



# SMART METRO

## INCORPORATING THE 6TH ANNUAL CBTC WORLD CONGRESS

3-5 November 2015, Crowne Plaza, Copenhagen, Denmark

## CREATING THE SMART METRO AND URBAN RAILWAYS OF THE FUTURE

**66** "The best run event in the business"  
George Hacken, MTA/ NYCT



EVENT PARTNER:



### EXECUTIVE SPEAKERS INCLUDE:



**Mike Brown**  
Managing Director  
**London Underground**, UK



**Joubert Flores**  
Director  
**Metro Rio**  
Brazil



**Peter Viinapuu**  
CEO  
**MTR Nordic**  
Sweden



**Azmi Abdul Aziz**  
Managing Director  
**Prasarana**, Malaysia



**Henrik Plougmann Olsen**  
CEO  
**Metroselskabet**  
Denmark



**Philippe Leguay**  
International Rail  
Systems Transport  
Director  
**Keolis**, France



**Neil Roberts**  
Director, ICT  
**Yarratrams**  
Australia



**Juan Pablo Piccardo**  
President  
**Metro Buenos Aires**  
Argentina

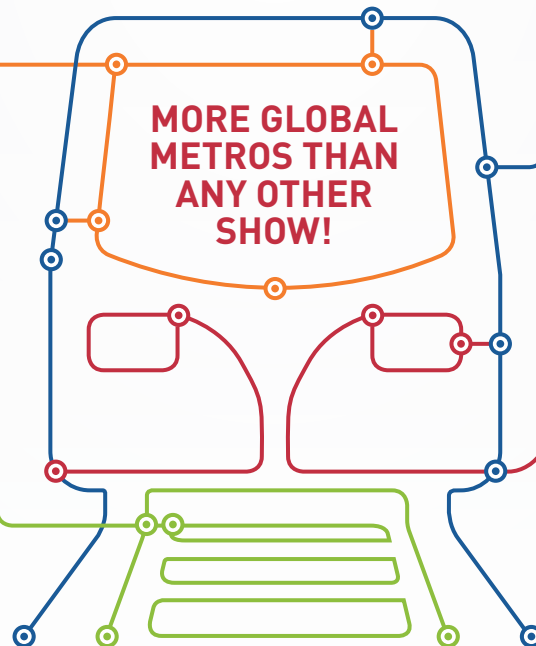
#### TWO-DAY SEMINAR PROGRAMME

Create more intelligent, cost effective networks with in-depth case studies on safety, asset management, technology integration and passenger management.



#### EXECUTIVE PLENARY SESSIONS

Hear key insights and business initiatives from global CEOs and directors in our keynote and plenary sessions.



#### INTERACTIVE ROUNDTABLE SESSION

An intimate learning and networking experience for sharing best practice on key emerging issues



#### WORKSHOP AND SITE VISITS

A unique opportunity to witness metro operations in Copenhagen and learn from our industry experts during the pre-conference programme.

EVENT PARTNER:



LEAD SPONSORS:



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ORGANISED BY:



LEAD MEDIA PARTNER



Register now at: [www.SmartMetro.eu](http://www.SmartMetro.eu)



An unique event to meet suppliers & operators and share the latest updates & see the future of CBTC systems”

Daive Vado, Head of Mass Transit Sales. Bombardier Transportation

## WHY SMARTMETRO?

SmartMetro incorporating the 6th annual CBTC World Congress provides the definitive platform for global metros to create reliable, connected and competitive networks integral to modern, growing cities.

Created with the help of a steering committee including SNCF, HKL, Keolis, Siemens and GE Transportation, SmartMetro is the definitive congress & exhibition to share best practice and drive towards an intelligent, next generation metro system.

## WHO ATTENDS?

### 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



## DEVELOP SMART URBAN RAIL NETWORKS AND DELIVER GROWTH

Dear colleagues,

As the CEO of Denmark’s pre-eminent urban transit network, Metroselskabet, I would like to welcome you to Copenhagen. We are pleased to be the host network for the world’s leading smart metro event. Now in its 6th year the show, incorporating the CBTC World Congress is the definitive global event for metro and urban transit systems looking to build the smart, connected, safe and desirable networks of the 21st century.

With so many on-going projects in Denmark and the growth of urban transit in the country we are proud to showcase our rail systems at the show via case studies and site visits. We look forward to welcoming you to our operational centres.

