6-7th March 2019

Bilbao Exhibition Centre, Bilbao



# A MAJOR EXPO & CONFERENCE ABOUT THE INNOVATION THAT IS TRANSFORMING THE RAIL INDUSTRY

Organised by:



Host partners:

With the support of:















Collaborating Entities:





1,000 ATTENDES | 300 SPEAKERS | 150 EXHIBITORS | 3 CONFERENCES



Organised by Terrapinn, in partnership with MAFEX

## Rail Live! 2019 Working Agenda

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## PRE-CONFERENCE DAY | TUESDAY, 5TH MARCH 2019



9.00 9.00 Site visit to local networks – places are limited Welcome networking Lunch 13.00 13.00 **DIGITAL & LIGHT RAIL POWER & STATIONS** TICKETING & **FINANCE & INTELLIGENT INFRA IOT SUMMIT SUMMIT SAFETY SUMMIT** MAAS **FUNDING TECH SUMMIT LIGHT RAIL POWER** STATION OF **FUTURE TICKETING** FINANCE AND FUNDING THE FUTURE OF IOT & AI **SUMMIT** THE FUTURE **OPPORTUNITIES GLOBAL PROJECTS INFRASTRUCTURE INSPECTION** 

14.00

14:15













14.00







14:15

14.30

14.45

15.20

16.00

14.30











**ØBB** INFRA

14.45

PANEL: Defining the future of rail: how can rail operators innovate effectively





PANEL:

What will drive innovation for the station of the future

#### PANEL:

Afternoon Networking Break

What are the impacts of innovative ticketing technologies on transport and infrastructure?

#### PANEL:

Closing the funding gap: which financial tools do we have to realise complex transport infrastructure projects?

#### PANEL:

The rise and rise of automation in infrastructure inspection

15.20

**INNOVATING IN RAIL** 

**LIGHT RAIL SAFETY SUMMIT** 

**STATION CASE STUDIES** 

**URBAN & REGIONAL MOBILITY** 

#### **TENDERS AND PROCUREMNT**

GRUPPO BRESCIA MOBILITÁ

THE FUTURE OF **INFRASTRUCTURE INSPECTION** 

16.00



**WIENER LINIEN** 

PANEL:

Combining sophisticated safety technology with light rail systems and employees









16.15

16.30

16.15

**Round Table Discussions** 

**NETZE** 

Welcome Drinks Reception

# DAY 1 | WEDNESDAY, 6TH MARCH 2019



Official welcome from The M	ost Excellent <b>Iñigo Urkullu,</b>	President / Lehendakari of t	he Basque Country				
HOST PANEL Rail Leaders Panel						FGC Ferrocarrils de la Generalitat de Catalunya	• • • • euskotrer
	a High Speed Railway Aut Director, London Undergrour					€ CA High	LIFORNIA UNDERGROUND Speed Rail Authority
CEO KEYNOTE PANEL How can the rail industry	adapt to the rapid changes	s that come with digital tech	nology and embrace the	digital revolution?	renfe	UNDERGROUN	CALIFORNIA High-Speed Rail Authority
<b>C</b> 4F							
Break							
Break	n and networking refreshment	TS					
Break	n and networking refreshment	TS	Technology Rou	nd Table discussions			
Break	and networking refreshment  MEGA PROJECTS	DIGITAL & IOT	Technology Rour	nd Table discussions  TEL & TRAIN CONTROL	STATIONS	INTELLIGENT INFRASTRUCTURE	POWER
Break Official tour of the exhibition					STATIONS  PROJECT MANAGEMENT		POWER  POWER SOURCES & RENEWABLE ENERGY
Break Official tour of the exhibition METRO	MEGA PROJECTS REGIONAL MEGA	DIGITAL & 10T	LIGHT RAIL	TEL & TRAIN CONTROL  OPTIMISING GSMR LTE	PROJECT MANAGEMENT	INFRASTRUCTURE  SMART ASSET	POWER SOURCES &
Break Official tour of the exhibition  METRO  CEO STRATEGY	MEGA PROJECTS  REGIONAL MEGA PROJECTS	DIGITAL & IOT  RAIL REVOLUTION	LIGHT RAIL  INTER MODALITY	OPTIMISING GSMR LTE & TETRA	PROJECT	SMART ASSET MAINTENANCE	POWER SOURCES & RENEWABLE ENERGY

## **DAY 1** | WEDNESDAY, 6TH MARCH 2019

Join us at the iconic San Mames Stadium for a relaxing cocktail reception



20:00

	METRO	MEGA PROJECTS	DIGITAL & 10T	LIGHT RAIL	TEL & TRAIN CONTROL	STATIONS	INTELLIGENT INFRASTRUCTURE	POWER	
	PROJECT DEVELOPMENT	HIGH SPEED RAIL CONSTRUCTION	INVESTING IN DIGITAL	SMART CITIES	CYBER SECURITY	DEVELOPING THE STATION	AUTOMATION AND INNOVATION	SUSTAINABLE ENERGY USE	
15.00	TRANSPORT FOR LONDON EVERY JOURNEY MATTERS	Rail Baltica	SVCF	euskotren 🔉 🗘 🔈 🗘	PANEL: How can rail prepare for potential risks as	% Jernhusen	INFR/ABEL		15.00
15:15	STADLER	DB Engineering & Consulting	<b>C</b> 4F	IDOM	operational connectivity advances and legacy technologies are evolved?		FRAUSCHER SENSOR TECHNOLOGY	EUROSTAR"	15:15
15:30	Metro	TEXAS CENTRAL	Shift2Rail.	PANEL: Combining Light-Rail, TOD and Smart Cities		NetworkRail  et  amurrio  terrocarrit y equipos, s.a.	et		15:30
15:45		L.E.K.	NOKIA					15:45	
16:00		Femern Sund≈Bælk	larnród Éireann Irish Rail			JR-EAST	HS2	<b>₩KL</b> HST	16:00
16:15	15 Afternoon Networking Drinks								
	CLOSING KEYNOTE								
17:00	PANEL How can we invest in billion-euro projects and be sure that they will ready for future passenger demands?  Panel How can we invest in billion-euro projects and be sure that they will ready for future passenger demands?  ProRail								
18:00	Close of day 1								

End of conference, see you next year



15:45

DISRUPTING MOBILITY K	EYNOTE			CONSTRUCTING RAIL 5.0	- KEYNOTE		
	WIF	RED		Automation, IoT, AI, blockcha	ain: the reality of innovation a	t the heart of global railway in	frastructure companies
GRA RA	Uber Uber	Ikoi	VE AI	PANEL: Automation, IoT, AI,	blockchain: the reality of innova	-	Network Rai
Morning Networking Break			Project Round 1	Table Discussions			
METRO RAIL	MEGA PROJECTS	DIGITAL & 10T	LIGHT RAIL	TEL & TRAIN CONTROL	STATIONS	INTELLEGENT INFRASTRUCTURE	POWER
LATIN AMERICA	MODERNISATION AND EXPANSION	IOT & MAINTENANCE	DIGITALISATION AND AUTOMATION	COMM-BASED AND AUTOMATED TRAIN CONTROL	CUSTOMER CENTRICITY & TICKETING	IOT INNOVATION	INNOVATION & TECHNOLOGY
METRO DE SANTIAGO	My HSR CORP	→ METROLINX	Midland Metro Alliance	JR-EAST	ProRail	BANE NOR	⊕ SBB CFF FFS
voestalpine one step ahead.		NEM	eurecat Centre Tecnologis de Catalunya	FLUIDMESH NETWORKS	PANEL: The role of ticketing in the capacity of the railway	@esri	PANEL: Embracing innovation in energy & sustainability
PANEL: The future of transport development in Latin	TRENES ARGENTINOS	solutions		<b>DD</b>	station	PANEL: How can infrastructure manager use digital	
America.	INFRAESTRUCTURA	Unife THE EUROPEAN RAIL INDUSTRY	LIGHT RAIL MANILA CORPORATION	DB		technology and innovation to combat the rise and rise of capacity demands?	
Networking Lunch							
Passenger	Experience	THE BIG DAT	TA QUESTION	FUTURE SIGNAL	LLING SYSTEMS	OPERATIONA	L INNOVATION
ATURE		ଓା	BB	INFR/ABEL DB		В	
AZIENDA TRASPOI	CIM RTI MILANESI S.p.A.						
		<b>\</b>	METRO	TO G	RATP	Netw	orkRail

## **Confirmed Speakers**

#### **Keynotes**

- 1. Isaías Táboas Suárez, President, Renfe
- 2. Isabel Pardo de Vera Posada, President, ADIF
- 3. Nigel Holness, Managing Director, London Underground
- 4. Brian Kelly, CEO, California High Speed Rail Authority
- 5. Andres Arizkorreta, CEO and Chairman, CAF
- 6. Ashwini Bhide, Managing Director, Mumbai Metro
- 7. Imanol Leza, General Manager, EuskoTren
- 8. Pier Eringa, CEO, ProRail
- 9. Torkel Patterson, Member of the Board, JR Central
- 10. Leanne Redden, Executive Director, RTA Chicago
- 11. Evgeny Charkin, Chief Information Officer, Russian Railways
- 12. David Leborgne, Chief Digital Officer, SNCF
- 13. Manel Villalante, Chief Development and Strategy Officer, Renfe
- 14. Rolf Härdi, Chief Technology and Innovation Officer, Deutsche Bahn
- 15. Jean-Jacques Thomas, Chief Digital and Innovation Officer, SNCF Réseau
- 16. Thibaud Simphal, General Manager Western & Southern Europe, UBER
- 17. Dirk Rompf, Managing Director Major Projects and Network, DB Netz
- 18. Volodymyr Omelyan, Minister of Infrastructure, Government of Ukraine.
- 19. Andy Doherty, CTO, Network Rail
- Mathieu Dunant, Head of Innovation, RATP
- 21. Pere Calvet, Director General, Ferrocarrils de la Generalitat de Catalunya
- 22. Marc Guigon, Head of Passengers Department and Latin America, UIC
- 23. Michael Barillère-Scholz, Managing Director, ioki
- 24. Lucy Yu, Chief Public Policy Officer, FiveAI
- 25. Carlo Borghini, Executive Director, Shift2Rail Joint Undertaking
- 26. Julio Gómez-Pomar, Chairman, IE Center for Transport Economics & Infrastructure
- 27. Greg Williams, Editor, Wired Magazine
- 28. Nicholas Owen, Journalist & Rail Enthusiast, BBC
- 29. Jonny Dymond, Journalist, BBC

#### Metro

- 30. BC Yen, President, Metro Taipei
- 31. Heiko Büttner, Chairman, Munich S Bahn
- 32. Jorge Yáñez, CEO, Metro de Quito
- 33. Ricard Font, President, FGC Ferrocarrils de la Generalitat de Catalunya
- 34. Stuart Harvey, Major Projects Director, Transport for London
- 35. Jim Gallagher, COO, LA Metro

- 36. Roberto Andreoli, Chief Information and Technology Officer, A.T.M. Azienda Trasporti Milanesi
- 37. Albert Tortajada, Director of Infrastructure, FGC Ferrocarrils de la Generalitat de Catalunya
- 38. Carlo Scarpa, President, Brescia Mobilita
- 39. Elizabeth Briceno Jiménez, President, INCOFER Costa Rica
- 40. Mauro Alabuenas, Vicepresident, SBASE
- 41. Jaime Adasme, Director of Project Development, Metro de Santiago
- 42. Iñaki Uriarte, New Operations Director, Euskotren
- 43. Joubert Flores, Director of Engineering, MetroRio
- 44. Cormac Rabbitt, Managing Director, Metro Dublin
- 45. Jorge Escoin, CTO, Euskotren
- 46. Nicole Eckiert, Bid Manager, Munich S-Bahn
- 47. Francisco Javier Serra Guevara, Director General de Internacionalización de la Empresa, ICEX España
- 48. Charles Hoskins, Senior Director, Strathclyde Partnership for Transport
- 49. Cormac Rabbitt, Managing Director, Metro Dublin
- 50. Daniel Álvarez González, Sales Manager, voestalpine SIGNALING
- 51. Juan Fores Lojo, Commercial Director, CAF Investment Projects
- 52. Senior Director, Stadler

