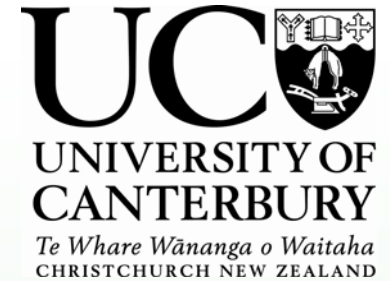


2006 NZ Walking Conference  
Christchurch



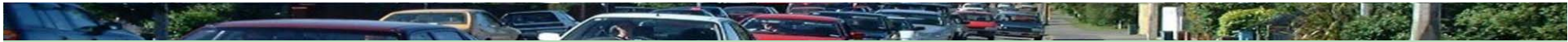
# Introducing Professionals to Planning & Design for Walking

Glen Koorey  
University of Canterbury  
Christchurch

# Presentation Outline

- 
- Pedestrian Planning/Design Training in NZ
    - Historical Situation
    - New Landscape
  - Case Study
    - Cycle/Planning Design in NZ
  - Where to Go from Here
    - Topics to Cover

# Intro – My Training as a Traffic Engineer...



- BE(Civil) 1988-91, Univ. of Canterbury

- Total lectures: ~1150 hrs
- Total on transportation: ~90 hrs
- Total on pedestrians: ~0.5 hr

*No. of times "pedestrians"/"walking" are mentioned in all my notes: **11 times***

- ME(Civil) 1992-93, Univ. of Canterbury

- Total lectures (trptn): ~150 hrs
- Total on pedestrians: ~1 hr + 1 study

*No. of times "pedestrians"/"walking" are mentioned in all my notes: **12 times***

# Industry Training...



- Road Safety Engineering Workshop, 1996
  - 32 hrs of lectures
  - ½ hr on Pedestrian Facilities
- Fundamentals of Traffic Eng Course, 2005
  - 30 hrs of lectures
  - 75 mins on "Buses, Cycles, Pedestrians & Street Lighting"!

*Most ped'n info picked up from research, conferences and plain old experience...*

# Situation to Date



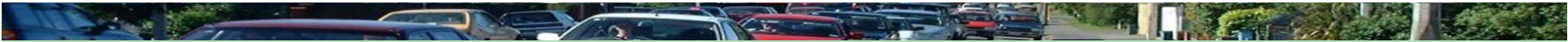
- Historically little planning/design consideration for pedestrians
  - “How hard is it to walk?”
  - “How hard is it to design a footpath?”
- **Everyone** is a pedestrian
  - Pedestrian planning affects everyone
  - BUT no-one (usually) advocates for it
- Previously a lack of professional guidance
  - National standards/guidelines
  - Industry Training & Tertiary Education



# How Hard Can It Be...?



# New Guidance Tools

- 
- Resources/Guides now available
    - Austroads *Guide Part 13: Pedestrians*
    - RTS14: *Guidelines for facilities for blind and vision-impaired pedestrians*
    - LTNZ *Pedestrian Planning and Design Guide*
    - *Non-motorised User Audit and Review (UK)*
  - Being developed here
    - Local authority benchmarking
    - “Walking-friendly” ratings (street reviews)
    - Practitioner “Walkability” tools



# National Walking/Cycling Strategy (Feb 2005)

*“Getting there –  
on foot, by cycle”*

- Supported at Govt by
  - NZ Transport Strategy (2002)
  - Land Transport Managem't Act (2003)
  - Implementation Steering Group (MoT/LTNZ, 2005)



**Getting there —  
on foot, by cycle**

A strategy to advance walking and  
cycling in New Zealand transport

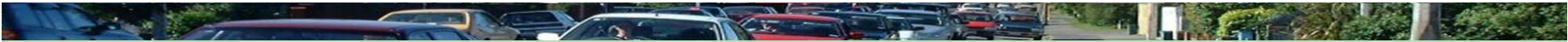
February 2005

ISBN: 0-478-10004-3





# 2006-09 Strategic Implementation Plan

- 
- Ten new initiatives + current activities
    1. Research, monitoring/evaluation action plan
    2. Transport sector alignment review
    3. Decision-maker communication action plan\*
    4. 'Getting There' Information Centre
    5. Workforce development action plan\*\*
    6. Model communities programme
    7. RCA bench-marking Programme
    8. Strengthening user group networks
    9. Long-distance cycling project
    10. Expansion of road user training / education

