

## 2022-2023 NACOE Research Program

Project Number	Project Title	PAVEMENTS
P34	Development of Performance Based Evaluation Protocol for Non Standard and Marginal Granular Materials_Y4	
P43	Long Term Pavement Performance Project_Y9	
P105	Intelligent Compaction - Assessment of the Benefits and Limitations for QA in Road Construction_Y5	
P107	Innovative Methods of Slaking Quicklime_Y3	
P111	Improved Crumb Rubber Modified Binder Sprayed Sealing Practices_Y4	
P121	Evaluation of the Performance Benefits of Geosynthetic Reinforcement in Asphalt Layers_Y3	
P127	Harmonisation of Asphalt Compaction Standards_Y3	
P131	Sustainable Sprayed Sealing Practices_Y2	
P132	Queensland's Foamed Bitumen Mix Design and Structural Design Procedure: Review and Improved Methods_Y2	
P133	Performance Relationships & Specifications for Asphalt Pavement Design in QLD_Y2	
P134	Investigation of Warm Mix Asphalt Compaction Temperature_Y2	
P135	Optimisation of Quarried / Recycled Pavement Material Blends_Y2	
P137	Stability of Bridge Abutments – on the Influence of Pore Pressures on Scouring of Supporting Slopes_Y2	
P139	Slopes – Development of Wireless Sensor Network to Predict and Prevent Rainfall-induced Landslides_Y2	
P143	Standard Test Methods Data Set_Y1	
P144	Development of Laser Texture Depth Method to Replace Sand Patch Method_Y1	
P159	Strategy, Research Program, Implementation Plan, Resource Planning for the Full-Scale APT Testing (Pavement Rehab. + PR&I)	
P160	Method for Determining Design Parameters of Reinforced Paved Flexible Pavement	
P161	Maximising the Use of TSD Data for Pavement	
P162	Accurate Binder Content Determination of Crumb Rubber Asphalt Mixes (and potentially metal content testing)	
P163	Performance Assessment of Selected LTPP Sites	
P164	Optimised and advanced Geotechnical Solutions (Merge of the Scope of New Geotech Projects)	
P165	Development of a Soft Soils and Expansive Soils Databases	
P166	Synthesis and Dissemination of Research Findings and Implementation Concepts for Pavements and Sustainability	
P167	The Use of OTR Tyre Rubber in Asphalt and Spray Seals	
P168	Improved Resilience of Unbound Granular Pavements	

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Project Number	Project Title	ASSET MANAGEMENT
A43	Value for Money Asset Management Maintenance and Rehabilitation Design Guidelines (RoadTek)_Y2	
A44	Synthesis and Dissemination of Best Practice, Value for Money Asset Preservation Solutions and Management Strategies for Sealed Roads_Y3	
A56	Pavement Drainage Performance_Y2	
A60	Rural Road Network Line Marking and Crash Reductions from Connected and Automated Vehicles	
A61	New Generation iPAVe: Optimising its Use for Road Asset Management Stage 1	
A62	Asphalt Service Lives - Component 2 - Development of a Ravelling Model (Suggested Combined Scope Covering Cracking and Including Sprayed Seals)	
A63	ITS Pole Structural Inspections Guidelines Creation	
Project Number	Project Title	STRUCTURES
S54	Use of Cathodic Protection to Increase the Remaining Life of Steel Culverts_Y4	
S57	More Flood Resilient Bridge Approaches_Y4	
S62	Management of Structures with Concrete Halving Joint - Scale Model Testing Project_Y2	
S63	Buried Metal Culverts – Implementation of Remedial Options	
S64	Revision and Updating of TN03 - Measurement of Ground Vibration and Air Blast	
S65	Tunnel (Busway and Road) Condition Assessment and Gap Analysis	
S67	Future Availability of Fly Ash for Concrete Production in Queensland	
S68	Detailed Review of Current Timber Bridge Barrier Technology and Practice	
S69	Mapping Bridges That do Not Meet Height or Width Requirements	
Project Number	Project Title	NETWORK OPERATIONS
R100	TMR Traffic Data Access Portal_Y4	
R102	Automated Matching of HERE Map Links to TMR Network_Y4	
R117	The Impact of Using Hybrid Data Versus Normal Data Source for Travel Time Reliability Measurement	
R118	Review of TMR's Existing Bluetooth Travel Time Algorithm and Opportunities for Real-Time Use	
R136	Designing a New Approach for Annual Average Daily Traffic Estimation	

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Project Number	Project Title	ROAD SAFETY
R106	Identify Countermeasures to Reduce the Likelihood of Safety Incidents Involving Members of the Public at Short-Term Roadwork Sites_Y4	
R121	Evaluation of Traffic Control Measures and Technologies at Roadwork Sites_Y2	
R133	Enhancing the Safety of Personal Mobility Devices (PMDs) in Queensland	
R134	Traffic Controller Scout – Scoping Study	
R135	Research into Conflicts between Right Turn Vehicles and Following Through Vehicles on Rural Roads	
Project Number	Project Title	HEAVY VEHICLE & FREIGHT
R112	Review of Possible Changes to Heavy Vehicle Mass and Dimensions Through the Adoption of Low and Zero Emission Technologies.	
Project Number	Project Title	SUSTAINABILITY
P117	Sustainability Assessment Tool_Y4	
P155	Sustainability Framework for Seals	
O17	Development of Framework for Fish Passage in Culverts_Y3	
O24	Recycle Materials in Stabilisation_Y2	
O25	Use of Recycled Materials in Earthworks and Drainage_Y3	
O28	Recycled Materials Supplier Database	
O31	Regulated Waste Reduction Through Recycling Paint Wash Water and Raised Pavement Markers (RPMs)	