

THE MANAGEMENT OF SKID RESISTANCE IN AUSTRALIA NATIONAL, STATE OR LOCAL TASK?

Presented by:

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Presentation Overview

- Background on Australian road network (c.w USA)
- Overview of skid resistance management in Australia
- The main issues / challenges
- How we are tackling them
- The future? / closing remarks



'The Lucky Country'

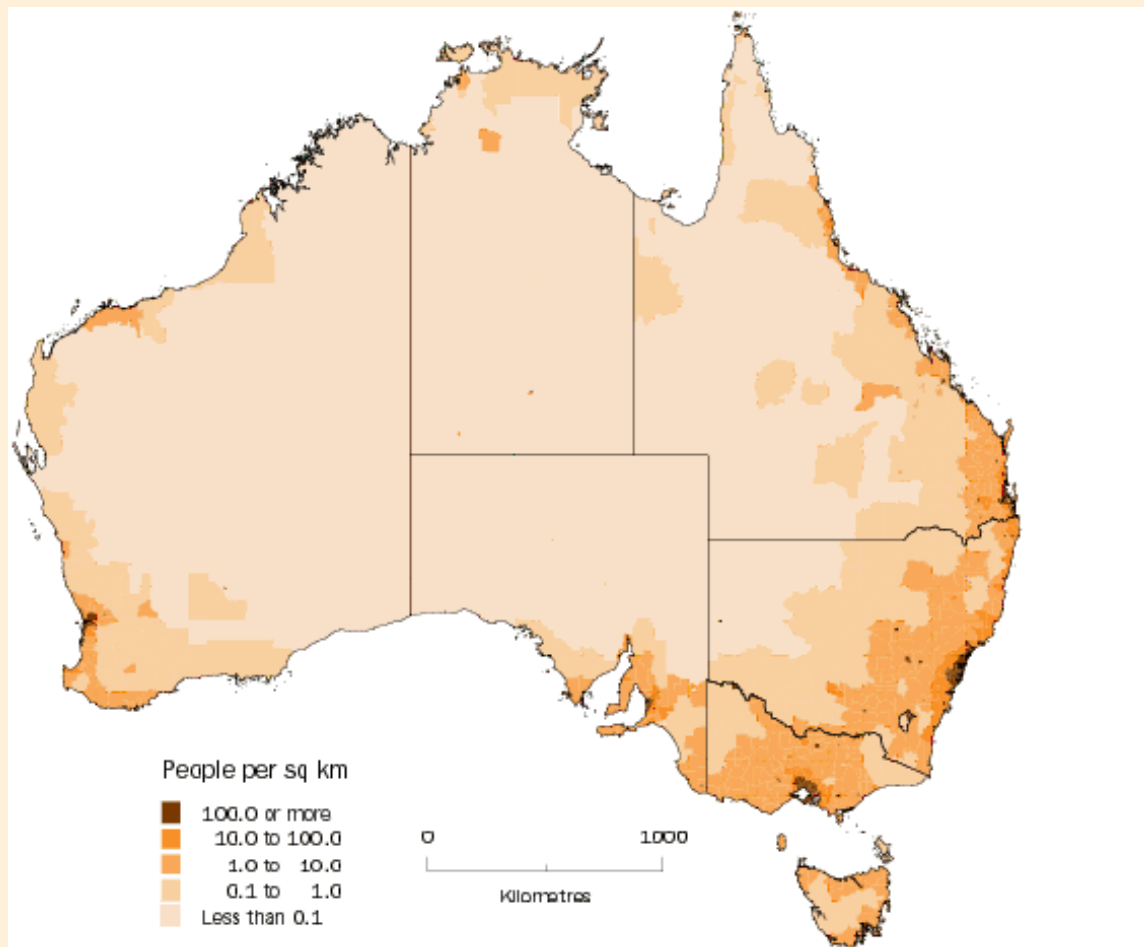


A comparison or two.....

