

Briefing: Secretary
FOR INFORMATION

Post travel report: Warwick Talbot, Bangkok, Thailand



Transport
for NSW

Purpose: To report to the Secretary on Warwick Talbot as Panel Speaker at Asia Pacific Rail 2023 Conference, at the Bangkok International Trade & Exhibition Centre, from 31 May to 1 June 2023.

Analysis: Attending and being a Panel Speaker at the Asia Pacific Rail 2023 Conference, allowed Warwick Talbot to discuss success stories, challenges and implementation of key strategies that enable Sydney Trains and TfNSW to build a resilient, reliable, safe and customer-centric rail Network. It also allowed Warwick to meet leaders in the rail industry and engage with leading edge suppliers that can bring value enhancing solutions to rail operations.

Summary:

1. The Asia Pacific Rail 2023 conference is arguably one of the biggest rail conferences in the Asia Pacific region. There were more than 3,000 attendees with exhibits from 140 companies and over 100 sessions on 6 stages.
2. Sydney Trains was represented on two panels by Warwick Talbot that covered the themes of:

a) **Panel: Preparing for a predictive maintenance future**

Warwick Talbot, Deputy Executive Director-Network Growth, **Sydney Trains**
Chau-fat Chan, Assistant Director-Railways, Electrical & Mechanical Service Department, **Government of the HKSAR**
Ir. Henry Cheung, Managing Director, **KONE Elevator (Hong Kong) Ltd**
Dieter Barnard, Head of Digital Offerings - Mobility Customer Services, **Siemens Mobility**
Dr. Panadda Sheppard, Director, **National Metal and Materials Technology Center**
(Moderator)

b) **Panel: Taking metro rail projects into the digital age**

Warwick Talbot, Deputy Executive Director-Network Growth, **Sydney Trains**
Kitipat Supakleelakul, Assistant Managing Director - Maintenance Group, **BEM, Thailand**
Russell Jackson, Director, Global Transit, **AECOM**
Sponsor
Andrew Chong, Advisor, Centre for Railway Infrastructure and Engineering (CRIE),
University Tunku Abdul Rahman (UTAR) (Moderator)

3. Key observations gathered at the Conference

- a. Leaders shared similar issues such as:
 - i. Ridership slow at returning to pre-covid levels

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Deputy Executive Director
Strategy, Portfolio & Investment
Sydney Trains

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- ii. Reliable services are needed to encourage customers to use rail.
- iii. Customers are demanding more and there was an emphasis to better understand those requirements. An increase in the use of research to understand customer needs and behaviours.
- iv. Skilled labour shortages are impacting projects and operations with more needed to encourage younger people to join rail.
- v. Operating costs need to be sustainable.
- vi. Rail needs to be more agile and customer centric.
- vii. Digitisation of rail has already begun. Everyone must be on the journey

4. Transport Cluster Benefits

Key learnings and outcomes

Attending this conference coincides with the December 2022 endorsement of Warwick to the Vice Chairmanship of the International Union of Railways (UIC) Asia-Pacific Region 2023-2024 representing Sydney Trains and other Australian members in UIC. This appointment gave the opportunity to identify and meet with other railway operators and maintainers in the Asia-Pacific region that will appropriately and beneficially feed into the Sydney Trains business including TfNSW as a whole. The contacts and learnings from the Conference provide the opportunity of exchanges and mutual industry related project learnings with these railway entities in future arranged discussions.

Some of the railway entities were:

1. Indian Railways
2. Thailand State Railways
3. MTR Hong Kong
4. Singapore MTS
5. Jacobs
6. Network Rail

Communication Strategy

Warwick presented to the Strategy Portfolio & Investment Branch strategy team, and selected executives and senior managers on the Conference and has scheduled a presentation to the TfNSW UIC Community of Practice in August 2023 and is continuing to present to other people and forums as requested.

A report has been prepared for the Transport Secretary of which the content has been distributed within Sydney Trains and to the Medium-Term Integrated Rail Planning (MTIRP) on issues raised at the conference that would impact on the future of the Sydney Trains Network.

Alignment with *Future Transport 2056*

Both the Conference and the establishment of contacts benefits Sydney Trains strategic direction and aligns with Transport planning in keeping abreast of latest world industry

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trends in Rail Digitisation, Signalling and Communications, Operations, Maintenance, Asset Management and High-Speed rail.

Being on two conference panels assists in the recognition of Sydney Trains and Transport and allows influencing of rail interoperability and harmonisation outcomes aligned to Transport's future and world industry practices.

Disclosure Summary

| Date | Organisation/Individual | Purpose of Meeting |
|--------------|--|--|
| 31 May 2023 | Chadchart Sittipunt, Governor, Bangkok Metropolitan Administration | Discussed how Bangkok has dealt with and is currently dealing with funding and implementing rail projects to ease their road congestion. |
| 31 May 2023 | Sanyawit Aphichatapong, Superintending Engineer, S&T Maintenance Center, State Railway of Thailand | Explored their Traffic Management System rollout across the Thailand network, their issues and concerns. |
| 31 May 2023 | Panadda Sheppard, Principal Researcher, MTEC NSTDA | Discussed the types and level of research being undertaken in Thailand by MTEC and the level of support from Government in funding research. |
| 01 June 2023 | Dr Athaphon Kawprasert Deputy Chief, Special Project and Construction Engineer, State Railway of Thailand | Discussed UIC Asia Pacific matters |
| 31 May 2023 | Ir. Henry Cheung, Managing Director, KONE Elevator (Hong Kong) Ltd | A previous work colleague from MTRC Hong Kong and discussed the application of lifts and escalators within a rail environment and maintenance aspects. |
| 31 May 2023 | Dieter Barnard, Head of Digital Offerings - Mobility Customer Services, Siemens Mobility | Discussed the status of Siemens technology in mobility and how it was being implemented across various jurisdictions |
| 01 June 2023 | Sandeep Srivastava, Executive Director (Rolling Stock), National High Speed Rail Corporation Ltd, India Jaydeep Pawar, Chief Communications Engineer, Ministry of Railways, India | Discussed the application of different signalling technologies in India and how Indian Railways was dealing with interoperability issues with particular emphasis on the introduction of ETCS. |
| 01 June 2023 | Andrew Chong, Consultant New Business, Rail Systems, Rehau | Discussed rail systems in Singapore and the impacts from COVID. |

