
附錄 1

大會手冊及會議議程(節本)

LTA-UITP Singapore International Transport Congress and Exhibition (SITCE)

Land Transport Authority 

SITCE 2018

PEOPLE AT THE HEART OF DIGITAL RAILWAYS



9 - 11 July 2018

Sands Expo and Convention Centre, Singapore

www.sitce.org

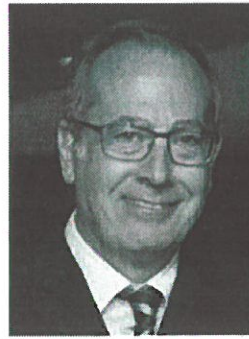
CONGRESS PROGRAMME

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NGIEN Hoon Ping
Chief Executive
Land Transport Authority
(LTA)
Singapore



Pere CALVET
President
International
Association of Public
Transport (UITP)
Director General FGC
Barcelona, Spain

Welcome to the third edition of LTA-UITP Singapore International Transport Congress and Exhibition (SITCE), jointly organised by the Land Transport Authority (LTA) of Singapore, the International Association of Public Transport (UITP) and LTA's subsidiary, MSI Global Pte Ltd. This year, the third edition of UITP's International Rail Conference, will be integrated within SITCE, for the first time in Asia.

Themed "People at the Heart of Digital Railways", SITCE 2018 will focus on how digital technologies will transform the passenger rail transport landscape and the need to bring innovative solutions to improve commuter experience in a people-centric transportation system. For greater synergy, this year's SITCE is co-located with the World Cities Summit (WCS) with a 3-day congress and exhibition filled with panels, presentations and networking events.

SITCE 2018 Congress features a panel of **more than 65** international speakers across 20 sessions with thought-provoking discussions on the benefits of digitalisation for rail security and cyber challenges, full automatic and autonomous train operation, innovative infrastructure construction, and energy efficiency among others. As part of the programme, the technical visits will provide opportunities for participants to view and gain first-hand experience of the latest ground-breaking technologies deployed at transport-related projects and developments in Singapore.

We are sincerely grateful for the strong support of various government agencies, supporting organisations and publications, as well as our exhibitors, partners, members of our organising committee, and all who have contributed to the successful staging of SITCE 2018. Thanks to the overwhelming response by our peers, SITCE's exhibition space was sold out more than two months before the event and will feature over **96** international and local exhibitors from **17** countries and regions. Leading solution providers will showcase the best and latest in urban rail transport technologies, planning, systems and solutions.

With Singapore being recently named as the leader in future mobility (by Arthur D. Little's Urban Mobility Index 3.0), we are excited to gather our international colleagues and peers here in Singapore to continue the conquest in advancing sustainable railways in the public transport industry.

May you have a rewarding participation at SITCE 2018.

GENERAL INFORMATION



ADMISSION

Congress: Accessible to registered delegates, speakers and accredited media only.

Exhibition: Open to delegates, speakers, trade visitors, exhibitors, partners and media.



VENUE

SITCE Congress Venue:

Level 4, Sands Expo and Convention Centre, Roselle Junior and Peony Junior Ballrooms

SITCE Exhibition Venue:

Level 1, Hall C, Sands Expo and Convention Centre, co-located with the City Solutions Singapore (CSS) Expo



OPERATING HOURS

Congress Registration Hours:

9 July 2018 - 8:00 am - 5:00 pm
10 July 2018 - 8:00 am - 5:00 pm
11 July 2018 - 8:00 am - 11:00am

Exhibition Registration Hours:

9 July 2018 - 9:00 am - 5:00 pm
10 July 2018 - 9:00 am - 5:00 pm
11 July 2018 - 9:00 am - 5:00 pm

Exhibition Hours:

9 July 2018 - 9:30 am - 5:30 pm
10 July 2018 - 9:30 am - 8:00 pm
11 July 2018 - 9:30 am - 5:30 pm



FACILITIES WITHIN THE HALL

Press Office

Sands Expo® and Convention Centre, Level 3

SITCE Secretariat Office

Sands Expo® and Convention Centre, Level 4
In front of Peony Junior Ballroom

SITCE Speaker Lounge

Sands Expo® and Convention Centre, Level 4
In front of Peony Junior Ballroom

MICE Business Centre

Sands Expo® and Convention Centre, Level 3
Operating Hours: 8am – 8pm daily



FACILITIES WITHIN SANDS EXPO AND CONVENTION CENTRE

Food and Beverage

Choose from over 80 restaurants, offering the best of local and international cuisines in one convenient dining destination. For local fare, visit Rasapura Masters, a food court offering a wide range of food and operating 24 hours.

Shopping

Over 270 designer boutiques, world-class brands and new concept stores at the Marina Bay Sands Shoppes.

World-class entertainment

Take the opportunity to catch live concert series featuring some of the world's biggest artistes performing in intimate yet astounding entertainment venues at Marina Bay Sands.



MOBIE APP

Tailor your
experience
with the
mobile app!



Step 1: How to get the app?

