



Land Transport NZ  
Ikiiki Whenua Aotearoa

# The Australian Bicycle Council: - A Trans-Tasman link supporting cycling

Tim Hughes

NZ cycling conference, 2007 Napier

My favourite  
sustainable  
transport  
mode



# Guidelines

## Published

- Cycle Network & Route Planning Guide
- RTS 14 – blind and vision impaired pedestrians

## Imminent

- Pedestrian Planning & Design Guide
- Pedestrian crossing selection calculation tool
- Non-Motorised User Review

# Tools

## Published

- Walking LOS user perceptions

Community Street Review procedures now  
on [www.levelofservice.com](http://www.levelofservice.com)

## Ongoing research

- Cycling Level of Service assessment and prediction
- Walking LOS prediction
- Neighbourhood accessibility assessment

# Australian Bicycle Council

Thanks to RCA forum and Transit NZ for past support

- **Roles of the ABC:**
- 1. Coordinate and implement the Australian Cycling Strategy,  
provide a forum for stakeholders  
and provide information and resources on  
providing for and promoting cycling.
- 2. Advisor to Austroads on cycling matters,  
including Austroads research and  
the development of Austroads publications.

# Completed Projects

(available on the ABC website:

[www.austroads.com.au/abc](http://www.austroads.com.au/abc)

## **Whole of Life Costing of Shared Paths**

- Choice of materials, design and construction of shared paths.

## **Pedestrian-Cyclist Conflict Minimisation on Shared Paths**

- Eleven information sheets provide a unique resource.

## **Bus-Bike Interaction within the Road Network**

- Includes bus lane issues.

## **Bikeability Checklist for Local Government**

- 158 questions to assess all aspects of activity for cycling. This is being utilised in the NZ benchmarking project

# Current projects

## **Cycling Information Website:**

- A one stop shop cycling resources web-site for RCA practitioners expected to go live in November. This project supports the NZ Getting There Information Centre project.

## **Australian Local Government survey.**

- A web based survey of all Australian Local Councils has just been completed. The results will contribute to the walking and cycling benchmarking projects.

## **New Austroads Guides**

- GTEP Part 14 Bicycles is being mainstreamed into the new Road Design and Traffic Management series.

ABC ensures, advice is up to date, good practice and NZ relevant.

# NZ led projects

## **Benchmarking of RCA provision for walking and cycling**

- ABC wish to be involved so that NZ and Australian towns and cities can benchmark to a common basis.

## **Research**

- A NZ led project researching safety and convenience of intersection treatments for cyclists is now on the Austroads research list for 08/09.

## **Cyclist Training /standards**

- new national standard cycle training.

## **Bicycle Level of Service assessment and prediction models.**



# Pedestrian-Cyclist Conflict Minimisation on Shared Paths and Footpaths:

Austroroads Project : NS1018

An Overview

## Background

- Safe paths and footpaths are critical components of the transport network
- Increased activity on many shared paths and footpaths
- Conflict concerns

# Conflict Issues

- Undesirable path user behaviour
- Poor path planning and design
- Poor path maintenance



## Managing Conflict

- No silver bullet
- An introduction to the 'Toolkit'
- Information notes – what are they?



## ***Pedestrian-Cyclist Conflict Minimisation on Shared Paths and Footpaths***

Final Report

Presentation

- overview

Information bulletins:

Contents

- 1 - Is the path the problem?
- 2 - Integrated policy
- 3 - Urban design
- 4 - Infrastructure planning
- 5 - Infrastructure design
- 6 - Infrastructure construction
- 7 - Information
- 8 - Education and awareness
- 9 - Regulation and enforcement
- 10 - Travel behaviour change
- 11 - Resource toolbox