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| Date | Organisation/Individual | Purpose of Meeting |
|--------------|---|---|
| 01 June 2023 | Milind Nirmal, Executive Director Asia Pacific, DB Engineering & Consulting GmbH | Discussed rail construction in India region |
| 01 June 2023 | Christian Schwarz | Product demonstration of a lightweight SoniQ rail flaw detector |
| 01 June 2023 | Andrew Meyer, Senior Director Business Development, ENSCO | Discussed engineering and consultancy services ENSCO is providing in Western Australia |
| 01 June 2023 | Michael Farlie, Director Growth Sales Jacobs Rupert Leung, Senior Director Operations JACOBS Hong Kong | Discussions on services provided by Jacobs and the current state of railways in the Asia Pacific region |
| 01 June 2023 | Felicity Osborn, Programme Manager Network Rail Taron Smart, Senior Project Manager Network Rail | Discussed Network rail progress on construction and maintenance programmes in Network Rail, UK. |
| 01 June 2023 | Arthur Szynalik, Head of Business Development IN-VISION | Discussed the application and uses of AI in railways. |
| 01 June 2023 | Harald Illias, Vice President Sales NOKIA | Discussed radio communications in rail and what Singapore were doing in this respect. |
| 01 June 2023 | Hector Barrio Crespo, General Manager Ostirion | Presentation on new technology they are developing in train detection using CCTV and AI |

Next steps

Indian Railways reached out for a visit to Sydney Trains Central Terminal site and for a presentation on the Central Precinct Renewal program. This was later coordinated by The Department of Trade on 23 June 2023.

Expense Summary

Please note that airfares and accommodation were covered by Terrapin

| Breakdown of all costs incurred | Actual Cost |
|---|------------------------|
| Airfares – GL 534030 | Refunded |
| Accommodation – GL 534040 | Arranged and paid |
| Official hospitality – GL 534050 | Nil |
| Attendance fees for delegates – GL 534050 | Free as a panel member |

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|---------------------------------------|---|
| Ground transport – GL 534050 | 600 Thai Baht |
| Meals and refreshments – GL 534050 | 375 Thai Baht |
| Other miscellaneous costs – GL 534050 | Nil |
| Total | 975 Thai Baht (approx. AU\$41.70) |

Traveller endorsement

Secretary

| | | | |
|--|---|--|--|
| Warwick Talbot Deputy Executive Director Strategy, Portfolio & Investment  Date: 13 July 2023 | Neil Hazelwood A/Executive Director Strategy, Portfolio & Investment Neil Hazelwood Digitally signed by Neil Hazelwood Date: 2023.07.14 08:00:51 +10'00' Date: | Matt Longland CE Sydney Trains Matthew Longland Digitally signed by Matthew Longland Date: 2023.07.21 16:50:06 +10'00' Date: | Howard Collins A/Secretary  Noted 27/07/23 |
|--|---|--|--|

**Please send your Post Travel Report, within 28 days from travel, to the Office of the Secretary.*

Background

The event organisers for the Asia Pacific Rail 2023 Conference in Thailand, from 31May to 1 June 2023, Terrapinn Pte Ltd, invited Mr Talbot to be a panel speaker for the conference on "Digital Rail" and "Operations, Maintenance and Asset Management" on day one and day two of the conference.

Approval for Mr. Talbot to attend the conference was obtain on 23 January 2023 from the Transport Secretary and Minister for Transport.

Attachments

| Attachment | Title |
|------------|-------------------|
| A | Conference Agenda |

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Attachment A – Conference Agenda

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Sydney Trains

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25th Asia Pacific

The logo for APRAIL features a stylized yellow circular emblem on the left. The emblem is composed of several thick yellow lines that form a shape resembling a hand or a stylized 'A' within a circle. To the right of this emblem, the word 'RAIL' is written in large, bold, red capital letters. The 'R' and 'A' are particularly prominent, with the 'A' having a unique, rounded shape. The 'I' is a simple vertical bar, and the 'L' is a horizontal bar with a small yellow dot at its top right corner.

RAIL

May 31st & June 1st
Bangkok International Trade & Exhibition Centre,
Bangkok

2023 PRELIMINARY AGENDA

Confirmed Speakers:

1. **Chadchart Sittipunt**, Governor, **Bangkok Metropolitan Administration**
2. **Chua Chong Kheng**, Deputy Chief Executive – Infrastructure and Development, **Land Transport Authority, Singapore**
3. **Sumit Srisantithum**, Chief Operating Officer, **Bangkok Mass Transit System Co. Ltd, Thailand**
4. **TC Chew**, Global Rail Business Leader, **Arup**
5. **Andrea Guiricin**, CEO, **TRA Consulting**
6. **Devin Pranata**, General Manager, Property & Non Farebox Business, **PT Kereta Cepat Indonesia China**
7. **Kazue Yasuoka**, General Manager, Head of Overseas Business Division of E-SIO, **East Japan Railway Company**
8. **Tayakorn Chandrangsu**, Director of Safety and Maintenance Standards Division, **Department of Rail Transport, Thailand**
9. **Sara Cheung**, Managing Director, **Asia Era One Co. Ltd**
10. **Mark Ille**, Office Control Center Referent, **Egis**
11. **Wei Zhao**, Senior Design Engineer, **Beijing HollySys Co. Ltd**
12. Senior representative, **NGRT**
13. **Wilson Ho**, Director, **Jabez Innovation Limited**
14. **Ruengdej Mangkorndejsakul**, Director of Strategic and Planning Division, **Department of Rail Transport(DRT)**
15. **Noormah Mohd Noor**, Chief Executive Officer, **Express Rail Link, Malaysia**
16. **Minh Ha Truong**, Regional Director- Vietnam, Cambodia, Laos & Myanmar, **BPC**
17. **Tongkarn Kaewchalermtong**, Chairman of Transportation & Logistics Working Group, **ASEAN Federation of Engineering Organization (AFEO)**
18. **Sanyawit Aphichatapong**, Superintending Engineer, S&T Maintenance Center, **State Railway of Thailand**
19. **Yanto Yulianto**, Head of Information System and Technology Division, **PT MRT Jakarta**
20. **Jackie Miao**, Director of Huawei Asia Pacific Enterprise Transportation Account Department, **Huawei**
21. **Kristianto Usman**, Researcher- Railway Infrastructure Risk, Asset & Investment Management, **University of Birmingham**
22. **Warwick Talbot**, Deputy Executive Director- Network Growth, **Sydney Trains**
23. **Chau-fat Chan**, Assistant Director-Railways, Electrical & Mechanical Service Department, **Government of the HKSAR**
24. **Ir. Henry Cheung**, Managing Director, **KONE Elevator (Hong Kong) Ltd**
25. **Dieter Barnard**, Head of Digital Offerings - Mobility Customer Services, **Siemens Mobility**
26. **Dr. Panadda Sheppard**, Director, **National Metal and Materials Technology Center**
27. **Sandeep Srivastava**, Executive Director (Rolling Stock), **National High Speed Rail Corporation Ltd, India**
28. **Anan Phonimdang**, Deputy Governor, **State Railway of Thailand(SRT)**
29. **Stefan Reisacher**, Chief Executive Officer, **Linxon**
30. **Klaus Daniel,Heine**, Senior Consultant Maintenance & Rolling Stock, **DB E.C.O Group**
31. **Chanin Khaochan**, Deputy Secretary General, **Thailand Board of Investment (BOI)**
32. **Mark Kirkpatrick**, Chief Executive Officer, **Rail First Asset Management**
33. **Henri Pottier**, Vice President Asia Pacific, **RATP Dev**
34. **Dr Harm Hauke Ross**, Director Mobility Aviation & Land-based Transportation, **KfW IPEX-Bank**
35. **Toby Tiberghien**, Managing Director, East Asia, **Alstom**
36. **Li Junfeng**, Corporate Vice President, CEO of Aviation & Rail BU, **Huawei Enterprise BG**
37. **Dr. Santi Charoenpornpattana**, President, **RTRDA(Rail Technology Research and Development Agency, Ministry of Transport, Thailand**
38. **Dr. Anaphat Manovachirasan**, Head of Planning and Performance, **Asia Era One Co. Ltd**
39. **Dr.Natthaporn Buaphut**, Plan and Policy Analyst-Senior Professional Level, **Department of Rail Transport, Thailand**
40. **Timothy Leake**, Thailand Manager, **Royal Railway Cambodia**
41. **Auer Florian**, Director of Technology & Innovation, **Plasser & Theurer Export von Bahnbaumaschinen Gesellschaft m.b.H.**
42. **Eddy Thésée**, Vice President of Cybersecurity Products and Solutions, **Alstom**
43. **Stephanie JOUDRIER**, Solution Product Line Manager, **Thales**