SmartMetro will deliver a dynamic range of case studies, workshops and roundtables with diverse content and speakers; there is something here for the whole team. I hope you will take these opportunities, to meet, network, learn and engage with your global counterparts to improve the whole value chain of your business.

We are pleased to give our support to SmartMetro and would be delighted to have you involved and meet you at the showcase.



**Henrik Plougmann Olsen**  
CEO  
Metroselskabet

## UNIQUE FORMAT FOR LEARNING AND NETWORKING:

### CEO CASE STUDIES AND PLENARY SESSIONS:



The congress features keynote presentations, panel discussions and plenary sessions from CEOs and technology specialists looking at creating a more integrated, competitive network.

Learn about:

- Driving integrated transport systems that support city growth
- Mission critical networks & systems
- Defining what technology is necessary on your network
- Reducing dwell time and entry/exit

### STREAMED CONTENT TO DELIVER PRACTICAL TAKEAWAYS:



With a SmartMetro stream and a CBTC stream, the congress will deliver targeted and practical takeaway messages for the whole team. Covering topics from signalling, asset management, to passenger operations SmartMetro offers something for the entire value chain.

- Hear global project case studies
- Maximise your time and your team through streamed content
- Learn from the diverse range of end-user speakers
- Hear from the top technology innovators

### INTERACTIVE ROUNDTABLES AND WORKSHOPS:



As well as providing senior keynotes and global case studies, we understand the value of a more intimate informal environment to benchmark and share best practice on key technical issues. The roundtables and workshops provide an interactive workspace for delegates to get key questions answered.

- Hosted by industry expert to lead the discussion
- Ability to ask questions on your specific issues
- Network and learn from your peers
- Gain practical takeaways from site visits

### NETWORKING AREAS AND PRACTICAL SITE VISITS:



SmartMetro strives to maximise both networking time and practical takeaways. The exclusive exhibition showcases solutions, innovations and services from key leading suppliers, with practical site visits during the pre-conference day providing a unique hands-on experience.

- Meet 100s of your peers
- Uncover latest product innovations
- Do business and expand your network
- Gain practical takeaway with site visits around Copenhagen

Book your full conference pass here: [www.SmartMetro.eu](http://www.SmartMetro.eu)

