

CONNECT RAIL



5-6 August 2024 | Sofitel Sydney Wentworth

CONNECT RAIL

DAY ONE | Monday 5th August 2024

All timings are in Australian Eastern Standard Time (AEST)

CONNECT RAIL PLENARY DAY ONE

8.45 **Welcome to Country**

9.00 **OPENING** | Opening remarks from the Chair

Georgia Gosse, *Principal, Infrastructure Advisory, Aurecon*

9.10 **FEDERAL GOVERNMENT KEYNOTE**

Working with industry to manufacture the rail skills for a Future Made in Australia

Senator the Hon Tim Ayres, **Assistant Minister for Trade, Assistant Minister for Manufacturing, Australian Government**

9.40 **KEYNOTE ADDRESS** | Regulator's role in introducing new technologies, decarbonisation and automation

Dr Natalie Pelham, *Chief Executive, ONRSR*

10.10 **KEYNOTE ADDRESS** | NRAP Update

Michael Hopkins, *Chief Executive Office and Commissioner, National Transport Commission*

10.40 **Networking and refreshment break**

11.10 **PANEL DISCUSSION** | State of the Nation

Moderator: Naomi Dickinson, *Managing Director, Redding Consulting*

Ian Porter, *First Assistant Secretary, Data Research, Strategy and Net Zero, Department of Infrastructure, Transport, Regional Development, Communications and the Arts, Australian Government*

Greg Cox, *First Assistant Secretary, Commonwealth Infrastructure Projects, Department of Infrastructure, Transport, Regional Development, Communications and the Arts, Australian Government*

Darren McNamara, *Director Strategy-Freight, Transport for NSW*

Peter Papantoniou, *General Manager (Rail Infrastructure Delivery), Translink*

Dr Jim Altham, *Sustainability Coordinator, Infrastructure Planning and Land Services, Public Transport Authority of Western Australia*

12.00 **Alstom Address**

12.30 **An update on the carbon market in Australia and its economic implications**

Vivek Dhar, *Director - Mining and Energy Commodities Research, Commonwealth Bank*

13.00 **Lunch and networking break**

CONCURRENT CONFERENCE STREAMS



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TRACK 1: RAIL DECARBONISATION	TRACK 2: RAIL OPERATIONS	TRACK 3: RAIL INFRASTRUCTURE
Welcome from Chair Georgia Gosse, <i>Principal, Infrastructure Advisory, Aurecon</i>	Welcome from Chair	Welcome from Chair
14.00 An update on the safeguard mechanism Edwina Johnson, <i>Branch Head, Safeguard Mechanism and Carbon Leakage Review, Department of Climate Change, Energy, the Environment and Water</i>	14.00 AI CASE STUDY Practical uses for Artificial Intelligence in rail Mark Wood, <i>Chief Technology Officer, 4AI Systems & General Manager, Communications & Electronics, 4Tel</i>	14.00 INTERNATIONAL CASE STUDY Harnessing technology to strengthen Singapore's transport connectivity, sustainability, and inclusivity
14.30 Climate resilience: Setting the scene for the next few years Anitra Hobby, <i>ESG Principal, Pacific National</i>	14.30 Importance of operational excellence in railways and how AI can contribute Edge Pereira, <i>Associate Director, IT Strategy and Enterprise Architecture, KPMG Australia</i>	14.30 Innovation in freight management Darren McNamara, <i>Director Strategy-Freight, Transport for NSW</i>
15.00 What does Aurizon's transition to net-zero look like? Roger Buckley, <i>Fleet Decarbonisation Manager, Aurizon</i> Damien Harding, <i>Principal, Harding Innovation Consulting</i>	15.00 Meeting evolving digital data needs: Implementing digital innovation across infrastructure assets <i>Senior representative, Deloitte</i>	15.00 Quantitative assessment of visibility of locomotives Dr. Elias Kassa, <i>Principal Track Engineer, Team Leader Track Infrastructure, Monash Institute of Railway Technology</i>
15.30 CASE STUDY Understanding scope 3 emissions – Queensland Rail's findings Troy Harrison, <i>Manager Environment Strategy, Queensland Rail</i>	15.30 The future of digital engineering: Improving data management Simon Vaux, <i>CEO, DEOS Digital</i>	15.30 Intelligent infrastructure Richard Tullo, <i>Director, Asset Management & Maintenance, Network Rail Consulting</i>
16.00 Networking and refreshment break		
16.20 INTERNATIONAL KEYNOTE ADDRESS Transport for London's approach to decarbonisation, extreme weather and climate resilience Sam Longman, <i>Head of Sustainability and Corporate Environment, Transport for London</i> and <i>Deputy Chair, The London Climate Ready Partnership</i>	16.30 Digital twin implementation	16.30 PROJECT UPDATE High Speed Rail in Australia Graham Nelmes, <i>General Manager Customer, Place and Operations, High Speed Rail Authority</i>