Get started by downloading the SITCE 2018 app on:



Step 2:

After downloading SITCE 2018 app, scan the barcode using the app or search for **SITCE18** (case sensitive)



Mobile app brought to you by **THALES**

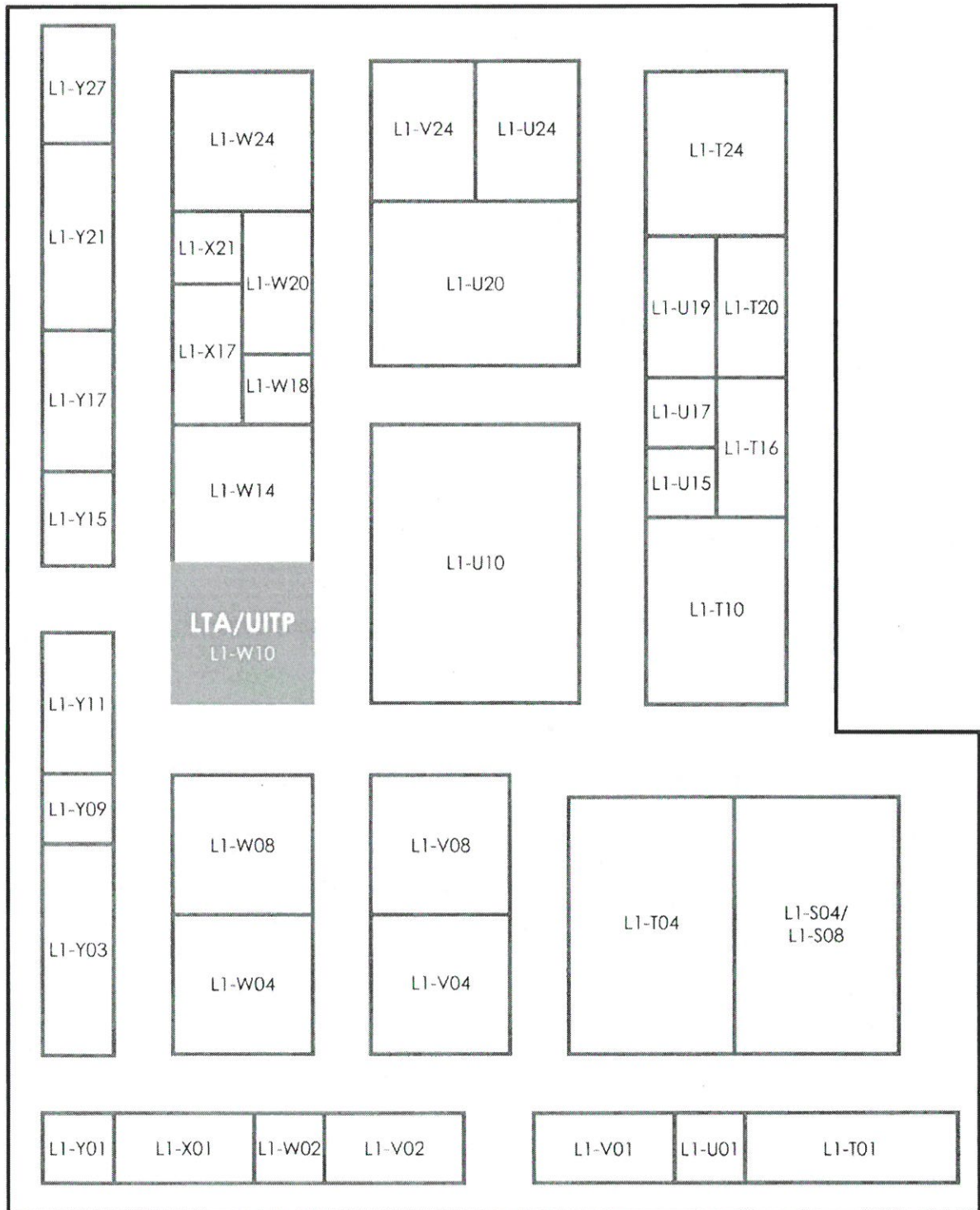
FLOORPLAN (EXHIBITION AND CONGRESS)

SITCE Exhibition:

Level 1, Hall C (co-located with City Solutions Singapore (CSS) Expo)

SITCE Congress:

