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.....

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

- Test equipment availability and correlation
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- Data analysis and processing – standardisation
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Closing remarks
Thank You!