Introducing Professionals to Planning & Design for Walking

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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
  - Land Transport Management Act (2003)
  - Implementation Steering Group (MoT/LTNZ, 2005)
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
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
Fundamentals of Planning and Design for Cycling

Section 6
Putting It All Together
Napier, Aug 2006

Section Outline

- Six elements of intersection continuity
- A cycle-friendly intersection with no cycle provision
- Cycle bypasses
- Minor junctions
“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

- Cycling Strategy
- Best Practice
- Network/Route Planning Guide
- Cycle Design Supplement
- Planning/Design Training Course

- 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

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Thank You!

Any Questions?

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