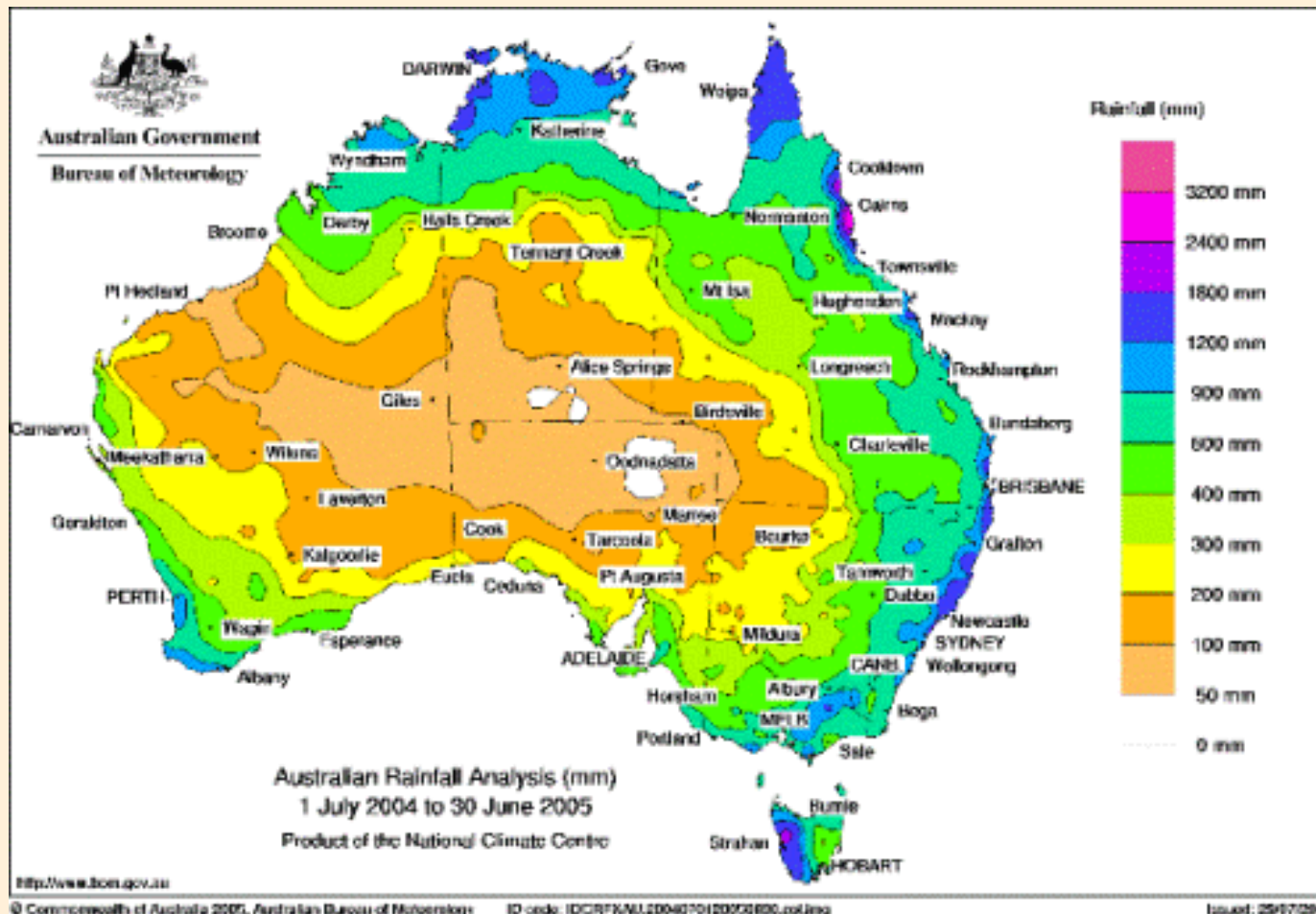


Parameter	Australia	USA
Population	22.8 million (01/12)	312.8 million (01/12)
Population density	7 persons / sq.mile	84 persons / sq.mile
No. of vehicles	16.4 million (2011)	255.9 (2008)
Road length	815,074 km (2007)	6,506,204 km
Sealed roads	41%	Not known
No. of states/territories	8	56
Fatalities p.a per 100k population	5.7 (2011)	10.63 (NHTSA, 2010)
No. fatalities in 2011	1,292	33,808