#### **Mega Projects**

- 53. Tim Keith, President, Texas Central
- 54. Mark Loader, Project Delivery Group Director, MyHSR
- 55. Andrew McNaughton, Strategic Technical Adviser, HS2 & Chairman of World HSR Committee, UIC
- 56. Kaspars Rokens, COO, Rail Baltica
- 57. Matias Uslenghi, Chief Planning and Strategy Officer, Trenes Argentinos Infraestructura
- 58. Sota Ouk, Deputy Director of Railway Department, Cambodian Ministry of Transport
- 59. Johan Sundin, Head of Strategic Construction Support, East Link Project, Trafikverket
- 60. Richard Sendi, Head of Planning & Strategy, Standard Gauge Railway Project, Uganda Ministry of Works & Transport
- 61. Jens Ole Kaslund, E&M Contract Director, Femern
- 62. Tim Wood, Northern Powerhouse Rail Director, Transport for the North
- 63. Dieter Michell-Auli, Chief Sales Officer, DB Engineering & Consulting
- 64. Simon Giovanazzi, Executive Director Asia-Pacific at DB Engineering & Consulting
- 65. Andrea Giurcin, CEO, TRA Consulting
- 66. Senior Director, Acciona
- 67. Senior Director, LEK Consulting

#### **Digital and IoT**

- 68. Jörn Schwanze, CTO, KVB (Cologne)
- 69. Yves Zischek, Director Smart Rail 4.0, SBB
- 70. Bertrand Minary, CIO & CDO, SNCF Fret
- 71. Bob Huisman, Manager Maintenance Research & Development, NS
- 72. Nalinaksh Vyas, Chairman, Technology Mission for Indian Railways, Ministry of Transport
- 73. Anja-Maria Sonntag, Head of Digital Transformation, SBB Cargo
- 74. Dr. Brijesh Dixit, Managing Director, Maha-Metro
- 75. Bonnie Tam, EAM Program Executive, Assetlinx, Metrolinx
- 76. Philippe Citroen, Director General, UNIFE
- 77. Gerald Schinagl, Director, Digital Innovation, OeBB
- 78. Stefan Roth, Senior Manager, DB Systel
- 79. Tanmay Mehta, General Manager, RFID, Centre for Railway Information Systems, Indian Railways
- 80. Christian Höcker, Director, Think Tank Digitalisation & Technology, Deutsche Bahn
- 81. Phuc Nguyen, Head of Maintenance, Leo Express
- 82. James Brown, Data and Performance Engineer, Angel Trains
- 83. Giorgio Travaini, Head of Research & Innovation, Shift2Rail Joint Undertaking
- 84. Jude Carey, Head of Asset Management, Irish rail
- 85. Florian Kappler, Project Leader & Business Architect, Smartrail 4.0, BLS
- 86. Mathias Linden, Researcher, University Koblenz
- 87. Diego Galar, Professor of Condition Monitoring, Division of Operation and Maintenance Engineering, Luleå University of Technology
- 88. Ander Azkarate, Strategic Innovation Manager, Danobat
- 89. Javier De La Cruz, Head of Digital Transformation, CAF Rail Services
- 90. Karsten Oberle, Global Practice Lead Railway, NOKIA
- 91. Alvaro Zevallos, Chief Business Development Officer, NEM Solutions
- 92. Babakalli Alkala, Professor, University of Glasgow

#### **Light Rail**

- 93. Thierno Aw, Directeur Général, Conseil exécutif des Transports urbains de Dakar
- 94. Danny Vaughan, Head of Metrolink Tram, Transport for Greater Manchester
- 95. Das Mootanah, CEO, Metro Express Mauritius
- 96. Hadbi Aomar, CEO, Algiers Metro (EMA Enterprise de Metro d'Alger)
- 97. Thomas Kritzer, Head of Tramway Division, Wiener Linien
- 98. André von der Marck, CEO, Luxtram
- 99. Mogens Hagelskaer, CEO, Odense Letbane
- 100. Mark Davis, General Manager, London Trams
- 101. Andrés Muñoz de Rodriguez, General Manager Metro Tenerife
- 102. James Hammett, Managing Director, UKTram
- 103. Geoff Cross, Vice-President, Planning & Policy, TransLink Vancouver
- 104. Eduard Cabrera, Head of Infrastructure, ATM Barcelona

- 105. Ana M. Moreno, General Manager, Los Tranvías de Zaragoza
- 106. Cheng-chiou Chang, Commissioner, Dept of Rapid Transit Systems Taipei
- 107. Steen Lykke, Technical Director and Chief Operating Officer, Odense Letbane
- 108. Tobyn Hughes, Managing Director, Nexus Tyne and Wear
- 109. Chelina Bodhie, Senior Manager: Environmental, Health and Safety, Gautrain Management Agency
- 110. Randy Sac, Head Information Mgmt. & Technology, Light Rail Manila Corporation
- 111. Latifa Jardak, Corporate Communications Strategy, RFR Tunis
- 112. Alejandro Moreno, Director, Midland Metro Alliance
- 113. Ferenc Friedl, Innovation Senior Associate, Mobility Strategy and Innovation, BKK Budapest
- 114. Richard Briggs, Senior Project Engineer, Transport for Wales
- 115. Peter Cushing, Managing Director, Cushing IP and Co Ltd
- 116. Juan José Gainza, Product Manager, Arcelor Mittal
- 117. David Alvarez, Research Engineer- Global R&D, ArcelorMittal
- 118. Maria C. Ortega, Urban Light Transport Manager, IDOM
- 119. Hans Cruse, Director, Sparvagns Staderna

#### **Telecoms & Train Control**

- 120. Koki Mitsuzaka, Assistant Director, East Japan Railway
- 121. Bart Vreven, Signalling Data Expert, Infrabel
- 122. Christine Kraft, Project Manager ETCS, DB Kommunikationstechnik
- 123. Amandine Moutte, Head of Automation Line 4, RATP
- 124. Maz Mirza, Information Technology, MYMRT
- 125. Paul Booth, Principle Design Engineer, Network Rail
- 126. Marleen Verheyen, Advisor Traffic Management Services, Infrabel
- 127. Jasmijn De Clercq, Data Scientist & Project Manager, Infrabel
- 128. Petr Kolar, Strategy Department, SZDC (Czech Infrastructure)
- 129. Baseliyos Jacob, Senior Expert, ATO and ETCS, DB Cargo
- 130. Michal Cieslik, Head of Service & Security Department, Wiener Linien
- 131. Stephane Callet, Signalling Project Manager, SNCF
- 132. Efim Rozenberg, First Deputy General Director, NIIAS Russian Railways
- 133. Alexey Ozerov, Head of Business Cooperation Dept, NIIAS Russian Railways
- 134. Juliette Fournier, System Engineer, CBTC Expert, SNCF
- 135. Christian Schlehuber, Team Leader Security OT, DB Netz
- 136. Esmé Kalshoven, ERTMS Program Director, NS
- 137. Jean-Baptiste Moussalem, System Engineer, SNCF
- 138. Nikolaus Panzera, UTO operations, Wiener Linien
- 139. Philippe Robion, Project manager on Line 4 automation, RATP
- 140. Juliette Marais, Researcher GNSS, IFFSTAR
- 141. Amaia Bizkarguenaga, TETRA Service Manager, Itelazpi
- 142. Marco Tagliabue Sales Director EMEA, Fluidmesh
- 143. Felipe Sanjuan, VP Sales, Global Integrators, Teltronic

#### 144. Andy Harrison, Founder, MiM Consult

#### **Stations**

- 145. Norrie Courts, Director of Stations, Network Rail
- 146. Barend Kuenen, Director of Stations Management & Exploitation, NS Stations
- 147. Johannah Randall, Head of Stations Operations, HS2
- 148. Astrid Bunt, Director of Stations, ProRail
- 149. Iori Mori, MS/MPP, Assistant Manager IT Strategy Division, Technology Innovation HQ, East Japan Railway Company
- 150. Patricia Cuvelier, Stations General Manager, SNCB
- 151. Amirbahador Abdolmohamadi, High Speed Railway Project Manager & Buildings & Facilities General Director, Railways of Islamic Republic of Iran (RAI)
- 152. Jonathan Chatfield, Head of Policy Freight & Stations, Rail Delivery Group
- 153. Koen Van Lancker, Head of Investments & Real Estate Stations, SNCB
- 154. Philipp Leimburger, Leader Smart Station Zürich HB, SBB
- 155. Mohamed Chahid, Assets Valorization Director, ONCF
- 156. Urban Hammarland, Regional Manager Gothenburg, Urban Development, Jernhusen
- 157. Olga Willner, Project Lead IoT & Data Analytics, DB Stations&Service
- 158. Sam Li, Senior Innovation Officer, Transport for Greater Manchester
- 159. Sudath Amaratunga, Rail Project Strategist, Transport for NSW
- 160. Arja Aalto, Specialist, Passenger Traffic, Finnish Transport Agency

#### **Intelligent Infrastructure**

- 161. Aitor Garitano, General Manager, ETS
- 162. Chris Verstegen, Chief Innovation Officer, ProRail
- 163. Henning Scheel, Vice President Contract and Market, Bane NOR
- 164. Joe Ghartey, Minister of Railways of Ghana
- 165. Eugenio Fedeli, Head of R&D, Rete Ferroviaria Italiana
- 166. Wolfgang Zottl, Head of R&D, OBB Infrastruktur
- 167. Radek Cech, Director of Strategy, SZDC Správa Zelezniční Dopravní Cesty
- 168. Sonia Zahiroddiny, BIM Strategy Manager, HS2 Ltd
- 169. Jon Kerbey, Director of BIM, HS2 Ltd
- 170. Enric Tico, President, CIMALSA
- 171. Jorge Onaindia, Construction and BIM Department, ETS
- 172. Sin Sin Hsu, Head of Track Engineering, Network Rail High Speed HS1
- 173. Daniel Kindler, Blockchain and DLT Solutions, Deutsche Bahn
- 174. Michael Kuperberg, Chief Blockchain and DLT Architect, Deutsche Bahn
- 175. Javier Astarloa, Maintenance and Operations, ETS
- 176. Mathias Vanden Auweele, Asset Management, Infrabel
- 177. Stuart Calvert, Head of Early Contractor Involvement (ECI), Network Rail

- 178. Ba Myint, Senior General Manager (Inspection), Myanmar Railways
- 179. Daniel Eckenstein, Asset Manager of Track, SBB
- 180. Cédric Cecotti, Telecom BCC Manager Technology Innovation Officer, Infrabel
- 181. Martin Köppel, Intelligent PerCeption (IPC), DB Netz AG
- 182. Chris Rowley, Senior Engineer, Network Rail
- 183. Estelle Bongini, Research Engineer, SNCF Réseau
- 184. Stefan Huber, Tracking Solutions | ACM Product Management, Frauscher
- 185. Javier López, Ingeniero Industrial, Pandrol
- 186. Nick Kingsley, Managing Editor, Railway Gazette
- 187. Adam Stead, Founder and CEO, Apollo Rail

#### **Power**

- 188. Stuart Hillmansen, Senior Lecturer, Birmingham University
- 189. Holger Busche, Scientific Advisor, Die Gruenen
- 190. Olivier Menuet, SVP Energy, SNCF Energie
- 191. Dyre Martin Gulbrandsen, Director Energy, BaneNor, & Director, Eress
- 192. Gareth Williams, Head of Sustainability, Northern Rail
- 193. Ralph Luijt, Manager Energy & Environment, NS
- 194. Markus Halder, Head of Power Demand Management Program, SBB
- 195. Rebecca Cranshaw, Community & Environment Manager, Eurostar
- 196. Arttu Kuukankorpi, Director Traffic Operations, HKL Helsinki
- 197. Margrethe Sagevik, Head of Sustainability, NSB
- 198. Rory Dickerson, Senior Engineer, Network Rail
- 199. Senior executive NS
- 200. Senior Executive, Ingeteam