# MEET THE MOST INFLUENTIAL METRO LEADERS FROM AROUND THE GLOBE

## HIGHLIGHTS:



**Andreas Oberhauser**  
Head of Business Unit  
Infrastructure Inspection  
**Wiener Linien**



**Bengt Carlsson**  
Safety Director  
**MTR Stockholm**



**Duncan Cross**  
Deputy Director Operations  
**Transport for London**



**Jon Lamonte**  
CEO  
**Transport for Greater Manchester**



**Joubert Flores**  
Director  
**Metro Rio**



**Peter Viinapuu**  
CEO  
**MTR Nordic**



**Pier Galileo La Scala**  
Head of Exploitation and  
Operations  
**GTT Turin Metro**



**Suleyman Acikbas**  
CEO/ General Manager  
**RailSis**



**Neil Roberts**  
Director, ICT  
**Yarratrams**



**Christos Tsitouras**  
Chairman of the Board and  
Managing Director  
**Atiko Metro**



**Henrik Plougmann Olsen**  
CEO  
**Metroselskabet**



**Claus Rehfeld Moshøj**  
Managing Director  
**Aarhus Letbane**



**Philippe Leguay**  
International Urban Rail  
Systems Transport Director  
**Keolis**

## KEY SPEAKERS INCLUDE:

**Mike Brown**  
Managing Director  
**London Underground**

**Azmi Abdul Aziz**  
Managing Director  
**Prasarana Malaysia**

**Juan Pablo Piccardo**  
President  
**Buenos Aires Underground**

**Claudio Cassarino**  
Managing Director  
**Metro Service**

**Tom Dunscombe**  
Group Manager - Planning,  
Development & Construction  
**San Francisco Bay Area Rapid Transit**

**John Atkins**  
Agent General  
**Government of Western Australia European Office**

**Chaisak Srisethanil**  
Project And Engineering Director  
**Bangkok Mass Transit System**

**Nick Thompson**  
Rail Advisor  
**Metro Trains Melbourne**

**Nidhish Patel**  
Program Executive - Signals and  
Train Control Division, **NYCT**

**Aurelio Rojo Garrido**  
Honourary Board Member  
**Alamys**

**Dominique Deau**  
NEXTEO Development Director  
**SNCF**

**Kimmo Reiman**  
Project Manager, Helsinki Metro  
**HKL**

**Klavs Hestbek Lund**  
CEO  
**KHL Project Management**

**Mátyás Jangel**  
Chief Engineer  
**BKV**

**Nabil Ghaly**  
President  
**NYR Technology**

**Sebastian Jarczynski**  
Systems Performance Engineer  
**London Underground**

**Tao Tang**  
School of electronics and  
information engineers  
**Beijing Jiatong University**

**Terence Law**  
Project Manager, Signalling  
**MTR**

**Thomas Bech Roskjær**  
Passenger Operations and  
Contract Manager  
**Metroselskabet**

**Ingo Hoffmann**  
Head of International Business,  
Mass Transit, **Siemens**

**Melih Arpacı**  
Vice President for Market  
Development and Product  
Management, **Siemens**

**Christopher Cox**  
Operations Manager  
**Metroselskabet**

**Alexandre Betis**  
Head of CBTC Solutions  
**Ansaldo STS**

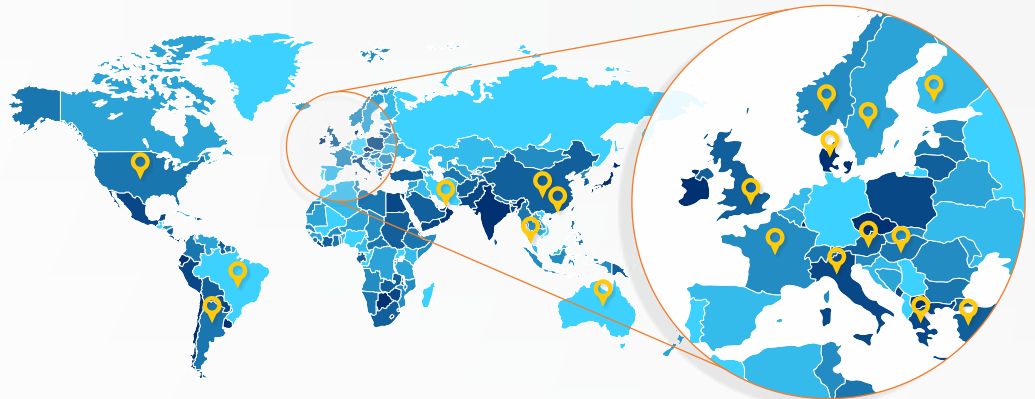
**Dan Testa**  
Principal Project Engineer  
**Ansaldo STS**

**Omar Rezzoug**  
Vice President of CBTC applications  
**Ansaldo STS**

**Norman Frisch**  
Business Development, Transport  
Solutions, **Huawei**

**Imtithal Aziz**  
Project Engineer  
**London Underground**

## A TRULY GLOBAL EVENT: SPEAKERS FROM 5 CONTINENTS



## PREVIOUS ATTENDING COMPANIES:

- Ministry of Transport and Communications Peru
- Alamys
- 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
- Dopravní 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
- HaslerRail AG
- Helsinki City Transport (HKL)
- Hitachi
- Huawei
- IARO
- IKOS Consulting
- INEO SCLF 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 conference pass here: [www.SmartMetro.eu](http://www.SmartMetro.eu)

## PRE-CONFERENCE SITE VISIT AND WORKSHOP DAY: 3<sup>RD</sup> NOVEMBER 2015

09:30 **Site visit groups meeting at Crowne Plaza**

10:00 **Metroselskabet and Banedanmark site visits**

Begin your stay in Copenhagen by visiting key metro operation sites in Denmark thanks to support from Metroselskabet and Banedanmark. Leaving the Crowne Plaza at 10:00 you will have the opportunity to meet your fellow delegates and check out the network developments first hand with our unique site visits

- 1) Visit the joint CBTC project upgrade undertaken by Banedanmark and Siemens which is currently in testing phases
- 2) Or choose to visit the two Maintenance and Control Centre of Metroselskabet.

Places will be allocated on a first come, first serve basis and are strictly limited. Register now or miss out!

13:30 **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!

