

Dunedin One-way Pair Cycle Lanes Safety Audit

Andrew Macbeth

**Group Leader, Transportation
MWH New Zealand Ltd
Christchurch**

Simon Underwood

**Traffic and Safety Engineer
Transit New Zealand
Dunedin**

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Introduction

- ◆ Presentation generally follows written paper
- ◆ Transit New Zealand (Transit) is road controlling authority for these roads
- ◆ Transit commissioned the safety audit
- ◆ MWH (Dunedin) was designer
- ◆ MWH (Christchurch) was safety auditor



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Background

- ◆ Two streets located in Dunedin's CBD
- ◆ Close to university, hospital
- ◆ Traffic volumes around 10,000 vpd each
- ◆ Cycle traffic around 400 to 500 per day
- ◆ Cyclist safety an identified concern



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Typical intersection - before



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Typical intersection - after



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Typical mid-block layout



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Old markings show extra space created for cyclists



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General traffic lanes narrowed from 3.5 m to 3.25 m



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Transition to centre



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Audit process

- ◆ Auditor walked, cycled and drove the routes
- ◆ SPOKES representative participated in the cycling component
- ◆ Report with many photos discussed the good points and identified safety issues



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Most cyclists (86%) now use left side of road



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Chip seal is rough on cyclists



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Loose gravel - anyone for marbles?



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Cycle lane left edge line encourages sloppy parking



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Cycle lanes can accommodate double-parking



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Parking stalls could be narrower



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Asphalt build-up undesirable



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Legend is inconspicuous compared with direction arrow



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Coloured surface recommended in critical sections



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Conclusions

- ◆ Audit process seems to have been worthwhile
- ◆ Some local issues - being dealt with locally
- ◆ National issues - working with other parties to implement recommendations



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Audit Conclusions - Overall

- ◆ Cycle lanes have probably improved safety
- ◆ Most cyclists now use the left side
- ◆ Solid right edge line gives good lane definition



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Audit Conclusions - National Issues

- ◆ New/improved standards needed:
 - Smoother road surfaces to support cycling
 - Edge of seal/lip of channel transitions
- ◆ Pavement markings
 - Solid edge lines strongly endorsed
 - Coloured surfaces recommended in critical locations
 - Cycle legend needs enlarging



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A positive step towards cyclist safety and convenience



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