Population density

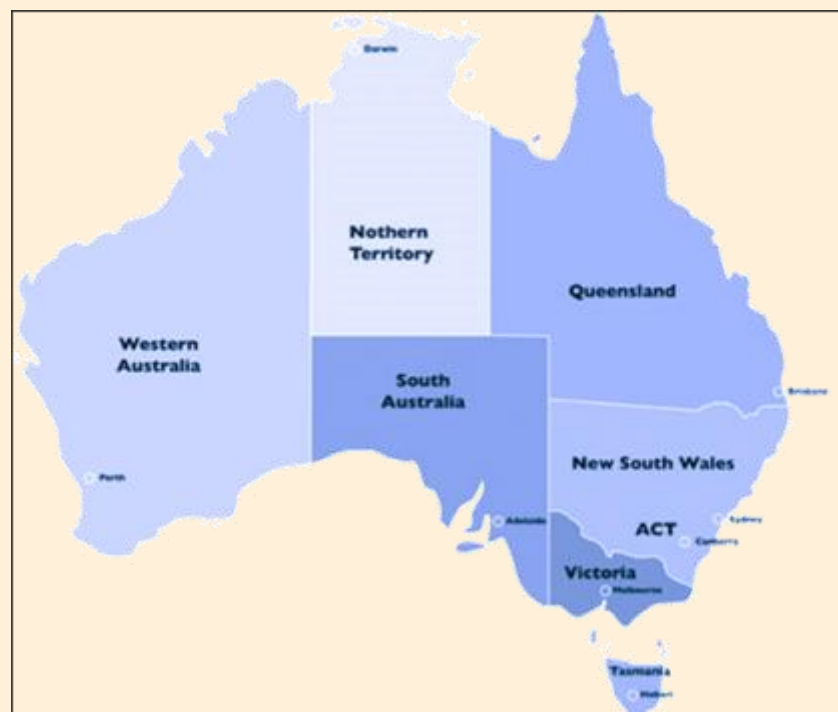


Rainfall



Management of Australia's highways

- Federal
- National road network
- AusLink
- State
- 8 SRAs (see map)
- Local
- Over 80% of network
- 560 local councils
- Many < 2,000 residents
- Competing demands!



Management of Australia's highways



Management of Australia's highways



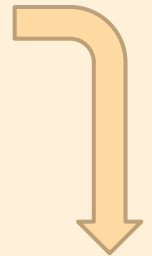
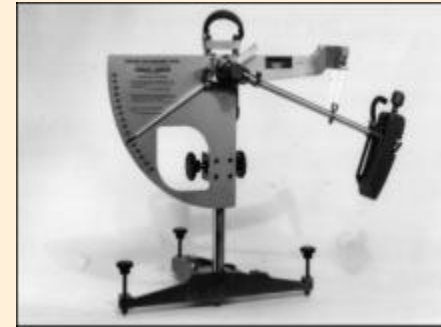
Management of Australia's highways