Level 4, Roselle Junior and Peony Junior Ballrooms

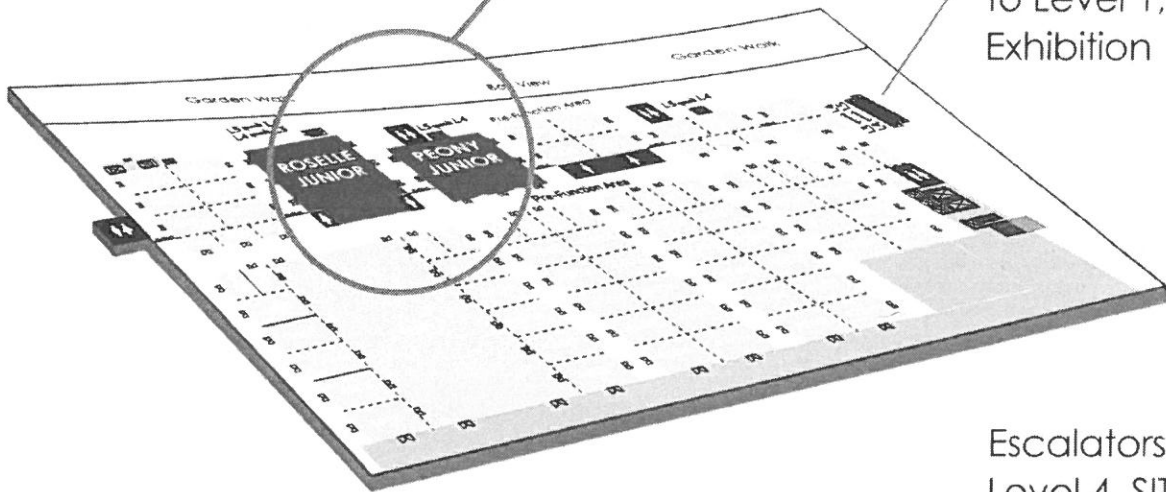


ROSELLE
JUNIOR

PEONY
JUNIOR

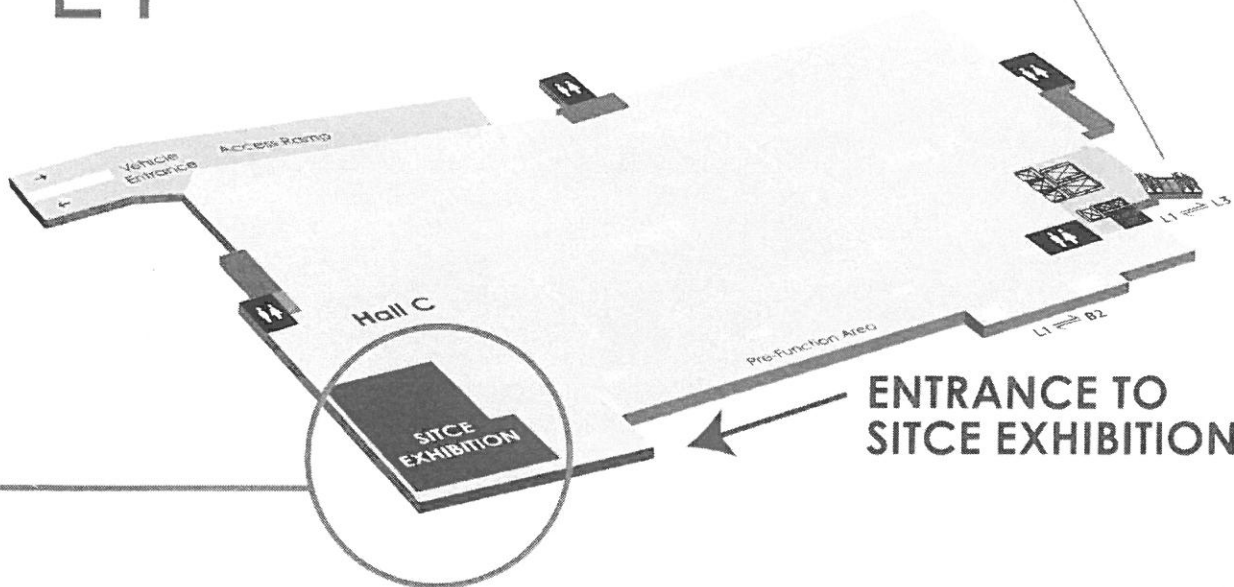
L4

Escalators
to Level 1,
Exhibition



L1

Escalators to
Level 4, SITCE
Congress



PROGRAMME AT A GLANCE

MONDAY, 9 JULY 2018

09:30 - 17:30	Visit SITCE Exhibition • L1, Hall C (co-located with City Solutions Singapore Expo)
09:30 - 12:00	World Cities Summit Opening Plenary, In-conversation and Opening Ceremony • L5 (by invitation only)
12:00 - 14:00	SITCE Lunch Sponsored by Samsung C&T Corporation • L4, Roselle/Peony Junior Bayview Foyer
14:00 - 15:30	SITCE 2018 Opening Ceremony Sponsored by Siemens Mobility and Woh Hup • L4, Roselle Junior Ballroom
15:30 - 16:30	SITCE VIP Exhibition Tour • L1, Hall C (co-located with City Solutions Singapore Expo)
19:00 - 21:00	Welcome Reception Sponsored by China Railway Tunnel Group • Chijmes (S) Sands Expo and Convention Centre (porte-cochère), 18:15 - 18:45 (15-min interval)

TUESDAY, 10 JULY 2018

09:30 - 20:00	Visit SITCE Exhibition • L1, Hall C (co-located with City Solutions Singapore Expo)		
✓ 09:00 - 10:30	Plenary session: Setting the scene. What is at stake? • L4, Roselle Junior Ballroom		
10:30 - 11:00	Coffee Break • L4, Roselle/Peony Junior Bayview Foyer		
11:00 - 12:30	✓ Parallel session 1 • L4, Roselle Junior Ballroom Full automatic operation today, autonomous trains tomorrow?	Parallel session 2 • L4, Peony Junior 1 Ballroom Condition-based infrastructure maintenance	✗ Parallel session 3 • L4, Peony Junior 2 Ballroom Mobility as a service/MaaS: New rail? Fad? Paradigm shift?
12:30 - 14:00	SITCE Lunch Sponsored by GS E&C Corporation • L4, Roselle/Peony Junior Bayview Foyer		
14:00 - 15:30	✓ Parallel session 4 • L4, Roselle Junior Ballroom LRT, when rail meets the city	Parallel session 5 • L4, Peony Junior 1 Ballroom Safety remains priority #1 in digital era	Parallel session 6 • L4, Peony Junior 2 Ballroom Customer service 2.0, 3.0 or 4.0... what matters is excellence!
15:30 - 16:00	Coffee Break • L4, Roselle/Peony Junior Bayview Foyer		
16:00 - 17:30	Parallel session 7 • L4, Roselle Junior Ballroom Looking into the most precious asset: Human resources, talent, skills and generation challenges	Parallel session 8 • L4, Peony Junior 1 Ballroom Condition-based rolling stock maintenance	✓ Parallel session 9 • L4, Peony Junior 2 Ballroom Innovative infrastructure construction
17:30 - 20:00	Industry Night at City Solutions Singapore Expo (SITCE congress delegates are entitled to participate) • L1, Hall C		

