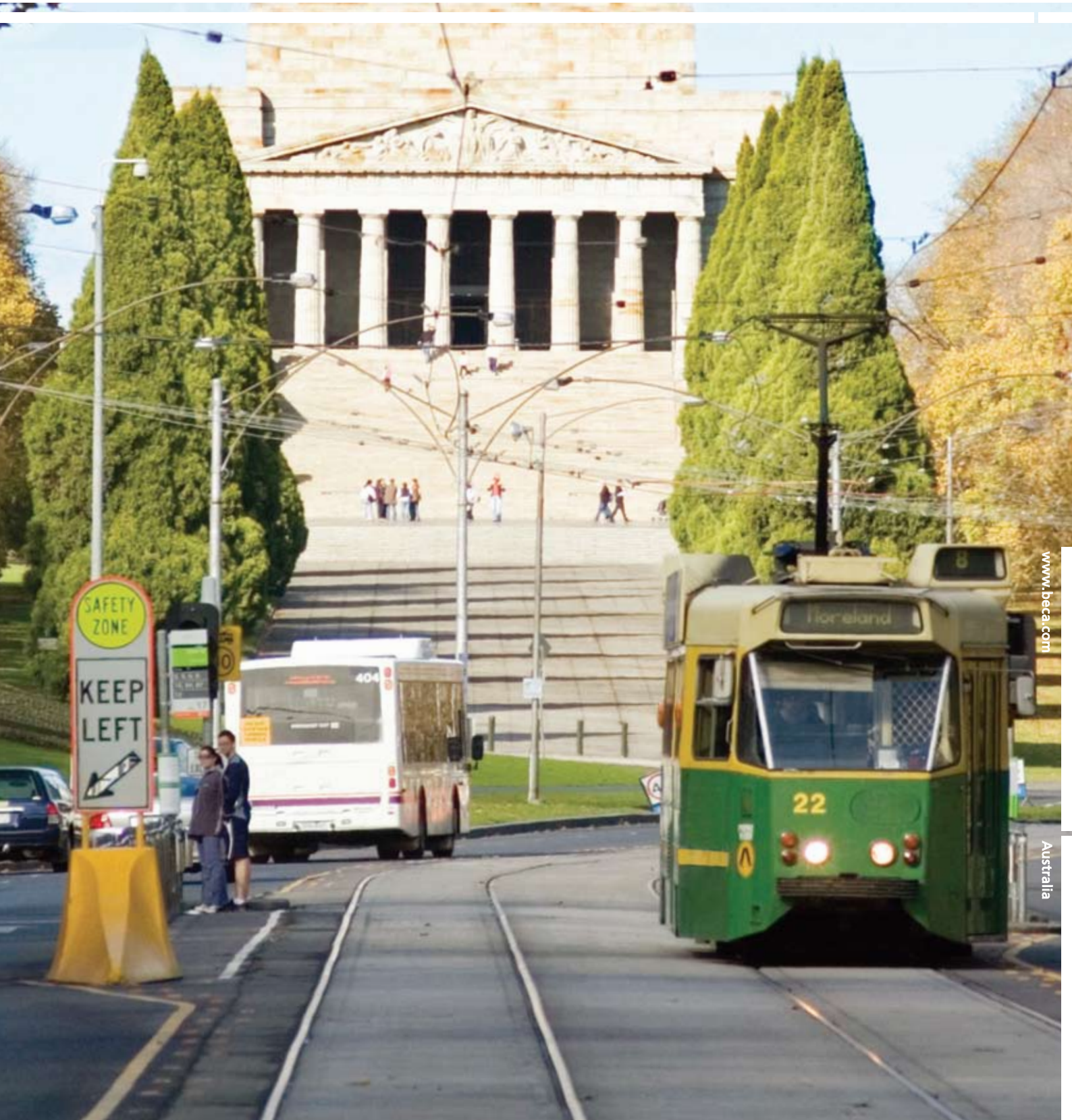


Transport Planning





Transport planning seeks to integrate the principles of strategic transport engineering and traffic management land use planning. Development often creates a variety of reasons to travel. Transport infrastructure and services can influence the type and location of land uses; and hence peoples travel options and behaviour.

Transport Planning

Integrated transport planning assists in developing and managing the transport network alongside local roads and other transport modes to facilitate general economic development and accommodate planned growth. Major growth without infrastructure investment often results in road networks becoming overloaded with traffic. This impacts heavily on road users and on the environmental, social and economic wellbeing of the surrounding communities and also has negative consequences for the environment in general.

Transport planning seeks to optimise the efficiency of transport users, ensuring sufficient consideration and space for all users of the transport network. An over-arching focus on road safety is critical in accommodating all transport users and influencing their choice of travel.

Careful consideration must be given to managing the need to travel in the first instance; and influencing peoples travel choices by integrating sustainable land use planning and transportation decisions.

Our Capabilities

Beca's Transport Planning team has a breadth of international, national and local experience in investigating and assessing the complex issues that contribute to a break down in efficient transport networks. They are particularly skilled in the areas of network/congestion management, multi modal transport planning, integrated land use and transport planning, environmental and social effects assessment, and road user safety.

The team can offer innovative and practical network and infrastructure solutions to suit client requirements, for development and consultation with key stakeholders and communities.