# How Hard Can It Be...?



# We're "Getting There"...



- 2006 Fundamentals of Traffic Eng Course
  - 90 mins on Pedestrian Facility Design
  - 75 mins on Trpt Sustainability / TDM
- ENTR606: Advanced Traffic Engineering
  - Uni. of Canterbury - Master Eng in Trptn (MET)*
  - 5/36 hrs on Pedestrian Planning/Design
  - Pedestrian/cycle review of road section (20%)
  - More coverage in other MET courses too

*What about dedicated industry training?*

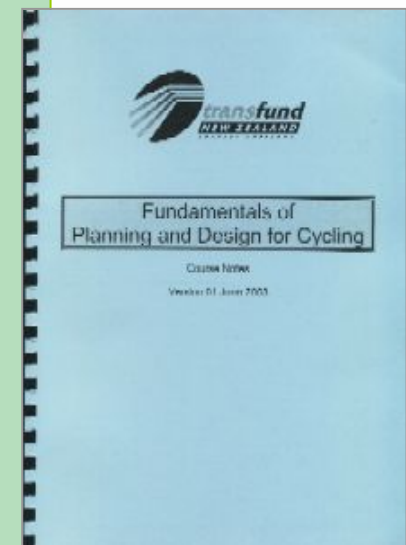
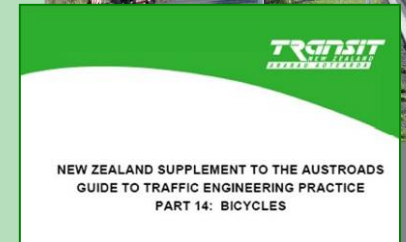


# How Hard Can It Be...?



# Case Study: Cycle Planning/Design in NZ

- Development of Practitioner Tools
  - *Cycle Network & Route Planning Guide (CNRPG) - LTSA*
  - *Cycle Design Supplement - Transit*
  - *Walking/Cycling Strategy Best Practice Guidelines - LTNZ*
- Development of Training Courses
  - *Fundamentals of Planning and Design for Cycling - Transfund*





# “Fundamentals of Cycle Planning/Design” Course



- One-day training course
  - Detailed cycle planning/design
  - Courses managed by BikeNZ
  - Presented by specialists in cycle provision
- For Planners/Engineers/Road Safety staff
  - Over 350 people trained since 2003
  - “Community/Advocate” places also provided
  - Self-funding via course fees

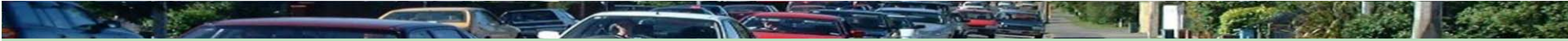


# “Fundamentals of Cycle Planning/Design” Project History



- Work on course proposal started Dec 2000
  - Industry survey, Feb 2001
- Transfund approved funding, Aug 2002
  - Development by consortium of 4 experts
- Pilot training course, Jun 2003
  - Transit/Transfund/LTSA/External Peer Review
- First Industry Courses, Sep 2003
  - 17 courses since in 12 different cities
  - Also part of Akld/Canty Uni. Masters courses

# “Fundamentals of Cycle Planning/Design” Course Structure

- 
- One-day courses
    - 8.30am - 4.30pm
    - Usually two presenters per course
  - Series of Powerpoint Presentations
    - Slide handouts for note taking
    - Some case studies for discussion
  - Course Notes also supplied
    - Intended for in-depth study afterwards
    - Reference resource for attendees