44. **Andrew Went**, Global High Speed Rail Leader, **Arup**
45. **Shao Fei Huang**, Group Chief Information Security Officer, **SMRT Corporation, Singapore**
46. **Rangga Dharmasetiawan**, GM Information Technology, **LRT Jakarta**
47. **Zoran Memic**, Cyber Security Business Developer, **Siemens Mobility**

48. **Michael Lagana**, Principal Solutions Engineer, **Claroty**
49. **Chayakorn Netramai**, Lecturer, **King Mongkut's University of Technology North Bangkok (KMUTNB)**
50. **Gaurav Agarwal**, Chief Project Manager, **COFMOW, Ministry of Railways, India**
51. **Lloyd D'cruz**, Director, More Trains More Services, **Sydney Trains**
52. **Roland Stadlbauer**, Head of Product Policy Train Control, **Thales**
53. **Jirawat Jungwat**, Founder & Admin, **Thailand Infrastructure**
54. **Muhammad Effendi**, Operations & Maintenance Director, **MRT Jakarta, Indonesia**
55. **Gareth Evans**, Head of Rail Technology, **Network Rail**
56. **Rolando J. Paulino III**, Chief Operations Officer, **Light Rail Manila Corporation (LRMC), Philippines**
57. **Mohamed Suhaimi Yaacob**, Chief Corporate Officer, **Keretapi Tanah Melayu Berhad**
58. **Dr. Watchara Sattayaprasert**, Lecturer, Head of Transportation & Survey Engineering Field, **Mahanakorn University of Technology (MUT)**
59. **Ezri Ezani bin Abu**, Principal Assistant Director- Rail Planning Division, **Agensi Pengangkutan Awam Darat (APAD), Malaysia**
60. **Arezki Touat**, ASIA Vice President, **SYSTRA**
61. **Tayakorn Chandrangsui**, Director of Safety and Maintenance Standards Division, **Department of Rail Transport**
62. **Jeffrey Sim**, Group Chief Executive Officer, **SBS Transit Ltd, Singapore**
63. **Kristoffer Tamsons**, Chairman, **Stockholm Public Transport**
64. **Jeny Yeung**, Hong Kong Transport Services Director, **MTR Corporation, Hong Kong**
65. **Nor Azmi Mohd Yusof**, Chief Operating Officer, LRT, **Rapid Rail, Malaysia**
66. **Young Ji Kim**, Strategic Consulting Lead, Asia, **Jacobs**
67. **Ian TSUI**, APAC Regional Director – Brakes & Safety, **Wabtec Corporation**
68. **Yang Hongxiang**, General Manager of Overseas Engineering Department, **Beijing HollySys Co. Ltd**
69. **Leck Hwee Joo**, Engineering Manager, **SBS Transit Rail**
70. **Leroy Lee**, Head of Technical Bid APAC, **RATP Dev**
71. **Rattapoom Parichatprecha**, Head of Rail and Infrastructure Research Center, Director of EIDTs, **KMITL**
72. **Seno Hardijanto**, Director ASEAN & Indonesia, **Cohesive**
73. **Ken Garmson**, Inventor and Chief Technology Officer, **Acorn Technology Systems**
74. **Jeffrey Nicholls**, Product Development Engineer, **Acorn Technology Systems**
75. **Crystal Mak**, Sales Manager South East Asia, **Thales**
76. **Jess Yuen**, Head of Projects and Customer Services, Revenue Collection System, **Thales**
77. **Ditsapol Padungkul**, Senior Committee, **Thai Railway Engineering Association**
78. **Jeh Chan**, Technical Director-Transport Planning, **Jacobs**
79. **Hye Young Kim**, Head of Smart City Innovation Group, **Hyundai Motor Group**
80. **Cheng-Chiou Chang**, Deputy Chairman, Intelligent Railway Committee, **ITS Taiwan**
81. **Paul Chan**, R&D Director, **Roctec Technology**
82. **Dr. Kritsada Mongkoldee**, Assistant Dean for Strategic Planning and International Relations, Faculty of Railway Systems and Transportation, **Rajamangala University of Technology Isan**
83. **Felicity Osborn**, Programme Manager-International Research & Development Partnerships, **Network Rail**
84. **Phuritath Phanitphotjamarn**, Director - M&E Maintenance Department, **BEM, Thailand**
85. **Ashutosh Gangal**, Former General Manager- Northern Railway, **Indian Railways**
86. **Hamdalah Hazhar**, Railway Operation Division Head, **MRT Jakarta**
87. **Febi Johan Supriyadi**, VP Industrial Ecosystem & Investment Development, **PT Len Industri**
88. **Kitipat Supakleelakul**, Assistant Managing Director - Maintenance Group, **BEM, Thailand**
89. **Russell Jackson**, Director, Global Transit, **AECOM**
90. **Andrew Chong**, Advisor, Centre for Railway Infrastructure and Engineering (CRIE), **Universiti Tunku Abdul Rahman (UTAR)**
91. **Sinead Giblin**, Vice President & General Manager, People & Places Solutions Asia, **Jacobs**
92. **Jessica Chan**, Head of Sustainability, **MTR Corporation, Hong Kong**

93. **Sapna Bhawnani**, Vice President, Communications & Corporate Social Responsibility, Asia Pacific, **Alstom**
94. **Alok Jain**, CEO, **Trans-Consult**
95. **Leow Wee Lee**, VP of Signal & Communications, **SMRT Corporation**