WEDNESDAY, 11 JULY 2018

09:30 - 17:30	Visit SITCE Exhibition • L1, Hall C (co-located with City Solutions Singapore Expo)		
09:00 - 10:30	Parallel session 10 • L4, Peony Junior 1 Ballroom The benefits of digitalisation for rail security - and its (cyber)-challenges	Parallel session 11 • L4, Roselle Junior Ballroom Singapore rail expertise	✗ Parallel session 12 • L4, Peony Junior 2 Ballroom Making rail even more energy-efficient
10:30 - 11:00	Coffee Break • L4, Roselle/Peony Junior Bayview Foyer		
11:00 - 12:30	Parallel session 13 • L4, Peony Junior 1 Ballroom Operators' experience in digital transformation	Parallel session 14 • L4, Peony Junior 2 Ballroom Obsolescence management and rolling stock life extension	✓ Parallel session 15 • L4, Roselle Junior Ballroom Artificial intelligence in railways and beyond
12:30 - 14:00	SITCE Lunch Sponsored by Huey Tian, K-INC Konstruct and L&M Foundation Specialist • L4, Roselle/Peony Junior Bayview Foyer		
14:00 - 15:30	✓ Parallel session 16 • L4, Peony Junior 1 Ballroom Impact of railway on regional connectivity and economy	✗ Parallel session 17 • L4, Peony Junior 2 Ballroom Life-cycle asset management for better availability at optimised cost	Parallel session 18 • L4, Roselle Junior Ballroom When data adds value to your service delivery
15:30 - 16:00	Coffee Break • L4, Roselle/Peony Junior Bayview Foyer		
16:00 - 17:30	SITCE Closing Ceremony • L4, Roselle Junior Ballroom Plenary CEO discussion: Making digital urban rail a success story		
19:00 - 21:00	Gala Dinner Sponsored by CSCEC – Nishimatsu JV, Koh Brothers and Meiden Singapore • PARKROYAL on Pickering, William Pickering Ballroom (S) Sands Expo and Convention Centre (porte-cochère), 18:00 - 18:45 (15-min interval)		

THURSDAY, 12 JULY 2018

09:00 - 12:00	Technical Visits (registration has closed) Digitalisation at Tuas West Depot • Mining works at TEL Orchard Station • ✓ Ground freezing works at TEL Marina Bay Station (S) Sands Expo and Convention Centre (porte-cochère), 08:30
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CONGRESS PROGRAMME

CONGRESS: LEVEL 4, ROSELLE JUNIOR AND PEONY JUNIOR BALLROOMS

MONDAY, 9 JULY 2018

09:30 - 17:30 **Visit SITCE Exhibition** • L1, Hall C (co-located with City Solutions Singapore Expo)

09:30 - 12:00 **World Cities Summit Opening Plenary, In-conversation and Opening Ceremony** • L5 (by invitation only)

12:00 - 14:00 **SITCE lunch** | Sponsored by Samsung C&T Corporation • L4, Roselle/Peony Junior Bayview Foyer

SITCE Opening Ceremony | Sponsored by Siemens Mobility and Woh Hup • L4, Roselle Junior Ballroom

14:00 - 14:10 **Welcome Addresses**

Alan CHAN Heng Loon, Chairman, Land Transport Authority (LTA) Singapore, Singapore

Pere CALVET, President, International Association of Public Transport (UITP); Director General, Ferrocarrils de la Generalitat de Catalunya, Spain

14:10 - 14:20 **Keynote Speech 1: The digital transformation of Deutsche Bahn**
Stefan STROH, Chief Digital Officer, Deutsche Bahn, Germany

14:20 - 14:30 **Keynote Speech 2: The many facets of digital passenger rail**
Prof. Graham CURRIE, Professor of Public Transport, Public Transport Research Group, Monash University, Australia

Panel Discussion: People at the heart of digital railways

Moderator:

Prof. Graham CURRIE, Professor of Public Transport, Public Transport Research Group, Monash University, Australia

14:30 - 15:30

Panelists:

NGIEN Hoon Ping, Chief Executive, Land Transport Authority, Singapore

Stefan STROH, Chief Digital Officer, Deutsche Bahn, Germany

Masaki OGATA, Chairperson UITP Asia-Pacific, Vice Chairman East Japan Railway Company, Japan

15:30 - 16:30 **SITCE VIP Exhibition Tour** • L1, Hall C (co-located with City Solutions Singapore Expo)

19:00 - 21:00 **Welcome Reception** | Sponsored by China Railway Tunnel Group
• Chijmes  Sands Expo and Convention Centre (porte-cochère), 18:15 - 18:45 (15-min interval)



shuttle bus service will be provided

CONGRESS PROGRAMME

CONGRESS: LEVEL 4, ROSELLE JUNIOR AND PEONY JUNIOR BALLROOMS

TUESDAY, 10 JULY 2018

09:30 - 20:00 Visit SITCE Exhibition • L1, Hall C (co-located with City Solutions Singapore Expo)

Plenary session 1: Setting the scene. What is at stake? • L4, Roselle Junior Ballroom

09:00 - 10:30

Digital technologies are already there and have the potential to deliver a revolutionary impact on rail transportation. However there is more than just technologies: a new eco-system needs inventing whilst not forgetting lessons from the past.

- **How to solve individual mobility needs and steer a sustainable mobility market? Rather than selling railway tickets?**
Dr Michael LICHTENEGGER, Senior Strategist, Upstream - Next Level Mobility, Austria
- **Governance and regulatory framework for urban rail – In search of effectiveness**
Morris CHEUNG, President, MTR Academy, Hong Kong S.A.R
- **Future rail-based transit in an AV age - Learnings from the past and governance challenges for a civil society**
Arnd BÄTZNER, Member of the Board of Directors, Mobility CarSharing Cooperative, Switzerland

Q&A

10:30 - 11:00 Coffee Break • L4, Roselle/Peony Junior Bayview Foyer

11:00 - 12:30 Parallel session 1
• L4, Roselle Junior Ballroom

Full automatic operation today, autonomous trains tomorrow?

Fully Automated Operation offers a glimpse into the future of metros, as the current state-of-the-art. However how can the concept of digital metros be further exploited beyond train movements?