Managing skid resistance in Australia



Evolution of managing skid resistance



Evolution of managing skid resistance

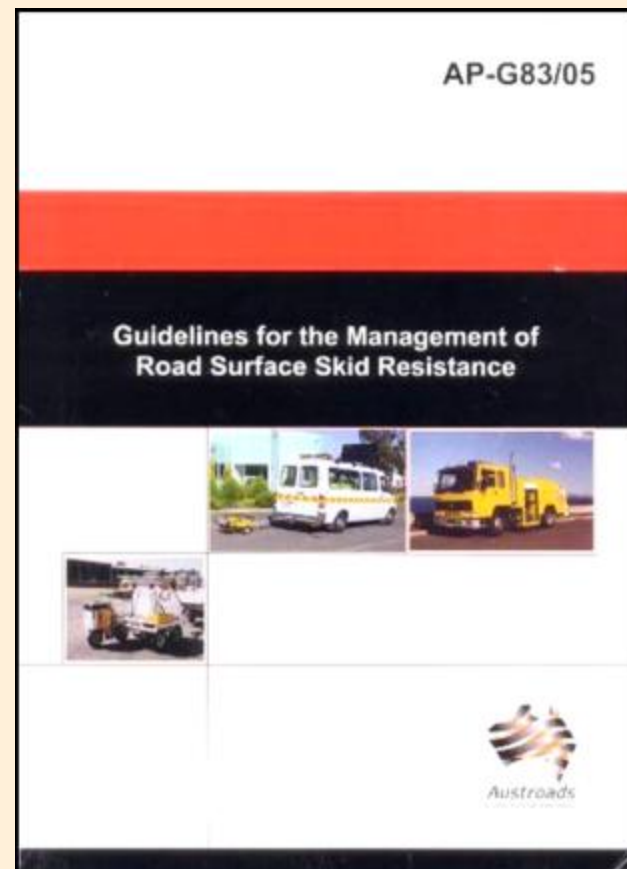


Managing skid resistance in Australia



Management of skid resistance

- State by state + look to UK
- 1st national guide Jan 2005
- Extensive roll out & training
- Encouraged all RAs to develop a strategy/policy
- ‘one size does not fit all’!
- 16 strategy building blocks
- Proactive, reactive, hybrid
- Legal position (civil claims)
- Equalisation of crash risk & ILs



