New Guides from Austroads Consortium
The Consortium members

- Representatives from:
  - NZ Transport Agency
  - New South Wales
  - Victoria
  - Queensland
  - Western Australia
  - South Australia
  - Tasmania
  - Northern Territory
  - Capital Territory
  - DOT & Regional Services
  - Local Government Association
**Guides, Codes and Standards**

**Pirates of the Caribbean: The Curse of the Black Pearl**

**Elizabeth:** Wait! You have to take me to shore. According to the Code of the Order of the Brethren...

**Barbossa:** First, your return to shore was not part of our negotiations nor our agreement so I must do nothing. And secondly, you must be a pirate for the pirate's code to apply and you're not. And thirdly, the code is more what you'd call "guidelines" than actual rules. Welcome aboard the Black Pearl, Miss Turner.
The Guides – Audiences

- Policy Makers and Strategic Planners
  - Road Transport Planning
  - Road Safety
  - Traffic Management
- Project Managers
  - Project Delivery
  - Project Evaluation
- Design Practitioners
  - Road Design
  - Bridge Technology
  - Road Tunnels
  - Pavement Technology
- Network and Asset managers
  - Asset Management
The Guides – Positioning (i)

- Augment current guides and practices
  - Rationalised
  - Updated information
  - Review of best practice and research
- Refer to Jurisdictional variations
  - MOTSAM
The Guides – Positioning (ii)

- Replace current guides and practices
  - Rationalised
  - Updated information
  - Review of best practice and research
- Refer to Jurisdictional variations
  - MOTSAM
- Require Jurisdictional Supplements
- Phasing out of superseded guides
  - SHGDM (Draft)
Providing for a Safe System

... designing, constructing and maintaining a road system (roads, vehicles and operating requirements) so that forces on the human body generated in crashes are generally less than those resulting in fatal or debilitating injury.....
Providing for a Safe System
The Guides – Summary

- Asset Management - 16 Parts
- Bridge Technology - 7 Parts
- Pavement Technology - 22 Parts
- Project Delivery - 4 Parts
- Project Evaluation - 8 Parts
- Road Design - 13 Parts
- Road Safety - 9 Parts
- Road Transport Planning - 1 Part
- Traffic Management - 13 Parts
- Road Tunnels (TBC) - 3 Parts

Total of 96 Parts + Glossary of Terms
The Guides – Asset Management

- Part 1 Introduction to Asset Management
- Part 2 Stakeholder/Community Requirements
- Part 3 Asset Strategies
- Part 4 Program Development and Implementation
- Part 5 Pavement Performance
  - Part 5A – Inventory
  - Part 5B – Roughness
  - Part 5C – Rutting
  - Part 5D – Strength
  - Part 5E – Cracking
  - Part 5F – Skid Resistance
  - Part 5G – Texture
  - Part 5H – Performance Modelling
- Part 6 Bridge Performance
- Part 7 Road Related Assets Performance
- Part 8 Asset Valuation and Audit
The Guides – Bridge Technology

- Part 1 Introduction and Bridge Performance
- Part 2 Materials
- Part 3 Typical Bridge Superstructures, Substructures and Components
- Part 4 Design Procurement and Concept Design
- Part 5 Structural Drafting
- Part 6 Bridge Construction
- Part 7 Maintenance and Management of Existing Bridges
The Guides – Pavement Technology

- Part 1 Introduction to Pavement Technology
- Part 2 Pavement Structural Design
- Part 3 Pavement Surfacings
- Part 4 Pavement Materials
  - Part 4A – Granular Base and Sub Base Materials
  - Part 4B – Asphalt
  - Part 4C – Materials for Concrete Road Pavements
  - Part 4D – Stabilised Materials
  - Part 4E – Recycled Materials
  - Part 4F – Bituminous Binders
  - Part 4G – Geotextiles and Geogrids
  - Part 4H – Test Methods
  - Part 4I – Earthworks Materials
  - Part 4J – Aggregate and Source Rock
  - Part 4K – Seals
  - Part 4L – Stabilising Binders
- Part 5 Pavement Evaluation and Treatment Design
- Part 6 Unsealed Pavements
- Part 7 Pavement Maintenance
- Part 8 Pavement Construction
- Part 9 Pavement Work Practices
- Part 10 Sub-Surface Drainage
The Guides – Project Delivery

- Part 1 Overview
- Part 2 Project delivery planning and control
- Part 3 Contract Management
- Part 4 Direct management of construction
The Guides – Project Evaluation

- Part 1 Introduction
- Part 2 Project evaluation methodology
- Part 3 Models and procedures
- Part 4 Project evaluation data
- Part 5 Impact on the national and regional economies
- Part 6 Distributional (equity) effects
- Part 7 Post-completion evaluation
- Part 8 Examples and applications
The Guides – Road Design

- Part 1 Introduction to Road Design
- Part 2 Design Considerations
- Part 3 Geometric Design
- Part 4 Intersections and Crossings
  - Part 4A – Unsignalised and Signalised Intersections
  - Part 4B – Roundabouts
  - Part 4C – Interchanges
- Part 5 Drainage Design
- Part 6 Roadside Design, Safety and Barriers
  - Part 6A – Pedestrian and Cyclist Paths
  - Part 6B – Roadside Environment
- Part 7 Geotechnical Investigation & Design
- Part 8 Process and Documentation
The Guides – Road Safety

- Part 1 Road Safety Overview
- Part 2 Road Safety Strategy and Evaluation
- Part 3 Speed Limits and Speed Management
- Part 4 Local Government and Community Road Safety
- Part 5 Road Safety for Rural and Remote Areas
- Part 6 Road Safety Audit (update of existing guide)
- Part 7 Road Network Crash Risk Assessment and Management
- Part 8 Treatment of Crash Locations (update of existing guide)
- Part 9 Roadside Hazard Management
The Guides – Road Transport Planning

‘Provides a frame of reference regarding road planning principles and processes...’