96. **Yu Feng Tang**, Director Urban Rail Signaling, **Thales GTS**
97. **Ming Jiang**, Deputy Chief Engineer, **China Railway Signal & Communication Corporation Ltd**
98. **Patrick Desforges**, Business Development Director APAC, **SYSTRA**
99. **Woon Khai Jhin**, Assistant Engineering Manager, **SBS Transit Rail**
100. **Paul Chua**, Deputy Administrator- Operations & Engineering, **Light Rail Transit Authority, Philippines**
101. **Kiendy Sunarto**, Engineering & Commissioning Project Manager, **LRT Jakarta, Indonesia**
102. **Prangprom Rattana**, Investment Promotion Officer, **Board of Investments, Thailand**
103. **Josefino Santiago**, Senior Advisor- Systems Maintenance, **RATP Dev**
104. **Sylvia Koh-Gratton**, Managing Director, **KONE Singapore**
105. **Anshul Gupta**, Former General Manager-Northern Railway, **Indian Railways**
106. **Gabi Mason**, Services Growth Director, **Alstom**
107. **Jerawun Hongsakul**, Director of Rail Transport Regulation Division, **Department of Rail Transport, Thailand**
108. **Shaun Liew**, Vice-President, Head of Customer Experience and Operations for North-East Line and Sengkang-Punggol LRT, **SBS Transit Ltd, Singapore**
109. **Calin Hera**, Business Development Manager, **KONE**
110. **Steven Xiong**, CTO of Rail Industry, **Huawei Enterprise BG**
111. **Dr. Sarit Tiyawongsuwan**, Lecturer and Researcher, **Rajamangala University of Technology**
112. **Jaydeep Pawar**, Chief Communications Engineer, **Ministry of Railways, India**
113. **Yohann Levasseur**, Turnkey & Rolling Stock Director, East Asia and Country Managing Director, Thailand, **Alstom**
114. **Erni Basri**, Director-Safety Railway, **Ministry of Transportation, Indonesia**
115. **Deovanni Miranda**, Deputy Project Manager, **Department of Transportation, Philippines (tentative)**
116. **Nirdosh Gupta**, Jt Chief Engineer, **Uttar Pradesh Metro Rail Corporation**
117. **Dr. Chaisak Srisethanil**, CEO, **BTS Infrastructure Development Co. Ltd.**
118. **Christopher Crawford**, Transportation Industry Director, **Waterfall Security Solutions**
119. **Dieter Michell-Auli**, Executive Board Member of Deutsche Bahn & VP Global Sales, **DB E.C.O Group**
120. **Jeremy Haskey**, Connectivity & Services Solution Director, **Alstom**
121. **Manpreet Mann**, Rail Systems Lead, **Arup**
122. **Deven Mukherjee**, National Sales Manager-APAC Region, **Omni-X**
123. **Michael Field**, Sales Director ANZ & SE Asia, **Wabtec Corporation**
124. **Vincy Wang**, Senior representative, **Shenyang Yuancheng Friction & Sealing Material Co.,Ltd**
125. **Walaiporn Leelawanee**, Head of Signalling & Infrastructure and Site Managing Director, Bangkok, **Alstom**
126. **Tommy Vongpathoum**, Systems Validation Engineer/ Partner, **ATS American Traction Systems, Inc**
127. **Eyal Trichter**, CEO, **Tri Logical Technologies**
128. **Hendrik Holz**, Sales Director, **Funwerk Systems GmbH**
129. **Pan Xueming**, Senior Design Engineer, **Beijing HollySys Co. Ltd**
130. **Yuan Suoxia**, General Manager, **China Railway Engineering Equipment Group Co. Ltd, Singapore Branch**
131. **Yasir Shah**, Global Sales Manager, Rail, **Linxon**
132. **Jochen Nowotny**, Managing Director, **Track Machines Connected Gesellschaft m.b.H.**
133. **Joachim Heinzelmann**, Sales Director Rail, **Diehl Aviation Gilching GmbH**
134. **Kevin Liu**, Rolling Stock & Infrastructure Director, **TÜV NORD**
135. **Alberto Lanzoni**, Area Sales Manager, **MAURER SPS GmbH**
136. **Mark Carling**, Managing Director - Australia and Asia Pacific, **Unipart Group**
137. **Sumet Ongkittikul**, Research Director for Transportation and Logistics Policy, **Thailand Development Research Institute**
138. **Naruecha Srivirach**, General Manager, **GERB (Thailand) Co. Ltd**
139. **Perry Yang**, Technical Engineer, **Kyland Technology Co. Ltd.**
140. **Fang Xin**, Area Sales Manager- Asia Pacific, **Getzner Werkstoffe**
141. **Pearly Liew**, Regional Business Development Manager, **Gutor**

- 142. **Agostino Marioni**, Chairman, **Hirun International**
- 143. **Anuraag Bhatnagar**, CEO, **Intellistride Technologies**
- 144. **Karl-Stephan Schneider**, Managing Director, **Schrey & Veit**

145. **Christian Schwarz**, International Sales Manager, **Vossloh Rail Services GmbH**
 146. **Heike Mühmel**, Project Engineer, **Vossloh Rail Inspection GmbH**
 147. **Ben Craze**, CEO, **Infinitive Group**
 148. **Anat Hasap**, Director of Railway Transportation System Testing Center (RTTC), **Thailand Institute of Scientific and Technological Research (TISTR)**
 149. **Cheng Dejie**, Director of Huawei Asia Pacific Enterprise Transportation Railway Solution, **Huawei**
 150. **Ravi Raj**, Assistant Vice President, **ADJ Engineering Pvt Ltd**
 151. **Yuji Sakamoto**, Senior Business Manager, **Mitsubishi Heavy Industries**
 152. **Junjie Xiong**, Vice President & Chairman Assistant, **Shenhao Technology**
 153. **Leung Chi Wai**, System Manager, **Roctec Technology**
 154. **Dr. Sanphawat Jatupatwarangkul**, Head of Standard and Executive Committee, **Thai BIM Association**
 155. **Mike Taylor**, Global Head of Rail Systems and Systems Engineering, **AECOM**
 156. **ST Poh**, Senior Vice President, Head of Rail and Transit, Asia, **AECOM**

**DAY 1 – WEDNESDAY, MAY 31st
2023**

| | |
|-------|---|
| 09:00 | <p>Organiser Welcome Remarks</p> <p>Paul Clark, Managing Director – Asia, Terrapinn</p> |
| 09:15 | <p><u>Guest of Honour Welcome Address</u></p> <p>Chadchart Sittipunt, Governor, Bangkok Metropolitan Administration</p> |
| 09:30 | <p><u>Insights from the Boardroom: Keynote Rail Leader Interviews</u> (3 x 10 mins interviews with C-Level rail operators)</p> <p>Chua Chong Kheng, Deputy Chief Executive – Infrastructure and Development, Land Transport Authority, Singapore Sumit Srisantithum, Chief Operating Officer, Bangkok Mass Transit System Co. Ltd, Thailand Jeny Yeung, Hong Kong Transport Services Director, MTR Corporation, Hong Kong</p> <p>TC Chew, Global Rail Leader, Arup (Interviewer)</p> |