#### **Funding and Finance**

- 201. Gani Tazhiyev, Executive Director, Almaty LRT Project
- 202. Duilio Fatti, Head of Knowledge and Interfaces Management, Ferrovie Dello Stato
- 203. Senior Director, Transport Group, World Bank
- 204. Oleksandra Klitina, Advisor of the Minister of Infrastructure of Ukraine
- 205. Larysa Nazarenko, Head of the Railway Sector Reform, Reform Support Team Ministry of Infrastructure of Ukraine
- 206. Bhupinder Bedi, PPP and Procurement Specialist for Infrastructure, Asian Development Bank
- 207. Eneida Elezi, Institutional Relations, Albanian Railways (HSH)
- 208. Doris Chevalier, CEO, Infraboost

#### **Ticketing and MaaS**

- 209. Alvaro Salvat, General Manager Spain, Lime
- 210. Carme Fabregas, CTO, ATM Barcelona

- 211. Gordon Hanning, Head of Concession Travel & Integrated Ticketing, Transport Scotland
- 212. Mark Langmead, Director Compass Operations, Translink
- 213. Vinod Bhatia, General Manager Centre for Railway Information Systems, Ministry of Railways India
- 214. Sherisse Shelton-Smith, Smart-Ticketing Manager, Govia Thameslink Railway
- 215. Julija Balinova, e-Ticket Project Manager, Rigas Satiksme
- 216. Lidia Signor, Support Manager MAAS Alliance, ERTICO
- 217. Janne Hauta, Ministerial Adviser, Data Business unit, Data Department, MOTC Finland
- 218. Kristian Kolind, Director of Mobility Services, NSB
- 219. Andrea Bruschi, Transportation & Mobility Planner, Feasibility Studies, Directorate for Mobility Systems, MM Spa
- 220. Ivana Semanjski, Scientific Advisor Transport and Traffic Sciences, City of Ghent
- 221. Hugo Oljemark, Managing Director, Bergslagen
- 222. Ian Wright, Head of Innovation & Partnerships, Transport Focus

#### **Projects**

- 223. Tobias Fischer, Leader, Rolling Stock Technology, Deutsche Bahn
- 224. Camilla Ahston, Senior International Strategist, Purchasing & Logistics, Trafikverket
- 225. Juan Antonio Cuesta, Director, Ecorail
- 226. Alisa Maas, Head of Mobility, IOTA Foundation
- 227. Susanne Wolf-Eberl, Chairwoman, WIMEN (Women in Mobility, Energy, Environment Network)
- 228. Marc Giesen, Head of Consulting, DB Engineering & Consulting
- 229. José Antonio López de la O Castro, Technical Director, Railway Innovation Hub
- 230. Alexander Barron, Head of Metro Benchmarking, Imperial College London
- 231. Senior Director, CAF Signalling
- 232. Senior Director, CAF

## **Keynote Sessions**

#### WEDNESDAY 6th MARCH 2019

#### **Rail 5.0 and Digital Mobility**

**09:00** Welcome

Sean Willis, Managing Director, Terrapinn

09:02

Victor Ruiz, President, Mafex

09:05 Official Welcome

The Most Excellent Iñigo Urkullu, President / Lehendakari of the Basque Country

**09:10 Host Panel:** The Basque Government will welcome a panel of leaders from across the world to discuss their vision of the railway sector with the introduction of key policies such as the 4<sup>th</sup> Railway package and the increasing liberalisation of the sector.

Pere Calvet, Director General, Ferrocarrils de la Generalitat de Catalunya (confirmed)

Marc Guigon, Head of Passengers Department and Latin America, UIC (confirmed)

Imanol Leza, General Director, Euskotren (confirmed)

Paolo Belforte, Chief Operations Officer, Italo - NTV (confirmed)

09.30 Keynote Interview: Brian Kelly, CEO, California High Speed Railway Authority (confirmed)

California High Speed Rail are in the middle of planning one of the world's largest high-speed rail programs. The landmark US high-speed project represents a watershed moment for the US market as high-speed rail continues to grow. CEO Brian Kelly will sit down to discuss the key technologies CHSRA are looking at to bring about momentous change in West Coast pubic transport and beyond.

**09.45** Keynote Interview: **Nigel Holness**, Managing Director, **London Underground** (confirmed)

As the new Managing Director of London Underground Nigel Holness will sit down to share insight from TfL's wealth of projects on and their continuing digital transformation. With his wealth of experience from years in metro operations, Nigel will discuss his vision for the future of metro and urban rail operations in London and how the world's oldest underground is set to adapt to the digital revolution that is hitting the global transport industry.

**10:00** Keynote Panel: How can the rail industry adapt to the rapid changes that come with digital technology and embrace the digital revolution?

- With the rise of IoT, sensors and automation, what are the priorities of the future of public transport?
- What is the role of public transport operators in the future of door to door travel?
- How can we use Artificial Intelligence in a sustainable way to ensure reliability and cost-effective maintenance?
- Where will the next generation of disruptors in the transport industry come from and how can we prepare our organisations?

Isaías Táboas Suárez, President, Renfe (confirmed)

Nigel Holness, Managing Director, London Underground (confirmed)

Ashwini Bhide, Managing Director, Mumbai Metro Rail Corporation (confirmed)
Brian Kelly, CEO, California High Speed Railway Authority (confirmed)

10:20 Keynote address

Andres Arizkorreta, CEO and Chairman, CAF



#### 10:35 Official opening of the exhibition and networking refreshments

#### 11:35 Technology and Strategy Roundtables

1

Are you ready for automation in rail – opportunities and challenges



Karsten Oberle, Global Practice Lead - Railway, NOKIA (confirmed) 2. How rail operators can benefit from the latest telecommunication technologies



Felipe Sanjuan, Transport
Business Development Director,
Teltronic (confirmed)

3. Technological challenges in traction systems



Iván Larzabal,
R&D Project Manager, CAF
Power & Automation

4. Automatization of Mainline Operation



Jon Alzate, Director - On-board Systems Business Unit, CAF Signalling

5.

**Predictive Maintenance at DB** 



DB Engineering & Consulting

Simon Giovanazzi, Executive Director Asia-Pacific, DB Engineering & Consultant (confirmed)

9 How can surface access to stations become seamless when it comes to inter-modality?



Sam Li, Senior Innovation Officer, Transport for Greater Manchester (confirmed) 6. End-to-End connections in railway transport



Marc Giesen, Head of

Consulting, DB Engineering & Consulting (confirmed)

10 How do Nexus balance the ever-increasing commercial opportunities in urban rail with the need to deliver wider benefits for the public?



Philip Meikle, Transport

7. Rail shaping Africa



**Eric Kapornyai,** Area Manager (Central Africa), **ArcelorMittal** 

11 Myanmar Railways: How we are launching the digital transformation process?

Ba Myint, Senior General Manager (Inspection), Myanma Railways (confirmed) 8 How can an ERTMS transformation be managed step by step on a national scale?



Esmé Kalshoven, ERTMS
Program Director, NS
(confirmed)

12 The future of the Purple Line project in east Tel Aviv



Asa Yehoshafat, Purple Line Manager, NTA Tel Aviv (confirmed)

13 What is the future of rail with the increasing automation of road?  FIVE  Lucy Yu, Director of Public Policy, FiveAI (confirmed)	Strategy Director, Nexus (confirmed)  14 Opportunities for women through digitisation in the railway sector  Susanne Wolf-Eberl, Chairwoman, WIMEN (confirmed)	15 How can we drive new technology in the industry through the creation of Innovation Hubs?  Railway Innovation Hub  José Antonio López de la O Castro, Technical Director, Railway Innovation Hub	16. Digitalised light rail infrastructure in one of the world's smartest cities  ATM Àrea de Barcelona Autoritat del Transport Metropolità  Eduard Cabrera , Head of Infrastructure, ATM Barcelona
17. Designing a Metro to facilitate mobility of the future  Metro Dublin  Cormac Rabbitt, Managing Director, Metro Dublin (Confirmed)	18 Building an Innovation Ecosystem, how new technologies could shape the world of transportation'  JR-EAST  Iori Mori, Technology	19 Reserved for Unife	

#### Future of Rail Closing Keynote

17.00.

Alwalid Alekrish, Executive Vice President for Programs & Projects, Riyadh Development Authority (Invited)

17:15. Keynote Panel How can we invest in billion-euro projects and be sure that they will ready for future passenger demands?

- Where are the key touch points for operators and infrastructure managers when looking to future proof megaprojects?
- How can we regulate and invest in these technologies for a smooth introduction of disruptors?
- What are the technologies we should be looking into regarding innovation in mobility?
- What are the benefits of open data and what role can it play in these projects?

Innovation HQ, East Japan Railway Company (confirmed)

How can we be sure to integrate this innovation across our entire system and company?

Chairman: Julio Gómez-Pomar, Chairman, IE Center for Transport Economics & Infrastructure

Leanne Redden, Executive Director, RTA Chicago (confirmed)

Manel Villalante, Chief Development and Strategy Officer, Renfe (confirmed)

Evgeny Charkin, Chief Information Officer, Russian Railways (confirmed)

Pier Eringa, CEO, ProRail (confirmed)

David Leborgne, Chief Digital Officer, SNCF (confirmed)

Isaac Centellas, CTO, Metro de Madrid (confirmed)

#### 18.00 End of day

Please join us for an evening drinks reception at the iconic San Mamés Stadium – the home of Athletic Bilbao FC at 20:00.

THURSDAY 7TH MARCH						
DRIVING DIGITAL INNOVATION						
Disrupting Mobility	CONSTRUCTING RAIL 5.0					
09.00 In the face of radical and disruptive technology evolution, how can we ensure that our businesses are securely equipped for the future passenger?	09.00 30 years in the making: Building the Chuo Shinkansen Maglev train.					
Why the future of transport must be multi-modal?	<ul> <li>Testing at 500 km/h -how has JR Central built the world's fastest train?</li> </ul>					
<ul> <li>Returning data sovereignty to users and civic organisations rather than private tech companies.</li> </ul>	<ul> <li>How does train travel at this speed affect the future of transportation?</li> </ul>					
Why new business models mean that physical infrastructure offers opportunities beyond current operating models.	<ul> <li>Balancing the innovation that is necessary for this level of rail transport against the Shinkansen's perfect safety record.</li> </ul>					
Greg Williams, Editor, Wired Magazine (confirmed)	Torkel Patterson, Member of the Board, Central Japan Railway Company (confirmed)					
09.30 Keynote Panel: How can we guarantee that mobility will remain sustainable and a seamless passenger experience is not jeopardised with the introduction of disruptors?	09.20 Automation, IoT, AI, blockchain: the reality of innovation at the heart of global railway infrastructure companies					
<ul> <li>How can we create digital platforms that are agile enough to adapt to the rapidly changing demands of passengers?</li> <li>What steps should we take to ensure open data can be advantageous in the face of cybersecurity and GDPR challenges?</li> <li>Where should operators be focussing to maximise the efficiencies available with future technology?</li> </ul>	<ul> <li>How can we use cutting edge technology such as blockchain, AI and chatbots to facilitate operations and maintenance in a traditional industry like rail?</li> <li>How can we create infrastructure that is flexible enough to adapt to the capacity demands of tomorrow?</li> <li>What areas of innovation should we explore in order to develop the major projects of the future?</li> </ul>					

Mathieu Dunant, Head of Innovation, RATP Paris Group (confirmed)

**Thibaud Simphal,** General Manager – Western Europe, **UBER** (confirmed)

Michael Barillère-Scholz, Managing Director, ioki(Confirmed) Lucy Yu, Chief Public Policy Officer, FiveAI (Confirmed) Moderated by: Carlo Borghini, Executive Director, Shift2Rail Joint Undertaking (confirmed)

Isabel Pardo de Vera Posada, CEO, ADIF (confirmed)
Jean-Jacques Thomas, Chief Innovation Officer, SNCF
Réseau (confirmed)

**Dirk Rompf,** Managing Director Major Projects and Network, **DB Netz** (confirmed)

**Volodymyr Omelyan,** Minister of Infrastructure of Ukraine (confirmed)

**Torkel Patterson,** Member of the Board, **Central Japan Railway Company (confirmed)** 

Andy Doherty, CTO, Network Rail (confirmed)

10.20 Networking refreshment break

## **Roundtables**

#### 11.20 Global Project Roundtables

- At each round table, the project leader will talk for 5 minutes to introduce the project highlighting particular challenges specific to that project
- The table will then move on to discussion for 25 minutes.
- There will then be one rotation, giving participants the opportunity to have join two round tables in total

1 Catalan Rail Leadership: The future of rail development and technology in Barcelona and beyond





Enric Ticó, President,

2 Overcoming the challenges of combining big data in operations and infrastructure to streamline traffic management services

#### **INFR/ABEL**

Marleen Verheyen, Advisor Traffic Management Services, Infrabel (confirmed) 3 Why are Rail
Operators looking
to deep data
analysis to improve
their maintenance
and reliability?