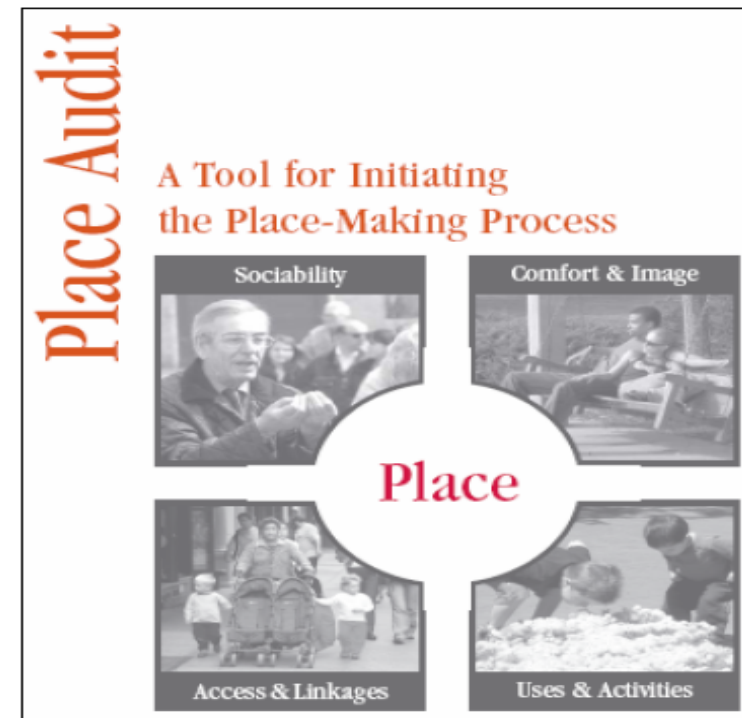
## Information Notes

- Note 1 – Is the path a problem?
- Note 2 – Integrated policy, strategy and planning



# Information Notes

- Note 3 – Urban design and place making
- Note 4 – Infrastructure planning



## Information Notes

- Note 5 – Infrastructure design
- Note 6 – Infrastructure construction & maintenance





## Information Notes

- Note 7 – Information
- Note 8 – Education & Awareness



## Information Notes

- Note 9 – Regulation & Enforcement
- Note 10 – Travel Behaviour Change



## Information Notes

- Note 11 – Resources



\* note references

\* additional information  
sources

# Cycling Resource Centre

an Initiative of the Australian National Cycling Strategy 2005-2010



About

Engineering  
& Planning

Education  
& Training

Encouragement  
& Promotion

Enforcement  
& Road Safety

Recreation

Funding

Research



## SEARCH

GO

Use the Search tool to locate any cycling information on our site

## Welcome

The Cycling Resource Centre is maintained by the [Australian Bicycle Council \(ABC\)](#) in implementing the Australian National Cycling Strategy 2005 – 2010 (NCS). The Centre is a repository for data, information and best practice relating to cycling planning, policy, programs and projects.

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SUBMIT

Website funded by Department of Transport and Regional Services and supported by Austroads



# Engineering & Planning



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## Bicycle network planning

The development of a bicycle friendly environment requires the provision of a well planned, integrated network of bicycle routes. The linking of bicycle lanes (on road) and paths (off road) with residential areas, shops, schools workplaces and recreational reserves will improve the useability of the bicycle network.

The following documents are intended to assist practitioners develop a practical, attractive and safe bicycle network:

### Australia:

- \* Ker, I., Huband, A., Veith, G., Taylor, J., 2006, Pedestrian-cyclist conflict minimisation on shared paths and footpaths, Research Report, Austroads, Sydney.  
[View PDF](#) 
- This report investigates actual and potential conflict between cyclists and pedestrians. It outlines best practice solutions to minimise the potential for conflict between these modes of travel. These solutions cover engineering, traffic management and urban design concepts, as well as education and awareness strategies.
- \* Australian Bicycle Council, 2006, Introductory Notes: Pedestrian-cyclist conflict minimisation on paths, Austroads, Sydney.  
[View PDF](#) 
- This document presents a condensed summary of the report by Ker et al (2006) titled Pedestrian-cyclist conflict minimisation on shared paths and footpaths.
- \* Australian Bicycle Council, 2006, Introductory Notes 1: Pedestrian-cyclist conflict minimisation on paths, Austroads, Sydney.  
[View PDF](#) 
- This paper offers a short, practical guide to determine whether conflict is likely to arise from path design. It outlines suggested design features aimed at reducing conflict for particular types of shared paths.
- \* Australian Bicycle Council, 2006, Introductory Notes 2: Pedestrian-cyclist conflict minimisation on paths, Austroads, Sydney.  
[View PDF](#) 
- This short document outlines the importance of integrated planning in the development of shared paths.



Studies, Monash University, Melbourne. Presentation at Connecting Cycling, Canberra, 20-21 November.

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This presentation explores the balance between travel behaviour change program such as TravelSmart, with other methods of encouragement, such as bicycle infrastructure improvements.

#### International:

- Land Transport Safety Authority, 2004, Cycle network and route planning guide, New Zealand Government, Christchurch.

[View PDF](#) 

This comprehensive guidebook aims to promote a consistent approach to planning for cycling in New Zealand – although it has widely applicable recommendations. This guide is intended to assist planners and other professionals improve bicycle friendly design and amenity.