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| 10:15 | Keynote Panel: <u>Success Stories, Challenges & Implementations – The Role of Digitization, Decarbonization & Operational Optimization in Rail</u> Chua Chong Kheng , Deputy Chief Executive – Infrastructure and Development, Land Transport Authority, Singapore Sumit Srisantithum , Chief Operating Officer, Bangkok Mass Transit System Co. Ltd, Thailand Jeny Yeung , Hong Kong Transport Services Director, MTR Corporation, Hong Kong TC Chew , Global Rail Leader, Arup (Moderator) | | | |
| 11:00 | Refreshments & Exhibition Visit | | | |
| | DIGITAL RAIL | SIGNALLING & COMMUNICATIONS | OPERATIONS, MAINTENANCE & ASSET MANAGEMENT | MAINLINE |
| | INTERMODAL RAIL | CRITICAL CONTROL | MAINTENANCE MANAGEMENT AND SYSTEM IMPROVEMENT | HIGHSPEED RAIL IN ASIA Chairperson: Andrea Guiricin , CEO, TRA Consulting |
| 11:30 | An intermodal transport future for Asia: Building rail into the broader transport ecosystem Devin Pranata , General Manager, Property & Non Farebox Business, PT Kereta Cepat Indonesia China | Best practices in effective signaling and communications Kazue Yasuoka , General Manager, Head of Overseas Business Division of E-SIO, East Japan Railway Company | From CBM to predictive maintenance: Embracing the maintenance shift Tayakorn Chandrangsou , Director of Safety and Maintenance Standards Division, Department of Rail Transport, Thailand | Planning for optimization of fare and non fare revenue for high speed rail Sara Cheung , Managing Director, Asia Era One Co. Ltd |
| 11:50 | Optimizing operational control center reactions using artificial intelligence – big data, machine learning Mark Ille , Operation Control Center Expert, Egis | Cost efficient solutions for signaling refurbishment Wei Zhao , Senior Design Engineer, Beijing HollySys Co. Ltd | Focus on Indian Railways: Moving to predictive maintenance of rolling stock using trackside equipment Ashutosh Gangal , Former General Manager, Indian Railways | Corrugation control of high speed rail by retrofit rail damper Wilson Ho , Director, Jabez Innovation Limited |

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| 12.10 | <p>Panel: Challenges, opportunities and latest trends in intermodal rail projects</p> <p>Ruengdej Mangkorndejsakul, Director of Strategic and Planning Division, Department of Rail Transport(DRT) Noormah Mohd Noor, Chief Executive Officer, Express Rail Link, Malaysia Minh Ha Truong, Regional Director- Vietnam, Cambodia, Laos & Myanmar, BPC</p> <p>Tongkarn Kaewchalermtong, Chairman of Transportation & Logistics Working Group, ASEAN Federation of Engineering Organization (AFEO) (Moderator)</p> | <p>Panel: Planning ahead for the adoption of FRMCS (Future Railway Mobile Communication Systems)</p> <p>Sanyawit Aphichatapong, Superintending Engineer, S&T Maintenance Center, State Railway of Thailand Yanto Yulianto, Head of Information System and Technology Division, PT MRT Jakarta Jackie Miao, Director of Huawei Asia Pacific Enterprise Transportation Account Department, Huawei</p> <p>Febi Johan Supriyadi, VP Industrial Ecosystem & Investment Development, PT Len Industri (Moderator)</p> | <p>Panel: Preparing for a predictive maintenance future</p> <p>Warwick Talbot, Deputy Executive Director-Network Growth, Sydney Trains Chau-fat Chan, Assistant Director- Railways, Electrical & Mechanical Service Department, Government of the HKSAR Ir. Henry Cheung, Managing Director, KONE Elevator (Hong Kong) Ltd Dieter Barnard, Head of Digital Offerings - Mobility Customer Services, Siemens Mobility</p> <p>Dr. Panadda Sheppard, Director, National Metal and Materials Technology Center (Moderator)</p> | <p>Panel: The future of HSR in Asia- current status, progress updates & future outlook</p> <p>Sandeep Srivastava, Executive Director (Rolling Stock), National High Speed Rail Corporation Ltd, India Anan Phonim dang, Deputy Governor, State Railway of Thailand(SRT) Stefan Reisacher, Chief Executive Officer, Linxon Dieter Michell-Auli, Executive Board Member of Deutsche Bahn & VP Global Sales, DB E.C.O Group</p> <p>Andrea Guiricin, CEO, TRA Consulting (Moderator)</p> |
| 12:50 | Networking Lunch & Exhibition Visit | | | |
| 14:00 | <p>Keynote Panel:</p> <p style="text-align: center;"><u>Financing Asia's Rail Future: Innovative and Resilient Finance Models</u></p> <p>Mark Kirkpatrick, Chief Executive Officer, Rail First Asset Management Henri Pottier, Vice President Asia Pacific, RATP Dev Jeffrey Sim, Group Chief Executive Officer, SBS Transit Ltd, Singapore Chanin Khaochan, Deputy Secretary General, Thailand Board of Investment (BOI)</p> <p>Dr Harm Hauke Ross, Director Mobility Aviation & Land-based Transportation , KfW IPEX-Bank (Moderator)</p> | | | |
| 14:40 | <p>The future of mobility- The path to net zero rail</p> <p>Toby Tiberghien, Managing Director, East Asia, Alstom</p> | | | |
| 15:00 | <p>Driving digitalization in future rail, create new value together</p> <p>Li Junfeng, Corporate Vice President, CEO of Aviation & Rail BU, Huawei Enterprise BG</p> | | | |