LIGHT RAIL
MANILA

Randy Sac, Head, Information Mgmt. & Technology, Light Rail Manila 4 Getting the basics of cybersecurity right: how can transport foster a new way of thinking?



Maz Mirza, Head of Information Technology, MY MRT (confirmed) 5 How can an existing metro line be automated without traffic disruption?



Amandine Moutte,
Assistant Project
Manager, Line 4
Automation Project,
RATP (confirmed)
Philippe Robion,
Project manager on

Line 4 automation,

6 The innovative development of Metro de Quito



Jorge Yáñez, CEO, Metro de Quito (confirmed)

CIMALSA (confirmed) Ricard Font, CEO, FGC (confirmed)		Corporation (confirmed)		RATP (confirmed)	
7 Today's digital and smart systems: Combining our perceptions of system engineering to ensure a coherent approach for network and asset management  SBB CFF FFS Daniel Eckenstein, Asset Manager of	8 Navigating the challenges of implementing ETCS on a surface-running network  NetworkRail  Paul Booth, Principal Engineer, Network Rail (confirmed)	9 How can operators overcome the complexities of managing stakeholder relationships and mega-project coordination on a regional scale?  Richard Sendi, Head of Planning &	approaches to shared radio bandwidth between the ITS road (and their autonomous vehicle) and ITS rail (for CBTC applications)  Stephane Callet, Signalling Project	11 How can rail transform network operations with ETCS and other new technologies on the horizon?  Christine Kraft, Project Manager ETCS, DB  Kommunikationstec	12 Update on the German Hydrail project: the results of our operations  BÜNDMES 70  Holger Busche, Scientific Advisor, Die Gruenen (confirmed)
Asset Manager of Track, <b>SBB</b> (confirmed)		Strategy for SGR Project, Ministry of Works and Transport Uganda (confirmed)	Manager, <b>SNCF</b> (confirmed)	hnik (confirmed)	
13 Sourcing future refrigerants for existing and new air conditioning systems in railway vehicles	14 How can we design metro systems for the high-capacity needs of the future?  Alex Barron, Head of	16 Complex IoT applications in the railway sector  LULEĂ UNIVERSITY OF TECHNOLOGY	17 How are Metro Express facing the challenges and opportunities of delivering a complex light rail infrastructure project on a tropical island?		18 How did we use passenger centric principles to develop Munich S Bahn's future-forward rolling stock?  Bahn München
Tobias Fischer, Leader, Rolling Stock Technology, Deutsche Bahn (confirmed)	Metro Benchmarking Railway and Transport Strategy Centre (RTSC) Imperial College London	Diego Galar, Professor of Condition Monitoring, Division of Operation and Maintenance Engineering, Luleå University of Technology (confirmed)	Das Mootanah, CEO, Metro Express Mauritius (confirmed)		Nicole Eckiert, Bid Manager, Munich S- Bahn
19 Using light rail to support urban development - a	20 How can RFR transform public transport and mobility in Tunis?	21 Rail corrugation and its effects	22 Developing a coherent and sustainable transport strategy	23 Connecting Central Europe: the development of high speed rail	24 HS1's intelligent maintenance programme

holistic approach to			for the capital of	across the Czech	NetworkRail
the transportation		et	Senegal	Republic	
process					
	شركة تونسد للشبكة الحديدية السريحة Société du Réseau Ferroviaire Rapide de Tunis		a	<b>27</b> 00	Sin Sin Hsu, Director
ODENSE	<b>Latifa Jardak,</b> Head	euskal trenbide sarea	CO		of Track Engineering,
ODENSE LETBANE	of International	Javier Astarloa,	CETUD	Správa žolezniční dopravní costy	Network Rail High
	Relations, RFR Tunis	Maintenance and	CETUD	Radek Cech,	Speed - HS1
Managa Hanalakaan	(confirmed)	Operations, <b>ETS</b>	Thierno Aw,	Director of Strategy,	(confirmed)
Mogens Hagelskaer, CEO, Odense	(committee)	(confirmed)	Directeur Général,	SZDC - Správa	,
Letbane (confirmed)		,	Conseil exécutif des	Zelezniční Dopravní	
Nicole Eckiert,			Transports urbains	Cesty	
Bid Manager,			de Dakar	(confirmed)	
S-Bahn München			(confirmed)		
25 Knowledge	26 Investing in the	27 Key hurdles to	28 Automation in	29 What is IOTA's	30Investing in
management in the	right suppliers to	developing railway	Vienna: discussing	vision for blockchain	Sustainability at NS
heart of Italy's	optimise the future	networks in	the operational	and distributed	•
national operator.	of our market	Cambodia and the	challenges of a	ledger technology in	
How can we ensure		ASEAN region	conversion project	the world of	64
best practise is	TRAFIKVERKET	Statuta do Esp	#IENER LINIEN	mobility?	
ready for tenders					
internationally?			Nikolaus Panzera,		Senior Executives,
FERROVIE	Camilla Ahston,	Coto Ouls Doputy	UTO operations,		Nederlandse
DELLO STATO	Senior International	<b>Sota Ouk,</b> Deputy Director of Railway	Wiener Linien		Spoorwegen
Duilio Fatti,	Strategist,	Department,	(confirmed)	Alisa Maas. Head	
Head of	Purchasing &	Cambodian Ministry		of Mobility <b>, IOTA</b>	
Knowledge and	Logistics, <b>Trafik</b>	of Transport		Foundation	
Interfaces	Verket (confirmed)	(confirmed)		(confirmed)	
Management,					
Ferrovie Dello					
Stato (confirmed					
31 Preparing for the	32 How can rail		33 Evaluating the	34 Understanding	35 How can cities,
future of rolling	operators ensure		future energy mix:	the potential of	and operators
stock	sustainability is a		hydrail, battery,	GNSS for rail	optimise funding
	priority across the		diesel hydbrid and		models for new
	company?		electrification		systems &
<b>eco</b> raíl	NSB		<b>NetworkRail</b>	IFSTTAR	Networks?
Juan Antonio	1420			A STATE OF THE STA	0
Cuesta, Director,					spårvagns städerna
Ecorail (confirmed)			Rory Dickerson,	Juliette Marais,	staderna
	Margrethe		Senior Engineer,	Researcher GNSS,	
	Sagevik, Head of		Network Rail	IFSTTAR (Confirmed)	Hans Cruse,
	Sustainability,		(Confirmed)		Director, Sparvagns
	NSB (Confirmed)				Staderna
					(Confirmed)

## 5<sup>th</sup> March Technology Summits and Site Visits

The summits will begin with a welcoming and networking lunch at 12.00 at the Bilbao Exhibition Centre

## **Digital & IoT**

#### 5<sup>th</sup> March 2019

#### IOT and AI

#### 14:00 Digital innovation for asset management on the Indian Railway

- How is India looking at the opportunities available from data, IOT and AI?
- Designing Greenfield urban networks which facilitate technological innovation

Nalinaksh Vyas, Chairman Technology, Mission for Indian Railways (confirmed)

#### 14:20 Digitising the swiss rail industry: the role of technology in shaping the future of rail freight

- How does a digital strategy fit into SBB Cargo's vision for the future?
- Automation in Cargo: How are we using automation technology to optimise our operations?
- Evaluating technology appropriately? Do Blockchain, Al and IoT all have a role to play in rail?

Anja Maria Sonntag, Head of Transformation Asset Management, SBB Cargo (confirmed)

14:40 PANEL: Defining the future of rail: how can rail operators innovate effectively:

#### **Topics include:**

- Implementing innovative data and IOT: how can you prepare your network effectively
- Changing internal working methods: the best approaches for effective innovation

#### Panellists include:

**Christian Höcker**, Director, Think Tank Digitalisation & Technology, **Deutsche Bahn** (confirmed) **Anja Maria Sonntag**, Head of Transformation Asset Management, **SBB Cargo** 

#### 15:20 Afternoon networking break

#### **INNOVATING IN RAIL**

#### 16:00 Digitising the Cologne Transport Network for modern operations

- Retro-fitting our fleet to modern digital standards: what does this involve?
- Sharing our progress so far: working towards regular data updates from our rolling stock
- Making sure our technical steering system allows us to effectively catch problems before they arise

Jörn Schwanze, CTO, KVB (confirmed)

16:15 Preparing for the digital future of rail

- How can the rail industry effectively keep pace with technology?
- Developing an effective relationship across the industry on a network, national and international scale to deliver change
- The reality of implementing IOT and AI based innovation in rail: is it a game changer?

#### Philippe Citroen, General Director, Unife (Confirmed)

16:30	Round	l Table discussions		
Accurately assessing the commercial drivers of investing in big data technology & applications?  Mathias Linden, Researcher, University of Koblenz-Landau (confirmed)	How can you digitally augment your business?	Who owns your data?	Defining the digitisation of the railway network: How can rail operators set out a workable strategy?	How can rail operators successfully implement smart maintenance?
Landau (commineu)	Stefan Roth, Entrepreneur, VR, Deutsche Bahn Systel (confirmed)	James Brown, Data and Performance Engineer, Angel Trains (Confirmed)	Florian Kappler, Project Leader & Business Architect, Smartrail 4.0, BLS (Confirmed)	Phuc Nguyen, Head of Maintenance, Leo Express (Confirmed)

## **Light Rail Power and Safety**

#### 5<sup>th</sup> March 2019

#### **LIGHT RAIL SUMMIT**

#### 12:00 Networking lunch

#### 14.00 The rise of the tram-train in Cardiff and South Wales Metro

- The story behind the transformation of Cardiff's urban rail offering
- Why we have chosen to integrate tram-trains into our system.
- Choosing traction to fit with local conditions

#### Richard Briggs, Senior Project Engineer, Transport for Wales (confirmed)

#### 14.20 How have battery technology and smart charging revolutionised our light rail system?

- Combining power systems for ultimate sustainability
- Maintaining and operating light rail in
- Our IoT fuelled maintenance depot and its effect on operations

#### André von der Marck, Director General, Luxtram (Confirmed)

14:40 Sponsor presentation

#### 15.00 Taking Johannesburg's rail off the grid through intelligent, green and sustainable mobility technology

- How can we power our transport system using solar energy?
- The development of Gautrain: where next for South Africa's landmark urban rail project?

Chelina Bodhie, Senior Manager: Environmental, Health and Safety, Gautrain Management Agency (confirmed)

#### 15.20 Afternoon networking break

#### **LIGHT RAIL SAFETY SUMMIT**

#### 16.00 What should operators, or operational departments, look like to be prepared for the future?

- Is a public owned service operator different from any kind of business sector/company or do we face the same challenges and should work with the same approaches and solutions?
- How do we break down silos in our companies and develop our procedures to be more customer oriented in order to face the increasingly demanding passenger expectations?
- How do big data, IoT and digitalization influence our light rail business and how can we use them best?

Thomas Kritzer, Head of Tramway Division, Wiener Linien (confirmed)

#### 16.15 PANEL: Combining sophisticated safety technology with light rail systems and employees

- As technology develops at an increasingly rapid speed, how can authorities and operators work together to match the pace of innovation?
- Can and should we be aiming for autonomous/unmanned trams?
- What should we be prioritising as safety strategies are developed in a post-Croydon world?