SESSION CHAIR
Ramon MALLA, Director of Metro Strategic Projects, Transports Metropolitans de Barcelona (TMB), Spain

KEYNOTE SPEECH

- Beyond Automation: benefits and challenges of autonomous metro
Dr Ahmed Miske EL HADRAMI, Program Design Authority, Thales Solutions Asia Pte. Ltd., Singapore

PANEL DISCUSSION

Moderator:
Ramon MALLA, Director of Metro Strategic Projects, Transports Metropolitans de Barcelona (TMB), Spain

Panelists:
Olivier BADARD, Senior Vice President - Asia, Middle East and North Africa Business Unit, RATP Development, United Arab Emirates

BO Jiang, Vice President, Traffic Control Technology, China

Marc BADOUX, Deputy Director, Transports Lausannois, Switzerland

Philippe LEGUAY, International Director, Urban Railway Systems, Keolis, France

Q&A

Parallel session 2
• L4, Peony Junior 1 Ballroom

Condition-based infrastructure maintenance

The impact of digitalisation, big data, IoT etc will be a massive game-change on all asset maintenance activities: real health status of fixed asset classes will be better understood and monitored to optimize availability and costs.

SESSION CHAIR
Vincent Peng Hock TAN, Fellow, MTR Academy, Hong Kong S.A.R

- SCADA, drones and new maintenance techniques: What & metros are doing? How do they prepare?
Ignasi OLIVER, Director of Superstructures Maintenance, TMB, Fc Metropolità de Barcelona, Spain
- How BIM will revolutionise fixed asset maintenance
Francisco SÉCIO, Consultant and Ex Infrastructure Director, ex. Metropolitano de Lisboa, Portugal
- Big data and IoT for smarter fixed asset maintenance and optimised ROI
Pierre GOSSET, CTO, SYSTRA, France

Q&A

Parallel session 3
• L4, Peony Junior 2 Ballroom

Mobility as a service/MaaS: New grail? Fad? Paradigm shift?

MaaS or integrated mobility platforms provide registration, information, booking, payment, and ticketing/billing for the use of all available urban mobility services, but how can traditional urban rail mesh in this web of intertwined relations and continue guarantee freedom of mobility?

SESSION CHAIR
Roger VAHNBERG, Senior VP, Västtrafik AB, Gothenburg, Sweden

- The role of rail in a MaaS ecosystem
Alexandre SAVARD, Senior Manager, Rail, GIRO Inc., Canada
- Boosting travel experience and operation excellence with big data
Geert VANBEVEREN, Sales Director, Siemens AG, Germany
- A model to rate "Mobility as a service" apps
Andy TAYLOR, Strategy Director, Cubic Transportation Systems, United States of America
- European new electric scooter sharing model
Bertrand FLEUROSE, Founder & CEO, cityScoot, France

Q&A

TUESDAY, 10 JULY 2018

12:30 - 14:00 **SITCE Lunch** | Sponsored by GS E&C Corporation • L4, Roselle/Peony Junior Bayview Foyer

14:00 - 15:30

Parallel session 4

- L4, Roselle Junior Ballroom
- #### LRT, when rail meets the city

Street-level Light Rail Transit has been tremendously successful in Europe and North America in the last 30 years. It is now starting to find its role in Asian cities. The session will review the next evolution stages of this unrivalled "city-shaper".

SESSION CHAIR

Dipl.-Ing. Stephan LEWISCH, General Operations Manager, Wiener Linien, Austria

- What digitalisation brings to light rail passengers and operators
Christoph KLAES, Vice President for Light Rail and VAL, Siemens Light Rail Vehicles, Siemens AG, Germany
- Digitalisation, a way to improve urban rail and ensure sustainable quality of life in Cologne
Christian BURK, Division Manager - Urban Railway Infrastructure, Kölner Verkehrs-Betriebe AG (KVB), Germany
- Innovation and practice on LRT accident analysis and preventive technical measures
Dipl.-Ing. Stephan LEWISCH, General Operations Manager, Wiener Linien, Austria

Q&A

Parallel session 5

- L4, Peony Junior 1 Ballroom

Safety remains priority #1 in digital era

Digitalisation offer many benefits, especially for safety-critical railway functions. But rail systems, however automated they get, will never do without human intervention and it is important to keep staff competence and work practice abreast of technologies.

SESSION CHAIR

Jacob KAM, Managing Director, Operation and Mainline Business, MTR, and UITP Vice President for Regional and Suburban Railways, Hong Kong S.A.R

- 50 years of safety-related human factors with increased automation in Paris
Gautier BRODEO, Senior Advisor in Railway Safety, RATP, France
- Turning abandoned underground assets for training purposes
Dr Carles CASAS ESPLUGAS, Head of Strategic Planning & Prospective, Ferrocarrils de la Generalitat de Catalunya, FGC, Spain
- Fast detection and intervention with advanced security solution
Alexis CHAVELAS, VP Digital Mobility Platform, Alstom, France
- Applying innovation in railway safety
CF CHAN, Assistant Director/ Railways, Electrical and Mechanical Services Department of Hong Kong Government, Hong Kong S.A.R

Q&A

Parallel session 6

- L4, Peony Junior 2 Ballroom

Customer service 2.0, 3.0 or 4.0... what matters is excellence!

If there is a visible area of digitalisation in rail, it is the customer service practice: web, mobile app, social media... But tools only serve a properly thought new customer relation strategy. What does it take to enter the digital age?