15:20

**Refreshments &
Exhibition Visit**

| | DIGITAL RAIL | SIGNALLING & COMMUNICATIONS | OPERATIONS, MAINTENANCE & ASSET MANAGEMENT | MAINLINE |
|-------|---|--|---|--|
| | CYBERSECURITY | DIGITAL & DRIVERLESS | OPERATIONAL EXCELLENCE | PROJECT UPDATES Chairperson: Patrick Desforges, BDD APAC, SYSTRA |
| 15:40 | <p>Integration of cybersecurity into the railway lifecycle</p> <p>Dr. Pipatphon Lapamonpinyo, Lecturer & Hugh Hunter, Lecturer, Mahidol University</p> | <p>Moving ahead with driverless trains and Automated Train Operations (ATO)</p> <p>Dr. Santi Charoenpornpattana, President, RTRDA(Rail Technology Research and Development Agency, Ministry of Transport, Thailand)</p> | <p>Planning for performances</p> <p>Dr. Anaphat Manovachirasan, Head of Planning and Performance, Asia Era One Co. Ltd</p> | <p><u>Thailand</u></p> <p>Dr. Natthaporn Buaphut, Plan and Policy Analyst-Senior Professional Level, Department of Rail Transport, Thailand</p> |
| 16:00 | <p>Rail cybersecurity practice for standardisation and supply chain management</p> <p>Eddy Thésée, Vice President of Cybersecurity Products and Solutions, Alstom</p> | <p>The digital journey of integrated solutions for OCCs</p> <p>Stephanie JOUDRIER, Solution Product Line Manager, Thales</p> | <p>Achieving excellence in high-speed networks</p> <p>Andrew Went, Global High Speed Rail Leader, Arup</p> | <p><u>Malaysia</u></p> <p>Ezri Ezani bin Abu, Principal Assistant Director- Rail Planning Division, Agensi Pengangkutan Awam Darat (APAD), Malaysia</p> |
| 16:20 | <p><u>Panel: Cybersecurity as a joint responsibility: How can the railway sector collaborate to strengthen cybersecurity?</u></p> <p>Shao Fei Huang, Group Chief Information Security Officer, SMRT Corporation, Singapore</p> <p>Rangga Dharmasetiawan, GM Information Technology, LRT Jakarta</p> <p>Zoran Memic, Cyber Security Business Developer, Siemens Mobility</p> <p>Michael Lagana, Principal Solutions Engineer, Claroty</p> <p>Chayakorn Netramai, Lecturer, King</p> | <p><u>Panel: What's driving driverless trains?</u></p> <p>Gaurav Agarwal, Chief Project Manager, COFMOW, Ministry of Railways, India</p> <p>Lloyd D'cruz, Director, More Trains More Services, Sydney Trains</p> <p>Roland Stadlbauer, Head of Product Policy Train Control, Thales</p> <p>Jirawat Jungwat, Founder & Admin, Thailand Infrastructure (Moderator)</p> | <p><u>Panel: Ensuring overall rail operational reliability: People, Processes, Products</u></p> <p>Gareth Evans, Head of Rail Technology, Network Rail</p> <p>Rolando J. Paulino III, Chief Operations Officer, Light Rail Manila Corporation (LRMC), Philippines</p> <p>Mohamed Suhaimi Yaacob, Chief Corporate Officer, Keretapi Tanah Melayu Berhad</p> <p>Dr. Watchara Sattayaprasert, Lecturer, Head of Transportation & Survey</p> | <p><u>Digital end to end innovations for mainline</u></p> <p>Auer Florian, Director of Technology & Innovation, Plasser & Theurer Export von Bahnbaumaschinen Gesellschaft m.b.H.</p> <p><u>Train-borne high speed trackside infrastructure point cloud monitoring system</u></p> <p>Chau-fat Chan, Assistant Director-Railways, Electrical & Mechanical Service Department, Government of the HKSAR</p> |

**Mongkut's University of Technology
North Bangkok (KMUTNB)** (Moderator)

Engineering Field, **Mahanakorn
University of Technology (MUT)**
(Moderator)

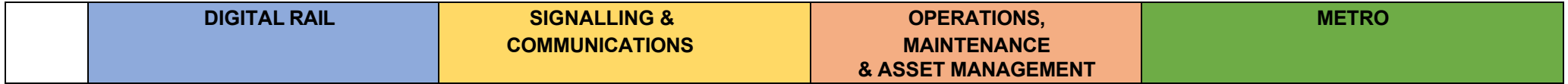
**Regulation to attract private
investment in the railway sector**

**Andrea Guiricin, CEO, TRA
Consulting**

END OF DAY 1

DAY 2 – THURSDAY, JUNE 1st
2023

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| 08:50 | Organiser's Welcome Remarks Paul Clark, Managing Director – Asia, Terrapinn |
| 08:55 | Chairperson's Opening Remarks Arezki Touat, ASIA Vice President, SYSTRA |
| 09:00 | <u>Keynote Presentation</u> <u>Railway 4.0 – Latest Innovations in Rail Transportation Systems</u> Tayakorn Chandrangsue, Director of Safety and Maintenance Standards Division, Department of Rail Transport, Thailand |
| 09:20 | <u>Keynote Panel:</u> <u>Key Strategies to Build a Resilient, Reliable, Safe and Customer-Centric Rail System</u> Jeffrey Sim, Group Chief Executive Officer, SBS Transit Ltd, Singapore Kristoffer Tamsons, Chairman, Stockholm Public Transport Jeny Yeung, Hong Kong Transport Services Director, MTR Corporation, Hong Kong Nor Azmi Mohd Yusof, Chief Operating Officer, LRT, Rapid Rail, Malaysia Young Ji Kim, Strategic Consulting Lead, Asia, Jacobs (Moderator) |
| 10:00 | Digital and sustainable rolling stock Ian TSUI, APAC Regional Director – Brakes & Safety, Wabtec Corporation |
| 10:20 | Driving force and opportunities on railway signalling modernization Yang Hongxiang, General Manager of Overseas Engineering Department, Beijing HollySys Co. Ltd |
| 10.40 | Refreshments & Exhibition Visit |



| | DIGITIZING RAIL SYSTEMS | OPERATOR SIGNALLING SHOWCASE | ASSET RENEWAL & ROLLING STOCK | A DIGITAL METRO FUTURE |
|-------|--|--|---|--|
| 11:20 | <p>Rail digitalization: Improving maintenance performance with data analytics</p> <p>Leck Hwee Joo, Engineering Manager, SBS Transit Rail</p> | <p>Next generation railway signalling systems</p> <p>Leroy Lee, Head of Technical Bid APAC, RATP Dev</p> | <p>Application of Digital Twin Technology for Mega Move of Box Girders: Thailand HSR North Eastern Line Project</p> <p>Rattapoom Parichatprecha, Head of Rail and Infrastructure Research Center, Director of EIDTs, KMITL</p> | <p>From Suvarnabhumi Airport automated people mover to the feeder system for metro</p> <p>Ditsapol Padungkul, Senior Committee, Thai Railway Engineering Association</p> |
| 11:40 | <p>Intelligent rail management through digital innovations</p> <p>Seno Hardijanto, Director ASEAN & Indonesia, Cohesive</p> | <p>Transit technology systems for the digital age</p> <p>Ken Garmson, Inventor and Chief Technology Officer & Jeffrey Nicholls, Product Development Engineer, Acorn Technology Systems</p> | <p>Handling asset replacement to improve service operations</p> <p>Crystal Mak, Sales Manager South East Asia & Jess Yuen, Head of Projects and Customer Services, Revenue Collection System, Thales</p> | <p>On-demand shared autonomous electric mobility for first and last mile connectivity to urban rail</p> <p>Jeh Chan, Technical Director-Transport Planning, Jacobs & Hye Young Kim, Head of Smart City Innovation Group, Hyundai Motor Group</p> |