**Policy
and
Management**

**Network
Standards**

Testing

**Analysis
and
Action**

**Review /
Improvement**

**Defining
objectives**

**Defining
responsibilities**

**Release
of data**

**Dissemination
and
training**

**Materials
standards**

**Selection
of
surfacing**

**Works
standards**

**Setting
Investigatory
Levels**

**Testing
regime**

**Calibration
&
maintenance**

**Data
management**

**Identifying
sites for
investigation**

**Site
investigations**

**Warning
signs**

**Selection
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**Continual
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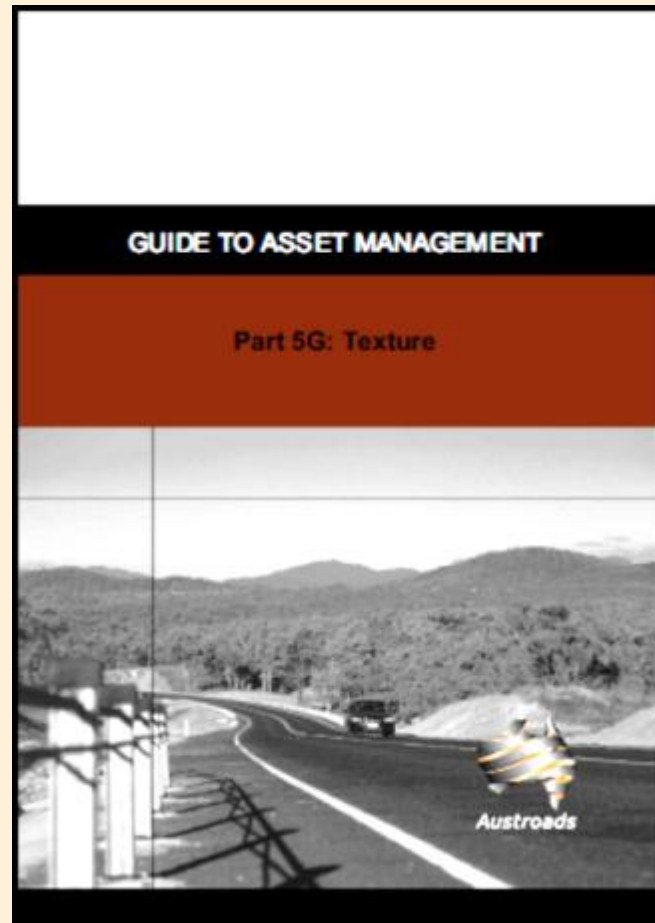
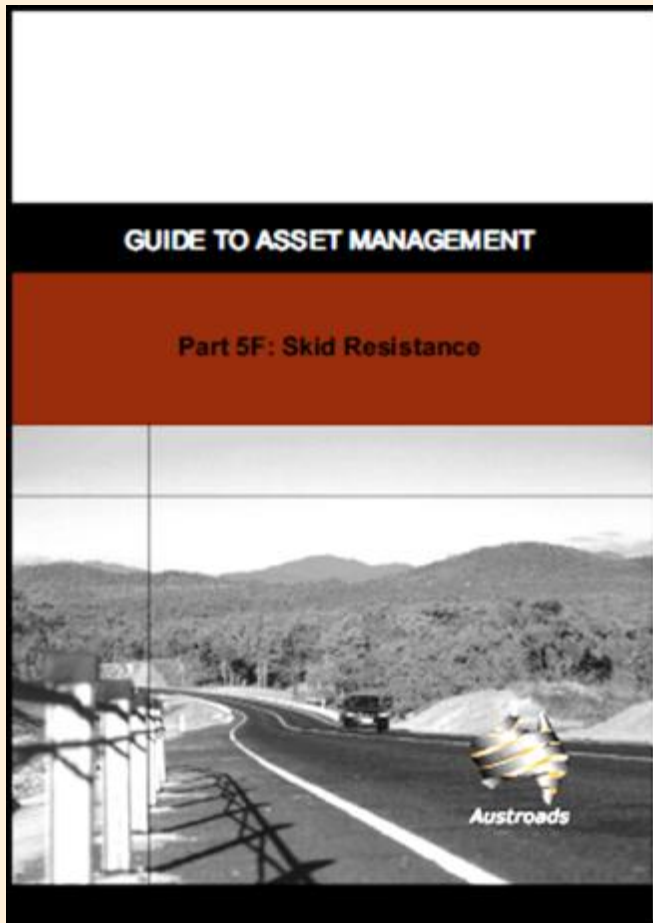
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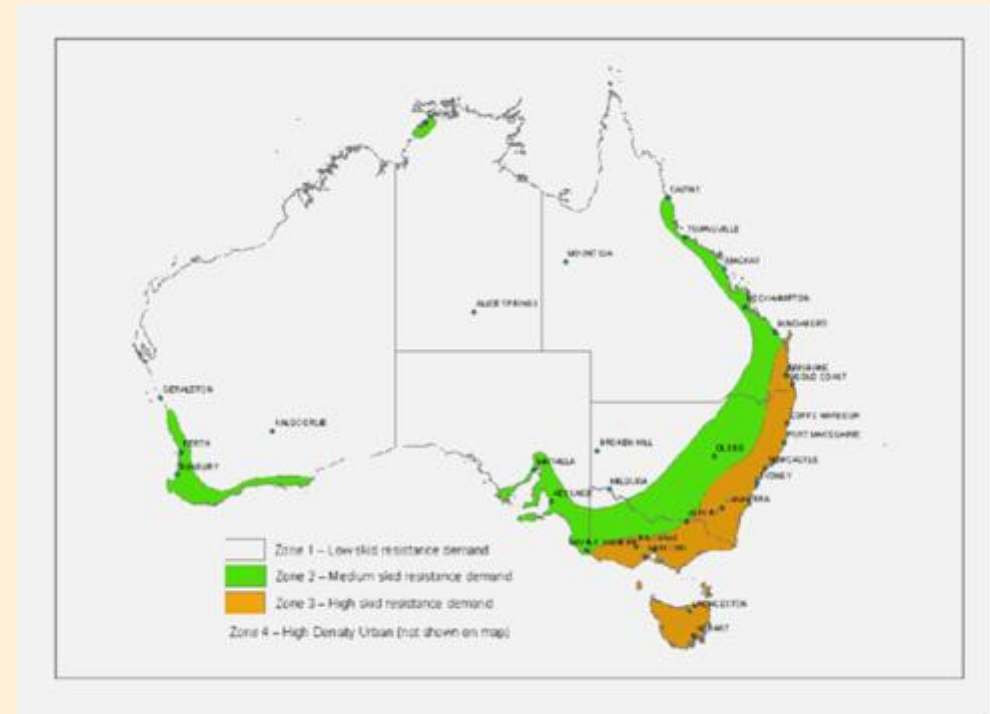
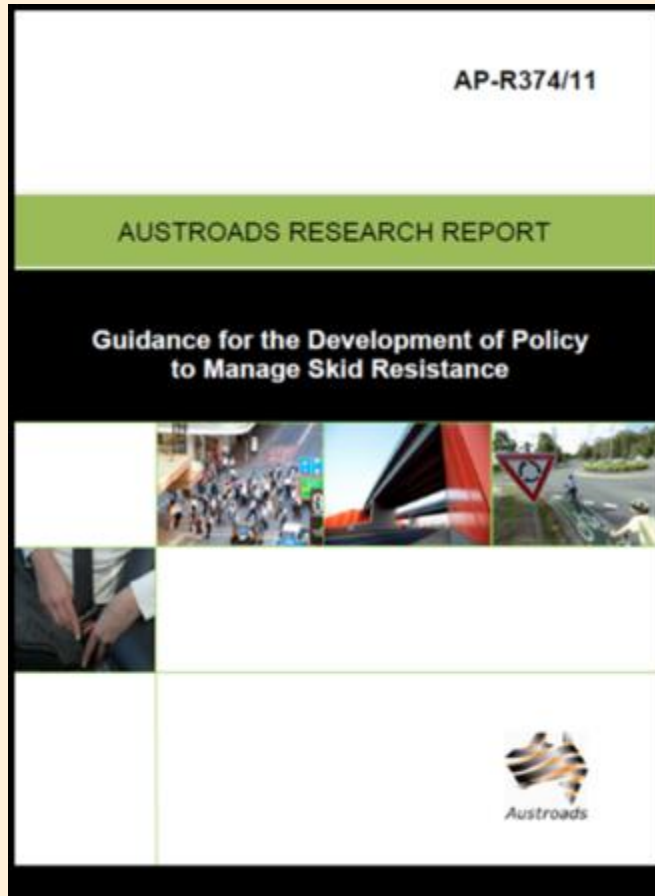
Not just resurfacing!



