New Guides from Austroads Consortium







New Zealand Government

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





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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 proceed and research
- Refer to Jurisch tonal 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- Phasing out of superseded guides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







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The Guides – Summary

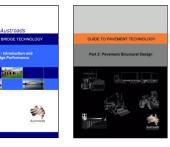
- Asset Management
- Bridge Technology
- Pavement Technology
- Project Delivery
- Project Evaluation
- Road Design
- Road Safety
- Road Transport Planning
- Traffic Management
- Road Tunnels (TBC)

Total of 96 Parts + Glossary of Terms



- 7 Parts
- 22 Parts
- 4 Parts
- 8 Parts
- 13 Parts
- 9 Parts
- 1 Part
- 13 Parts
- 3 Parts









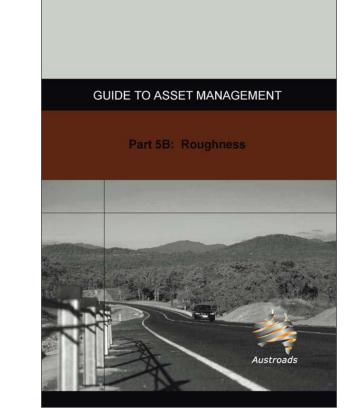






The Guides – Asset Management

- 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

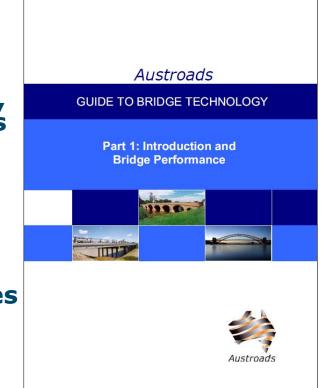






The Guides – Bridge Technology

- 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

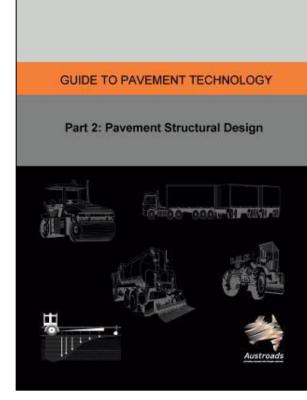






The Guides – Pavement Technology

- 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

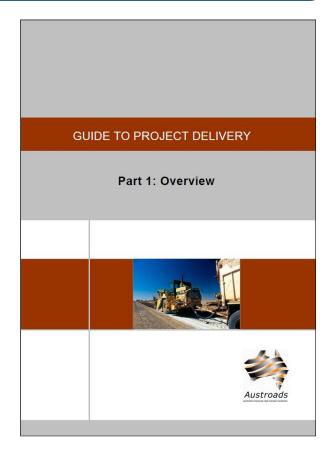






The Guides – Project Delivery

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

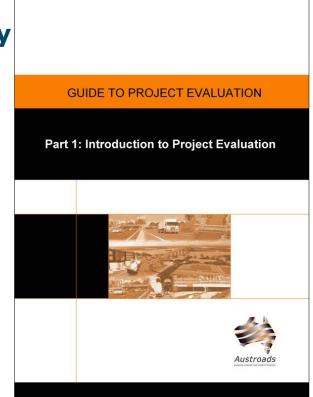






The Guides – Project Evaluation

- 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

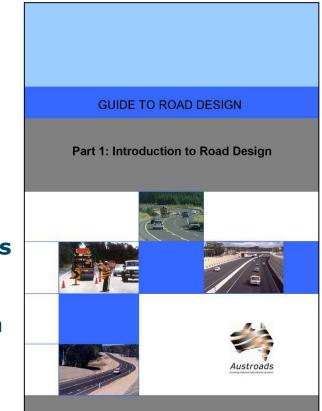






The Guides – Road Design

- 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

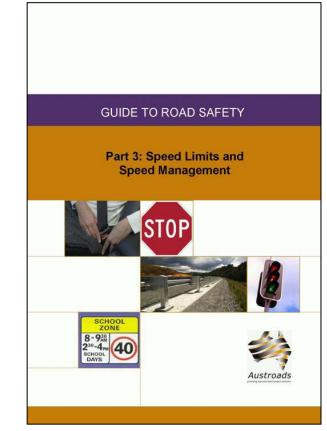






The Guides – Road Safety

- 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

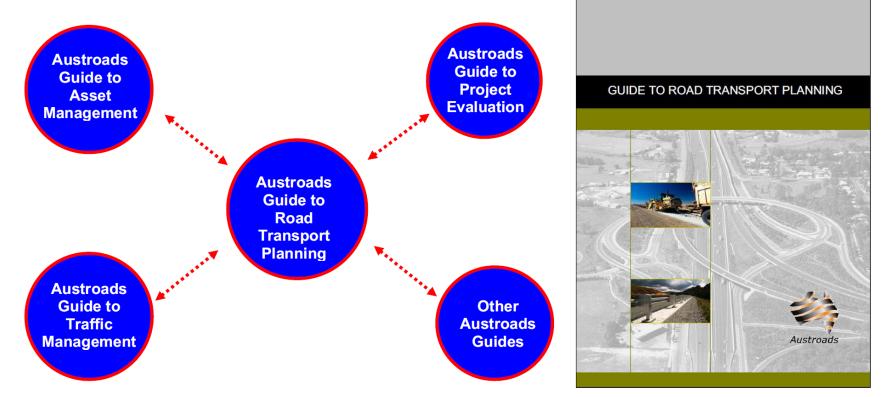






The Guides – Road Transport Planning

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





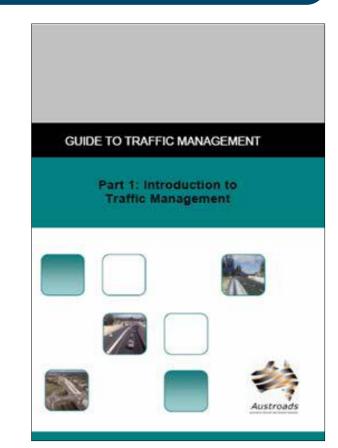


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The Guides – Traffic Management