14:30 **Interactive Workshop 3: LTE for Metro systems**

**Norman Frisch**, Business Development. Transport Solutions, **Huawei**



14:30 **Interactive Workshop 2: Train interface: steps towards a possible standard definition**

**Omar Rezzoug**, Vice President of CBTC applications, **Ansaldo STS**



15:30 **Networking Coffee**

16:15 **Interactive workshop 3**

Reserved for **Alstom**



16:15 **Interactive Workshop 4**

Reserved for **Systra**



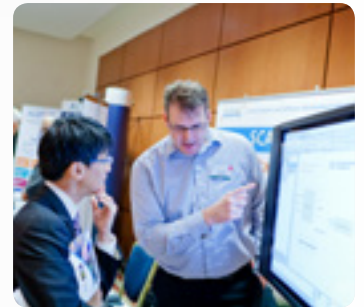
17:30 **Pre congress drinks reception**

Following the site visit and 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



The Congress brings us not only new ideas, strategies, solutions and channels to discuss, but also lets us keep at the forefront of these fields. It should not be missed."

**Po-Ying Chen, E&W Division, Department of Rapid Transit Systems, Taipei City Government**



### SPONSOR PROFILES:



**HUAWEI**

Huawei Technologies is a leader in providing next generation telecommunications solutions. Huawei is committed to providing innovative and customized products, services and solutions to create long term value and potential growth for its customers. Huawei's products and solutions include wireless products, core network products, network products, railway communication solutions, application and software, as well as terminals. Major products are based on Huawei's self-designed ASIC chips and shared platforms to provide high-quality and cost effective products and solutions with quick response.

**BOMBARDIER**

Bombardier Transportation offers the broadest portfolio in the rail industry and delivers innovative products and services that set new standards in sustainable mobility. Our division, Rail Control Solutions is a global leader in delivering state-of-the-art, safe rail control solutions. From high density mass transit systems to intercity, or long distance passenger and freight operations, from cross-border solutions to regional and low density industrial lines, Bombardier's highly proven signalling solutions have been installed in over 50 countries and are adaptable to suit all needs.



Congestion, pollution, need for fluidity and safety represent some of the urban transport challenges that are addressed by Alstom's expertise in high performance train control. In 2003, Alstom put into operation the world's first radio CBTC on Singapore's North East Line subway. Today, more than 25% of all radio CBTC solutions in operation worldwide are URBALISTM. Alstom is constantly upgrading the technology and proposes two CBTC solutions: URBALIS 400TM and URBALIS FluenceTM. Both solutions capitalise on a common technological base to deliver high performance with low LCC. They guarantee the highest level of safety endorsed by official independent authorities.



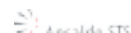
The Mobility Division is a leading international provider of products, systems and solutions that enable people and goods to be transported in an efficient, safe and environmentally friendly manner. Business activities include rolling stock, rail automation, intelligent traffic and transportation systems, and rail electrification. Mobility's service offerings maximize vehicle and infrastructure availability. The Division's comprehensive portfolio is further augmented by turnkey project expertise and tailored financing solutions.



A global leader in public transportation engineering infrastructures, SYSTRA has a reputation as an established partner in public transport systems for the past 50 years. In 2013, SYSTRA reported revenues of €443 million, a large majority of which was on international markets. The Group employs 3,800 people worldwide, manages 3,000 contracts and has operations in 78 countries.



Worldline [Euronext: WLN] is the European leader in the payments and transactional services industry. Worldline delivers new-generation services, enabling its customers to offer smooth and innovative solutions to the end consumer. Key actor for B2B2C industries, with over 40 years of experience, Worldline supports and contributes to the success of all businesses and administrative services in a perpetually evolving market. Worldline offers a unique and flexible business model built around a global and growing portfolio, thus enabling end-to-end support. Worldline activities are organized around three axes: Merchant Services & Terminals, Mobility & e-Transactional Services, Financial Processing & Software Licensing. Worldline employs more than 7,300 people worldwide and generated 1.15 billion euros revenues in 2014. Worldline is an Atos company. worldline.com



Ansaldo STS is a leading technology company operating in the global Railway & Mass Transit Transportation business. With over 150 years of history and proven success, Ansaldo STS employs more than 4,100 people worldwide to develop the most advanced signalling technologies and related systems and delivers completely integrated Transportation Solutions. As an expert in rail signalling, Ansaldo STS provides design, manufacturing, installation, commissioning and maintenance of a wide range of automation and automatic control systems and equipment dedicated to rail and train control, focussing on innovation, safety, reliability, interoperability and sustainability.