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<p>16.50 PANEL DISCUSSION Reporting and requirements around scope 3 emissions Moderated by: Georgia Gosse, <i>Principal, Infrastructure Advisory, Aurecon</i> Troy Harrison, <i>Manager Environment Strategy, Queensland Rail</i> Mamta Shetty, <i>ESG Principal, Pacific National</i> Dr Samuel Parsons, <i>Director Environment and Sustainability, V/Line Corporation</i></p>	<p>17.00 Project update: Diagnostics of sensing and perception functions for passenger behaviour and train operations</p>	<p>17.00 INTERNATIONAL ADDRESS Unlocking the Potential of High-Speed Rail Gaku Kawabe, <i>Vice President, High Speed Rail Platform, Alstom</i></p>
<p>17.30 Closing remarks from the Chair</p>		
<p>17.35 End of Day One & Exhibition Networking Drinks</p>		
<p>CONNECT RAIL: CONFERENCE DAY TWO Tuesday 6th August 2024</p>		
<p>CONCURRENT CONFERENCE STREAMS</p>		
<p>TRACK 1: RAIL DECARBONISATION</p>	<p>TRACK 2: RAIL OPERATIONS</p>	<p>TRACK 3: RAIL INFRASTRUCTURE</p>
<p>9.00 Welcome from Chair Jane Gillespie, <i>Rail Decarbonisation Leader</i></p>	<p>9.00 Welcome from Chair</p>	<p>9.00 Welcome from Chair</p>
<p>9.05 INTERNATIONAL KEYNOTE ADDRESS Building a sustainability legacy at City Rail Link Carolyn Cox, <i>Sustainability Manager Kaiwhakahaere Rauora, City Rail Link Ltd</i></p>	<p>9.05 Smarter, safer, innovation-led rail solutions for the future Naomi Dickinson, <i>Managing Director, Redding Consulting</i></p>	<p>9.05 KEYNOTE The new rules of cyber security: Protecting digital assets and critical infrastructure projects Peter Anstee, <i>First Assistant Secretary, Cyber Security Policy Division, Department of Home Affairs</i></p>
<p>9.35 PANEL DISCUSSION Decarbonisation leaders- Strategic overview Moderated by: Jane Gillespie, <i>Rail Decarbonisation Leader</i> Brian Brennan, <i>Chief Executive Officer, Transdev Australia & New Zealand</i> Rob Ramsden, <i>Principal Energy, & Climate Change Capability, Rio Tinto</i> Joo Yin Ong, <i>Green Transport Leader, Trading & Transition, Energy Australia</i></p>	<p>9.35 CASE STUDY Safe Access for Maintenance Program Moscow Mok, <i>Associate Director, Asset Scheduling & Delivery Co-ordination, Sydney Trains</i></p> <p>10.05 PROJECT UPDATE ETCS Level 2</p>	<p>9.35 Preparing for the Security of Critical Infrastructure (SOCI) Act and navigating technology risks in a digitally connected world</p> <p>10.05 Securing the Future: Cybersecurity Innovations in Rail Transport Gursimran Tiwana, <i>Cybersecurity Manager, Alstom</i></p>