# Auckland, Apr 2006



# Napier, Aug 2006





# “Fundamentals of Cycle Planning/Design” Training Course Outline



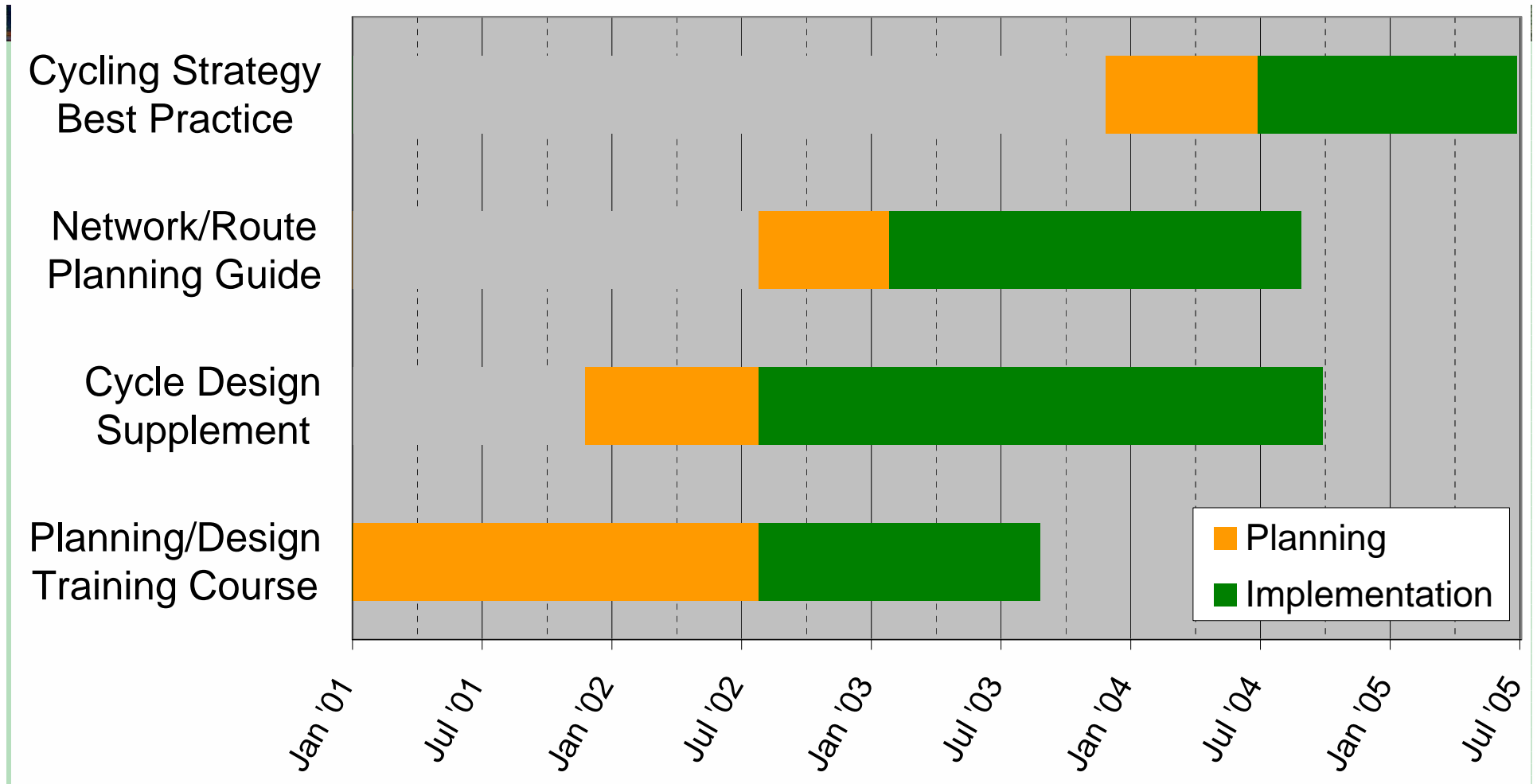
- 1. Introduction**
- 2. Meeting Cyclists' Needs**
  - NZ Context, Cyclist Attributes/Needs
- 3. Planning for Cycling**
  - Routes/Networks, Getting Data, Priorities
- 4. Cycling between Intersections**
  - Cycle Lanes, Paths, Bridges/Tunnels
- 5. Cycling through Intersections**
  - Crossings, Signals, Roundabouts
- 6. Putting it all together**
  - Implementation, Funding, Evaluation
- 7. Brickbats and Bouquets**
  - The Good, the Bad, the “Interesting”...

