



The leading event for Asia Pacific's rail industry

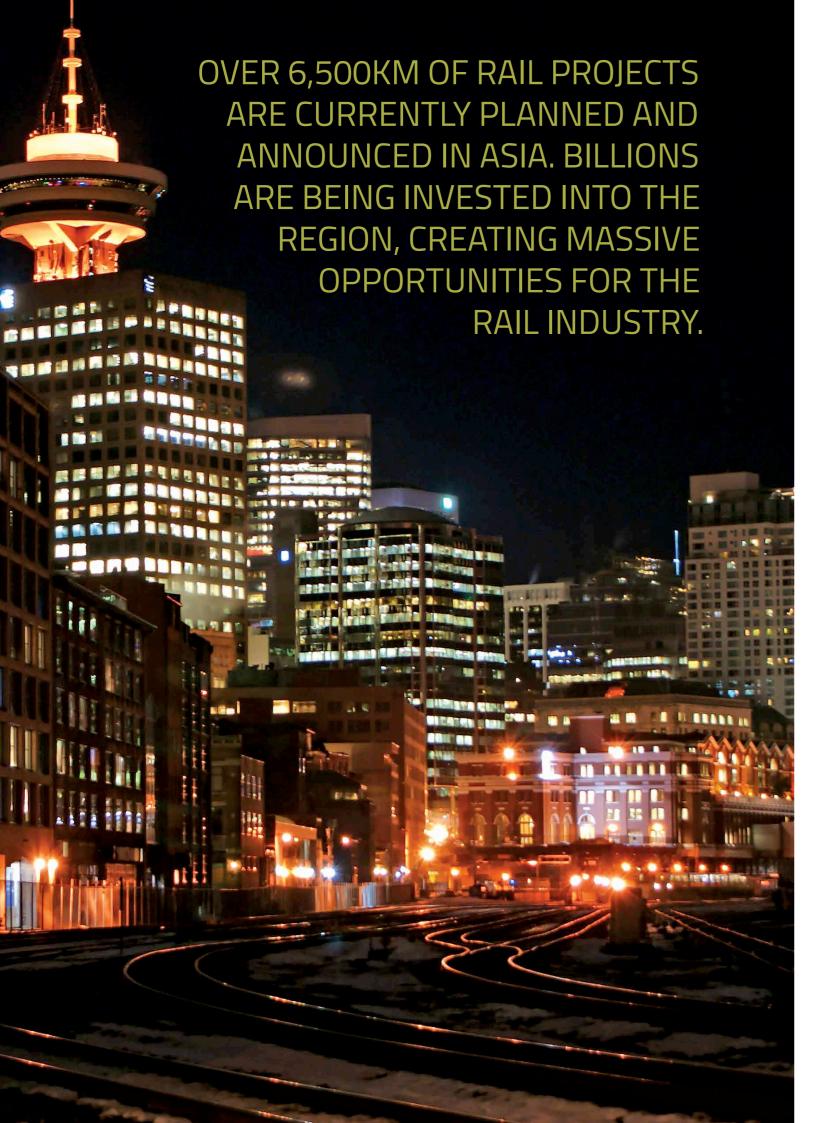
DATES

VENUE

22-23
March 2016

Hong Kong Convention & Exhibition Centre

www.terrapinn.com/aprail



Our story

Despite being the backbone of every transportation system, the rail industry has often been thought of as conservative and change-resistant. But not anymore. As we move into the age of the digital railway, passengers are not just commuters, but true consumers who expect a comfortable and "connected" experience.

At the same time, railway operators are facing increasingly complex asset management issues, difficult high-speed construction challenges and tough operational efficiency targets. We bring together the entire rail industry in Asia to tackle these challenges and pave the way for the future of transport in the region.

Welcome to Asia Pacific Rail.

The most exclusive and influential railway gathering in the region, Asia Pacific Rail attracts over 1,000 attendees from Asia and across the globe each year.

In 2016, Asia Pacific Rail will have more content than ever before, with 4 premium conference tracks and a new co-located event, Smart Cities World Asia. Our premium conference tracks will feature exciting innovations in metro, high-speed rail, mainline passenger and freight, all focused on the theme enhancing operational excellence and passenger experience to improve your bottom line.