- Campbell, D., Jurisich, I., Dunn, R., 2006, Improved multi-lane roundabout design for cyclists, Research Report 287, Land Transport New Zealand, Wellington.

[View PDF](#) 

This report highlights safety concerns for cyclists at multi-lane roundabouts and develops recommendations to improve their safety performance.

- Walton, D., Dravitzki, V.K., Cleland, B.S., Thomas, J. A., Jackett, R., 2005, Balancing the needs of cyclists and motorists, Research Report No. 273, Land Transport New Zealand, Wellington.


[View PDF](#) 

This report highlights common points of conflict between the needs of cyclists and motorists. It provides recommendations on road designs to minimise these points of conflict by offering a balance between the needs of both road users.

- Litman, T., Blair, R., Demopoulos, B., Eddy, N., Fritzel, A., Laidlaw, D., Maddox, H., Forster, K., 2002, Pedestrian and bicycle planning: A guide to best practice, Victoria Transport Policy Institute, Victoria, Canada.

A thorough guide to best practice pedestrian and bicycle planning. This is an excellent resource for anyone wishing to achieve better planning outcomes for pedestrians and cyclists. An extensive list of references allows for convenient research opportunities.

- Pedestrian and Bicycle Information Centre, website, Bikeability checklist

[View PDF](#) 

A practical guide designed to evaluate the bicycle friendliness of particular localities. Although it was developed in the United States, the majority of the content is relevant to the Australian context.

- League of American Bicyclists, 2006, Bicycle Friendly Communities: Enhancing Cities Through Cycling.

[Visit Site](#) 

Presents case studies of the top performing US cities, in terms of bicycle friendliness. Highlights the wide range of initiatives possible to improve conditions for cyclists and thereby enhance the liveability of urban

# Engineering & Planning



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## Bicycle strategies & plans


Bicycle plans are an increasingly common method for government authorities to outline their strategy for accommodating and encouraging bicycle use. These planning documents offer the strategic framework to implement bicycle initiatives in a manner consistent with the organisational requirements and objectives of the relevant agency.

The following documents are offered to assist practitioners in the development, review and implementation of bicycle strategies and plans:

### Australia:

- \* [Austroads, The National Cycling Strategy, 2005 – 2010, Austroads, Australian Government.](#)  
[View PDF](#)   
The Australian National Cycling Strategy is the commitment of all Australian governments to increasing the national level of cycling.
- \* [Bicycle Federation of Australia, 2006, Bikeability Toolkit, Australian Greenhouse Office, Australian Government, Canberra.](#)  
[Visit Site](#)   
The Bikeability Toolkit provides a practical checklist and relevant resources to assist local and state governments, as well as developers and community groups to improve the physical and social conditions for cycling.
- \* [Rissel, C., Garrard, J., 2006, Cycling for active transport and recreation in Australia: Status review and future directions, World Transport Policy and Practice, Vol. 13, p. 49 – 63.](#)  
[View PDF](#)   
This paper reviews the position of the bicycle in Australia, as a form of transport and recreation. The paper identifies the various influences on people's decision to ride and highlights gender differences in participation and requirements. It is a helpful tool for planners to better understand how to encourage greater cycling participation in Australia.

### New South Wales:

- \* [Department of Planning, 2004, Planning guidelines for walking and cycling, Department of Planning, NSW Government, Sydney.](#)  
[View PDF](#) 

This webpage is presented as a toolbox for local government to assist in the development of bicycle friendly local street design.

