

Asset Management

A44	Synthesis and dissemination of best practice Transport System Asset Management_Y5
A56	Pavement Drainage Performance_Y4
A61	New Generation iPAVe: Optimising its use for Road Asset Management_Y3
A62	Asphalt service lives - Component 2 - development of a ravelling model_Y3
A70	Road pavement Crack initiation model for sprayed seal surfacings_Y1
A72	Improving Asset Management -Dense Graded Asphalt Ravelling and Cracking Progression Model_Y1
A74	Investigating AI technology for routine maintenance defects detection_Y1

PMOP

O4	Dissemination of learnings
O43	Program management_Y2
O45	NACOE Future year program development_Y1

Network Operations

R150	Feasibility study of arterial road network optimisation using perimeter control_Y2
R151	Traffic Signal Timing Evaluation Based on The Connected Vehicle Data_Y2
R158	Quantifying the benefits and costs of road network operations treatments_Y1

Pavements	
P111	Improved Crumb Rubber Modified Binder Sprayed Sealing Practices_Y7
P121	Evaluation of the performance benefits of geosynthetic reinforcement in asphalt layers_Y4
P122	Improved characterisation of lightly bound materials_Y5
P132	Queensland's foamed bitumen mix design and structural design procedure: review and improved methods_Y4
P133	Performance relationships & specifications for asphalt pavement design in QLD_Y5
P134	Investigation of warm mix asphalt compaction temperature_Y4
P135	Optimisation of quarried/recycled pavement material blends_Y5
P137	Stability of bridge abutments – on the influence of pore pressures on scouring of supporting slopes_Y4
P149	Moisture susceptibility of asphalt mixes_Y2
P152	Increased use of RAP in asphalt_Y2
P159	Strategy, Research program, implementation plan, resource planning for the full-scale APT testing (Pavement Rehab. + PR&I)_Y2
P160	Method for determining design parameters of reinforced paved flexible pavement_Y4
P163	Long term pavement Performance assessment of selected LTPP sites_Y3
P164	Optimised and advanced Geotechnical Solutions (merge of the scope of new Geotech projects)_Y4
P165	Development of a Soft Soils and Expansive Soils databases_Y5
P168	Improved resilience of unbound granular pavements_Y4
P179	Intelligent construction technology for better roads in QLD_Y3
P181	Phd Project - Industry Research Training Group (IRTG) QUT 2 PhD projects - Construction of Pavements on Expansive Soils - Decarbonisation _Y3
P183	Digitising the workflow for Construction Materials Test Data_Y3
P185	Calibration of Volumetric Concrete Mixer Trucks_Y1
P187	Material Supply Chain Management – Methodology and Assessment_Y1
P34	Development of Performance Based Evaluation Protocol for Non-Standard Granular Pavement Materials_Y7
P43	Long Term Pavement Performance Project_Y12
P58	Alternative cementitious binders for cost-effective and sustainable transport infrastructure_Y2
P87	Incorporate Micro-Deval testing in material specifications_Y3

Road Safety and Design	
R157	The life cycle economic feasibility of noise barrier caps_Y2
R160	Minimum time gaps for heavy vehicles_Y1
R161	Sight line assessment interfaces with parking_Y1
R163	Operating speed models, HVs tight curves_Y1
Structures	
S70	Implementation of Learnings for Projects S62, S67, S71, S73_Y3
S75	Bridge Bearing and expansion joints performance_Y2
S76	Performance Based Concrete Specifications for Durability Performance_Y2
S77	Strategies for improving long term resilience on existing highway structures_Y1
S78	Specifications for engineered timber bridge components_Y1
S79	Steel Culvert Inspection and Rehabilitation Measures Under Permanent Standing Water_Y1

Sustainability	
O19	Benefits Realisation through undertaking a BCR analysis_Y3
O20	Implementing a recycled materials assessment framework_Y2
O24	Recycled materials in road pavement stabilisation_Y4
O24	Recycled materials in road pavement stabilisation_Y5
O25	Use of recycled materials in earthworks and drainage_Y5
O28	Recycled materials database_Y4
O28	Recycled materials database_Y5
O33	Potential use of Coal Mining Waste as a stabilising agent (CQU collaboration)_Y3
O33	Potential use of Coal Mining Waste as a stabilising agent (CQU collaboration)_Y2
O44	Supply analysis of the recycled materials marketplace for Queensland road infrastructure_Y1
O47	Cementitious stabilisation using coal combustion byproducts (CCPs) in road pavements_Y1
O47	Cementitious stabilisation using coal combustion byproducts (CCPs) in road pavements_Y2
O49	Estimating embodied carbon of concrete components in transport infrastructure_Y1
O50	Use of CCP in subgrade treatments_Y1
O50	Use of CCP in subgrade treatments_Y2
O51	Developing Carbon values for TMR Transport Infrastructure Projects_Y1
O54	Bagasse Ash and Fibres in Pavement Construction in Queensland_Y1
O55	Recycled crushed concrete (RCC) specification limits review_Y1
P117	Sustainability Assessment Tool_Y8
P117	Sustainability Assessment Tool_Y7
P166	Synthesis and dissemination of research findings and implementation concepts for pavements and sustainability_Y3