- 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

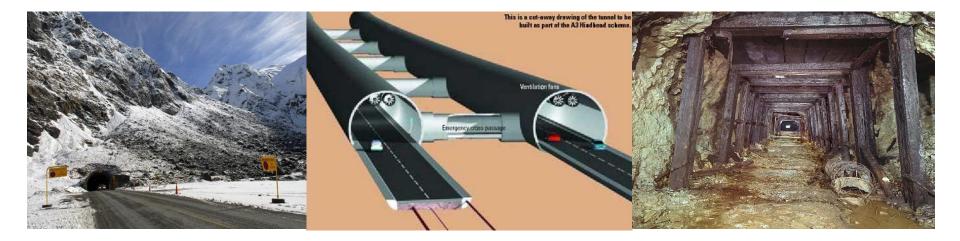






The Guides – Road Tunnels

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







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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





- Primary source <u>www.nzta.govt.nz</u>
- Three Categories of Guide:
 - Replacement for Current Guides
 - Best Practice
 - Reference only





Guide Categories

Category	Relevance/Impact	Guides	Actions
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 oListed with synopsis oGuidelines for intended use and positioning •Listed as additional reference and reading in documents
2. Best practice guidelines	or procedure	Asset Management Project Delivery Traffic Management Bridge Technology Pavement Technology	Website plus targeted communication •Website promotion oListed with synopsis oGuidelines for intended use and positioning •Targeted communication explaining relevance and anticipated impact oIncludes strategy for project implementation Update references in published manuals and procedures
	•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 oNZTA Offices and teams oRCA's •Advice about appropriate project implementation oWeb-based oTargeted communication

•www.nzta.govt.nz





Replacement for Current Guides

- Awareness Seminars/workshops
 - NZTA Offices and teams
 - RCA's
 - Practitioners
- Advice about appropriate project implementation
 - Web-based
 - Targeted communication





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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





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





Reference Only

- Website promotion
 - Listed with synopsis
 - Guidelines for intended use and positioning
- Listed as additional reference and reading in documents





NZTA Promulgation







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Information Board

- <u>www.nzta.govt.nz</u>
 - www.austroads.com.au
 - www.onlinepublications.austroads.com.au
- <u>Austroadsguides@nzta.govt.nz</u>
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