#### International:

- Ministry of Transport, 2006, Getting there – on foot, by cycle: Strategic Implementation Plan 2006 – 2009, Ministry of Transport, New Zealand.  
[View PDF](#)   
Getting there is a long term planning document that seeks to promote walking and cycling as a form of transport throughout New Zealand.
- Land Transport New Zealand, 2005, Regional Land Transport Guidelines, New Zealand Government, Christchurch.  
[View PDF](#)   
This report provides a comprehensive set of guidelines for those reviewing regional land transport strategies. Although it is written for Land Transport NZ staff, others may find it useful.
- Litman, T., Blair, R., Demopoulos, B., Eddy, N., Fritzel, A., Laidlaw, D., Maddox, H., Forster, K., 2002, Pedestrian and bicycle planning: A guide to best practice, Victoria Transport Policy Institute, Victoria, Canada.  
A thorough guide to best practice pedestrian and bicycle planning. This is an excellent resource for anyone wishing to achieve better planning outcomes for pedestrians and cyclists. An extensive list of references allows for convenient research opportunities.
- Macbeth, A.G., Boulter, R., Ryan, P. S., 2005, New Zealand walking and cycling strategies - best practice, Research Report 274, Land Transport New Zealand, Wellington.  
[View PDF](#)   
This report offers a collection of New Zealand and some international walking and cycling strategies, highlighting examples of best practice. It aims to simplify the task of developing walking and cycling strategies, as well as reviewing existing documents.
- Pedestrian and Bicycle Information Centre, website, Bikeability checklist  
[View PDF](#)   
A practical guide designed to evaluate the bicycle friendliness of particular localities. Although it was developed in the United States, the majority of the content is relevant to the Australian and New Zealand context.
- European Conference of Ministers, 2004, Implementing Sustainable Urban Travel Policies: Moving Ahead, Organisation for Economic Cooperation and Development, Paris.  
[Visit Site](#)   
This paper provides an overview of national level policies aimed at encouraging cycling. It highlights the importance of national level policy commitment concerning cycling, to ensure an appropriate framework is in place for the development of more detailed, localised actions.



# Engineering & Planning



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## Facility design / Engineering

Infrastructure plays a vital role in the encouragement of cycling. The provision and design of bicycles lanes and paths have a significant effect on the safety of cyclists as well as other road users.

The following documents are intended to inform planners and engineers on the necessary design requirements related to bicycle infrastructure and use.

### Australia:

- Austrroads, 1999, Guide to traffic engineering practice part 14: Bicycles, Austrroads, Sydney.

[Visit Site](#)

Part 14 is the principal guide to the design of bicycle infrastructure in Australia.

- Austrroads, 2001, Traffic flow models allowing for pedestrians and cyclists, Austrroads, Sydney.

[Visit Site](#)

This document begins by reviewing the literature on safety and mobility issues for pedestrians and cyclists. An investigation of traffic models is then undertaken, with particular attention given to pedestrians and cyclists.

### New South Wales:

- Roads and Traffic Authority, 2005, NSW Bicycle Guidelines, Government of New South Wales, Sydney.

[View PDF](#)

This document is a detailed design manual covering a wide variety of infrastructure design issues. It is an important document for road designers, engineers and planners involved in the development of bicycle infrastructure.

### Queensland:

- Queensland Transport, Cycle Note series: Technical Information for Cycling, Queensland Government, Brisbane [Visit Site](#)

Relevant cycle notes include:

Land Transport New Zealand, 2006, Programme and funding manual, Third edition, Land Transport New Zealand (Grants program)


[Visit Site](#) 


Financial assistance from Land Transport NZ is available for cycling projects, except for facilities used purely for recreation. The funding categories and rules are contained in the Programme and Funding Manual. A new edition is released each year in about August. The following Work categories are relevant:

- W/C 124 State Highway cycle path maintenance;
- W/C 412 System Use Studies (these include Walking and Cycling Strategies. See also Section 4.34 for specific determinations);
- W/C 432 Community Programmes (these include neighbourhood accessibility studies);
- W/C 452 Cycle Facilities (see Section 4.9 for specific determinations)
- W/C 631 Regional Land Transport Planning (includes Regional walking and cycling strategies).

To develop a funding application, a cost benefit analysis is usually required, so projects can be prioritised. The following manual should be used in calculating the benefit / cost of walking and cycling projects (see Chapter 8):

- Land Transport New Zealand, 2005, Economic evaluation manual: Volume 2, First Edition, ISBN 0-478-28915-4, Wellington

[View PDF](#) 

Word versions of the detailed worksheets for the walking and cycling cost-benefit analysis referenced by Chapter 8 of this manual are found here [Visit Site](#) 

#### **Cycling Initiatives:**

Ministry of Transport (NZ), Research Funding

[Visit Site](#) 

Outlines processes and sources of funding for road safety research in NZ.

Government of New Zealand, Road Safety Trust (NZ) (Grants program)

[Visit Site](#) 

The Road Safety Trust is a Crown Established Trust that receives its funding from a share of the proceeds of personalised licence plate sales. The Trust is empowered to fund community safety initiatives, training, education, overseas travel, attendance at conferences and private sector technological developments beneficial to road safety. The Trust's areas of priority are those contained in the:

- NZ Road Safety to 2010 strategy

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- the New Zealand Transport Strategy insofar as it pertains to road safety

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The End

Questions?