Data collection guides followed



Further guidance issued



3rd International Road Surface Friction Conference, Australia, May 2011

- 240 delegates
- 14 different countries
- 60 technical papers
- Track day
- Equipment demos
- Resounding success
- www.arrb.com.au
- www.saferroads.org.uk
- UK- May 2014



Barriers to (wider) implementation

- **Despite compelling arguments for !!!**
- No statutory requirement
- ‘True skid crashes very rare’ (more pressing needs)
- Not for us (SRAs only, & not all SRAs are doing it)
- Have to collect test data?
- Too expensive, inc. vast & remote road networks
- Must be ‘all or nothing’
- Little knowledge or expertise
- More detail in Hillier (2011) – inc. features of a ‘fit for purpose’ strategy

Current issues

- **Test equipment availability and correlation**
- **Post crash testing (inc. Police tests)**
- **Post-lay / QA skid resistance testing for surfacings**
- **Macrotexture as a surrogate for SR**
- **Seasonal variation / correction in SR data**
- **Rainfall (need to test?)**
- **First Rainfall Skidding Accidents**
- **Aggregates – availability & QA (PAFV)**
- **Flushing of spray seals**
- **Data analysis and processing – standardisation**
- **Developing ‘local’ ILs**

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Closing remarks



Thank You !