Engineering a safer world. Aviation, trucking and cars bring oil dependence and pollution. Trains are faster, more economical, safer and greener. At Prover Technology, we are committed to doing our part. We supply solutions for engineering the safety critical systems that control trains, signals and switches. Our PiSPeC™ and Prover iLock™ solutions are used to specify, code, simulate and formally verify a wide variety of systems, including interlocking, CBTC, ERTMS, ATP. We also provide the software IP and training needed to enable our customers to meet strict certification requirements at reasonable cost. Prover's HQ is in Stockholm, Sweden. The company has subsidiaries in the US and France.

## DAY ONE: 4<sup>TH</sup> NOVEMBER 2015

### 08:00 REGISTRATION OPEN & CONGRESS NETWORKING REFRESHMENTS

#### 08:50 Partner welcoming address:

Senior Representative, **Huawei**

**Norman Frisch**, Business Development, Transport Solutions, **Huawei**

Day One Chairman:

#### MORNING KEYNOTE SESSION: Urban Mobility: The Digital Metro Network

In an increasingly urbanised world, evolving IT and the digital revolution give metro systems an opportunity to improve service and meet growing passenger demands. How are metro leaders moving towards these more intelligent metro networks and what are the key requirements over the next few years? How can technology be placed at the heart of smarter systems and ultimately, enhance reliability, efficiency and capacity of networks to increase passenger numbers and meet the growth in urban populations? This session looks at:

- Driving integrated transport systems that support city growth
- Future visions for metro networks
- Delivering a high capacity, reliable service to meet growing needs

09:00 **EVENT PARTNER KEYNOTE: A connected, futureproof metro network**  
**Norman Frisch**, Business Development, Transport Solutions, **Huawei**

09:15 **HOST METRO KEYNOTE: Utilising technology to move towards a futureproof network**  
**Henrik Plougmann Olsen**, CEO, **Metroselskabet**

09:30 **KEYNOTE: Meeting growing urban demands with intelligent metro systems**  
**Mike Brown**, Managing Director, **London Underground**

09:45 **KEYNOTE: Growing and integrating your network for seamless operations**  
**Azmi Abdul Aziz**, Managing Director, **Prasarana Malaysia**

10:00 **KEYNOTE PANEL DISCUSSION: Developing a future vision for metro and urban transport networks**

**Mike Brown**, Managing Director, **London Underground**

**Henrik Plougmann Olsen**, CEO, **Metroselskabet**

**Norman Frisch**, Business Development, Transport Solutions, **Huawei**

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

**Christos Tsitouras**, Chairman of the BoD and Managing Director, **Atiko Metro**

**Peter Viinapuu**, CEO, **MTR Nordic**

**Jon Lamonte**, CEO, **Transport for Greater Manchester**

**Azmi Abdul Aziz**, Managing Director, **Prasarana Malaysia**

### 10:30 Networking Coffee

## SMART SIGNALLING AND SECURITY



The primary concern of any passenger rail network remains the safety and security of passengers. Key to this is having a signalling system (CBTC) that is reliable, safe but also, being utilised to minimise headway and increase reliability and efficiency on the network. What can be done to ensure the safety and reliability of the system? Is a fallback necessary or will the system operate better without one? Finally, with networks becoming digitised cyber security is also an important concern with the system. This session looks at:

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

11:10 **Putting safety and reliability at the heart of network upgrades**  
**Christos Tsitouras**, Chairman of the BoD and Managing Director, **Atiko Metro**

11:30 **Managing costs while maximising safety and performance**  
**Bengt Carlsson**, Safety Director, **MTR Stockholm**

11:50 **Managing complex refurbishment projects successfully to optimize performance**  
**Ingo Hoffmann**, Head of International Business, Mass Transit, **Siemens**

12:10 **System performance with CBTC in Brownfield applications**  
**Nick Thompson**, Rail Advisor, **Metro Trains Melbourne**

12:30 **PANEL: Ensuring both safety and optimum performance of mission critical networks**  
**Bengt Carlsson**, Safety Director, **MTR Stockholm**