SESSION CHAIR

Patrique CAMPAL-LINDAHL, Internal Culture & International Coordination Manager, Commercial Department, Transdev Group, France

- Rail Gen 2.0: a new customer experience
Annie LEUNG, General Manager - Customer Experience Development, MTR Corporation Limited, Hong Kong S.A.R
- Driving customer service quality and employee empowerment in the digital-age
Yukiko KIMISHIMA, Manager, East Japan Railway Company, Japan
- SMRT commuter engagement - making commuting more joyful and inclusive
Elaine KOH, Chief Commuter Engagement Officer, SMRT Corporation, Singapore

Q&A

15:30 - 16:00

Coffee Break • L4, Roselle/Peony Junior Bayview Foyer

TUESDAY, 10 JULY 2018

16:00 - 17:30

Parallel session 7

- L4, Roselle Junior Ballroom

Looking into the most precious asset: Human resources, talent, skills and generation challenges

The success of any public transport company depends on its ability to meet its human resources challenges. Attracting and keeping talents, managing a diverse and multi-generation workforce, investing in digitalisation to enhance the employee experience are the drivers of today's performance and customers' satisfaction.

SESSION CHAIR

Anne-Laure NOAT, Partner, Eurogroup Consulting, France

KEYNOTE SPEECH

- Digitalisation and employee experience

Mireia CLUA, HR Director, Ferrocarril Metropolita De Barcelona SA (Metro Barcelona), Spain

PANEL DISCUSSION

Moderator:

Anne-Laure NOAT, Partner, Eurogroup Consulting, Paris, France

Panelists:

Natasha ZULKIFLI, Founder Director, Women in Rail Malaysia, Malaysia

Mireia CLUA, HR Director, Ferrocarril Metropolita De Barcelona SA (Metro Barcelona), Spain

Dr Janene PIIP, Director, JP Research & Consulting, Australia

Anna FRASZCZYK, Visiting Professor, Mahidol University, Thailand

Bruno DANET, Group Executive Director, Human Resources and Organisation, Keolis, France

Q&A

Parallel session 8

- L4, Peony Junior 1 Ballroom

Condition-based rolling stock maintenance

The impact of digitalisation will be a massive game-change on rolling stock maintenance: New generation of trains can constantly self-check their health status and assign maintenance duties. How can the tremendous productivity gains of big data be aligned with a new working organisation?

SESSION CHAIR

Masnizam HISHAM, President and Group Chief Executive Officer of Prasarana Malaysia Berhad, Malaysia

- Automatic Vehicle Inspection System (AVIS) at rail depot

Damien NG Chee Wei, Deputy Project Manager, Depot System/ Equipment Projects, Land Transport Authority, Singapore

- Singapore Journey to 1 Million MKBF: Better rail reliability through strategy formulation, automation and technology adoption

Dr TAN Tong Tat, Engineering Manager, SBS Transit, Singapore

- Maximising value through integrated asset condition data

Jack WIELAND, Service Lead - Southeast Asia, Bombardier Transportation, Thailand

- Application of Prognostic Health Management (PHM) technology in subway train

YANG Ying, Deputy Chief Engineer, CRRC Zhuzhou Electric Locomotive Co. Ltd. (CRRC ZELC), China

Q&A

Parallel session 9

- L4, Peony Junior 2 Ballroom

Innovative infrastructure construction

Urban rail infrastructure are complex and capital intensive projects. How can novel construction techniques, supported by digitalisation, help controlling or even cutting capex?

SESSION CHAIR

Ian DOBBS, Chairman, UITP, Australia-New Zealand

- Development of TEMS - Tunnelling and excavation monitoring system

Dr GOH Kok Hun, Deputy Director, Geotechnical and Tunnels Division, Land Transport Authority, Singapore

- Use of trenchless technologies and methods in Singapore's Thomson-East Coast line MRT construction

FOO Yung Thye, Deputy Group Director, Thomson-East Coast & Cross Island Lines (Civil), Land Transport Authority, Singapore

- Construction, machine manufacture and project cases of large-diameter shield machine

Wang KUN, Deputy General Manager, Department of International Business, China Railway Group Limited, China

Q&A

17:30 - 20:00

Industry Night at City Solutions Singapore Expo (SITCE congress delegates are entitled to participate) • L1, Hall C

CONGRESS PROGRAMME

CONGRESS: LEVEL 4, ROSELLE JUNIOR AND PEONY JUNIOR BALLROOMS

WEDNESDAY, 11 JULY 2018

09:30 - 17:30

Visit SITCE Exhibition • L1, Hall C (co-located with City Solutions Singapore Expo)

09:00 - 10:30

Parallel session 10

- L4, Peony Junior 1 Ballroom

The benefits of digitalisation for rail security - and its (cyber)-challenges

(Cyber)-security is among the top challenges of digitalisation. With IoT, software and/or data exchange are found in virtually any piece of equipment, be it fixed or mobile. Rail systems have thousands of "access gates" for intruders that need to be properly recognised and protected.

SESSION CHAIR

Patrik ANDERSON, Director Business Development Transportation, Axis Communications, Sweden

- Smart video for railways: the advent of Artificial Intelligence
Stéphanie JOUDRIER, Product Line Manager, Thales, France
- Railway Systems - How to deal with cyber threats?
Lovan PUSHPARATNAM, Director, Tramway Systems and Telecoms Department, SYSTRA, France
- Keeping railway system one step ahead of potential cyber attacks
CHAN Ho Wing, Communications & Control Engineering Manager, MTR Corporation Limited, Hong Kong S.A.R
- Fostering a cybersecurity mindset
LIM Thian Chin, Deputy Director, Head of OII Protection, Critical Information Infrastructure Division, Cyber Security Agency of Singapore, Singapore

Q&A

Parallel session 11

- L4, Roselle Junior Ballroom

Singapore rail expertise

With unparalleled rail development in rail system design, construction, operations, maintenance, and more recently an emphasis on digitalisation and total asset management, Singapore rail community acquired extensive expertise.

