



SMART METRO



1-3 November 2016, Copenhagen, Denmark

CREATING THE SMART METRO NETWORKS OF THE FUTURE

66 World class networking opportunity with access to first hand information."
Stephane Sanner, Marketing Analyst, Alstom

EXECUTIVE SPEAKERS INCLUDE:



Azmi Abdul Aziz
CEO
Prasarana Malaysia



Andy Byford
Chief Executive Officer
Toronto Transit Commission



Jerzy Lejk
President & CEO
Warsaw Metro



Jean-Michel Lattes
President
Toulouse Tisséo SMTC



Claudio Cassarino
Managing Director
Metro Service



Mogens Hagelskaer
CEO
Odense Tramway



Christopher Cox
Project Director
Transportation Systems
Metroselskabet



Matt Kinane
Operations Director
MTR Nordic



Caecilia Groot
Head of ICT and Innovation
GVB Netherlands



Andy Bourne
Head of Upgrades
Transport for London



Joubert Flores
Engineering Director
Metro Rio



Philippe Leguay
International Director
Urban Railway Systems, Keolis

TWO-DAY CONGRESS PROGRAMME

Hear key insights and business initiatives from global CEOs and directors

Join roundtables, workshops, and panel discussions for an interactive learning and networking experience

THREE DIGITAL PASSENGER STREAMS

Content for passenger experience, station management, and revenue collection professionals



FOUR SIGNALLING AND SAFETY STREAMS

Designed for signalling, operations, and asset management experts

1-2-1 NETWORKING

Enjoy 12+ hours of networking over the course of the congress, including 2 exclusive drinks receptions

PRE-CONGRESS WORKSHOP DAY

Gain exclusive insight into rail operations in Copenhagen and learn from our industry experts during the pre-congress programme

LEAD SPONSORS:



ASSOCIATE SPONSOR:



ROUNDTABLE SPONSOR:



OFFICIAL MEDIA PARTNER:



WORKSHOP SPONSOR:



ORGANISED BY:



Register now at: www.SmartMetro.eu

WHY SMARTMETRO?

With increasing populations and growing passenger demands in an increasingly urbanised world, metros and urban rail systems are under more pressure than ever to offer a reliable, comfortable and high capacity service to the passenger.

With rapidly evolving technology, operators have more opportunity than ever to exploit the digital revolution to create the reliable, connected and competitive networks integral to modern, growing cities. CBTC remains at the heart of an integrated, smarter and cost-effective network.

WHO ATTENDS?

At SmartMetro you will have the opportunity to meet with the entire value chain of the metro industry.

BUYERS

- ✔ Metros
- ✔ Urban railways
- ✔ Local and national Government Administrations
- ✔ Leading associations
- ✔ System integrators

SELLERS

- ✔ Project Managers & Consultants
- ✔ System and network integrators
- ✔ Turnkey technology providers
- ✔ CBTC System providers
- ✔ Certification and testing specialists
- ✔ IT and network providers
- ✔ Passenger information vendors
- ✔ CCTV specialists
- ✔ Platform screen door providers
- ✔ Asset management and maintenance companies
- ✔ OEMs and training companies



THE DEFINITIVE SHOWCASE FOR DEVELOPING SMART URBAN RAIL NETWORKS AND DELIVERING GROWTH

The SmartMetro Congress is the definitive metro technology show, providing the perfect platform for senior metro leaders from all global markets to meet to share solutions to common challenges. The congress will bring together metro operators, government, associations, and leading technology suppliers to discuss ways of upgrading metro networks for the 21st century.

The agenda has been formulated with the help of an advisory committee including SNCF, HKL, Keolis, Siemens and GE Transportation to ensure a relevant and cutting-edge event. The congress includes a variety of learning and networking formats such as:

- Keynote presentations
- Panel discussions
- Intimate round-table dialogues
- A workshop day
- On-site visits
- Over 12 hours of networking time

With streamed content around *The Digital Passenger* and *Signalling and Safety*, the conference is sure to be of value to you and your whole team.

See you in Copenhagen!



James Pickard

James Pickard
Conference producer

WITH STREAMS COVERING BOTH PASSENGER EXPERIENCE AND OPERATIONS, THERE IS CONTENT FOR PROFESSIONALS WITH AN EXPERTISE IN:

THE DIGITAL PASSENGER

- ⦿ Marketing and passenger experience
- ⦿ Revenue and fare collection
- ⦿ Stations management
- ⦿ Digital, technology, and data
- ⦿ Multimodal, joint ventures, and partnerships
- ⦿ Real-time information

SIGNALLING & SAFETY

- ⦿ Signalling & CBTC
- ⦿ Operations
- ⦿ Telecommunications
- ⦿ CBTC
- ⦿ Asset management and predictive maintenance
- ⦿ Automation, digitization, and data
- ⦿ Procurement

UNIQUE FORMAT FOR LEARNING AND NETWORKING:

CEO CASE STUDIES AND PLENARY SESSIONS

- ⦿ Keynote presentations,
- ⦿ Panel discussions and
- ⦿ Plenary sessions from
- ⦿ 40+ industry expert speakers



TAILORED CONTENT FOR YOUR WHOLE TEAM, NO MATTER THEIR EXPERTISE.