James Hammett, Managing Director, UKTram (confirmed)

Andrés Muñoz, General Manager Metro Tenerife (confirmed)

Thomas Kritzer, Head of Tramway Division, Wiener Linien (confirmed)

#### **Stations Summit**

#### 5<sup>th</sup> March 2019

#### STATION OF THE FUTURE

Chaired by: Barend Kuenen, Director of Stations Management & Exploitation, NS Stations

12:00 Networking lunch

#### 14:00 The creation of digital stations using IoT & data analytics

- The digital transformation of the station and how this will develop into the future with LoRa & IoT
- Understand the capabilities of WIFI enabled smart-clocks in monitoring passenger flow & journey data
- Enabling 'agile' operations through digital platforms and predictive analytics

Olga Willner, Project Lead IoT & Data Analytics, DB Stations&Service (confirmed)

14:15 Sam Li, Senior Innovation Officer, Transport for Greater Manchester (confirmed)

#### 14:30 The role of ticketing in the capacity of the railway station

- As customer flow and overcrowding become concerns, how will future ticketing play a role?
- Beacon, GPS and in-app solutions; Barrier less ticketing and the opportunities this will bring
- How can operators benefit from smart ticketing solutions effectively?

Artur Fojud, Project Manager Shift2Rail, PKP (invited)

#### 14:45 PANEL: What will drive innovation for the station of the future?

- Design with the changing role of the station as a critical part of the journey and city
- Designing future stations with flexibility and technology at the core
- How can operators effectively provide innovative solutions to today's station problems?

#### Panellists:

Jonathan Chatfield, Head of Policy, Rail Delivery Group (confirmed)

Koen Van Lancker, Head of Investments & Real Estate – Stations, SNCB (confirmed)

15:15 Afternoon networking break

#### **STATION CASE STUDIES**

#### 16:00 Reinventing the role of the railway station in the cultural life of the city

- Using customer data and insights to approach the construction of the station as a hub and with easy flow
- Providing new services for customers such as works spaces, lounges and delivery services
- Enhancing existing stations as part of a high-speed rail project

Mohamed Chahid, Assets Valorization Director, ONCF (confirmed)

#### 16:15 Sponsor presentation

#### 16:30 Roundtables

Barrier-less access in the station: what will the future of stations feel like?

Delivering a complex rail project effectively: understanding how to work effectively with stakeholders

Standardisation across small stations: how can this be achieved?

Extending the Mernda Rail Network and developing the community



Arja Aalto, Passenger Traffic Specialist, Finnish Transport Agency





17:00 Networking drinks

## **Ticketing & MaaS**

#### 5<sup>th</sup> March 2019

#### **FUTURE TICKETING OPPORTUNITIES**

Chaired by: Ian Wright, Head of Innovation & Partnerships, Transport Focus

12:00 Welcome lunch & networking

#### 14:00 Implementing integrated ticketing systems on a regional scale

- Evaluate the business case for updating ticket offerings to an integrated system
- Overcoming the challenges of legacy technology when implementing multimodal tickets
- Predicting how these technologies will further evolve in the future

Sherisse Shelton-Smith, Smart Ticketing Manager, Govia Thameslink Railway (confirmed)

14:15

Mark Langmead, Director Compass Operations, Translink (confirmed)

#### 14:30 Understanding smart ticketing and account-based payment technology

- Discover how the smart card can be used more effectively and developed for multipurpose use
- Understand the technology and digital framework behind integrated and account-based payments
- How can seamless UX be maintained alongside digital infrastructure complexities?

Julija Balinova, E- Ticketing Project Manager, Rigas Satiksme (confirmed)

#### 14:45 PANEL: What are the impacts of innovative ticketing technologies on transport and infrastructure?

- Discuss the relevance and longevity of the smart card
- How will the implementation of futuristic NFC, beacons, biometrics and implants affect operations and overall strategy?
- What are the possibilities for using blockchain in ticketing for transport?

Gordon Hanning, Head of Concession Travel & Integrated Ticketing, Transport Scotland (confirmed)

Mark Langmead, Director Compass Operations, Translink (confirmed)

Vinod Bhatia, General Manager Centre for Railway Information Systems, Ministry of Railways India (confirmed)

15:15 Afternoon Networking Break

#### **URBAN & REGIONAL MOBILITY**

16:00 Overcoming the barriers of regional MaaS

Lidia Signor, Support Manager, Urban Mobility and MaaS Alliance, ERTICO (confirmed)

#### 16:15 The creation of seamless, journeys: from idea to reality

• Learn how cities and operators are collaborating to develop new mobility options in existing transport

#### ecosystems

- Compare operational requirements of rural and urban areas and the effect of population densities
- How are NSB developing their mobility offerings?

#### Kristian Kolind, Director of Mobility Services, NSB (confirmed)

#### 16:30 Roundtables

How can rail innovate, collaborate and remain relevant as huge mobility changes continue to impact the transport industry?



Kristian Kolind,
Director of Mobility
Services, NSB
(confirmed)

Why accessible data is crucial to MaaS: how can operators and legislators collaborate to create open transport ecosystems?



Janne Hauta,
Ministerial Adviser,
Data Business unit,
Data Department,
MOTC Finland
(confirmed)

How can automation and digitalisation unburden the infrastructural outlook of mass transit systems?



Andrea Bruschi,
Transportation &
Mobility Planner,
Feasibility Studies,
Directorate for
Mobility Systems,
MM Spa (confirmed)

Exploring how transport operators can collaborate with industry 'disruptors' towards the future of mobility



Alvaro Salvat, General Manager – Spain, Lime (confirmed) Thinking outside the box to provide innovative, additional services for passengers using smart cards & e-tickets

Hugo Oljemark,
Managing Director,
Bergslagen
(confirmed)

17:00 Networking drinks

## **Finance & Funding**

#### 5<sup>th</sup> March 2019

#### FINANCE AND FUNDING

Chaired by: Doris Chevalier, CEO, Infraboost

12:00 Welcome lunch & networking

14.00 Where are the main obstacles for attracting funds for infrastructure projects?

• Bottlenecks in transport infrastructure

Oleksandra Klitina, Senior Advisor, Ministry of infrastructure of Ukraine (Confirmed)

#### 14.15 How Metro Dublin are upgrading urban rail in the region using an intelligent capital investment strategy.

- How we are planning to learn from successful projects globally and the innovative strategy we have developed to realise this project
- Incorporating new streams of income and revenue to maximise on the benefits of transport infrastructure
- The keys to creating an urban rail system to service one of Europe's fastest growing economic centres

Cormac Rabbitt, Managing Director, Metro Dublin (Confirmed)

#### 14.30 The keys to India's high-speed and urban tendering: the playbook to understanding the market

- Unlocking the potential of high-speed rail in India through intelligent finance.
- The steps we need to take to create a smooth tender and project management process
- Case study: the role of JICA and the Mumbai -Ahmedabad line

Bhupinder Singh Bedi, PPP and Procurement Expert, Asian Development Bank (confirmed)

## 14.45 PANEL: Closing the funding gap: which financial tools do we have to realise complex transport infrastructure projects?

- The benefits and disadvantages of PPPs the ever more complex world of PPPs and how we can use them to our advantage
- What can operators and governments do to attract private capital to invest in infrastructure projects?
- The challenges of public and private sector collaboration and financing in emerging markets
- In the case of increasing interest rates how can we continue to attract investment into rail and infrastructure?

Bhupinder Singh Bedi, PPP and Procurement Expert, Asian Development Bank (confirmed)

Andrea Giuricin, CEO, TRA Consulting (confirmed)

Carlo Scarpa, President, Brescia Mobilitá (confirmed)

Gani Tazhiyev, Executive Director, Almaty LRT Project (confirmed)

#### 15:20 Afternoon networking break

#### **Tenders and Procurement process**

#### 16:00 What lessons have Brescia learnt from Italy's premier innovative PPP funding strategy?

- The key strategies behind the scenes of Brescia's Automatic metro system
- How are we planning in repeating the success of our previous projects to expand our system in Brescia?

• What improvements can be made to our PPP agreement to grant us flexibility in the development process?

Carlo Scarpa, President, Brescia Mobilitá (Confirmed)

#### 16.15 How to build a smooth tender process

- What are the common challenges faced by operators and authorities looking to fund projects?
- Understanding and evaluating risk in the railway sector and incorporating this into the tender process
- Tenders on an international scale: experience from a life in public infrastructure

Steen Lykke, Technical Director and Chief Operating Officer, Odense Letbane (confirmed)

#### 16.30 Roundtables

How can we encourage the shift to rail through the recovery of infrastructure?



Nedim Begovic, Deputy Director, WB6 SEETO (confirmed in principle) Challenges for competition and liberalization of railway sector market in Ukraine. Green logistics and innovation projects.



Larysa Nazarenko, Railway Sector Reform Unit, Ukrainian Ministry of Infrastructure (confirmed) Light Rail development in Albania and the Western Balkans



Eneida Elezi, Institutional Relations, Albanian Railways (HSH) (Confirmed) Funding Rail through third party investments. What are public organisations' choices?



Gani Tazhiyev, Executive Director, Almaty LRT Project (Confirmed)

17:00 Networking drinks

## **Intelligent Infra Technology Summit**

#### 5th March 2019

#### THE FUTURE OF INFRASTRUCTURE INSPECTION

#### 14.00 Chairs welcome

#### 14.05 Ultra-Light vehicles with Artificial Intelligence perception for autonomous inspection on railway lines

- Building an autonomous inspection vehicle fit for inspection at up to 100 kilometres per hour with 20 km of autonomy
- Developing 2D/3D laser scanners and radars dedicated to measuring the loading gauge and obstacle detection
- Leveraging Artificial Intelligence anomaly detection, with technology specifically adapted to the extremes of railway infrastructure

Eugenio Fedeli, Head of R&D, Rete Ferroviaria Italiana (Confirmed)

#### 14.25 The advance of drone inspection in the railway industry

- Incorporating geo-spatial data and rapid data analysis for smooth maintenance
- The regulatory challenges faced by drone operation and how we are overcoming this.
- What are the potential future uses of drones in the railway sector?

#### Wolfgang Zottl, Leader Innovation Team, OBB Infrastruktur (Confirmed)

#### 14.40 Intelligent pantoraph development for improved operational efficiency

- How can we combine automated inspection with the predictive algorithms that are transforming maintenance?
- What steps do we need to take to automate procedures?
- What impact is this having on operations around the world
- •

#### **Sponsor presentation**

#### 14.55 The rise of automation in infrastructure inspection.

- What role will drones play in the future of inspection?
- Managing vast data streams and combining them with the humans that use them
- How can we use smart infrastructure feed into inspection and vice versa?

#### Estelle Bongini, Project Manager, SNCF Reseau (Confirmed)

#### 15:20 Afternoon Networking Break

16.00 How have Infrabel modernised their inspection programme using drones, smart infrastructure and computer vision?

#### Cédric Cecotti, Telecom BCC Manager Technology Innovation Officer, Infrabel (confirmed)

#### 16.30 Roundtable discussions

Using sensor technology		What are the next steps	Using sensors in
to perceive the railway		for SNCF Réseau's	pantograph
environment	Chris Rowley, Senior	inspection programme	maintenance
	Engineer, Network Rail		

DB NETZE		<b>Estelle Bongini,</b> Research Engineer, <b>SNCF Réseau</b>				
Martin Köppel, Intelligent PerCeption (IPC), DB Netz AG (confirmed)						
17.00 Welcome drinks reception						

## 6<sup>th</sup> –7<sup>th</sup> March Conference Agenda

#### Metro

#### 6th March 2019

#### **CEO STRATEGY**

#### Moderated by: Nicholas Owen, Journalist and Rail Enthusiast, BBC

#### 12.35 The future of mobility in Mumbai: One of India's largest infrastructure projects

- Revolutionising transport through our €25 billion project
- How are we preparing for the capacity needed in 2030?
- Which technologies are we looking to incorporate as part of our plans?

