

RISSB'S 2023 TECHNOLOGY AND INNOVATION CONFERENCE

RAIL INNOVATION

NOW OR NEVER

PROGRAM



RISSB

RAIL INDUSTRY SAFETY AND STANDARDS BOARD

Day 1

8.30	Welcome and overview of the conference	Damien White, CEO, RISSB
8.40	KEYNOTE 1 Stela Solar, Director National AI Centre, CSIRO <i>AI: Our Co-pilot in a Complex World</i>	
9.25	Professor Ravi Ravitharan, Director Institute of Railway Technology, Monash University <i>Preparing Australian Railways to Leapfrog as a Smart and Sustainable, Digitally Enabled Railway of the Future</i>	
10.00	Derel Wust, Founder and CEO, 4Tel <i>Hazard and Infrastructure Detection Using Artificial Intelligence and Machine Learning</i>	
10.30	Morning Tea	
11.00	PANEL Barriers to Innovation Facilitator – Zoltan David, Mage Consulting	Derel Wust, 4Tel Ravi Ravitharan, Monash University Jesse Baker, RISSB Graham Bradshaw, Sydney Trains
11.40	Farid Shirvarni, Consultant – Systems Engineering, Systra <i>Application of MBSE on Interface Management in Complex Rail Systems: Migrating from Documents to Models</i>	
12:10	John Vazey, Engineering Manager, EngAnalysis <i>Innovations in Structural Health and Rolling Stock Monitoring</i>	
12.40	Soapbox - Vent your tech spleen <i>Engagement activity outcomes</i>	
13.00	Lunch	
13.50	Stephen Way, Senior Consultant, Frazer-Nash Consultancy <i>Technology, Operations and Risks - Making it Work with Systems Thinking</i>	
14.20	Paul Murray, Program Manager, ACRI <i>ACRI and Rail Innovation</i>	
14.50	Simon Vaux, CEO, Deos Digital <i>The Future of Digital Engineering in the ANZ Rail Sector</i>	
15.20	Afternoon Tea	
15.45	Nicholas Daly, Innovation Manager, Yarra Trams <i>Innovation on the World's Largest Legacy Tram Network</i>	
16.15	Graham Bradshaw, Director Special Projects, Sydney Trains & Paul McIlveen, Managing Director, Silver Edge Technologies <i>Dual Approach with Dual Inventive</i>	
16.45	Mark Barrett, Co-founder, Aquipa <i>Revealing the Hidden Life of Plant: Aggregating Insights and Data for Better Rail Maintenance Environments</i>	
17.15	Closing remarks	Damien White, CEO RISSB
17.20	Close of Day 1	
18:00 - 21:00	Networking Drinks (Private event)	Handpicked Wines Cellar Door 50 Kensington Street, Chippendale NSW 2008

Day 2

8.30	Welcome and Overview of the day	Jesse Baker, General Manager Products and Innovation, RISSB
8.35	KEYNOTE 2	Kari Gonzales, President and CEO, MxV Rail (USA) <i>Building Resiliency in a Disruptive Environment</i>
9.20	Ashish Upadhyay, Director APAC, Cylus (Israel)	<i>Faster Than a Speeding Train: Defending Railway Signaling Systems in the Age of Hyper-Connectivity</i>
9.50	Ian Christensen, Managing Director, iMOVE	<i>Rail Interoperability – Engaged in the National Transport Network</i>
10.20	Morning Tea	
10.50	Sandra Lang, Technical Director Digital Engineering, Systra	<i>Leveraging BIM for Low-Carbon Design</i>
11.20	Prof. Maksym Spiryagin, Deputy Director, Centre for Railway Engineering	<i>Digital Twin – Proof of Concept for 8-Axle Heavy Haul Battery Electric Locomotive with Energy Storage Capacity of 10 Megawatt Hours</i>
11.50	Darren Quinlivan, General Manager Risk, Metro Trains Melbourne	<i>Technology Road Map for Level Crossing Safety</i>
12.20	Lunch	
13.15	Dr Joel Ferguson, Lecturer, University of Newcastle	<i>Light-weight Sensing Unit for Real-Time Localisation and Tracking in the Rail Environment</i>
13.45	Bryony Outteridge, Principal Human Factors Advisor, Queensland Rail	<i>Human-Centred Design for Automation</i>
14.15	Brendan Morris, CEO, Denovasolve (UK)	<i>Digital Training Technologies Support Driver Competence Development, but They Offer the Industry Significantly More</i>
14.45	Afternoon Tea	
15.15	Professor Anjum Naweed, Human Factors and Operational Readiness Cluster Lead, Central Queensland University	<i>“Just right” Job Design to Mitigate Sedentary Work Risks in Rail Driving</i>
15.45	Rod Barber, Director Environment & Sustainability (Sydney Assets & Operations), Transport for New South Wales	<i>Sydney Trains’ Net Zero Emissions & Energy Efficiency Initiative</i>
16.15	KEYNOTE 3	Matt Griffin, Founder and CEO (futurist), 311 Institute (UK) <i>Tracking the Deep Future of Rail</i>
17.00	Conference closing remarks – Damien White, CEO, RISSB	
17.10	End of Technology and Innovation Conference 2023	

**For conference attendance
and sponsorship enquiries**

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