Maximise your time at the conference by tailoring your experience with streams on:

- ⦿ Mission critical networks & systems
- ⦿ Asset management
- ⦿ Digitisation
- ⦿ Passenger experience
- ⦿ Procurement



INTERACTIVE ROUNDTABLES AND WORKSHOPS

- ⦿ Informal discussion spaces lead by industry experts
- ⦿ Share knowledge with your peers from around the globe
- ⦿ Ask questions on your specific issues
- ⦿ Meet new colleagues during intimate discussion time



12+ HOURS OF NETWORKING

- ⦿ Meet hundreds of your colleagues in the global metro industry
- ⦿ Uncover the latest product innovations
- ⦿ Do business and expand your network
- ⦿ Make use of the private meeting spaces
- ⦿ Begin networking before the conference with our networking app



MEET THE MOST INFLUENTIAL METRO LEADERS FROM AROUND THE GLOBE

KEY SPEAKERS INCLUDE:



Azmi Abdul Aziz
CEO
Prasarana Malaysia



Andy Byford
Chief Executive Officer
Toronto Transit Commission



Jerzy Lejk
President & CEO
Warsaw Metro



Jean-Michel Lattes
President
Toulouse Tisséo SMTC



Claudio Cassarino
Managing Director
Metro Service



Mogens Hagelskaer
CEO
Odense Tramway



Philippe Leguay
International Director Urban
Railway Systems
Keolis



Saibaba Ankala
Chief Engineer
Indian Railways



Matyas Jangel
Chief Engineer
BKV



Ahmet Kemal Ozdoner
Signalling Chief
Istanbul Ulasim



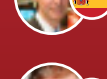
Matt Kinane
Operations Director
MTR Nordic



Joubert Flores
Engineering Director
Metro Rio



Bengt Carlsson
Safety Director
MTR Nordic



Carlos Esquiroz
Engineering & Maintenance
Director
Metro de Madrid



Christopher Cox
Project Director Transportation
Systems
Metroselskabet



Azmi Abdul Aziz
CEO
Prasarana Malaysia



Andy Byford
Chief Executive
Officer
Toronto Transit
Commission



Jerzy Lejk
President & CEO
Warsaw Metro



Jean-Michel Lattes
President
Toulouse Tisséo
SMTC



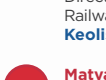
Claudio Cassarino
Managing Director
Metro Service



Mogens Hagelskaer
CEO
Odense Tramway



Philippe Leguay
International
Director Urban
Railway Systems
Keolis



Matyas Jangel
Chief Engineer
BKV



Ahmet Kemal Ozdoner
Signalling Chief
Istanbul Ulasim



Masnizam Hisham
Chief Infrastructure
Services Officer
Rapid Rail



Matt Kinane
Operations Director
MTR Nordic



Joubert Flores
Engineering
Director
Metro Rio



Bengt Carlsson
Safety Director
MTR Nordic



Carlos Esquiroz
Engineering &
Maintenance
Director
Metro de Madrid



Christopher Cox
Project Director
Transportation
Systems
Metroselskabet



Michael Brown
Head of Operations
RfL Crossrail



Bello Roni
Deputy Director
Signalling and
Telecoms
Nigeria Railway
Corporation



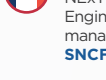
Caecilia Groot
Head of ICT and
Innovation
GVB Netherlands



Andy Bourne
Head of Upgrades
Transport for
London



Saïd El Fassi
NEXTEO
Engineering project
manager
SNCF Reseau



Erik Sletten
Head of Technical
Department
Sporveien Oslo AS



Lysander Van Der Sluis
Project Leader
Station Experience
RET



Vincent Georjon
Project Director
Toulouse Tisséo
SMTC



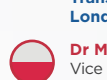
Christian Becker
Senior Engineer,
Sao Paulo Metro,
Advisory Board
Member, INCOSE
Brazil Chapter



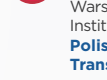
David Price
Senior Engineer
Transport for
London



Ian Thompson
Project Engineer
Transport for
London



Dr Marek Pawlik
Vice Director
Warsaw Railway
Institute
Polish Ministry of
Transport