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|--------------|---|---|--|--|
| <p>12.00</p> | <p>Panel: The Internet of Trains (IoT) and how this will impact rail in the future</p> <p>Cheng-Chiou Chang, Deputy Chairman, Intelligent Railway Committee, ITS Taiwan</p> <p>Lloyd D'cruz, Director, More Trains More Services, Sydney Trains</p> <p>Paul Chan, R&D Director, Roctec Technology</p> <p>Dr. Kritsada Mongkoldee, Assistant Dean for Strategic Planning and International Relations, Faculty of Railway Systems and Transportation, Rajamangala University of Technology Isan (Moderator)</p> | <p>Network Rail- Unlocking Potential for a Better Railway</p> <p>Gareth Evans, Head of Rail Technology & Felicity Osborn, Programme Manager-International Research & Development Partnerships, Network Rail</p> | <p>Panel: Getting your asset lifecycle management strategy right</p> <p>Phuritath Phanitphotjamarn, Director - M&E Maintenance Department, BEM, Thailand</p> <p>Ashutosh Gangal, Former General Manager- Northern Railway, Indian Railways</p> <p>Hamdalah Hazhar, Railway Operation Division Head, MRT Jakarta</p> <p>Kristianto Usman, Researcher- Railway Infrastructure Risk, Asset & Investment Management, University of Birmingham (Moderator)</p> | <p>Panel: Taking metro rail projects into the digital age</p> <p>Warwick Talbot, Deputy Executive Director- Network Growth, Sydney Trains</p> <p>Kitipat Supakleelakul, Assistant Managing Director - Maintenance Group, BEM, Thailand</p> <p>Russell Jackson, Director, Global Transit, AECOM Sponsor</p> <p>Andrew Chong, Advisor, Centre for Railway Infrastructure and Engineering (CRIE), Universiti Tunku Abdul Rahman (UTAR) (Moderator)</p> |
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|-------|--|--|--|---|
| 12:40 | Networking Lunch & Exhibition Visit | | | |
| 14:00 | Keynote Panel: <p style="text-align: center;"><u>Environmental, Social & Governance (ESG): A Roadmap to Rail Sustainability & Net- Zero Rail</u></p> <p>Sinead Giblin, Vice President & General Manager, People & Places Solutions Asia, Jacobs Noormah Mohd Noor, Chief Executive Officer, Express Rail Link, Malaysia Jessica Chan, Head of Sustainability, MTR Corporation, Hong Kong Sapna Bhawnani, Vice President, Communications & Corporate Social Responsibility, Asia Pacific, Alstom</p> <p>Alok Jain, CEO, Trans-Consult (Moderator)</p> | | | |
| 14:40 | Best Practices Learned for NSEW CBTC Re-signaling: During Re-signaling and After Revenue Leow Wee Lee , VP of Signal & Communications, SMRT Corporation Yu Feng Tang , Director Urban Rail Signaling, Thales GTS | | | |
| 15:00 | Systematic standards guide development of China's train control industry Ming Jiang , Deputy Chief Engineer, China Railway Signal & Communication Corporation Ltd | | | |
| 15:20 | Refreshments & Exhibition Visit | | | |
| | DIGITAL RAIL | SIGNALLING & COMMUNICATIONS | OPERATIONS, MAINTENANCE & ASSET MANAGEMENT | METRO |
| | PASSENGER FLOW & CROWD CONTROL | UPGRADING & RESIGNALLING | FUTURE O&M | PROJECT UPDATES |
| 15:40 | Incentives for railway system investment and digitalization Prangprom Rattana , Investment Promotion Officer, Board of Investments, Thailand | Switchover from an existing to a new signaling system – Operator Case Study Josefino Santiago , Senior Advisor-Systems Maintenance, RATP Dev | Technology and data-driven maintenance for permanent ways Woon Khai Jhin , Assistant Engineering Manager, SBS Transit Rail | <u>Philippines</u> Paul Chua , Deputy Administrator-Operations & Engineering, Light Rail Transit Authority, Philippines |

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| 16:00 | Digital innovations for passenger flow solutions in stations | Upgrading train control and operations through intelligent railway control and command signalling systems | Long term service support – co-operation between asset owners and OEMs | <u>Indonesia</u> |
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|-------|---|---|---|---|
| | Sylvia Koh-Gratton , Managing Director, KONE Singapore | Anshul Gupta , Former General Manager-Northern Railway, Indian Railways | Gabi Mason , Services Growth Director, Alstom | Kiendy Sunarto , Engineering & Commissioning Project Manager, LRT Jakarta, Indonesia |
| 16:20 | <p>Panel: Innovative train stations for enhanced passenger experience and crowd control</p> <p>Jerawun Hongsakul, Director of Rail Transport Regulation Division, Department of Rail Transport, Thailand</p> <p>Shaun Liew, Vice-President, Head of Customer Experience and Operations for North-East Line and Sengkang-Punggol LRT, SBS Transit</p> <p>Calin Hera, Business Development Manager, KONE</p> <p>Steven Xiong, CTO of Rail Industry, Huawei Enterprise BG</p> <p>Dr. Sarit Tiyawongsuwan, Lecturer and Researcher, Rajamangala University of Technology (Moderator)</p> | <p>Panel: Upgrading and resignalling for cost-effective and reliable train systems</p> <p>Jaydeep Pawar, Chief Communications Engineer, Ministry of Railways, India</p> <p>Leow Wee Lee, VP of Signal & Communications, SMRT Corporation</p> <p>Yohann Levasseur, Turnkey & Rolling Stock Director, East Asia and Country Managing Director, Thailand, Alstom</p> <p>Jirawat Jungwat, Founder & Admin, Thailand Infrastructure (Moderator)</p> | <p>Panel: Futuristic O&M strategies for enhanced safety and reliability</p> <p>Erni Basri, Director- Safety Railway, Ministry of Transportation, Indonesia</p> <p>Deovanni Miranda, Deputy Project Manager, Department of Transportation, Philippines</p> <p>Muhammad Effendi, Operations & Maintenance Director, MRT Jakarta</p> <p>Andrew Chong, Advisor, Centre for Railway Infrastructure and Engineering (CRIE), Universiti Tunku Abdul Rahman (UTAR) (Moderator)</p> | <p>Thailand</p> <p>Dr. Chaisak Srisethanil, CEO, BTS Infrastructure Development Co. Ltd.</p> |
| 17:00 | END OF DAY 2 | | | |