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Dean Newburn, <i>Regional Vice President Services - Asia Pacific, Wabtec Corporation</i>		
10.15 INTERNATIONAL KEYNOTE ADDRESS The European Green Deal Keir Fitch, <i>Head of Rail Safety and Interoperability Unit DG Mobility and Transport, European Commission</i>	10.35 CBTC Journey Dr Frank Heibel, <i>Director, Doc Frank Rail Services</i>	10.35 Melbourne's bigger, better trains, more often Lisa Wetuschat, <i>Director HCS Rail Systems, Major Projects, Downer</i>
10.35 Australia's pipeline to synthetic fuels in Rail Jane Gillespie, <i>Rail Decarbonisation Leader</i> Dr Amy Philbrook, <i>Hydrogen Technical Leader - Australasia, Arup</i>		
11.05 Networking and refreshment break		
11.40 Green mobility in Australia - The long and winding road to net carbon zero Ian Shore, <i>Strategy & Innovation Director, Alstom</i>	11.40 Innovation in customer mobility: Connecting communities with data-driven mobility services Brian Brennan, <i>Chief Executive Officer, Transdev Australia & New Zealand</i>	11.40 Translink - new rail projects, programs and upgrades Peter Papantoniou, <i>General Manager, Rail Infrastructure Delivery, Translink</i>
12.10 Heavy haul rail decarbonisation pathways - How do organisations choose which approach is right for them? James Stephens, <i>Manager Fleet Decarbonisation, Pacific National</i>	12.10 Pressure and airflow generated in Sydney Metro tunnels Yael Bornstein, <i>Manager Engineering, Sydney Metro Authority</i>	12.10 Targeted sweating the railway assets to improve sustainability of railways with environmental impact Professor Ravi Ravitharan, <i>Director, Monash Institute of Railway Technology</i>
12.40 Can DME Save Diesel? Frank Szanto, <i>Technical Director - Rolling Stock, Jacobs</i>	12.40 Embracing emerging technologies for a smart and sustainable future	12.40 Large language models for proactive fault detection and maintenance optimization Dominic Abraham, <i>Production Manager, Metro Trains Melbourne</i> + Najmul Qureshi, <i>Lead Data Scientist, Metro Trains Melbourne</i>
13.10 Lunch and networking break		
14.10 PANEL DISCUSSION Safety standards for new energy technology Moderated by: Senior representative, RISSB Anitra Hobby, <i>ESG Principal, Pacific National</i> Roger Buckley, <i>Fleet Decarbonisation Manager, Aurizon</i> George Sfinas, <i>Engagement Manager, Standards Australia</i>	14.10 Assessing diesel rolling stock conversion for net zero operations? Oliver Fong, <i>Technical Director - Rolling Stock Lead, VIC, Mott MacDonald</i> Jayden Thomas, <i>Rolling Stock Performance Engineer, Mott MacDonald</i>	14.10 Latest research applications in Condition-Based Maintenance and maintenance optimization

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14.50 PTA WA-Developing our 2050 net zero transition plan
Dr Jim Altham, *Sustainability Coordinator, Infrastructure Planning and Land Services, Public Transport Authority of Western Australia*

14.40 The diamond creek energy storage unit - Performance analysis
Ian Cook, *Power Modelling Manager, Metro Trains Melbourne*

14.40 Rail yard full automation - From swarm logic to AI
Kevin Lill, *Principal Optimisation, Rail Digital, Rio Tinto Iron Ore (RTIO)*

15.20 Networking and refreshment break

CONNECT RAIL PLENARY DAY TWO

16.00 INDUSTRY SPOTLIGHT PANEL: THE CHANGE MAKERS, ADOPTERS + DRIVERS

What new technologies can we expect in the next 20 years and how will we use them?

Collaboration in a time of rapid digital transformation

Kerry Maidment-Grocke, *Head of Technology Capability - Safety & Systems, ARTC*

Dr Christian Christodoulou, *Chief Engineer, Transport for NSW*

Naomi Dickinson, *Managing Director, Redding Consulting*

16.40 KEYNOTE | Pathways, projects and people: A trackside chat on what matters most

Ann Tomlinson, *Founder, Alium Works & RISSB Industry Safety Professional of the Year Winner*

Anne Modderno, *Managing Director, Swietelsky Rail Australia & 2024 Women in Industry Excellence in Transport Winner*

17.10 RSSB's Sustainable Rail Blueprint: Delivering an industry-wide sustainability strategy for rail in Great Britain

Thom Rawson, *Sustainable Rail Principal, RSSB UK*

17.40 Closing remarks from the Chair

17.45 END OF CONFERENCE



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