Anthony Smith
Chief Executive
Officer
Transport Focus



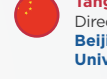
Steffen Rasmussen
Head of
Department
Center for Traffic
and Urban Life



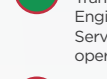
Maria Aguado
Associate Professor
University of the
Basque Country



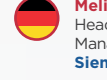
Cormac Rabbitt
CEO
Metro Dublin



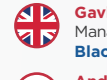
Tang Tao
Director
Beijing Jiaotong
University



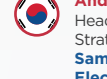
Norbert Aranyos
Transportation
Engineer, M4 Traffic
Services (Metro
operation), BKV



Melih Arpaci
Head of Business
Management
Siemens



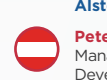
Gavin Russell
Managing Director
Blackbox



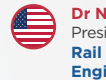
Andrew Nelson
Head of Retail
Strategy
Samsung
Electronics



Guillaume Denis
Urban Solutions
Director
Alstom



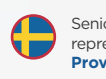
Peter Boom
Manager Business
Development &
Consulting
Voestalpine



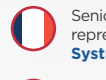
Dr Nabil Ghalay
President
Rail Transport
Engineering



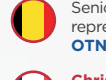
Matthew Davison
Head of Service
Solutions
Management
Bombardier



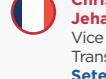
Senior representative
Prover Technology



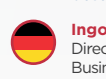
Senior representative
Systra



Senior representative
OTN



Christophe Jehannin
Vice President,
Transit and Mobility
Setec ITS



Ingo Hoffmann
Director international
Business
Development Metro
Signalling Systems
Siemens

PREVIOUS ATTENDING COMPANIES:

- Ministry of Transport and Communications Peru
- Alarms
- Alstom
- APTA
- ARK Signalling Consultancy
- Arriva
- Arrowvale
- ATOC
- Attiko Metro
- Bangkok Mass Transit System PCL
- Beijing Jiaotong University
- Beijing Traffic Control Technology Co.,LTD
- Belden
- Bombardier
- c2c Rail
- CAF Transport Engineering
- Comtest Wireless Ltd
- Costain Limited
- Crossrail
- DB International
- Department for Transport (UK)
- DLR

- Dopravni podnik hl. m. Prahy, a.s.
- DORTS(Department of Rapid Transit System, Taipei city Government)
- Dublin Metro
- East Japan Railway
- EGIS Rail
- EPS DEZ Confection
- ERTMS Users Group
- Eurailtest
- First Capital Connect
- FirstGroup plc
- Fluidmesh
- Gautrain
- GE Transportation
- GESTE Engineering SA
- Global Air Rail Alliance
- Go Ahead Group
- Government of Western Australia
- GVB Amsterdam
- HasterRail AG
- Helsinki City Transport (HKL)
- Hitachi
- Huawei

- IARO
- IKOS Consulting
- INEO SCLE SFE
- Institute for Collaborative Working
- Interfleet Technologies
- IRJ
- JITEX
- Ken Cameron & Associates Pty Ltd
- Keolis
- KEOLIS GROUP
- Kochi Metro Rail Ltd
- KONI BV
- LAND PUBLIC TRANSPORT COMMISSION, MALAYSIA (SPAD)
- Land Transport Authority
- LeighFisher
- Lima Metro
- Lloyd's Register Rail
- London Overground
- London Underground
- LTA
- LTK Engineering Services
- MEGGITT SENSOREX

- Metro Rio
- Metro Service
- Metro Trains Melbourne
- Metroprojekt Praha a.s.
- MetróRio
- Metroselskabet
- METROSELSKABET I/S
- Ministerio de Transportes y Comunicaciones
- Mitsubishi Electric R&D Centre Europe (MERCE)
- Moscow State University of Railway Engineering
- Motorola Solutions
- Moxa Technologies
- MTR Corporation
- National Express Trains
- National Skills Academy Railway Engineering
- Network Rail
- New York Rail Technology PE, PC
- Northern Rail
- NSARE
- Office of Rail Regulation
- ORR

- Oslo Rolling Stock Company
- PANRAIL GmbH
- Parkgate Consultants
- Passenger Focus
- Prague Transport Company
- Prasarana Malaysia
- První Signální, a. s.
- Public Transport Authority Oslo
- Qatar Rail
- Rail for London
- Rail Personnel
- RailSis Engineering
- Railway Engineer
- Railway Technical Research Institute
- Ramboll
- Rapid KL
- RATP
- RFS (UK) Ltd
- RSSB
- SafeRail
- San Francisco Bay Area Rapid Transit
- Siemens
- SIRTI S.p.A.

