

# CONNECT RAIL



5-6 August 2024 | Sofitel Sydney Wentworth

## CONNECT RAIL

DAY ONE | Monday 5<sup>th</sup> August 2024

CONNECT RAIL PLENARY DAY ONE

- 8.15 Registration and morning refreshments**
- 8.45 Welcome to Country**  
**Uncle Allen Madden, Respected Gadigal Elder, Cultural Representative for the Metropolitan Local Aboriginal Land Council**
- 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 Global perspectives on the latest advancements and innovations in rail services including opportunities within the local Australian market**  
Matt Byrne, *Services Product Line President & Global D&I Lead, Alstom*
- 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 RISSB Update**  
Damien White, *CEO, RISSB*



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### 13.15 Lunch and networking break

CONCURRENT CONFERENCE STREAMS		
TRACK 1: RAIL DECARBONISATION	TRACK 2: RAIL OPERATIONS	TRACK 3: RAIL INFRASTRUCTURE
<b>Welcome from Chair</b> Georgia Gosse, <i>Principal, Infrastructure Advisory, Aurecon</i>	<b>Welcome from Chair</b>	<b>Welcome from Chair</b>
<b>14.10 An update on the safeguard mechanism</b> Edwina Johnson, <i>Branch Head, Safeguard Mechanism and Carbon Leakage Review, Department of Climate Change, Energy, the Environment and Water</i>	<b>14.10 AI CASE STUDY   Practical uses for Artificial Intelligence in rail</b> Mark Wood, <i>Chief Technology Officer, 4AI Systems &amp; General Manager, Communications &amp; Electronics, 4Tel</i> Tony Austen, <i>Locomotive Engineering Manager, Pacific National</i>	<b>14.10 INTERNATIONAL CASE STUDY   Harnessing technology to strengthen Singapore's transport connectivity, sustainability, and inclusivity</b>
<b>14.30 Climate resilience: Setting the scene for the next few years</b> Anitra Hobby, <i>ESG Principal, Pacific National</i>	<b>14.30 Rail yard full automation - From swarm logic to AI</b> Kevin Lill, <i>Principal Optimisation, Rail Digital, Rio Tinto Iron Ore (RTIO)</i>	<b>14.30 Innovation in freight management</b> Darren McNamara, <i>Director Strategy-Freight, Transport for NSW</i>
<b>15.00 What does Aurizon's transition to net-zero look like?</b> Roger Buckley, <i>Fleet Decarbonisation Manager, Aurizon</i> Damien Harding, <i>Principal, Harding Innovation Consulting</i>	<b>15.00 Importance of operational excellence in railways and how AI can contribute</b> Edge Pereira, <i>Associate Director, IT Strategy and Enterprise Architecture, KPMG Australia</i>	<b>15.00 Quantitative assessment of visibility of locomotives</b> Dr. Elias Kassa, <i>Principal Track Engineer, Team Leader Track Infrastructure, Monash Institute of Railway Technology</i>
<b>15.30 CASE STUDY   Understanding scope 3 emissions – Queensland Rail's findings</b> Troy Harrison, <i>Manager Environment Strategy, Queensland Rail</i>	<b>15.30 The future of digital engineering: Improving data management</b> Simon Vaux, <i>CEO, DEOS Digital</i>	<b>15.30 Intelligent infrastructure</b> Richard Tullo, <i>Director, Asset Management &amp; Maintenance, Network Rail Consulting</i>
<b>16.00 Networking and refreshment break</b>		
<b>16.20 INTERNATIONAL KEYNOTE ADDRESS   Transport for London's approach to decarbonisation, extreme weather and climate resilience</b> Sam Longman, <i>Head of Sustainability and Corporate Environment, Transport for London</i> and <i>Deputy Chair, The London Climate Ready Partnership</i>	<b>16.30 Digital twin implementation</b>	<b>16.30 PROJECT UPDATE   High Speed Rail in Australia</b> Graham Nelmes, <i>General Manager Customer, Place and Operations, High Speed Rail Authority</i>

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<p><b>16.50 PANEL DISCUSSION   Reporting and requirements around scope 3 emissions</b>  <b>Moderated by:</b> 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><b>17.00 Digitising project controls</b></p>	<p><b>17.00 INTERNATIONAL ADDRESS   Unlocking the Potential of High-Speed Rail</b>  Gaku Kawabe, <i>Vice President, High Speed Rail Platform, Alstom</i></p>
<p><b>17.30 Closing remarks from the Chair</b></p>		
<p><b>17.35 End of Day One &amp; Exhibition Networking Drinks</b></p>		
<p><b>CONNECT RAIL: CONFERENCE DAY TWO   Tuesday 6<sup>th</sup> August 2024</b></p>		
<p><b>8.15 Registration and morning refreshments</b></p>		
<p><b>CONCURRENT CONFERENCE STREAMS</b></p>		
<p><b>TRACK 1: RAIL DECARBONISATION</b></p>	<p><b>TRACK 2: RAIL OPERATIONS</b></p>	<p><b>TRACK 3: RAIL INFRASTRUCTURE</b></p>
<p><b>9.00 Welcome from Chair</b>  Jane Gillespie, <i>Rail Decarbonisation Leader</i></p>	<p><b>9.00 Welcome from Chair</b></p>	<p><b>9.00 Welcome from Chair</b></p>
<p><b>9.05 INTERNATIONAL KEYNOTE ADDRESS   Building a sustainability legacy at City Rail Link</b>  Carolyn Cox, <i>Sustainability Manager   Kaiwhakahaere Rauora, City Rail Link Ltd</i></p>	<p><b>9.05 Smarter, safer, innovation-led rail solutions for the future</b>  Naomi Dickinson, <i>Managing Director, Redding Consulting</i></p>	<p><b>9.05 KEYNOTE   The new rules of cyber security: Protecting digital assets and critical infrastructure projects</b>  Peter Anstee, <i>First Assistant Secretary, Cyber Security Policy Division, Department of Home Affairs</i></p>
<p><b>9.35 PANEL DISCUSSION   Decarbonisation leaders-Strategic overview</b>  <b>Moderated by:</b> Jane Gillespie, <i>Rail Decarbonisation Leader</i>  Brian Brennan, <i>Chief Executive Officer, Transdev Australia &amp; New Zealand</i>  Rob Ramsden, <i>Principal Energy, &amp; Climate Change Capability, Rio Tinto</i></p>	<p><b>9.35 CASE STUDY   Safe Access for Maintenance Program</b>  Moscow Mok, <i>Associate Director, Asset Scheduling &amp; Delivery Co-ordination, Sydney Trains</i></p>	<p><b>9.35 Preparing for the Security of Critical Infrastructure (SOCI) Act and navigating technology risks in a digitally connected world</b></p>



