

Department of Transport and Main Roads

Transport and Main Roads new harmonised asphalt specifications

Implementation and demonstration

Michael Pickering, Director (Pavements Research and Innovation)
August/September 2014



Great state. Great opportunity.



Government Priorities

Four pillars of the Queensland economy

Tourism | Agriculture | Resources | Construction

The Queensland Plan

A 30-year vision for Queensland

Our values

- Customers First
- Ideas into Actions
- Unleash Potential
- Be Courageous
- Empower People

2 |

We connect Queenslanders ...

- We get people and industry moving
- We plan, we invest
- We deliver, we manage
- We regulate
- We help, we educate



3 |

Outline

- Timeline
 - Harmonised specifications.
- The future of
 - MRTS 30 and 31
 - Open graded asphalt.
- Demonstration projects
- Implementation considerations.

4 |

Timeline

- Now
 - Pilot specifications
- 2014/2015
 - Demonstration on projects
- July 2015
 - Implementation

5 |

The future

- MRTS31 Heavy duty asphalt**
 - New specification will become MRTS31 from July 2015
- MRTS30 Dense graded asphalt**
 - Proposing withdrawal on 30 June 2015
- Asphalt for Transport and Main Roads (TMR)**
 - Use new specification for all TMR contracts from July 2015
- Only register mixes to new specification from July 2015**
 - Registration for existing contracts if needed
- Open graded asphalt**
 - New specification

6 |

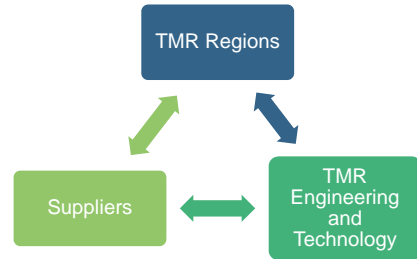
Demonstration projects: Consider



7 |

Demonstration projects: Benefits

- Gain experience



8 |

Implementation considerations

- AAPA training
 - For suppliers, administrators, inspectors and supervisors
 - To achieve a common understanding.
- Development of mix designs
- Production trials.

9 |

Implementation considerations (continued)

- Waterproofing seals
 - Compaction
 - Permeability.
- Cost of asphalt versus total cost
- Monitoring of construction and performance
 - Auditing.

10 |

Pavements Research and Innovation

What we do

- Technical specifications including unbound granular materials, bitumen, sealing, asphalt and concrete
- Project specific technical specifications such as stone mastic asphalt, cement modified base, high standard granular, subgrade
- Guide notes, test methods and approved product lists
- Pavement design supplement
- Specialist technical advice
- Peer review
- Innovation assessment
- TMR/ARRB research
- Austroads
- Registration of asphalt suppliers and mixes
- Technical training.

11 |

Pavements Research and Innovation

Mike Pickering, Director (Pavements, Research and Innovation), 3066 7741

- Overarching and general enquiries
- Austroads Pavements Task Force

Peter Bryant, Principal Engineer (Pavement Design), 3066 7743

- Pavement design
- Concrete pavements
- Cement modified pavements

Narelle Dobson, Principal Engineer (Pavements and Materials Development), 3066 7742

- Unbound pavement materials
- Recycled materials
- Heavy vehicles

12 |

Pavements Research and Innovation

Jason Jones, Principal Engineer (Asphalt and Surfacing), 3066 7726

- Asphalt
- Seals
- Surfacing

Barry Rule, Principal Advisor (Materials Testing), 3066 7719

- Asphalt supplier and mix design registration
- Bitumen and binders
- Pre-coating and anti-stripping (adhesion) agents

John Spathonis, Principal Manager (Research and Development), 3066 6465

- Mechanical engineering
- Austroads Technology Program Manager

131

Thank you

Connecting Queensland
Delivering transport for prosperity

13 QGOV (13 74 68)
www.tmr.qld.gov.au | www.qld.gov.au