- SMRT
- SNCF
- SNTF
- Southern
- Spear Consultancy Limited
- Sporveien Oslo
- STIF
- Stockholm County Council, Transport Administration
- Systra
- Taipei Metro
- Technical University of Madrid
- Thales
- University of Birmingham
- Tisseo-SMTC
- Transport Systems Catapult
- Turin Metro
- Turkish State Railways
- University of the Basque Country
- Ville Rail Transports
- West Japan Railway Company

Book your full congress pass here: www.SmartMetro.eu

PRE-CONGRESS WORKSHOP DAY: 1ST NOVEMBER 2016

12:00 **Networking Lunch**

Interactive Workshop Sessions

Focusing on the most pertinent topics for CBTC and metro network experts, these workshop sessions offer a perfect platform for interaction, debate and best practice sharing. Led by specialist facilitators, delegates will listen to a in depth case study before discussing on their tables, the challenges presented. Each table will then feedback to the whole group their conclusions, so you can take practical information back to the office to improve your business!

13:00 **Workshop 1: Systems engineering**
Systra



13:00 **Workshop 2: Automation**
Siemens



14:00 **Networking Break**

14:30 **Workshop 3: Solving the urban capacity crisis**
Alstom



14:45 **Workshop 4: Passenger information**
Samsung




15:30 **Visit to the Samsung trailer**
Enjoy refreshments while exploring Samsung's latest passenger information technology on their state of the art trailer.



16:15 **Pre congress drinks reception**

allowing the workshop day, all delegates are invited to join us for a welcome drinks reception at the hotel to maximise your networking in an intimate and relaxed setting

66 Great event. Well organised, bringing the industry together to discuss current issues and future needs. Excellent learning experience with lots of networking opportunities"

Alykhan Manji, Thales

66 A very informative and intuitive event that should not be missed"

Ahmao Nizam Mohamed Amin, RapidKL



SHOWCASE YOUR THOUGHT LEADERSHIP AND GENERATE LEADS FROM OUR GLOBAL NEWS PLATFORM

SmartRail World (www.smartrailworld.com) is a community of global rail and metro experts from around the world. It provides daily news articles, features, expert interviews, whitepapers and more, for rail and metro experts across the world. With a global database of 50,000+ industry professionals, not only do our leading global events provide an ideal meeting place to meet rail and metro leaders and position your company at the heart of the industry but our digital platforms allow leading suppliers to the industry to demonstrate thought leadership, ensure brand recognition and stay a step ahead of competitors.

SMARTRAIL WORLD: IN NUMBERS



SmartRail World
15,000+ unique
visitors
a month



SmartRail World News
e-zine sent to
32,00+ contacts
twice a month



16,000+
social media
connections



72%
ANNUAL INCREASE
IN PAGE VIEWS
(2015 V 2014)



A truly global
perspective
with key markets served: Asia,
Europe and North America

Keep up with the latest rail and metro technology innovations and subscribe for free today at
www.smartrailworld.com

Enquire about sponsoring or exhibiting: www.SmartMetro.eu



It was very good to see how other metro operators are handling challenges for extensions due to the cities growth."



Alan Pinheiro Acosta Jr, Engineer, MetrôRio

DAY ONE: 2ND NOVEMBER 2016

09:00 WELCOMING ADDRESSES

SMART METROS IN A DIGITAL AGE – CEO KEYNOTE SESSION

- Future visions for metro networks
- Delivering a high capacity, reliable service to meet growing needs
- Exploiting solutions to improve ridership and ROI

09:10 **Delivering a safe and competitive network**

Jerzy Lejk, President & Chief Executive Officer, **Warsaw Metro**

09:25 **FUTURE VIEW: what will metros look like in 10 years?**

Azmi Abdul Aziz, Chief Executive Officer, **Prasarana Malaysia**

09:40 **Modernising the metro: What steps are needed?**

Andy Byford, Chief Executive Officer, **Toronto Transit Commission**

09:55 **Toulouse metro: at the forefront of sustainable mobility**

Jean-Michel Lattes, President, **Toulouse Tisséo SMTC**

10:10 **How are passenger standards changing in the digital age?**

Anthony Smith, Chief Executive Officer, **Transport Focus**

10:25 **PANEL DISCUSSION: Setting up smart metro systems to serve the passenger**

Jerzy Lejk, President & Chief Executive Officer, **Warsaw Metro**

Azmi Abdul Aziz, Chief Executive Officer, **Prasarana Malaysia**

Andy Byford, Chief Executive Officer, **Toronto Transit Commission**

Jean-Michel Lattes, President, **Toulouse Tisséo SMTC**

Anthony Smith, Chief Executive Officer, **Transport Focus**

11:00 Networking Break

EFFICIENT PROCUREMENT STRATEGIES

- Managing technology procurement effectively
- Long term results of new technology implementation on the metro network
- Making technology decisions and maximising ROI