# And it's a Winner!

- 2004/05 CAN  
Cycle-Friendly Awards
  - Best Cycling Promotion

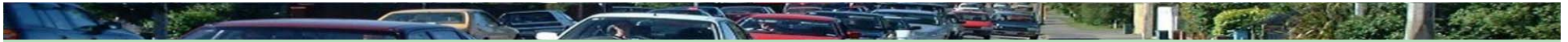


# Timeframe of Cycle Plann'g/Design Initiatives



- Reverse of Ideal Order

# The Cycle Planning/Design “Family”



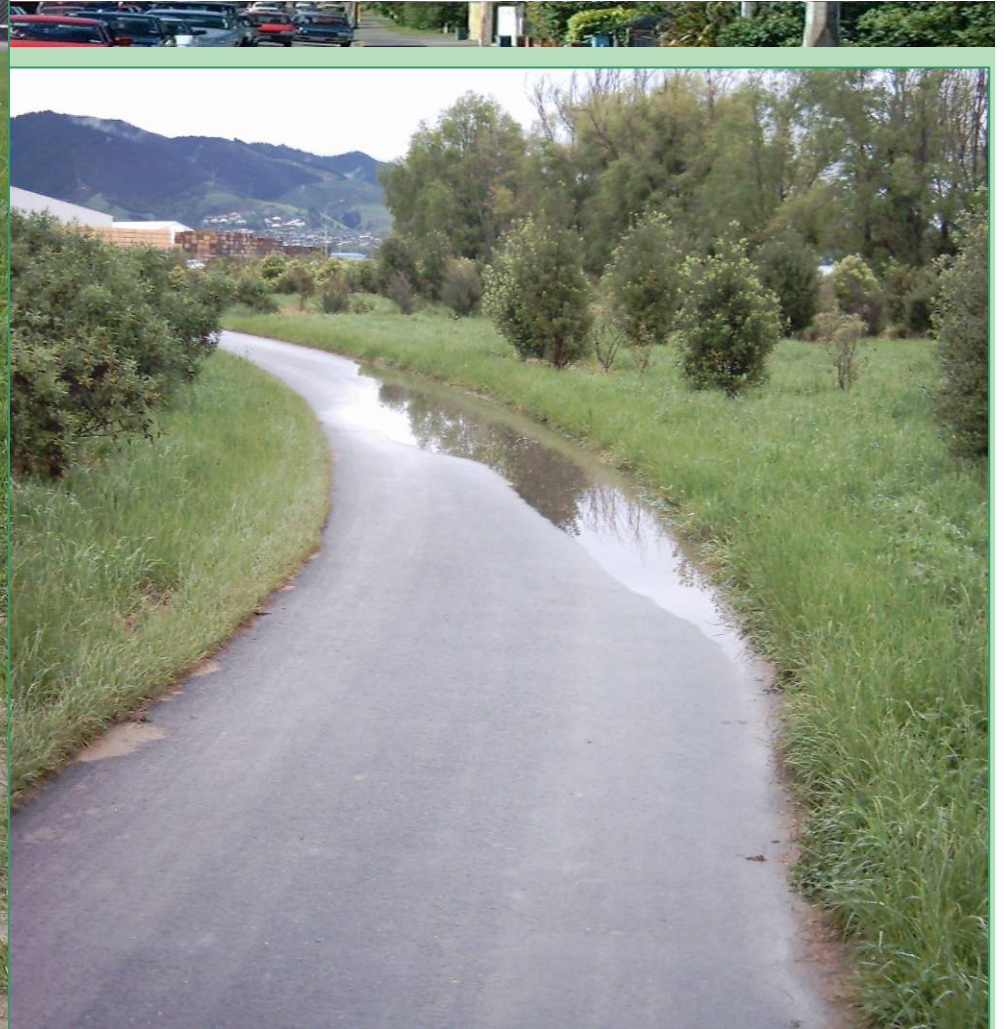
- “Introduction to Cycle Planning/Design”
  - ½-day course
  - For managers & decision-makers
  - First course run in Wellington, Aug 2006
- “Advanced Cycle Planning/Design”
  - 2-day course
  - Incl. field work and practical design exercises
  - Planning for this now underway with LTNZ