On-Floor Seminar Theatre

DAY 1 – MAY 31, 2023

| Time/ Track | On-floor (Theatre 1) | On-floor(Theatre 2) |
|-------------|--|--|
| 1000 | Presentation 1: A cybersecurity solution for transport that is stronger than a firewall: A technology discussion and review of use cases Christopher Crawford, Transportation Industry Director, Waterfall Security Solutions | Presentation 1: Safety regulation and safety culture in Europe Kevin Liu, Rolling Stock & Infrastructure Director, TÜV NORD |
| 1030 | Presentation 2: Predictive maintenance...and now? Klaus Daniel,Heine, Senior Consultant Maintenance & Rolling Stock, DB E.C.O Group | Presentation 2: Reducing structural life-cycle costs by using innovative structural protection systems Alberto Lanzoni, Area Sales Manager, MAURER SPS GmbH |
| 1100 | Presentation 3: The benefit of connectivity in a digital railway Jeremy Haskey, Connectivity & Services Solution Director, Alstom | Presentation 3: Reducing rail corrugation growth and ground-borne noise Wilson Ho, Director, Jabez Innovation Limited |
| 1130 | Presentation 4: Realizing the benefits of digital rail while overcoming the challenges Manpreet Mann, Rail Systems Lead, Arup | Presentation 4: Innovation in the supply chain is as important as Innovation in materials Mark Carling, Managing Director - Australia and Asia Pacific, Unipart Group |
| 1200 | Presentation 5: Tube bending application in metro rail project Deven Mukherjee, National Sales Manager- APAC Region, Omni-X | Presentation 5: Digitization of track maintenance: An outlook to the future of digitized track and machine maintenance Jochen Nowotny, Managing Director, Track Machines Connected Gesellschaft m.b.H. |
| 1230 | Presentation 6 : How can you make your operation faster and more efficient while helping to ensure optimal performance and safety? Michael Field, Sales Director ANZ & SE Asia, Wabtec Corporation | Presentation 6 : CRSC train control technologies safeguard your journey Ming Jiang, Deputy Chief Engineer, China Railway Signal & Communication Corporation Ltd |
| 1300 | Presentation 7 : A kind of composite brake block suitable for heavy haul wagons under severe rail condition Vincy Wang, Senior representative, Shenyang Yuancheng Friction & Sealing Material Co.,Ltd | Presentation 7: Study of track vibration isolation systems Naruecha Srivirach, General Manager, GERB (Thailand) Co. Ltd |
| 1330 | Presentation 8: Greener maintenance through advanced analytics Walaiporn Leelawanee, Head of Signalling & Infrastructure and Bangkok Site Managing Director, Alstom | Presentation 8: Tommy Vongpathoum, Systems Validation Engineer/ Partner, ATS American Traction Systems, Inc |
| 1400 | Presentation 9: Mobile asset management, remote condition monitoring & diagnostics Eyal Trichter, CEO, TriLogical Technologies | Presentation 9: |
| 1430 | Presentation 10: Migration to FRMCS Hendrik Holz, Sales Director, Funwerk Systems GmbH | Presentation 10 : Innovative polyurethane track components for ballast protection and vibration mitigation Fang Xin, Area Sales Manager- Asia Pacific, Getzner Werkstoffe |
| 1500 | Presentation 11: Edge intelligent control empowering Industry 4.0 Pan Xueming, Senior Design Engineer, Beijing HollySys Co. Ltd | Presentation 11: Uninterruptable power supply Pearly Liew, Regional Business Development Manager, Gutor |
| 1530 | Presentation 12: CREG-Underground Solutions Provider Yuan Suoxia, General Manager, China Railway Engineering Equipment Group Co. Ltd, Singapore Branch | Presentation 12: Structural bearings, anti-seismic devices Agostino Marioni, Chairman, Hirun International |

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| 1600 | Presentation 13: Integrated power supply solution of Linxon in rail sector Yasir Shah, Global Sales Manager, Rail - Linxon | Presentation 13 : Adapting RFID technology for railways and experience sharing on tried and tested use cases Anuraag Bhatnagar, CEO, Intellistride Technologies |
| 1630 | Presentation 14: Human factors in cybersecurity Dr. Pipatphon Lapamonpinyo, Lecturer, Mahidol University | Presentation 14 : Noise and corrugation reduction through rail dampers Karl-Stephan Schneider, Managing Director, Schrey & Veit |
| | Hugh Hunter, Lecturer, Mahidol University | |

DAY 2 – JUNE 1, 2023

| Time/ Track | On-floor (Theatre 1) | On-floor (Theatre 2) |
|--------------------|---|--|
| 1100 | Presentation 1: Driving fire protection to the highest level Joachim Heinzelmann, Sales Director Rail, Diehl Aviation Gilching GmbH | Presentation 1: The local-made Hi-rail vehicle and Modern Rail Flaw Detection system for safety and maintenance efficiency of existing rails in ASEAN Anat Hasap, Director of Railway Transportation System Testing Center (RTTC), Thailand Institute of Scientific and Technological Research (TISTR) |
| 1130 | Presentation 2: Discover easy maintenance – Smart Maintenance & SoniQ Rail Explorer Christian Schwarz, International Sales Manager, Vossloh Rail Services GmbH Heike Mühl, Project Engineer, Vossloh Rail Inspection GmbH | Presentation 2: Breakthrough optical technology enabling effortless rail network upgrade Pan Chock Teck, Senior Manager, Huawei Asia Pacific Enterprise Transportation Railway Solution |
| 1200 | Presentation 3: Data driven insights Ben Craze, CEO, Infinitive Group | Presentation 3: Integrated diagnostic vehicle Ravi Raj, Assistant Vice President, ADJ Engineering Pvt Ltd |
| 1230 | Presentation 4: | Presentation 4: Robot-human co-operation in railway Infrastructure inspection Junjie Xiong, Vice President & Chairman Assistant, Shenhao Technology |
| 1300 | Presentation 5: Solutions for Urban Transport by Mitsubishi Heavy Industries Group Yuji Sakamoto, Senior Business Manager, Mitsubishi Heavy Industries | Presentation 5: Exploring the potential of IoT in the railway industry Leung Chi Wai, System Manager, Roctec Technology |
| 1330 | Presentation 6: Dr. Sanphawat Jatupatwarangkul, Head of Standard and Executive Committee, Thai BIM Association | Presentation 6: Digital + Mainline and System Mike Taylor, Global Head of Rail Systems and Systems Engineering, AECOM ST Poh, Senior Vice President, Head of Rail and Transit, Asia, AECOM |
| 1400 | Presentation 7: Time sensitivity network Perry Yang, Technical Engineer, Kyland Technology Co. Ltd | Presentation 7: |
| 1430 | Presentation 8 : | Presentation 8: |

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|------|-----------------------------|-----------------|
| 1500 | Presentation 9 : | Presentation 9: |
| 1530 | <i>End of Day 2 program</i> | |