11:30 **Delivering projects from start to finish: upgrading London's underground network**

Andy Bourne, Head of Upgrades, **Transport for London**

11:45 **Managing stakeholders on major projects and keeping to schedule and budget: delivering the Odense Tramway**

Mogens Hagelskaer, CEO, **Odense Tramway**

12:00 **Communication between supplier and operator to ensure effective procurement**

Masnizam Hisham, Chief Infrastructure Services Officer, **Prasarana Malaysia**

12:15 **Senior representative, Systra**

12:30 **PANEL DISCUSSION: Communication between supplier and operator to ensure effective procurement**

Mogens Hagelskaer, CEO, **Odense Tramway**

Andy Bourne, Head of Upgrades, **Transport for London**

Masnizam Hisham, Chief Infrastructure Services Officer, **Prasarana Malaysia**

Cormac Rabbitt, CEO, **Metro Dublin**

Vincent Georjon, Project Director, **Toulouse Tisséo SMTC**

Senior representative, **Systra**

DIGITISING TRANSPORT

- Enhancing connectivity
- Balance between automation and safety
- Impact on passenger service and operations

11:30 **Safety first: implementing automation and new technologies while keeping safety a priority**

Phillippe Leguay, International Director Urban Railway Systems, **Keolis**

11:45 **Delivering a reliable and cost effective service: upgrading the Jubilee and Northern Lines on London Underground**

David Price, Senior Engineer, **Transport for London**

Ian Thompson, Project Engineer, **Transport for London**

12:00 **Generic ICT Vehicle Architecture for greater flexibility and connectivity**

Caecilia Groot, Head of ICT and Innovation, **GVB Netherlands**

12:15 **Increasing operational efficiency through digitalized services**

Ingo Hoffmann, Director international Business Development Metro Signalling Systems, **Siemens**

12:30 **PANEL DISCUSSION: Communication between supplier and operator to ensure effective procurement**

Phillippe Leguay, International Director Urban Railway Systems, **Keolis**

David Price, Senior Engineer, **Transport for London**

Ian Thompson, Project Engineer, **Transport for London**

Caecilia Groot, Head of ICT and Innovation, **GVB Netherlands**

Ingo Hoffmann, Director international Business Development Metro Signalling Systems, **Siemens**



13:00 Networking Lunch

INTIMATE WORKSHOPS

The workshop sessions offer a perfect platform for interaction, debate and best practice sharing. Led by specialist facilitators, delegates will sit on tables of no more than 10 delegates and following the moderators' introductory presentation, will discuss on their tables, the challenges presented. Each table will then feedback to the whole group their conclusions, so you can take practical information back to the office to improve your business!

A

14:15 **INTEGRATED SIGNALLING:**

Matthew Davison

Head of Service Solutions Management, **Bombardier**



B

14:15 **MISSION CRITICAL SAFETY:**

Senior Representative **Prover Technology**



15:20 Networking Break

INTELLIGENT SYSTEMS: OPERATIONS AND ASSET MANAGEMENT

- Managing maintenance to improve reliability
- A whole system approach to improve operations
- Maximising energy efficiency

16:00 **Effective transformation of operating with a new signaling system. What has been the experience of Oslo Metro?**

Erik Sletten, Head of Technical Department, **Sporveien Oslo AS**

16:15 **Simulation and prediction of the benefits of an ATS system on an existing saturated line**

Christophe Jehannin, Vice President, Transit and Mobility, **Setec**

Nicolas Galtier, ATC Engineer, **Setec**

16:30 **Applying CBTC technology to the open railway**

Said EL FASSI, NextEO Engineering project manager, **SNCF Reseau**

16:45 **Matthew Davison**, Head of Service Solutions Management, **Bombardier**

17:00 **PANEL DISCUSSION: Using intelligence tools available to improve reliability and maintenance**

Said EL FASSI, NextEO Engineering project manager, **SNCF Reseau**

Erik Sletten, Head of Technical Department, **Sporveien Oslo AS**

Christophe Jehannin, Vice President, Transit and Mobility, **SETEC ITS**

Mohamed Zaimir Suffian, Head of ERTMS Systems, **Indian Railways**

Matthew Davison, Head of Service Solutions Management, **Bombardier**

INTELLIGENT SYSTEMS: PASSENGER MANAGEMENT AND BIG DATA

- Utilising technology to manage passengers
- Fare collection and station management solutions
- Emergency planning and passenger safety