**Ingo Hoffmann**, Head of International Business, Mass Transit, **Siemens**

**Nick Thompson**, Rail Advisor, **Metro Trains Melbourne**

**Christos Tsitouras**, Chairman of the BoD and Managing Director, **Atiko Metro**

**Nidhish Patel**, Program Executive - Signals and Train Control Division, **NYCT**

**Alexandre Betis**, Head of CBTC Solutions, **Ansaldo**

## SMART TECHNOLOGY INTERGRATION



Many new technologies are now available for metros and urban railways but operators must determine what technology they need and how to best utilise it. Effective technology integration can reduce cost, improve efficiency and create a better customer service. How can technology be integrated without impacting mission critical services. What technology is required? Can operators have a single vital and non vital network? This session looks at:

- Defining what technology is necessary on your network
- Integration to reduce costs and improve efficiency
- One integrated vital and non vital network?

Moderator: **Nabil Ghaly**, President, Rail Transport Engineering (RTE)

11:10 **The next generation of CBTC Technology**  
**Nabil Ghaly**, President, **Rail Transport Engineering (RTE)**

11:30 **Exploiting evolving technology for efficient operations**  
**Christopher Cox**, Operations Manager, **Metroselskabet**

11:50 **Defining requirements and increasing integration**  
**Terence Law**, Project Manager, Signalling, **MTR**

12:10 **Achieving an integrated end to end metro network**  
**Philippe Leguay**, International Urban Rail Systems Transport Director, **Keolis**

12:30 **PANEL: What does the next generation integrated network look like?**

**Terence Law**, Project Manager, Signalling, **MTR**

**Philippe Leguay**, International Urban Rail Systems Transport Director, **Keolis**

**Christopher Cox**, Operations Manager, **Metroselskabet**

**Nabil Ghaly**, President, **Rail Transport Engineering (RTE)**

### 13:10 Networking Lunch

#### 14:20 - 15:20 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** **OPTIMISING CBTC AS A WHOLE SYSTEM:** Reserved for **Bombardier**

**B** **Sign-off verification of SCADE rail control designs using Prover Certifier:** **Arne Borälv**, **Prover**

### 15:20 Networking Coffee

## CBTC FOR RAIL AND LIGHT RAIL



With increasing populations and passenger numbers, light rail and passenger rail are also increasingly seeking high capacity on the network. Utilising CBTC can help achieve this within the existing infrastructure, saving significant costs compared to building additional railway lines. When choosing an appropriate system, these needs must be considered. This session looks at:

- CBTC potential for rail and light rail projects
- The business case for CBTC
- Delivering a high capacity, reliable service to meet growing needs

16:00 **Adapting CBTC interfaces to a mainline infrastructure**  
**Dominique Deau**, Development Director, **SNCF**

16:15 **CBTC for light rail: The business case**  
**Duncan Cross**, Deputy Director Operations, **Transport for London**

16:30 **Planning and delivering CBTC implementation**  
**Tom Dunscombe**, Group Manager - Planning, Development & Construction, **San Francisco Bay Area Rapid Transit**

16:45 **How CBTC can improve capacity and reliability**  
**Nidhish Patel**, Program Executive - Signals and Train Control Division, **NYCT**

17:00 **PANEL: The impact of CBTC on rail and light rail networks**  
**Dominique Deau**, NEXTEO Development Director, **SNCF**

**Tom Dunscombe**, Group Manager - Planning, Development & Construction

**San Francisco Bay Area Rapid Transit**

**Duncan Cross**, Deputy Director, **Transport for London**

**Nidhish Patel**, Program Executive - Signals and Train Control Division, **NYCT**

## SMART ASSET MANAGEMENT



The railway industry has a broad and complex asset base that have typically been managed in ineffective and costly silos. IT can be better utilised to integrate this asset management and create a single source of transparent information to reduce cost and drive efficiency and extend the lifecycle of systems. This session looks at:

- Extending lifecycle through more effective asset management
- Predictive and preventative remote diagnostics
- Reducing costs with an effective asset management strategy

Moderator: **Nabil Ghaly**, President, **Rail Transport Engineering (RTE)**

16:00 **Asset Management as a key part of your operating strategy**  
Presented by **Worldline**

16:15 **Extending system lifecycle and reliability**  
**Pier Galileo La Scala**, Head of Exploitation and Operations, **GTT Turin Metro**

16:30 **Improving maintenance through better asset management**  
**Andreas Oberhauser**, Head of Business Unit Infrastructure Inspection, **Wiener Linien**