*Contact BikeNZ for future courses*

- *Where should we hold our 2007 courses?*

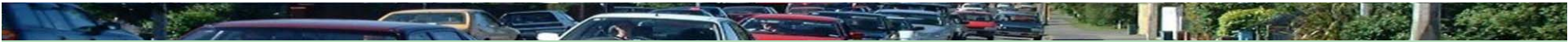


# How Hard Can It Be...?





# Where to Go From Here

- 
- Develop a Similar 1-day Course
    - “Fundamentals of Planning/Design for Walking”
    - Based on New LTNZ Guide
  - Consider Development of Other Courses
    - ½-day “Intro” courses
    - 2-day “Advanced” courses
    - OR hold combined walking/cycling courses?
  - Still need to get more pedestrian planning/design into tertiary education
    - Esp. at undergrad level (Eng, Planning, Geog)

# Walking Planning/Design: Basic Topics to Cover



- NZ Context
  - Historical Provision
  - Govt Policies/Strategies
  - National Guidelines
- Pedestrian Needs
  - Types of Pedestrians
  - Walking Characteristics
  - Injury/Crash Risks
- Pedestrian Planning
  - Walkable Communities
  - Barriers to Walking
  - Walking Strategies
  - The "Five C's"
- Pathway Design
  - Path Widths, Geometry
  - Obstructions
  - Surfaces/Maintenance
- Crossing Design
  - Traffic/Land Use Issues
  - Crossing Aids/Facilities
  - Delay Estimation
- Pedestr'n Audit/Review
  - Walkability Measures
  - Audit/Review Methods
- Evaluation/Funding
- Case Studies - Good/Bad

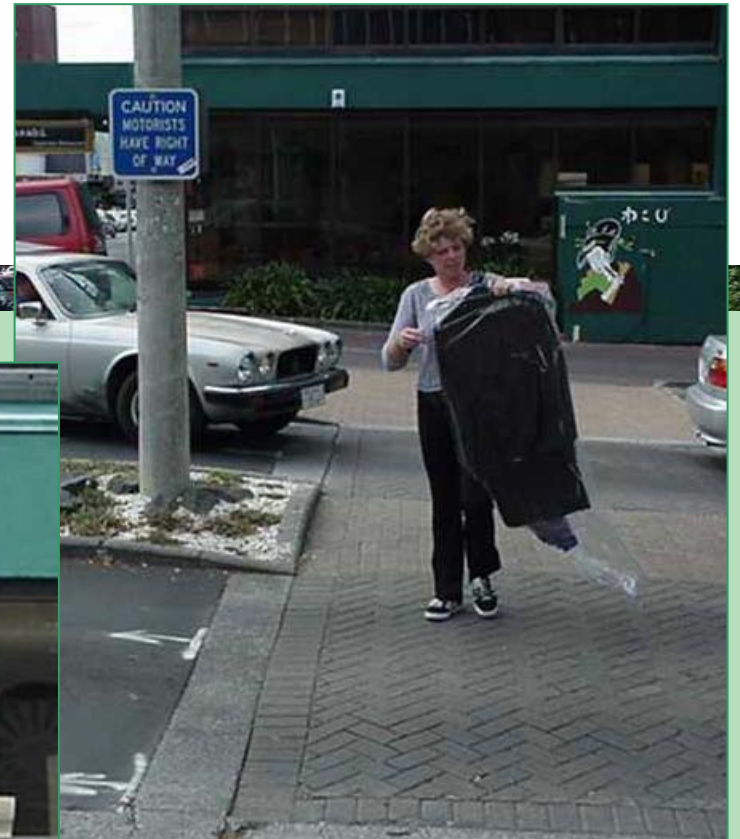
# Further Information



- For info about:
  - Master Eng Trptn (MET) Course Content
  - Fundamentals of Traffic Eng Course, Feb 2007
  - Cycle Planning/Design Courses 2007
- Glen Koorey
  - Dept of Civil Eng, University of Canterbury
  - *Glen.Koorey@canterbury.ac.nz*
  - *<http://www.civil.canterbury.ac.nz>*

# Thank You!

Any Questions?



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