16:00 **Smart stations: alleviating waiting times at Rotterdam stations**

Lysander Van Der Stuif, Project Leader Station Experience, **RET**

16:15 **The Rio 2016 Olympics: delivering a safe and reliable service at maximum capacity**

Joubert Flores, Engineering Director, **Metro Rio**

16:30 **The digital standard for passenger information**

Andrew Nelson, Head of Retail Strategy, **Samsung Electronics**

Gavin Russell, Managing Director, **Blackbox**

16:45 **Intermodal case-study: increasing mobility with Copenhagen's ITS action plan**

Steffen Rasmussen, Head of Department, **Center for Traffic and Urban Life**

17:00 **PANEL DISCUSSION: Looking at system architecture and passenger management on metros**

Joubert Flores, Engineering Director, **Metro Rio**

Lysander Van Der Stuif, Project Leader Station Experience, **RET**

Steffen Rasmussen, Head of Department, **Center for Traffic and Urban Life**

Andrew Nelson, Head of Retail Strategy, **Samsung Electronics**

Gavin Russell, Managing Director, **Blackbox**

17:30 Networking Drinks Reception

Book your full congress pass now: www.SmartMetro.eu

DAY TWO: 3RD NOVEMBER 2016

08:00 **REGISTRATION AND WELCOME NETWORKING COFFEE**
Day 2 Chairman: **Dr Nabil Ghaly**, President, **Rail Transport Engineering**

09:00 **Welcoming addresses**

COMMON TECHNOLOGY GOALS

09:10 **CBTC and interoperability: applying standards within individual metros**
Matt Kinane, Operations Director, **MTR Nordic**

09:25 **Delivering an innovative metro while complying to national and international standards**
Claudio Cassarino, Managing Director, **Metro Service**

09:40 **China case study: an update on metro developments**
Tang Tao, Director, **Beijing Jiaotong University**

09:55 **China case study: an update on metro developments**
Michael Brown, Head of Operations, **RfL Crossrail**

10:10 **PANEL DISCUSSION: How will a greater framework help meet operator needs**
Matt Kinane, Operations Director, **MTR Nordic**
Claudio Cassarino, Managing Director, **Metro Service**
Bello Roni, Deputy Director Signalling and Telecoms, **Nigeria Railway Corporation**
Tang Tao, Director, **Beijing Jiaotong University**
Christian Becker, Advisory Board Member, **INCOSE Brazil Chapter**
Michael Brown, Head of Operations, **RfL Crossrail**

10:45 **Networking Break**

SYSTEM SECURITY AND OPERATIONAL RELIABILITY

- Mission critical networks & systems
- Maximising the reliability & security of signalling systems
- Delivering a high capacity, reliable service to meet growing needs

Moderator: **Dr Nabil Ghaly**, President, **Rail Transport Engineering**

11:30 **Putting safety and reliability at the heart of network upgrades**
Bengt Carlsson, Safety Director, **MTR Nordic**

11:45 **Reference model for the safety and security impact of CBTC**
Dr Marek Pawlik, Vice Director Warsaw Railway Institute, **Polish Ministry of Transport**

12:00 **Copenhagen case study: an update on signalling projects**
Christopher Cox, Project Director Transportation Systems Contracts, **Metroselskabet**

12:15 **Guillaume Denis**, Urban Solutions Director, **Alstom**

12:30 **PANEL DISCUSSION:**
Bengt Carlsson, Safety Director, **MTR Nordic**
Maria Aguado, Associate Professor, **University of the Basque Country**
Dr Marek Pawlik, Vice Director Warsaw Railway Institute, **Polish Ministry of Transport**
Guillaume Denis, Urban Solutions Director, **Alstom**
Christopher Cox, Project Director Transportation Systems Contracts, **Metroselskabet**

FUTUREPROOFING IN A TECHNOLOGICAL AGE

- Extending lifecycle through more effective asset management
- Predictive and preventative remote diagnostics
- Managing RAMS on a metro operation

11:30 **The advantages of predictive maintenance in reducing operating costs**
Carlos Esquiroz, Engineering & Maintenance Director, **Metro de Madrid**

11:45 **Matthew Davison**, Head of Service Solutions Management, **Bombardier**

12:00 **Retrofitting new asset management technologies into existing operational frameworks**
Matyas Jangel, Chief Engineer, **BKV**
Norbert Aranyos, Transportation Engineer, M4 Traffic Services (Metro operation), **BKV**

12:15 **Systems engineering developments in South America**
Christian Becker, Advisory Board Member, **INCOSE Brazil Chapter**