#### Ashwini Bhide, Managing Director, Mumbai Metro Rail Corporation (confirmed)

#### 12.55 What are the important lessons learned to improve a Metro PPP project?

- What are the key factors that we are looking at around a Metro PPP project?
- How can we look to build a smooth efficient tender process?
- The process of PPP project structuring and risk assessment.

#### Juan Fores Lojo, Commercial Director, CAF Investment Projects

## 13.10 How can we develop urban transport infrastructure and commuter rail systems with a focus on the passenger?

- Keeping a customer informed for maximum awareness
- Technology focus: how will our people interact with the new fleet?
- How much data can we actually optimise before technology becomes a hinderance?

Heiko Büttner, Chairman, Munich S – Bahn (confirmed)

#### 13.30 Networking Lunch

#### **PROJECT DEVELOPMENT**

#### 15.00 TfL's Major Projects Directorate: Delivering the Mayor's Transport Strategy for London

- Who we are, what we do and why we were created?
- Our purpose and mission and how we intend to deliver on our promise.
- An overview of TfL Major Projects work bank and the legacy that we will deliver.

#### Stuart Harvey, Director of Major Projects Directorate, Transport for London (Confirmed)

#### 15.15 How can technology and tailor-made solutions improve mobility in metropolitan areas?

- Universal accessibility: How to make rail vehicles accessible to everyone, safer and more friendly for passengers with limited mobility?
- Tailor-made efficient rolling stock that is designed to adapt to every need.
- Case studies and project experiences of Stadler

#### Mar Rivas, Business Development, Marketing and Communication, Stadler Rail Valencia

15.30 What are the digital demands of the modern urban traveller and how can you make investment decisions based on a rapidly moving technological landscape?

- A profile of today's urban rail user: Always connected, multimodal, mobile only and active on social media
- How can we use the digital revolution to boost ridership What are the internal constraints of urban rail operators that stop us from connecting with our passengers?
- Ensuring that the technology you choose to invest in matches the demands of your passengers, both today and in the future

Jim Gallagher, COO, LA Metro (Confirmed)

#### 15.45. Sponsor presentation

#### 16:00 How have Metro Taipei used intelligent asset management to develop the world's most reliable metro?

- How TRTC developed their asset management system: what are the key factors in play?
- Using preventive maintenance & management for full-asset life cycles
- Leveraging strategies of Asset Service Life Extension for rolling stock

#### BC Yen, President, Metro Taipei (Confirmed)

- 16:20 Afternoon networking break
- 17.00 Closing Keynotes Session see keynotes section above for details
- 18.00 Close of Day 1 Evening Drinks Reception at San Mamés Stadium

#### 7<sup>th</sup> March 2019 LATIN AMERICA

#### 11.20 Global Project Roundtables

#### 12.35 Developing urban mobility in one of the world's biggest metro systems

- The largest upgrades in the history of the network. What steps will we take?
- The Mexico City Metro system: how we are building a modern, connected commuter rail system
- Continuing investment and our plans for the future of transport in the Distrito Federal

Senior Director, Mexico City Metro (invited)

## 12.50 What impact will the introduction of Intelligent point machines with integrated monitoring-optimised have on narrow-gauge systems?

- How we improve the availability and decrease maintenance costs of turnout and switch machines using automatic self-diagnostic systems
- How we then decrease the construction costs of Metro, LRT and Mining infrastructures with Narrow Gauge Systems and full heavy-rail features

Daniel Álvarez González, Sales Manager, voestalpine SIGNALING (Confirmed)

#### 13.00. Welcome address

#### Borja Carabante, CEO, Metro de Madrid (Invited)

- 13.05 The future of transport development in Latin America.
  - What role can public transport play in the future of LatAm development?

- What is the scope for new projects in Latin America and how has policy changed to make new projects more viable?
- What is the future of long distance passenger rail in the region?

Moderated by: Senior Director, ICEX

Jaime Adasme, Director of Project Development, Metro de Santiago (confirmed in principle)
Jorge Yanez, CEO, Metro de Quito (Confirmed)
Elizabeth Briceno Jiménez, President, INCOFER Costa Rica (Confirmed)
Mauro Alabuenas, Vicepresident, SBASE (confirmed)

#### 13.40 Networking Lunch

#### PASSENGER EXPERIENCE INNOVATION

#### 15.00 Innovation: the story of our digital transformation into a future ready transport organisation

- What has been the impact of our innovation team and the shifting priorities of urban transport authorities?
- What key areas have we identified for digital development and innovation in metro systems?
- How will we be able to adapt our systems and technology to the demands of tomorrow's passenger?

Albert Tortajada, Director of Infrastructure, FGC Ferrocarrils de la Generalitat de Catalunya (confirmed)

#### 15.20 Milan's data revolution: The impact of contactless payments on transport operations

- The immediate impacts of contactless on passenger experience in a metro system
- How can we then leverage the onslaught of data to ensure we have a more reliable network?
- The importance of knowledge management and feedback loops in metro organisations

Roberto Andreoli, CIO, ATM Milan (Confirmed)

16.00 End of Conference – See you next year

## **Mega Projects**

#### 6<sup>th</sup> March 2019

#### **REGIONAL MEGAPROJECTS**

#### Chaired by: Andrea Giurcin, CEO, TRA Consulting

#### 12:40 Connecting UK hubs with domestic high-speed services

- Capitalising on the demand for inter-city transport services in the UK
- Managing the socio-political impacts of huge-scale infrastructure works
- Comprehend the effects of high-speed on the wider strategy for transport

**Andrew McNaughton, Strategic Technical Advisor, HS2 (confirmed)** 

#### 13:00 Reserved for Acciona

#### 13:15 The challenges of increasing connectivity in Sweden and investing in new infrastructure

- Optimising inter-city & suburban to urban connectivity with improved transport links
- Comprehend the socioeconomic impacts and benefits of large-scale projects during and after construction
- Breaking down how planning and permissions processes can be navigated

Johan Sundin, Head of Strategic Construction Support, East Link Project, Trafikverket (confirmed)

#### 13:30 Networking Lunch

#### **HIGH SPEED RAIL CONSTRUCTION**

#### 15:00 Connecting European & Baltic hubs with new infrastructure

- Navigating the complexities of a regional project with five EU member countries
- Determining the most feasible route for the railway and overcoming the challenges of connecting to existing networks
- Evaluate the socio-economic benefits and longevity of these strategies as traffic flows between hubs increase

Kaspars Rokens, COO, Rail Baltica (confirmed)

#### 15:15 The future of railways: is it Hyperloop?

Dieter Michell-Auli, Chief Sales Officer, DB Engineering & Consulting (confirmed)

#### 15:30 Building a Texan high-speed line from the bottom up

- Managing cross-border stakeholder complexities
- · Creating a balance between convenient service and speed whilst maintaining overall profitability
- Overcoming the challenges of integrating into an existing high-commuter market

Tim Keith, President, Texas Central HSR (confirmed)

#### 15:45 Reserved for LEK Consulting

#### 16:00 Creating immersed, fixed transport links across Fehmarnbelt

- Understand the challenges and history of the new tunnel's construction
- Outlining the benefits for the future users of this fixed link
- Evaluating the scope and solution for the tunnel

Jens Ole Kaslund, E&M Contract Director, Femern (confirmed)

16:20 Afternoon Networking Break

#### **AFTERNOON PLENARY SESSIONS**

17:00 Platinum sponsor presentation

17:15 Closing keynote panel

18:00 Evening drinks reception

#### 7th March 2019

#### **MODERNISATION AND EXPANSION**

Chaired by: Andrea Giurcin, CEO, TRA Consulting

11.20 Global Project Roundtables

#### 12:35 How collaboration is key to international expansion in Malaysia and beyond

- Evaluating evolving passenger demands for international transport links
- Collaborating with international players to accelerate planning stages
- Predicting future trends for international expansions

Mark Loader, Project Director, MyHSR (confirmed)

12:50 Tim Wood, Northern Powerhouse Rail Director, Transport for the North (confirmed)

#### 13:05 Modernising transport links on a national scale in Argentina

- Argentina's National Railway Transport Plan to recover the rail freight network
- Modernisation of passenger lines
- Overcoming the challenges of securing financing for these projects

Matias Uslenghi, Manager of Strategic Planning, Argentine Railway Infrastructure (TAI) (confirmed)

13:25 Zachary Chissell, Manager of Project Development, Maryland Transit Administration (invited)

13:40 End of Mega Projects programme – see you next year!

**Networking lunch** 

## **Digital and IoT**

#### 6th March 2019

#### **RAIL REVOLUTION**

#### 12:40 Outlining the Smartrail 4.0 vision of a digitally connected railway

- Investing in the railway of the future the role of train control, Infrastructure IT and software
- Deep diving into some real examples: updating interlocking for the 21st Century
- Challenging the international industry to work together and create standards for effective innovation

Yves Zischek, Leader, Smartrail 4.0, SBB (confirmed)

## 13:00 How is Danobat's advance technology leveraging highly accurate wheel measurements and wheel reprofiling systems for maximum operating efficiency

- How non-stop data is helping operators to make smart maintenance a reality
- Technological innovation to simplify data maintenance
- How to reduce inspection and maximise interventions

#### Ander Azkarate, Strategic Innovation Manager, Danobat (Confirmed)

#### 13:15 The future of innovation and the Digital Railway at Deutsche Bahn and beyond

- How to ensure a coherent approach to digital projects at DB?
- Which technologies are on the horizon for DB and how can we ready are workforce for them?
- Open data: Sharing our progress in implementing a digital railway of the future: and how can the international community work with us for success

#### Rolf Hardi, CTIO, DB (confirmed)

#### 13:30 Networking Lunch

#### **INVESTING IN DIGITAL**

#### 15:00 Competing with a new digital business model for railways

- Completely reinventing the railway: the key areas ripe for disruption
- The importance of customer services: understanding what our customers need and how we can deliver
- The SNCF Fret story so far: what have our key successes been so far?

#### Bertrand Minary, Chief Innovation & Digital Office, SNCF Fret (confirmed)

#### 15:15 LeadMind: CAF's Digital Train Platform

- Our roadmap to Innovation: what does the future look like?
- Using advanced analytics to improve safety, LCC and energy efficiency
- Discussing the main LeadMind benefits for maintainers and operators

#### Javier De La Cruz, Head of Digital Transformation, CAF Rail Services (confirmed)

#### 15:30 Shift2Rail, developing the future of rail across Europe: which are the digital innovations to come?

- Digitalisation is impacting all rail market segments
- From technology to rail solutions and steps towards implementation
- Looking to the future: new business models and multimodality

#### Giorgio Travaini, Head of Research & Innovation, Shift2Rail Joint Undertaking (confirmed)

#### 15:45 Automation in rail - Improving rail operations efficiently

• Areas of automation and its challenges

- How IoT and analytics can contribute to it
- Concrete real life examples
- The impact on Cyber Security for Rail in that area

Karsten Oberle, Global Practice Lead, Railway, Nokia (confirmed)

#### 16:00 Understanding asset management as a cornerstone of the future rail network

- Why is asset management a key area for innovation and development: what are we working towards?
- How can rail operators ensure they delivering real value
- Navigating challenges from internal working methods to overcoming digital

Jude Carey, Head of Asset Management, Irish rail (Confirmed)

## 16:15 End of Digital Stream - See Plenary sessions for the rest of the scheduled sessions

**AFTERNOON PLENARY SESSIONS** 

## 17:00 Platinum sponsor presentation

17:15 Closing keynote panel

18:00 Evening drinks reception

#### 7<sup>th</sup> March 2019

#### **IOT & MAINTENANCE**

#### 12:35 Implementing a Smart Asset Management Program: building foundations for the future

- From conception to delivery: A snapshot of our asset maintenance journey
- Prioritising asset data and maintenance systems to build data insights
- Looking ahead to IOT and AI implementation: how will these technologies help us?

