THE FUTURE OF ASSET MANAGEMENT
CALL FOR ABSTRACTS

In the early days of pavement and asset management, shortage and the quality of data and information was a constraint. This is no longer the case, with pavement strength data collected at traffic speed, cracks detected automatically and roadside and roadway video collected routinely. This theme explores the opportunities which exist due to this volume of data – and other recent and emerging technologies - for road users, owners, designers, constructors, managers and public sector treasuries. Authors are invited to submit papers on ‘big data’s application to not just routine maintenance planning and delivery, but also on building and retrofitting resilience into transport infrastructure and to propose how the next generation of pavements, surfacings and structures are to embrace a digitally connected and motivated world.

Key themes
Data collection for asset management
- What is the impact of technology on survey techniques, efficiency, and quality?
- How do the changes in suppliers, equipment etc. impact quality management?
- Is there any new technology is available for collecting, processing, sorting and reporting on large volumes of data?
- What role will the automated road transport system play in the collection of data?
- Evolution of pavement deflection data collection – is there likely to be something new?
- Where does drone technology fit into the data collection landscape?

Strategic and tactical asset management
- Can our deterioration models reliably estimate future maintenance needs?
- What is the role of data variability/quality on analysis outcomes?
- What does the contractor think of recent trends in contracting alliances?
- Procurement and contracting – have we tried everything to get best outcome for all parties?
- Engineering leadership – what is needed to ensure our next generation of asset managers are business and technology ready?
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Resilient infrastructure and networks
- Building in resilience costs, what are the trade-offs, can it be done affordably?
- Can we truly build completely resilient infrastructure?
- Is retrofitting resilience on a vast network possible – what are the considerations and focus points?
- Can we prepare, withstand, recover and adapt to natural and man-made events?
- How can we ensure that levels of service are maintained due to challenges in capacity, reliability and integration and sustainability?
- We have an extensive unsealed road network, what innovations are making these assets more viable and resilient?

Pavements and surfacings
- Smarter maintenance treatments (thin asphalt, microsurfacing, polymer seals etc.). How can we extend pavement life at low cost with advanced technology?
- Surfacing for the future, is peak oil still a concern?
- What impact does the quality of bitumen have on the life of surfacings?
- We’ve heard of high modulus asphalt, are there any innovations that will deliver savings to the spray sealed network?
- Where does the 3D printing industry see an opportunity in managing pavement assets?
- Water damages pavements – is there a need to review drainage designs?

Structures and other road side assets
- Are we managing to address the investment gap for our aging structures?
- Can new technology assist to deliver longer life structures?
- Where does our funding get spent – pavement versus the rest?
- Structures for the 21st century – have we taken resilience reliability out of the unknown basket?
- What is the latest in smarter bridge design and smarter structural materials, including temporary and fast deploying structures after weather events, and plastic/other recycled materials for strengthening bridges

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