Austroads Guide to Road Transport Planning

Austroads Guide to Asset Management

Austroads Guide to Project Evaluation

Austroads Guide to Traffic Management

Other Austroads Guides
The Guides – Traffic Management

- Part 1 Introduction
- Part 2 Traffic Theory
- Part 3 Traffic Studies and Analysis
- Part 4 Network Management
- Part 5 Road Management
- Part 6 Intersections, Interchanges and Crossings
- Part 7 Traffic Management in Activity Centres
- Part 8 Local Area Traffic Management
- Part 9 Traffic Operations
- Part 10 Traffic Control Devices
- Part 11 Parking
- Part 12 Traffic Impacts of Developments
- Part 13 Road Environment Safety
The Guides – Road Tunnels

- Part 1 Introduction to Road Tunnels
- Part 2 Planning, Design and Commissioning
- Part 3 Operation and Maintenance
Update and Review Schedule

- Up-to-date, consistent and contemporary
- Each guide will be reviewed
  - based on feedback from the industry
  - as new research is conducted and published
  - at least every five years
- Reviews and updating will be communicated via newsletter, RoadWatch and Austroads website.

www.austroads.com.au
Where can I get a copy?

- Guides are available in hardcopy and PDF format from the Austroads website.
- Guides are free (in PDF format) to road agencies including councils in Australia and New Zealand.

www.onlinepublications.austroads.com.au
NZTA Promulgation programme

- Primary source
  www.nzta.govt.nz

- Three Categories of Guide:
  - Replacement for Current Guides
  - Best Practice
  - Reference only
<table>
<thead>
<tr>
<th>Category</th>
<th>Relevance/Impact</th>
<th>Guides</th>
<th>Actions</th>
</tr>
</thead>
</table>
| 1. Reference only              | • Background information and reading  
                             • Little or no impact on current practice  
                             • No reference made to replaced documents in any manuals, processes or procedures  
                             • Promulgated as information only | Project Evaluation  
                             Road Safety  
                             Transport Planning | • Website promotion only  
                             o Listed with synopsis  
                             o Guidelines for intended use and positioning  
                             • Listed as additional reference and reading in documents |
| 2. Best practice guidelines    | • Confirmation of or improvements to working practices  
                             • Referred to in one or more manual, process or procedure  
                             • Impact on process/procedure rather than physical works  
                             • Require promulgation with a higher emphasis and profile | Asset Management  
                             Project Delivery  
                             Traffic Management  
                             Bridge Technology  
                             Pavement Technology | • Website plus targeted communication  
                             • Website promotion  
                             o Listed with synopsis  
                             o Guidelines for intended use and positioning  
                             • Targeted communication explaining relevance and anticipated impact  
                             o Includes strategy for project implementation  
                             Update references in published manuals and procedures |
| 3. Replacements for active documents | • Direct replacements for design manuals/standards  
                             • Integral part of a manual, process or procedure  
                             • High impact on process/procedure and physical works  
                             • Important to promulgate effectively and efficiently | Road Design | All of #2 plus:  
                             • Awareness Seminars/workshops  
                             o NZTA Offices and teams  
                             o RCA’s  
                             • Advice about appropriate project implementation  
                             o Web-based  
                             o Targeted communication |

www.nzta.govt.nz
NZTA Promulgation programme

Replacement for Current Guides

- Awareness Seminars/workshops
  - NZTA Offices and teams
  - RCA’s
  - Practitioners

- Advice about appropriate project implementation
  - Web-based
  - Targeted communication
NZTA Promulgation programme

Awareness Seminars/workshops

• In association with ARRB
  • Guides to Traffic Management and Road Safety
    • Auckland – 21st June 2010
    • Wellington – 23rd June 2010
    • Christchurch – 25th June 2010
Awareness Seminars/workshops

• Guide to Road design (Parts 3, 4 & 6)
  • Auckland – 27th July 2010
  • Hamilton – 28th July 2010
  • Wellington – 30th July 2010
  • Christchurch – 2nd August 2010
  • Dunedin – 4th August 2010
NZTA Promulgation programme

Best Practice

• Website promotion
  • Listed with synopsis
  • Guidelines for intended use and positioning
  • Targeted communication explaining relevance and anticipated impact
    • Includes strategy for project implementation
  • Update references in published manuals and procedures
NZTA Promulgation programme

Reference Only

• Website promotion
  • Listed with synopsis
  • Guidelines for intended use and positioning

• Listed as additional reference and reading in documents
Highway Design Advice

Creating a safe, forgiving, readable and predictable environment that is appropriate to its context and environmentally sensitive.

Austroads Guides
- NZ Austroads Supplement
- Technical Advice Notes
- Environmental Issues

Urban Design
- Planning Issues
- Frequently asked questions
Information Board

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