Recent developments in data collection in Australia

by Richard Wix
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Who is Austroads?
Harmonization

Hardest task:

‘I’d like to buy the world a coke’
I’d like to teach.....
Harmonisation

HOW TO SPEAK AUSTRALIAN.
Harmonisation is great....... as long as you do it our way!!!
Austroads test methods

AUSTROADS TEST METHOD AGAM/T003

Validation of an Inertial Laser Profilometer for Measuring Pavement Roughness (Loop Method)

AUSTROADS TEST METHOD AG:AM/T010

Validation of a Laser Profilometer for Measuring Pavement Rutting (Reference Device Method)

AUSTROADS TEST METHOD AG:AM/T014

Validation of a Laser Profilometer for Measuring Pavement Surface Texture (Reference Device Method)

Advances in equipment
3D roughness measurement
Loop method
Results – loop method

\[ y = 0.98x + 0.02 \]
\[ R^2 = 0.97 \]

Percentage difference = 0.4%
In progress - new test method for cracking

- PIARC CT4.2
- AASHTO
What happens when......
Safe

- travels at prevailing traffic speed with no external traffic control
- TSD can complete an entire 10,000 mile network in 12 weeks
- the equivalent FWD survey will take 15 years
- reduced operator and equipment risk over other stationary & slow moving devices
Fast – test points per day

<table>
<thead>
<tr>
<th>Test Points Per Day</th>
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<tbody>
<tr>
<td>TSD</td>
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<th>FWD</th>
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Efficient – multiple data sets is single pass
Extent of use

- 2 thirds through the second year’s survey program
- 110,000 miles driven
- over 50,000 miles collected
- over 8 million deflection bowls reported
Grooved concrete
Web based data viewers
Using drones

Hi, my name is Patrick

Satellite images courtesy of TRL
Australian outback
Conclusion

- test methods and specifications can assist in attaining harmonisation
- they must be ‘living’ documents to cater for new advances in technology
- new advances in technology are allowing us to collect pavement condition data in new ways
In memoriam: Roland Leschinski
Thank you

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