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<p>Joo Yin Ong, <i>Green Transport Leader, Trading &amp; Transition, Energy Australia</i> Dean Newburn, <i>Regional Vice President Services - Asia Pacific, Wabtec Corporation</i></p>	<p><b>10.05 CBTC Journey</b> Dr Frank Heibel, <i>Director, Doc Frank Rail Services</i></p>	<p><b>10.05 Securing the Future: Cybersecurity Innovations in Rail Transport</b> Gursimran Tiwana, <i>Cybersecurity Manager, Alstom</i></p>
<p><b>10.15 INTERNATIONAL KEYNOTE ADDRESS   The European Green Deal</b> Keir Fitch, <i>Head of Rail Safety and Interoperability Unit DG Mobility and Transport, European Commission</i></p>	<p align="center"><b>10.35 Networking and refreshment break</b></p>	
<p><b>11.10 Australia's pipeline to synthetic fuels in Rail</b> Jane Gillespie, <i>Rail Decarbonisation Leader</i> Dr Amy Philbrook, <i>Hydrogen Technical Leader - Australasia, Arup</i></p>	<p><b>11.10 Innovation in customer mobility: Connecting communities with data-driven mobility services</b> Brian Brennan, <i>Chief Executive Officer, Transdev Australia &amp; New Zealand</i></p>	<p><b>11.10 Melbourne's bigger, better trains, more often</b> Lisa Wetuschat, <i>Director HCS Rail Systems, Major Projects, Downer</i></p>
<p><b>11.40 Green mobility in Australia - The long and winding road to net carbon zero</b> Ian Shore, <i>Strategy &amp; Innovation Director, Alstom</i></p>	<p><b>11.40 PTA WA-Developing our 2050 net zero transition plan</b> Dr Jim Altham, <i>Sustainability Coordinator, Infrastructure Planning and Land Services, Public Transport Authority of Western Australia</i></p>	<p><b>11.40 Targeted sweating the railway assets to improve sustainability of railways with environmental impact</b> Professor Ravi Ravitharan, <i>Director, Monash Institute of Railway Technology</i></p>
<p><b>12.10 Heavy haul rail decarbonisation pathways - How do organisations choose which approach is right for them?</b> James Stephens, <i>Manager Fleet Decarbonisation, Pacific National</i></p>	<p><b>12.10 Pressure and airflow generated in Sydney Metro tunnels</b> Yael Bornstein, <i>Manager Engineering, Sydney Metro Authority</i></p>	<p><b>12.10 Assessing diesel rolling stock conversion for net zero operations?</b> Oliver Fong, <i>Technical Director - Rolling Stock Lead, VIC, Mott MacDonald</i> Jayden Thomas, <i>Rolling Stock Performance Engineer, Mott MacDonald</i></p>
<p align="center"><b>12.40 Lunch and networking break</b></p>		
<p><b>13.40 PANEL DISCUSSION   Safety standards for new energy technology</b> <b>Moderated by:</b> <i>Dr Tim Kuypers, Board Member, RISSB</i> Anitra Hobby, <i>ESG Principal, Pacific National</i> Roger Buckley, <i>Fleet Decarbonisation Manager, Aurizon</i> George Sfinas, <i>Engagement Manager, Standards Australia</i></p>	<p><b>13.40 Leveraging innovation for sustainable design</b></p>	<p><b>13.40 Large language models for proactive fault detection and maintenance optimization</b> Dominic Abraham, <i>Production Manager, Metro Trains Melbourne + Najmul Qureshi, Lead Data Scientist, Metro Trains Melbourne</i></p>

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## 14.20 Can DME Save Diesel?

Frank Szanto, *Technical Director - Rolling Stock*, **Jacobs**

## 14.20 The diamond creek energy storage unit - Performance analysis

Ian Cook, *Power Modelling Manager*, **Metro Trains Melbourne**

## 14.20 Meeting evolving digital data needs: Implementing digital innovation across infrastructure assets

*Senior representative*, **Deloitte**

14.50 Networking and refreshment break

## CONNECT RAIL PLENARY DAY TWO

### 15.30 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**

Pascal Dupond, *Managing Director*, **Alstom Australia & New Zealand**

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

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

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

### 16.10 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 Moddero, *Managing Director*, **Swietelsky Rail Australia & 2024 Women in Industry Excellence in Transport Winner**

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

Thom Rawson, *Sustainable Rail Principal*, **RSSB UK**

### 17.20 Closing remarks from the Chair

17.25 END OF CONFERENCE



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