12:30 **PANEL DISCUSSION:**
Carlos Esquiroz, Engineering & Maintenance Director, **Metro de Madrid**
Matyas Jangel, Chief Engineer, **BKV**
Norbert Aranyos, Transportation Engineer, M4 Traffic Services (Metro operation), **BKV**
Christian Becker, Advisory Board Member, **INCOSE Brazil Chapter**



13:00 **Networking Lunch**

INTERACTIVE ROUNDTABLE SESSIONS

The roundtable sessions are a little different from the workshops on day one, promoting niche and open discussion amongst delegates. Each table in the conference room will have a separate topic area. Delegates sit on the table with the topic area they wish to discuss. Each table leader will lead 40 minutes of discussion on this topic with fellow table members, providing a perfect networking and learning opportunity. Following the discussion, each table leader will feedback to the whole group, their key conclusions from the session.

14:00 **TABLE 1**

Fare Collection

Available for Sponsor

14:00 **TABLE 2**

Fallback Systems

Senior representative, **OTN**



14:00 **TABLE 3**

Maintenance

Senior representative, **Alstom**



14:00 **TABLE 4**

Connected Networks

Melih Arpacı, Head of Business Management, **Siemens**



14:00 **TABLE 5**

Rolling stock asset management

Peter Boom, Manager Business Development & Consulting, **Voestalpine**



15:00 **TABLE LEADER FEEDBACK TO WHOLE GROUP**

15:30 **Networking Break**

CLOSING AUDIENCE DEBATE: SHOULD CBTC BE VIEWED AS A MISSION CRITICAL NETWORK?

With CBTC now mature there is plenty of scope for additional functionality. There is still a reluctance in some quarters however, to use CBTC for other uses that are useful but non vital. Although non-vital they do have great benefits be it for the passenger, data collection etc. However, it is still understandable that those with responsibility for safety, do not want to merge systems and will not use the CBTC networks for other non-critical uses. Legislation following the terrorist attacks will mean that these are secured and even harder to integrate even if there is a desire. This session invites a couple of different viewpoints and will be followed by a further audience debate.

16:15 **Viewpoint 1: CBTC should be used only as a mission critical network**
Ahmet Kemal Ozdoner, Signalling Chief, **Istanbul Ulasim**

16:30 **Viewpoint 2: CBTC has potential for further automation that can be exploited to improve service**
Christopher Cox, Project Director Transportation Systems, **Metroselskabet**

16:45 **Audience debate and questions**

17:15 **End of Conference**

“This was an event that attracted a good international participation both from speakers and the audience - creating good networking opportunities with a range of organisations”

Daniel Woodland, Professional Head of Signalling, Lloyd's Register Rail

WHY SPONSOR OR EXHIBIT?

The SmartMetro & CBTC World Congress show is the definitive global gathering of CBTC and urban rail network professionals. With the needs of urban railways evolving and metros increasingly seeking greater integration to create more intelligent networks, industry suppliers must present themselves at the forefront of the industry to demonstrate they can meet these changing demands.

The congress represents an excellent networking and business development opportunity for the industry's key urban rail and metro vendors. If you are looking to increase your market presence, build your brand, announce and demo new products and meet buyers from across the whole value chain, you need to exhibit at the 2016 World Congress.



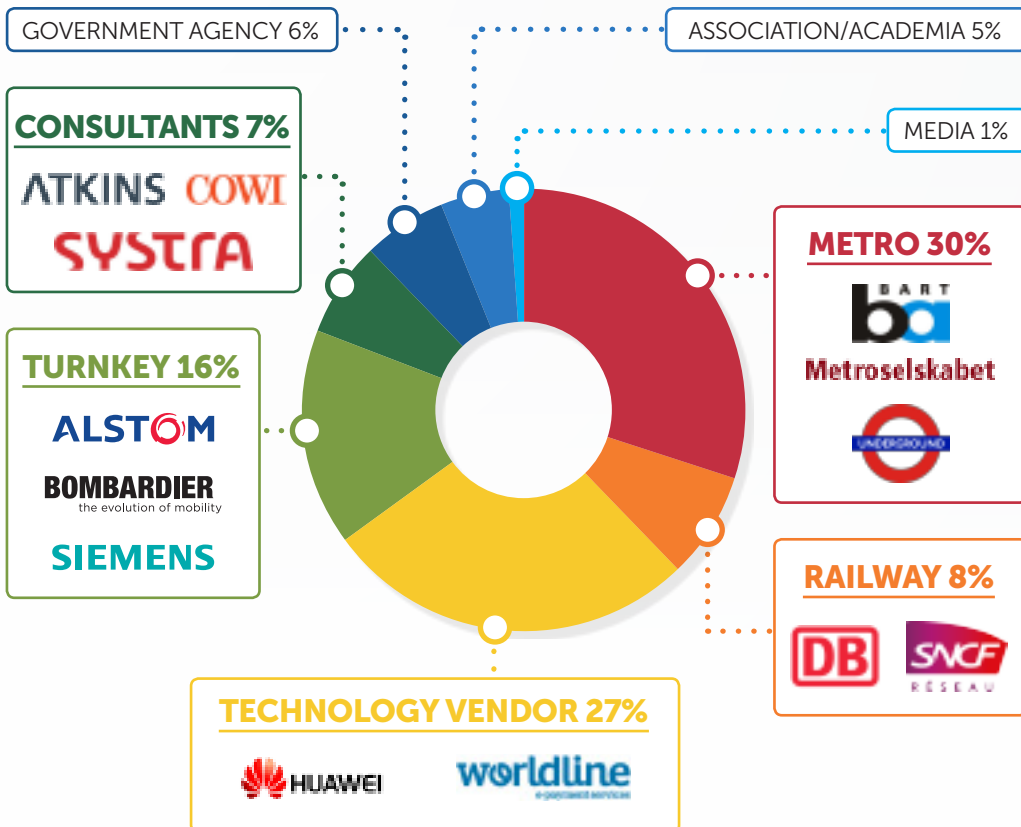
Exhibition stands are strictly limited and sold on a first come, first served basis. To reserve your stand please contact toye.kayode@globaltransportforum.com or call +44(0) 207 045 0917