SESSION CHAIR

Prof PHANG Sock Yong, Vice-Provost of Singapore Management University (SMU), former LTA Board member, Singapore

- Innovative construction
OW Chun Nam, Director Tunnelling, Land Transport Authority, Singapore
- Holistic approach to asset replacement
Melvyn THONG, Director, Land Transport Authority, Singapore
- Implementation of an Automatic Track Inspection (ATI) system in an operational environment
LIM Zheng Ping, Executive Engineer, Land Transport Authority, Singapore
- Improving rail asset performance - leveraging on asset management, technology and information
LEOW Meng Fai, Deputy Group Director, Land Transport Authority

Q&A

Parallel session 12

- L4, Peony Junior 2 Ballroom

Making rail even more energy-efficient

Energy is often grasped from the climate change perspective, but it is also a major cost driver, representing 15 to 20% of railways operation expenditures. Therefore, all options for smart energy use or savings have to be explored and exploited.

SESSION CHAIR

Sue CHAN, Head of UITP Asia-Pacific Regional Office, Hong Kong S.A.R

- Exploring all possibilities for energy savings at Metro São Paulo
Glauco FERNANDES LOPES, Engineer Head of Maintenance Department, Company of Metro Sao Paulo, Brazil
- New battery solutions for railway systems
Nobuhiko SATAKE, Group Manager, Toshiba Infrastructure Systems & Solutions Corporation, Japan
- Energy recovery at Wiener Linien - a valuable contribution to climate protection
Günther STEINBAUER, CEO, Wiener Linien GmbH & Co KG, Austria
- The energy saving technology study based on flexible train formation for urban rail transit
HAN Baoming, Professor of Beijing Jiaotong University, Secretary General of the Expert & Academic Committee, China Association of Metros, China

Q&A

10:30 - 11:00

Coffee Break • L4, Roselle/Peony Junior Bayview Foyer

WEDNESDAY, 11 JULY 2018

11:00 - 12:30

Parallel session 13

- L4, Peony Junior 1 Ballroom

Operators' experience in digital transformation

Digital transformation of customer care, operation and business processes will not be implemented overnight. Much has already been done, but much more needs inventing, and available solutions and approaches are still piecemeal. This session will take stock of available operators' return of experience.

SESSION CHAIR

Caroline HASEKE, Business Development Manager, RATPDev Transdev Asia, Hong Kong S.A.R

- Digital transformation of Seoul Metro

CHUNG Hang Jae, General Manager, Seoul Metro, South Korea

- Customer-centric challenges of digital technologies for railways

Saloru KITAMURA, Chief Researcher, East Japan Railway Company, Japan

- OPERACENTER® - A performance and satisfaction monitoring tool

Mehmet Burak TELCIOGLU, Director of Technical Operations, Kayseri Ulasim, Turkey

Q&A

Parallel session 14

- L4, Peony Junior 2 Ballroom

Obsolescence management and rolling stock life extension

Rail equipment and rolling stock are in principle designed for long life cycles exceeding 10-15 years. With increased features and complexity, many parts and components need replacing/repairing beyond their specific "expiry dates". How to ensure a proper management of obsolescence and the operability of equipment for the planned use life?

SESSION CHAIR

Andrew BATA, Head of UITP North America Regional Office, United States of America

- Capitalising on special ruggedised platform maintenance capability for rolling stock eCard obsolescence management

Andrew DE SILVA, Dy GM/VP Business Development, SDDA Pte Ltd, Singapore

- How to extend the lifecycle of rolling stock?

Ying-Chen CHUANG, Director, Taipei Rapid Transit Corporation, Taiwan

- Challenges and solutions for re-signalling a CBTC WLAN radio system

Calvin CHUKO, Product Manager, Moxa Inc., Taiwan

Q&A

Parallel session 15

- L4, Roselle Junior Ballroom

Artificial intelligence in railways and beyond

Change keeps accelerating. Today, we are entering into Fourth Industrial Revolution, which is also considered to be the Artificial Intelligence (AI) Era. The combination of digitalisation, Internet of Things (IoT) and big data are causing 'data explosion', and subsequently the use of AI is becoming increasingly essential in public transport sector, especially in railways, to effectively and efficiently cultivate the billions of data points generated each year.

This session will present the latest findings of UITP Asia-Pacific Centre for Transport Excellence's (AP CTE) study on 'Artificial Intelligence in Mass Public Transport' with a focus on state of artificial intelligence in railways, and a diverse panel of experts to discuss how is artificial intelligence shaping the railway industry and the overall public transport systems.

SESSION CHAIR

LOOI Teik-Soon, Director, Research & Technology and Dean of LTA Academy of Land Transport Authority (LTA); Executive Director for Singapore Rail Academy (SGRA) in Land Transport Authority (LTA), Singapore

- Artificial intelligence in mass public transport

Gayang HO, Senior Manager UITP Asia-Pacific, Research & Policy Development Lead, UITP AP CTE, Hong Kong S.A.R

PANEL DISCUSSION

Moderator:

LOOI Teik-Soon, Director, Research & Technology and Dean of LTA Academy of Land Transport Authority (LTA); Executive Director for Singapore Rail Academy (SGRA) in Land Transport Authority (LTA), Singapore

Panelists:

Masaki OGATA, Chairperson UITP Asia-Pacific, Vice Chairman East Japan Railway Company, Japan
Alok JAIN, Managing Director of Trans-consult Asia and Consultant on UITP AI in Mass PT Study, Hong Kong S.A.R

Andrew HODGSON, Director, Transport Advisory, Asia Pacific, Atkins Acuity, Singapore

Laura WYNTER, Director, IBM Research, Singapore

Yu-XI LIM, Senior Technical Manager, Teralytics Pte. Ltd., Singapore

12:30 - 14:00

SITCE Lunch | Sponsored by Huey Tian, K-INC Construct and L&M Foundation Specialist • L4, Roselle/Peony Junior Bayview Foyer

CONGRESS PROGRAMME

CONGRESS: LEVEL 4, ROSELLE JUNIOR AND PEONY JUNIOR BALLROOMS

WEDNESDAY, 11 JULY 2018

14:00 - 15:30

Parallel session 16

• L4, Peony Junior 1 Ballroom

Impact of railway on regional connectivity and economy

Railways serving a region and inter-city have been successfully developed over decades. They allow for better regional connectivity and economic development and low-carbon mobility over long distances. Regional and inter-city rail services have also an impact on urban hubs.