Bonnie Tam, EAM Program Executive, Assetlinx, Metrolinx (Confirmed)

#### 12:50 "Success as a Service": The disruptive business model for digital railways

- Why a Software as a Service (SaaS) business model is nowadays obsolete and a risky investment for a railway authority?
- What are the main risks of a digital transformation process focused on predictive maintenance implementation?
- How can a railway authority avoid those risks and make the step forward with guarantees?

Luis Fernandez, Business Development, NEM Solutions (Confirmed)

13:05 Sponsor presentation

13:20 Cheng Chiu

#### 13:40 Networking Lunch

#### **DIGITAL FOR THE FUTURE**

# 15:00 Driving innovation successfully: building and enhance prototypes, show business cases and creating real change

- Growing digital capabilities at OBB: Deep diving into our world
- Developing a Data platform from prototype through to operational performance
- Building further capabilities on top of this platform

**Gerald Schinagl,** Director, Digital Innovation, **OeBB** (Confirmed)

15:15 Sponsor presentation

## 15:30 Using digital to build the urban metro network of the future

- How has Maha-Metro involved new technologies as key assets driving the project forward?
- Designing the metro of the future, with digital as a priority from the start
- Sharing key learnings so far around 5D BIM

Dr. Brijesh Dixit, Managing Director, Maha-Metro (Confirmed)

**End of Rail Live 2019** 

## **Light Rail**

#### 6th March 2019

#### **INTER MODALITY**

## 12:35 How are Manchester looking to spread the benefits of high speed rail through continued operational excellence and intermodality?

- Future aspirations and strategies around HS2 and "northern powerhouse rail" what it will mean for the network
- Future aspirations around intermodality tied into rail, bus, tram-train the importance of ticketing and customer information
- Allocating risk for operational excellence: key contracting models including our partnership model for Metrolink

## Danny Vaughan, Head of Metrolink Tram, Transport for Greater Manchester (confirmed)

# 12:55 Low Carbon, and Low Carbon Vanadium (LCV) for Grooved Tramway Rails with wear performance and life estimation of LCV rails

- What are the advantages of LCV when compared to the use of High Carbon rails for urban and city transit?
- The impact of LCV rail microstructure on wear and how does this provide an extended rail life for new grades?
- Low Carbon Grooved rail: The importance of weldability

Juan José Gainza, Product Manager, ArcelorMittal (confirmed)
David Alvarez, Research Engineer- Global R&D, ArcelorMittal (confirmed)

#### 13:10 Intermodality as a centrepoint of development and strategy in Algeria

- 20 years of growth in Algeria a story of extraordinary transport infrastructure growth.
- Design, management and construction of light rail projects across different cities
- Incorporation of different modes including cable cars, metro and light rail

Hadbi Aomar, CEO, Algiers Metro (EMA Enterprise de Metro d'Alger) (confirmed)

## 13.30 Networking Lunch

## **SMART CITIES & LIGHT RAIL**

#### 15:00 EuskoTren: the development of a global mobility railway operator

- The beginnings and growth of the Public Transport Operator Euskotren since it's inception
- How do we analyse the operations of trams, metro, regional commuter trains, buses and cable car operations?
- What is next in terms of the strategy, trends and forecasted operations, risks and threats.

Iñaki Uriarte, New Operations Director, Euskotren (confirmed)

#### 15:15 Using IoT and digitalisation to develop Light Rail Transit design that is ready for the rise of AVs

- How can we build systems that can match ever increasing passenger experience demands?
- What is the impact of the changing configuration of cities on the operation of light rail systems?
- How can we integrate a thorough sustainability policy through intelligent use of materials and energy efficiency?

#### Maria C. Ortega, Urban Light Transport Manager, IDOM (confirmed)

## 15.30 Integrating design and the emphasis on collaboration with partners for the transport system in Vancouver

- The development of new lines in Vancouver and the collaborative decision process with local governments and third party developers
- How these new lines will integrate with our system as a whole to achieve economic, environmental and transportation objectives
- What are the key factors and conditions to consider when planning and approving new lines and developing a green city.

#### Geoff Cross, Vice-President, Planning & Policy, TransLink

#### 15:45 Combining Light-Rail, TOD and Smart Cities

- Transport system design in the context of a modern, digital city
- How can we incorporate and operate light rail to relieve congestion in a safe, practical way?
- Which digital technology should we be looking towards to help us meet our goals of capacity, sustainability and safety?

Ferenc Friedl, Innovation Senior Associate, Mobility Strategy and Innovation, BKK Budapest (Confirmed)
Geoff Cross, Vice-President, Planning & Policy, TransLink (Confirmed)
Erin Moroz, Principal Sponsor, Metrolinx (Invited)

Eduard Cabrera, Head of Infrastructure, ATM Barcelona (Confirmed)

#### Reserved for sponsor

#### **AFTERNOON PLENARY SESSIONS**

## 16:20 Afternoon networking break

17:00 Closing Keynotes Session – see keynotes section above for details

18:00 Close of Day 1 - Evening Drinks Reception at San Mamés Stadium

## 7<sup>th</sup> March 2019

#### **DIGITALISATION AND AUTOMATION**

## 12.35 Digitalisation and innovation at the heart of the Midland Metro Alliance

- Leveraging geolocation tools and big data combined with BIM for flexible, real-time construction
- Using standardisation to deliver flexible, intermodal hubs for tram systems
- How to interact with start-ups to ensure we welcome innovation into our projects

Alejandro Moreno, Director, Midland Metro Alliance (Confirmed)

#### 12:50 Using WiFi signal to extract origin-destination patterns in public transport

- Commitments and challenges of trams
- IoT & Big Data for efficient transport planning
- Project proposal and technical solution by EURECAT

Laia Garriga Mas, Business Development Manager - Rail Industry & Logistics, EURECAT

## 13.05 Why are Rail Operators looking to deep data analysis to improve their maintenance and reliability?

What will be the impact of condtion based maintenance technology throughout our network?

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- What technology do we need to amke this possible?
- The future of light rail in Manila

Randy Sac, Head, Information Mgmt. & Technology, Light Rail Manila Corporation (confirmed)

13.20 Zaragoza Tram: a key component for the city against the climate change

- Analysis of the environmental impact of Zaragoza Tram Line 1
- Quantification of car traffic in Zaragoza before tram and now
- Energy saving and reduction of contaminant particles

Ana Moreno, CEO, Zaragoza Tramways (Confirmed)

## **Telecoms & Train Control**

#### 6<sup>th</sup> March 2019

#### **OPTIMISING GSM-R, LTE & TETRA**

Chaired by: Andy Harrison, Founder, Mim

#### 12:40 Telecoms modernisation and GSM-R implementation in the Czech Republic

- Get to grips with preparation and modernisation of railway lines required ahead of implementing digital radio systems
- Overhauling control command and signalling ERTMS in the Czech Republic with GSM-R
- Interpreting where future trends will evolve telecommunications and train control

Peter Kolar, Strategy Department, S.Z.D.C (confirmed)

#### 13:00 Integrated communications for transport: mission critical solutions based on TETRA and LTE

- The combination of LTE + TETRA to meet communication needs in the Transport sector
- Fulfilling operators' expectations concerning network performance, handover and mobility, reliability and management and maintenance
- Looking to the future with pure LTE solutions

Felipe Sanjuan, VP Sales, Global Integrators, Teltronic (confirmed)

#### 13:15 Critical radiocommunication systems for transportation

- Coping with increased demand for mass urban transit systems
- Optimising line capacity by modernising communications networks to a higher quality
- Navigating the complexities of using enhanced digital frequencies with legacy technologies

Amaia Bizkarguenaga, Itelazpi (confirmed)

#### 13:30 Networking lunch

#### **CYBERSECRITY**

#### 15:00 Creating robust cybersecurity strategies

- Evaluate the threat hacking poses to wireless communications networks in transport
- Prevent stepping-stone attacks by strengthening gaps in security
- Uncover the challenges of isolating hardware and software for passenger and operator systems

Efim Rozenberg, First Deputy General Director, NIIAS Russian Railways (subject to final confirmation)

#### 15:15 Sponsor presentation

15:30 PANEL: How can rail prepare for potential risks as operational connectivity advances and legacy technologies are evolved?

- What are the key methods of cyber-attack and data theft to be aware of and how can they be prevented?
- How can rail operators ensure that new cybersecurity components and software do not negatively impact safety?
- What can rail leaders do to embed cybersecurity into everyday workflows?

Christian Schlehuber, Team Leader Security OT, DB Netz (confirmed)

Michal Cieslik, Head of Service & Security Department, Wiener Linien (confirmed)

Efim Rozenberg, First Deputy General Director, NIIAS Russian Railways (subject to final confirmation)

16:20 Networking break

#### **AFTERNOON PLENARY SESSIONS**

17:00 Platinum sponsor presentation

17:15 Closing keynote panel

18:00 Evening drinks reception

#### 7<sup>th</sup> March 2019

## **COMMUNICATION-BASED AND AUTOMATED TRAIN CONTROLS**

Chaired by: Andy Harrison, Founder, Mim

#### 12:35 Sharing East Japan Railway's latest train control technology

- Why did we develop a new train control technology?
- Developing an economic business case for using this technology on secondary route networks
- Sharing the impact of this technology on our services

Koki Mitsuzaka, Assistant Director, Japan East Railway (confirmed)

## 12:50 The best-performing Wireless solutions for Train-To-Ground communications

- Train-to-Ground communications: key requirements, features and advantages of unlicensed-spectrum wireless solutions
- Mission-critical and non-mission-critical: What applications can my wireless network realistically support?
- Deployment examples, case studies and trends for commuter trains, metropolitan rail and light trail

Marco Tagliabue, Sales Director EMEA, Fluidmesh (confirmed)

#### 13:05 Implementation and challenges of ETCS & ATO on a European scale

- Fulfilling demand for higher frequency, quality and energy saving on freight services along high traffic routes European corridors
- Executing the integration of ATO and ETCS systems with consistent and open interfaces
- Understanding the infrastructural challenges of automation and digitisation

Baseliyos Jacob, Senior ATO & ETCS Expert, DB Cargo (confirmed)

#### 13:25 Sponsor presentation

## 13:40 Networking lunch

## **FUTURE SIGNALLING SYSTEMS**

## 15:00 Migrating from a legacy system to a CBTC in a complex brownfield environment

- Implementing new signalling systems on a line with multiple developments from track layout and interlocking configuration/functionalities
- Mastering the different configurations and versions of the system
- Migrating with reduced on-site testing, thanks to modern-based design approach

**Jean-Baptiste Moussalem,** System Engineer, **SNCF** (confirmed) **Juliette Fournier,** System Engineer, CBTC Expert, **SNCF** (confirmed)

## 15:15 Behind the data of a rail signalling system

- Understanding signalling data and building data models to link and analyse transport network data sets
- Creating management value and insights through analytics
- Evaluating future prospects in signalling systems

## Jasmijn De Clercq, Data Scientist & Project Manager, Infrabel (confirmed)

## 15:30 Automating an existing metro line without traffic disruption: after Line 1, Line 4

- RATP's experience in metro modernization and automation
- Focus on Line automation: challenges, project organization
- Industrial strategy and key success factors

Amandine Moutte, Assistant Project Manager, Line 4 Automation Project, RATP (confirmed)

15:45 Close of conference - see you next year!