16:45 **Using IT as an asset to improve rolling stock performance and lifecycle**  
**Sebastian Jarczyński**, Systems Performance Engineer, **London Underground**

17:00 **PANEL: The importance of asset management to the modern metro network**  
Reserved for **Worldline**

**Pier Galileo La Scala**, Head of Exploitation and Operations, **GTT Turin Metro**

**Terence Law**, Project Manager, Signalling, **MTR**

**Neil Roberts**, Director, ICT, **Yarratrans**

**Andreas Oberhauser**, Head of Business Unit Infrastructure Inspection, **Wiener Linien**

**Sebastian Jarczyński**, Systems Performance Engineer, **London Underground**

### 17:30 Networking Drinks Reception

## DAY TWO: 5<sup>TH</sup> NOVEMBER 2015

08:30 REGISTRATION OPEN & CONGRESS NETWORKING REFRESHMENTS

08:30 **EXCLUSIVE PARTNER BREAKFAST BRIEFING (Closed session)**  
**Norman Frisch**, Business Development, Transport Solutions, **Huawei**



For invited attendees only, this interactive breakfast briefing session allows participants to chance to uncover new innovations and network with peers in an informal and relaxed setting over breakfast coffees and pastries. The session will feature a presentation from Event Partner Huawei, before an open discussion and Q&A with the participants

### Smart operations management: Reliability, sustainability and cost

Modern metros are tasked with transporting more passengers, more sustainably and at a lower cost than ever before. The fast pace of technology can provide a solution if utilised with a whole system approach. Enhanced data management, automation technology such as driverless operations and automatic coupling and energy efficiency can make this a reality. Implementing these solutions can optimise operations and ensure long term cost and energy management to reduce ongoing cost and guarantee sustainability. What can be done to ensure long term operational reliability? This session looks at:

- The role of data and IT on operational performance and cost
- Increasing automation with automatic coupling and driverless operations
- Maximising energy efficiency

09:00 **Case Study: Promoting innovation to enhance operations**  
**Peter Viinapuu**, CEO, **MTR Nordic**

09:20 **Case Study: Improving the reliability and performance with effective operations management**  
Presented by **Bombardier Transportation**

09:40 **Impact of CBTC on long term performance and cost**  
**Juan Pablo Piccardo**, President, **Buenos Aires Underground**

10:00 **KEYNOTE PANEL DISCUSSION: Moving towards a smarter more sustainable metro operation**

Reserved for **Bombardier Transportation**  
**Suleyman Acikbas**, General Manager, **RailSis**  
**Claudio Cassarino**, Managing Director, **Metro Service**  
**Neil Morris**, Head of Engineering, **Dubai metro**  
**Juan Pablo Piccardo**, President, **Buenos Aires Underground**  
**Claus Rehfeld Moshøj**, Managing Director, **Aarhus Letbane**  
**Peter Viinapuu**, CEO, **MTR Nordic**

10:30 Networking Coffee

### GLOBAL PROJECT CASE STUDIES



Each CBTC project brings a different set of requirements and expectations. Brownfield and Greenfield projects have varying complexity and operators must assess technology choices and ROI carefully for each upgrade. Business case and requirements will vary but each system must enhance capacity, improve reliability and operate successfully long term. This session looks at:

- Managing CBTC projects to achieve long term success
- Long term results of new technology implementation on the metro network
- Making technology decisions and maximising ROI

11:10 **Increasing automation to improve service**  
**Mátyás Jangel**, Chief Engineer, **BKV**

11:30 **Project Update: Market growth and tend opportunities in Western Australia**  
**John Atkins**, Agent General, **Government of Western Australia European Office**

11:50 **Planning new projects and meeting scheduled deadlines successfully.**  
**Claus Rehfeld Moshøj**, Managing Director, **Aarhus Letbane**

12:10 **Don't get lost in an upgrade: a case study with METRO S.A. about Santiago L1 Project**  
Presented by **Systra**

12:30 **PANEL: Maximising ROI and performance from implementation to long term project management**  
Presented by **Systra**