Services

- New route planning, option evaluation/assessment, economic analysis and feasibility studies
- Integrated Transport Assessments, Traffic Impact Assessments and transport strategies
- Travel Demand Management and Travel Planning
- Multi modal corridor studies and investigations, congestion management and evaluation
- Integrated land use and transport planning investigations
- Active transport initiatives
- Public Transport analysis and strategies
- Pedestrian, cycling, vulnerable users strategies and Transit-Oriented-Design
- Parking Management and design
- Geospatial Digital Mapping
- Traffic and transport modeling

Beca uses aaSIDRA, AIMSUM, EMME/2, SATURN, TRARR, TRANSYT, TRIPS, PARAMICS and VISSIM transport modeling software.



Travel Demand Management and Travel Planning

Beca has local and international experience in Travel Demand Management (TDM); particularly in applying and reviewing TDM principles for government agencies, integrating TDM initiatives with urban design principles in structure planning and auditing of TDM policies and strategies.

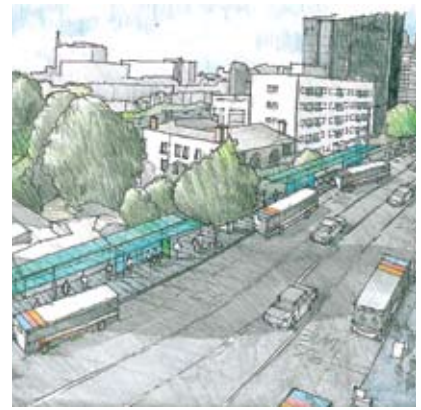
Projects: Bay of Plenty Travel Demand Management Strategy (NZ), Waitakere City Council transit-oriented-design (NZ)



Corridor Studies and Option Evaluation

Beca's Transport Planning team investigates new urban and rural corridors and re-alignment options for identifying and overcoming existing route deficiencies. This includes reviewing the network's function, performance, existing deficiencies, strategic and economic feasibility and assessment of social and environmental effects of alternative options.

Projects: St Albans Bypass (VIC), Waterview Connection (NZ)



Integrated Land Use and Transportation

Beca's experience includes strategic network review and implementation of integrated planning policy, applying roading hierarchy and access management principles and assessing adjacent land use for compatibility with transport networks.

Projects: Melbourne Airport Master Plan (VIC), Hope Island Local Area Planning (QLD)



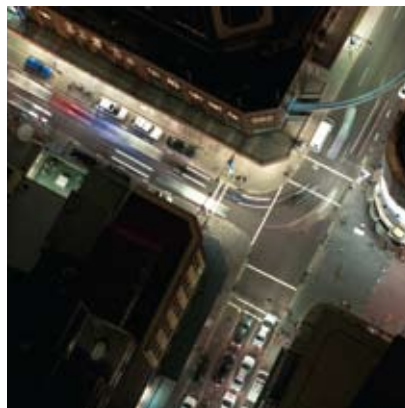
Active Transport Initiatives

Beca's experience in this area includes developing pedestrian and cycling network strategies and public health and safety planning initiatives based on the principles of:

- Healthy By Design®
- Crime Prevention Through Environmental Design (CPTED)
- Supportive Environments for Physical Activity (SEPA)

We focus on integrating policy and procedures into local government documents and work places and are also experienced in multi-modal integration and transit-oriented-design initiatives.

Projects: National Heart Foundation (VIC), Sport and Recreation – Dept of Planning and Community Development (VIC)



Integrated Transport Assessments, Traffic Impact Assessments and Transport Strategies

Beca's Transport Planning team has extensive experience in assessing constraints and opportunities for transport movements and in analysing land use patterns for environmental and social effects. They can review TIAs, identifying localised and wider network transport effects of land use developments as well as analyse and prepare TIA's for new and existing developments. Using the latest technology, the team can also assess traffic generation against existing network models and do network and intersection modelling, and traffic simulation analysis.

Projects: La Trobe Freight and Logistics Precinct (VIC), Parmalat Bendigo (VIC)



Multi modal corridor studies and investigations

Beca has local and international experience in multi-modal corridor investigations and congestion management, particularly:

- Network management and planning
- Planning and co-ordination of works on congested networks to minimise impacts.
- Strategic traffic management, including signal strategies to manage congestion
- Multi modal hierarchy and priority initiatives
- Public transport priority initiatives
- Pedestrian and cycling priority strategies
- Intelligent Transport Systems

Projects: North Shore Bus Way (NZ), SmartBus (VIC), ThinkTram (VIC)

About Beca

The Beca group is a leading international engineering and related consultancy services organisation, specialising in the design and management of projects.

Our employees number over 2,500, working on international projects out of 19 offices throughout the world. Our main hubs are in Australia, New Zealand and Singapore, supported by associated and affiliated offices in the UK, USA, Asia, the Middle East, the Pacific Islands and South America.

Beca in Australia

Beca has been in Australia since 1968. We now have 350+ employees delivering services to markets including;

Airports Buildings - Chemicals - Defence - Food & Beverage - Distribution - Forest Industries - Government - Land Development - Mining & Metals - Oil & Gas - Ports & Marine - Power Generation - Power Transmission & Distribution - Retail - Roads & Transportation - Water & Wastes

Whilst our staff have extensive local knowledge, our Australian clients can also benefit from the capabilities and experience of the broader Beca group.

We offer a total project management solution for the roads and transportation sector; from project development through to project delivery.



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