TOP 6 REASONS TO EXHIBIT

- 1 Raise your profile among metros from all global regions
- 2 Maximise your growth by meeting over 150 senior budget holders from metro operators
- 3 Ensure you are at the cutting edge of industry innovation
- 4 Highlight to potential customers how you can help them digitise their networks
- 5 Build your brand among leading global metros
- 6 Cut costs and meet all of your current and potential partners in one place

2016 SPONSORS AND EXHIBITORS		
LEAD SPONSORS:	ASSOCIATE SPONSOR:	ROUNDTABLE SPONSOR:
ALSTOM	setec	voestalpine
Ansaldo STS <small>A Hitachi Group Company</small>	WORKSHOP SPONSOR:	ORGANISED BY:
BOMBARDIER <small>the evolution of mobility</small>	PROVER	GLOBAL TRANSPORT FORUM
SAMSUNG	EXHIBITORS:	
SIEMENS	COMPLY365	COWI
SYSTRA	MTR	Metre Report
	WYLD	

WHO YOU CAN MEET?



“Excellent speakers and content. A very well organised and content-rich event that provided relevant information and excellent industry networking opportunities”

Wendy Yorke, Government of Western Australia



Enquire about sponsoring or exhibiting: www.SmartMetro.eu

MEDIA PARTNERS

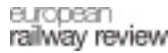
LEAD MEDIA PARTNER:



OFFICIAL MEDIA PARTNER:



MEDIA PARTNERS



REGISTRATION DETAILS

3 EASY WAYS TO REGISTER



Web: www.SmartMetro.eu



Tel: +44 (0)20 7045 0900



Email: marketing@globaltransportforum.com

ENQUIRE ABOUT OUR LIMITED VIP PASSES FOR GLOBAL METROS

DELEGATE TYPE:

	Book by 7th October	Standard pricing
THREE DAY CONGRESS <i>Operator / Government pass</i>	€1,640 + VAT	€1,890 + VAT
THREE DAY CONGRESS <i>Industr Supplier pass</i>	€2,270 + VAT	€2,525 + VAT
TWO DAY CONGRESS <i>Operator / Government pass</i>	€1,385 + VAT	€1,640 + VAT
TWO DAY CONGRESS <i>Industry Supplier pass</i>	€2,015 + VAT	€2,270 + VAT

* 25% VAT is applied to all prices.

CHECK OUT OUR OTHER EVENTS



October 25-26, 2016
New Jersey
USA

www.SmartMetro.eu



December 1-2, 2016
Bangkok
Asia

www.SmartRailAsia.com



March, 2017
Washington D.C.
USA

www.SafeRailCongress.com



April, 2017
Amsterdam
The Netherlands

www.SmartRailEurope.com

REGISTER NOW AND HAVE ACCESS TO OUR VIP LOYALTY CLUB:

Start networking with fellow delegates and leading metro professionals in our private linkedin networking group

“An extremely useful and informative forum to meet with industry colleagues and exchange information and ideas. An excellent forum for networking opportunities”

Peter Given, Mott MacDonald Ltd

“Very good event with a range of relevant speakers from around the world”

Yacine Palagi, Rolling Stock Project Engineer, London Underground

For more information please visit: www.SmartMetro.eu