**Chaisak Srisethanil**, Project And Engineering Director, **Bangkok Mass Transit System**  
**John Atkins**, Agent General, **Government of Western Australia European Office**  
**Tao Tang**, School of electronics and information engineers, **Beijing Jiatong University**  
**Claus Rehfeld Moshøj**, Managing Director, **Aarhus Letbane**  
**Mátyás Jangel**, Chief Engineer, **BKV**  
**Carlos Benevides**, CBTC Project Manager, **Santiago Metro**  
**Imtithal Aziz**, Project Engineer, **London Underground**

### OPTIMISING PASSENGER MANAGEMENT



With the potential of CBTC to maximise capacity and reduce headway, it is a key tool in the challenge of safely transporting a soaring number of passengers from A to B. To optimise this however, CBTC must be looked at as the central part of the overall strategy not the solution in isolation. What impact can CBTC have on passenger operations in conjunction with more effective passenger management? Using evolving IT, driver management and station management in conjunction can reduce dwell times, improve reliability and maximise the system. This session looks at:

- Utilising technology to manage passengers
  - Reducing dwell time and entry/exit
  - Impact of CBTC on passenger experience
- Moderator: **Nabil Ghalby**, President, **Rail Transport Engineering (RTE)**

11:10 **Exploiting evolving technology on a passenger network**  
Presented by **Alstom**

11:30 **Importance of driver and station management to reduce dwell time**  
**Suleyman Acikbas**, CEO/ General Manager, **RailSis**

11:50 **Reducing dwell time and managing growing passenger numbers**  
**Joubert Flores**, Director, **Metro Rio**

12:10 **Meeting passenger demands on urban rail networks**  
**Thomas Bech Roskjær**, Passenger Operations and Contract Manager, **Metroselskabet**

12:30 **PANEL: Meeting passenger demands on urban rail networks**  
Reserved for **Alstom**

**Joubert Flores**, Director, **Metro Rio**  
**Azmi Abdul Aziz**, Managing Director, **Prasarana Malaysia**  
**Aurelio Rojo Garrido**, Honourary Board Member, **Alamy**  
**Neil Roberts**, Director, ICT, **Yarratrams**  
**Thomas Bech Roskjær**, Passenger Operations and Contract Manager, **Metroselskabet**

13:10 Networking Lunch

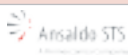
### INTERACTIVE ROUNDTABLE SESSIONS

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.

14:30 TABLE 1

#### Network optimisation & Integration

**Dan Testa**  
Principal Project Engineer  
**Ansaldo STS**



14:30 TABLE 2

#### Energy efficiency

Presented by **Alstom**



14:30 TABLE 3

#### Successful Project Upgrades

**Jon Lamonte**  
CEO  
**Transport for Greater Manchester**



14:30 TABLE 4

#### Big data and asset management

Presented by **Worldline**



14:30 TABLE 5

#### Automatic coupling and automation

**Melih Arpacı**, Vice President for Market Development and Product Management, **Siemens**



15:20 Networking Coffee

### CLOSING AUDIENCE DEBATE: FALLBACK SYSTEMS AND RISK MANAGEMENT; ARE FALLBACK SYSTEMS NECESSARY?

The notion of a fallback safety system and its imperativeness when upgrading and installing CBTC is still widely debated and as the technology evolves, is becoming more and more contentious. Keeping the legacy system in place may help to alleviate concerns regarding safety and reliability but adds significantly to long term OPEX and with performance and reliability improving, is it necessary at all? This sessions begins with a presentation on the use of fallback systems and will be followed up with an open debate including all audience members on their necessity and need.

16:00 **Fallback systems on a CBTC Network**  
**Kimmo Reiman**, Project Manager, **Metro Automation, HKL**  
**Klavs Hestbek Lund**, Independent Consultant  
**Nabil Ghalby**, President, **Rail Transport Engineering (RTE)**

16:20 **Open debate and Q+A on the need for fallback systems and growing automation**

16:50 End of Conference

**66** 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.

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1

Cut costs and meet all your current and potential customers in one place, at one time

2

Maximise the growth of your business by building relationships with colleagues, customers and competitors

3

Prove your thought leadership by showcasing your latest innovations

4

Raise your profile and show that you are a major industry player

5

Maximise interaction to understand what your customers are looking for

6

Influence key decision makers and ensure your message reaches key industry figures

7

Ensure you are at the cutting edge and keep up with industry trends

8

Highlight to all your customers how your solution can help achieve their goals

9

Protect your market position and secure crucial growth

10

Your competitors will be there. Don't let them win business at your expense



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