KEYNOTE SPEECHES

SESSION CHAIR

SIM Wee Meng, Senior Group Director Rail, Land Transport Authority, Singapore

- Railways and its interfaces to the city and the local mobility system
Jean-Pierre LOUBINOUX, Director General, UIC (International Union of Railways), France

- Urbanisation and its challenges on local and regional rail connectivity and economy
TC CHEW, Director Global Rail Business Leader, ARUP, United Kingdom

- Presentation
CHEN He, Vice Director, Engineering Design Center, TCT Co. Ltd., China

- Presentation
Datuk Seri Azmi Aziz, CEO, YTL THP JV Sdn Bhd, Malaysia

Q&A

Parallel session 17

• L4, Peony Junior 2 Ballroom

Life-cycle asset management for better availability at optimised cost

The full deployment of digitalisation and Internet of Things to the public transport system, sub-systems, and components pave the way for a zero failure (rail) system.

SESSION CHAIR

KK SABERWAL, Director Finance, Delhi Metro Railway, India

- Leveraging the digital transformation for risk-based maintenance and asset management
Prof Pierre DERSIN, Digital Mobility RAM Director, Alstom, France

- Denver Transit Operators' integrated transit operations planning system
Michael SCOLLO, Industry Solutions Manager, Trapeze Group, Australia

- Enterprise Asset Management System (EAMS) for modern integrated metro
NG Liang Chin, MMS Division Manager, Singapore Technologies Electronics Limited, Singapore

Q&A

Parallel session 18

• L4, Roselle Junior Ballroom

When data adds value to your service delivery

Digitalisation is made possible through the high speed processing of big data analytics. Data is the new gold dust, however it takes more intelligence to turn data into relevant added value information.

SESSION CHAIR

LOOI Teik-Soon, Director, Research & Technology and Dean of LTA Academy of Land Transport Authority (LTA); Executive Director for Singapore Rail Academy (SGRA) in Land Transport Authority (LTA), Singapore

- ICT help raise passenger convenience in railways
Sei SAKAIRI, Senior Chief Researcher, East Japan Railway Company, Japan

- Total system capability through digitalisation - organisation, assets & people
Kuldeep GHARATYA, Head of Engineering Technology & Data, Commercial Development, City Planning, Transport for London, United Kingdom

- Better service through smart use of data across project design, implementation and operation
Christina HOLTMANNSPÖTTER, Head of Digitalisation and Innovation - Rail Automation, Siemens AG Mobility, Germany

- Better rush-hour operation with effective guidance of passenger flows
Suvi SCHWAB, Regional Manager, INIT, Singapore

Q&A

15:30 - 16:00

Coffee Break • L4, Roselle/Peony Junior Bayview Foyer

16:00 - 16:15

Congress conclusions on lessons learnt and key take-aways • L4, Roselle Junior Ballroom

Mohamed MEZGHANI, Secretary General, International Association of Public Transport (UITP), Belgium

16:15 - 17:05

Plenary CEO discussion: Making digital urban rail a success story • L4, Roselle Junior Ballroom

Moderator:

Laurent DAUBY, Director Rail Transport, International Association of Public Transport (UITP), Belgium

Panelists:

Lincoln LEONG Kwok-Kuen, Chief Executive Officer, MTR Corporation, Hong Kong S.A.R.

Laurence BATLLE, Chief Executive Officer, RATP-Dev, France

Leanne REDDEN, Executive Director, RTA, United States of America

Mohamed MEZGHANI, Secretary General, International Association of Public Transport (UITP), Belgium

KK SABERWAL, Director Finance, Delhi Metro Railway, India

17:05 - 17:15

Launch of book: Integrated land use and transport planning • L4, Roselle Junior Ballroom

KHOO Teng Chye, Executive Director of Centre for Liveable Cities, Ministry for National Development (MND)

NGIEN Hoon Ping, Chief Executive, Land Transport Authority, Singapore

17:15 - 17:30

ITS World Congress 2019 • L4, Roselle Junior Ballroom

Dr CHIN Kian Keong, Chief Engineer, Land Transport Authority, Singapore

19:00 - 21:00

Gala Dinner | Sponsored by CSCEC - Nishimatsu JV, Koh Brothers and Meiden Singapore • PARKROYAL on Pickering, William Pickering Ballroom (S) Sands Expo and Convention Centre (porte-cochère), 18:00 - 18:45 (15-min interval)

THURSDAY, 12 JULY 2018

09:00 - 12:00

Technical Visits (registration has closed)

Digitalisation at Tuas West Depot • Mining works at TEL Orchard Station • Ground freezing works at TEL Marina Bay Station

(S) Sands Expo and Convention Centre (porte-cochère), 08:30



shuttle bus service will be provided

Programme is updated as at 25 June 2018 and is subject to change. Please refer to the website www.sitce.org for the latest information.

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GLOBAL PUBLIC
TRANSPORT SUMMIT

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Tuesday 10 July - 17:30
UITP Stand (L1-W10)

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