## **Stations**

#### 6th March 2019

#### PROJECT MANAGEMENT

Chaired by: Barend Kuenen, Director of Stations Management & Exploitation, NS Stations

#### 12:40 Managing station upgrade projects effectively to minimise impacts on customers

- Working effectively to optimise the benefits of digitisation in the building process
- Building our station with the customer in focus: how we planned the project around the customer
- Understanding how we effectively minimised delays and doubled capacity with effective project management

Sudath Amaratunga, Rail Project Strategist, Transport for New South Wales (confirmed)

#### 13:00 Sponsor presentation

## 13:15 Fuelling station design with passenger experience and smart-technology

- Developing stations from scratch at HS2: what are our key goals in the design phase?
- Managing projects whilst maintaining overall strategy and analysing outside-in inspirations
- Evaluating key smart technologies for predictive analytics and improved passenger flow

Johannah Randall, Head of Stations Operations, HS2 (confirmed)

#### 13:30 Networking Lunch

#### **DEVELOPING THE STATION**

## 15:00 Investing in stations as a route to urban regeneration

- The Gothenburg Region City example: developing the station as part of the urban planning process
- How can planners and station owners work together for effective results?
- Commercial growth and business opportunities when redeveloping stations: working with the community

#### Urban Hammarlund, Regional Manager Gothenburg, Urban Development, Jernhusen (confirmed)

#### 15:15 The future role of stations

- Meeting station operational requirements and exploring new formats
- Understanding future trends for station asset management
- Commercially viable customer centric development & regeneration

## Norrie Courts, Director of Stations, Network Rail (confirmed)

## 15:30 The station as a hub of mobility

- Building stations to accommodate different types of mobility to encourage travel by railways
- Developing a new relationship with transport stakeholders: how can this be effectively achieved?
- Attracting passengers to the station as a cultural and retail hub: commercially viable and customer-centric development

Amirbahador Abdolmohamadi, High Speed Railway Project Manager & Buildings & facilities General Director, Railways of Islamic Republic of Iran (RAI) (confirmed)

## 15:45 Sponsor Presentation

#### 16:00 Creating the station of the future

- How is technology changing the role of the station as a critical part of the journey and city?
- Understanding how to adopt future technologies and integrate into current infrastructure
- Using predictive analytics to manage passenger flow and peak capacities

Iori Mori, MS/MPP Assistant Manager, IT Strategy Division, Technology Innovation HQ, East Japan Railway

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Company (confirmed)		
Company (commineu)		
16:15 Afternoon networking break		
	CLOSING PLENARY SESSIONS	
17:00 Platinum sponsor presentation		
17:15 Closing keynote panel		
18:00 Evening drinks reception		

## 7<sup>th</sup> March 2019

## **CUSTOMER CENTRICITY & TICKETING**

Chaired by: Barend Kuenen, Director of Stations Management & Exploitation, NS Stations

- 12:35 CASE STUDY Redesigning stations with customer flow and connectivity as the top priorities
  - Why was this project necessary and what were our objectives?
  - Developing an effective strategy to optimise customer flow and station usability
  - Sharing the effective impact of our intermodal transport projects on the way our stations are used

Astrid Bunt, Stations Director, ProRail (confirmed)

## 12:50 Sponsor presentation

## 13:05 Learning from Zürich Main Station – How to innovate by prototyping

- Creating a vision of a (digitalised) station of the future
- Defining new (digital) services for customers and operators leading to that vision
- Implementing new services by prototyping and design thinking

Philipp Leimburger, Leader - Smart Station Zurich HB, SBB (confirmed)

13:25 Sponsor presentation

13:40 End of Stations programme – see you next year!

Networking lunch

## **Intelligent Infrastructure**

#### 6th March 2019

#### **SMART ASSET MANAGEMENT**

#### 12.35 The Digital Transformation at the heart of SNCF Réseau

- The importance of common technologies when constructing back office systems for digital transformation
- The essential role of data governance,
- The challenge of setting up an efficient mobile device policy,
- Exploring and deploying new technologies such as IOT, Blockchain, AI, VR/AR...
- From shadow IT to citizen IT

Jean Jacques Thomas, Chief Innovation Officer, SNCF Réseau (Confirmed)

## 12.55 Pandrol's role in intelligent asset maintenance

#### Javier López, Industrial Engineer, Pandrol

#### 13.10 The Digital Transformation of Dutch rail infrastructure: making the infrastructure dumber or smarter?

- More trains on the same infrastructure for less money: moving intelligence from infrastructure to trains
- The rail network needs a digital twin to perform better: how to unleash the full potential of sensoring?
- How can artificial intelligence help to move to a new paradigm in maintenance: from Find & Fix to Predict & Prevent?

## Chris Verstegen, Chief Innovation Officer, ProRail (Confirmed)

## 13.30 Networking Lunch

## **AUTOMATION AND INNOVATION**

#### 15.00 The impact of mobile technology and enhanced connectivity on infrastructure maintenance

- The traditional challenges of connectivity on the rail network and its impact on asset management
- How we overcame the problems presented by connectivity to build a mobile-ready platform for our asset managers
- What is the impact of this culture change in the heart of traditional companies like rail organisations?

#### Mathias Vanden Auweele, Asset Management, Infrabel (Confirmed)

#### 15.15 How can Fibre Optic Sensing (FOS) enable extensive condition-based track maintenance strategies?

- Continuous real-time monitoring of wheel-rail interaction
- Detection of wheel and rail defects at a very early stage
- Effective planning and controlling of maintenance tasks

## Stefan Huber, Tracking Solutions | ACM Product Management, Frauscher (Confirmed)

#### 15.30 How are ETS using BIM to optimise rail project development in the Basque Country?

- How do we streamline the process between various departments working on the same project and in the same geographical area?
- Ensuring that the information generated from the planning stage onwards is transmitted to and enriched
  in the design and construction phases for use during operations or as reliable baseline data for
  subsequent projects.

 Leveraging technology to enhance the way in which we communicate our projects within the company and to the outside.

Aitor Garitano, General Manager, ETS (Confirmed)

Jorge Onaindia, Construction and BIM Department, ETS (Confirmed)

- 15.45 What are the advantages of using cast manganese monoblock frogs in turnouts?
  - How we have created optimal geometry for a smoother ride
  - The impact for operators: minimal maintenance, maximum performance
  - Better materials for longer life-cycle.

#### Jon de Lapatza, Director, Amurrio Ferrocarril y Equipos (Confirmed)

## 16:00 Exploring digital transformation with BIM to support life cycle management for infrastructure management

- Why our focus has traditionally been on digitization instead of digital transformation
- The danger of too many systems and databases being developed with conflicting standards and governance
- The difficulties in using data in advanced analytics especially across divisions

Jon Kerbey, Director of BIM, HS2 Ltd (Confirmed)

**Dr. Sonia Zahiroddiny**, BIM Strategy Manager, **HS2 Ltd** (Confirmed)

16.20 Afternoon networking break

17.00 Closing Plenary Keynote session please see Keynotes section for more detail

#### 7<sup>th</sup> March 2019

#### **IOT INNOVATION**

#### 12.35 How we are planning to develop a constantly evolving, live status of our track infrastructure

- Maintaining capacity: the effect of inspection trains
- Is wayside sensor deployment the key to managing rail infrastructure?
- Next steps: Building towards the convergent railway

#### Ng Bor Kiat, CTO and Director of Future Systems, SMRT (invited)

## 12.50 Leveraging Geo-Spatial Technology for Intelligent Rail Infrastructure Management

- Integrating innovative technologies such as lidar and 360 degree digital video for efficient data collection and extraction to monitor infrastructure asset performance in real time;
- Managing workflows from data collection to insightful analysis and decision making;
- Applying big data analytics for predictive maintenance.

Ian Koeppel, Head of International Transportation Business Development, Esri Europe

# 13.05 PANEL: How can infrastructure managers use digital technology and innovation to combat the rise and rise of capacity demands?

- Digital technology is revolutionising infrastructure management but is it sophisticated enough to deal with the rising demand for capacity?
- Is there a "silver-bullet" that will make the difference?
- How can we ensure that technology is being trialled and implemented fast enough in an extremely restricted safety environment?
- Is there a way to make rail more agile as an industry?

Moderator: Nick Kingsley, Managing Editor, Railway Gazette (Confirmed)

Henning Scheel, Vice President Contract and Market, Bane NOR (Confirmed)
Carel Jonckheere, Director of Smart Assets, Infrabel (Confirmed)
Antonio Berrios, Deputy Director of Strategic Innovation, ADIF (Invited)

#### 13.40 Networking Lunch

#### **OPERATIONAL INNOVATION**

#### 15.00 Fostering innovation through SME partnerships in Digital Railway

- Stakeholder alignment in complex multipartner projects
- Identifying bottlenecks in the procurement process for SMEs
- How we ultimately lower barriers to entry from SMEs to drive innovation in our rail network

# Stuart Calvert, Director, Programme Technical Services and Supply Chain, Group Digital Railway, Network Rail (confirmed)

## 15.20 How will blockchain technology radically change the future of railway infrastructure?

- How we are using distributed ledger technology to deliver operational use cases for Deutsche Bahn?
- What is the future of machine to machine communication in the rail industry?
- With the combination of blockchain technology, IoT and hyper fast connectivity, what is the automated future of rail?

## Sviatoslav Butskyi, Blockchain and DLT Solutions, Deutsche Bahn (Confirmed)

15.40 Diego Galar, Lulea University

16.00 End of Conference – See you next year

## **Power**

#### **POWER SOURCES & RENEWABLE ENERGY**

#### 12:40 Driving sustainability at SNCF: a three pronged approach

- Reducing our energy usage: Sharing some key projects which tackles this issue
- Developing effective strategy to source renewable energies across the french network
- A recent success: Introducing hybrid regional trains to minimise the use of diesel

Olivier Menuet, SVP Energy, SNCF (confirmed)

#### 13:00 Multi voltage special vehicle new traction system platform approach

- Exploring unique capabilities to generate energy for ac traction motors from very different input voltages: catenary, diesel and energy storage systems
- Delivering high efficiency rates in a very compact volume
- The impact of using Modular power converter to reduce maintenance cost

lanko Valero, Technical Director, Traction Business, Ingeteam (confirmed)

13:15

#### Scientific Based Targets – how we beat our target by 3 years

- What is Scientific based targets and why did Thalys sign up for the program?
- What were our targets and how did we fulfil them so quickly?
- Lessons for larger networks and the wider industry

## Agnes Ogier, CEO, Thalys (invited)

13:30 Networking Lunch

## **SUSTAINABLE ENERGY USAGE**

#### 15:00 Incentivizing sustainable behavior: the Eress solution and how operators reduce energy usage and cost

- Why is metering, accurate settlement and billing of energy an important topic and how can it reduce costs?
- Our successes with our members: what are the results of accurate energy settlement and charging?
- Developing the future of a sustainable rail market in Europe: the role of accurate settlement and charging

Dyre Martin Gulbrandsen, Energy Trading Manager, Bane NOR & Director, ERESS (confirmed)

## 15:15 Sponsor presentation

## 15:30 Using Driver Advisory System to minimise energy use in Helsinki

- Outlining the project in Helsinki: why we invested in a driver advisory system
- Sharing the impact on our operations: optimising driver behaviours and incentivising our workforce effectively
- The impact on our energy usage in the first few months of operations

Arttu Kuukankorpi, Head of Traffic Operations Unit, HKL Helsinki (Confirmed)

15:45 Sponsor presentation

16:00 Reserved for an operator

Please note that this is a working agenda that is updated monthly. To view the latest live version please go to: http://www.terrapinn.com/conference/rail-live/index.stm

#### 16:20 Afternoon networking break

17:00 Platinum Sponsor Presentation

17:15 Closing keynote panel

18:00 Close of Day 1

**Evening Drinks Reception** 

#### 7<sup>th</sup> March 2019

## **INNOVATION & TECHNOLOGY**

#### 12:35 Smart Grid: an SBB innovation to cut energy usage during load peaks

- Limiting the need for physical, electrical power source hardware like frequency converters thanks to peakshaving
- Real-time power demand management by reducing the energy delivery of heaters/switches for about a minute
- Digitalization in rail by using standard IT platform as an innovative and cost-efficient power management application

#### Markus Halder, Head of Power Demand Management Program, SBB (Confirmed)

12:50 Sponsor presentation

## 13:05 PANEL: Embracing innovation in energy & sustainability

- Making sure that sustainability is a priority for internal decisions with full employee backing
- Evaluating technologies and new strategies effectively: what are the technologies to watch?

Ralph Luijt, Head of Energy & Sustainability, NS (Confirmed)

Rebecca Cranshaw, Community & Environment Manager, Eurostar (confirmed)

Olivier Menuet, SVP Energy, SNCF (confirmed)

13:40 End of Power – see you next year!

**Networking Lunch**