Visionary keynotes will lay the foundations for two days of intensive learning, discussion and networking. Leading C-Level executives will share case studies from across the world, ensuring you can learn from the best of the best. Spend time debating with them during the small-group roundtable sessions, allowing you to foster relationships and make new business contacts.

Whether you're a railway operator, railway authority or a solution provider to the global railway industry, you need to join us as we lay the foundations for Asia's rail future.

JACOB KAM
Operations Director
MTR Corporation

GEORGE CLARK
Engineering Director, Capital Programmes
London Underground





DIRK AHLBORN

Chief Executive Officer

Hyperloop Transportation Technologies Inc

TC CHEW

Managing Director

Chew Transit Consultancy Ltd.





World-leading rail speakers

At Asia Pacific Rail, we bring together best-in-class rail operators, to make sure you learn from real-life examples.

We've already confirmed four influential leaders, and we're just getting started.

From leading Asia's best metro to operating the world's largest rail network, our speakers will give essential insights into how you can prepare your rail business for success.

Are you a railway operator with a great case study to share?

Then contact **Jessica Foong** on **jessica.foong@terrapinn.com** to talk about how you can get involved in Asia Pacific Rail 2016.

Join our faculty of confirmed speakers



Ashwani Saxena Director (Project) Jaipur Metro Rail Corporation Ltd.



H S Anand
Director, Rolling Stock
Delhi Metro Rail
Corporation



Emmanuel Vivant Managing Director, Hong Kong Tramways



Yuslizar Daud
General Manager, Rail,
Land Public Transport
Commission (SPAD)



Silvester Prakasam Deputy Director Fare Systems, Land Transport Authority



Hoang Ngoc Tuan Vice Director of Project Management Unit No.2 (PMU2), Management Authority For Urban Railways



Leo Mak
Director of Systems for
KVMRT Project, MMC
Gamuda



Richard Keefe
Head of rolling stock,
MTR Corporation
Limited



Dr Tony Lee Chief of Operations Engineering, MTR Corporation Limited



Ajit Kumar Mishra Additional General Manager, Dedicated Freight Corridor Corporation of India Ltd.



Julie Bullas
Executive Director, Policy,
Communications and
Planning, Office of the
National Rail Safety
Regulator



Andrew Adam General Manager National Intermodal, Pacific National



Ismail Bin Adam Group Chairman, Prasarana Malaysia Berhad



Peter Lunden-Welden President & CEO, Seoul Line 9 Operation co. Ltd



Valery Tubbax
Head of Power &
Infrastructure Advisory,
Investment Banking
Department Asia,
Sumitomo Mitsui
Banking Corporation



Wang Yi Chuan
Secretary, Taichung
City Government
Department of
Transportation



Hanwei Yang
PhD, Engineering
Director. Facility
Engineering Dept,
Taiwan High Speed Rail



John Chen Chief Operating Officer, Taiwan High Speed Rail Corporation



Chou Yung-Hui Director General, Taiwan Railway Authority



C.P. Sharma
IRTS, Chief Commercial
Manager, Western
Railways

Visit to MTR Super Operations Control Centre

Preliminary Programme

21 March 2016

Carrying an average of over 5.4 million passengers every weekday, MTR is regarded as one of the world's leading railways for safety, reliability, customer service and cost efficiency.

The Operations Control Centre (OCC) is the "heart" of MTR train operations. For 24-hours-a-day, 7-days-a-week, staff of the OCC keep close watch on every train and every activity in the network to ensure the delivery of safe and reliable train services to keep the city on the move.

With network expansion in mind and to further enhance communication amongst the controllers of different railway lines, the Corporation successfully migrated the OCCs of different rail lines in 2013 to the "Super OCC" at Tsing Yi to supervise the entire heavy rail network under one roof. It houses the controls for three of the four new rail lines currently being constructed in Hong Kong.

To prepare for its new role, the Tsing Yi OCC underwent a \$117 million facelift to upgrade facilities and equipment, including the installation of larger rear projection mimic displays and the creation of more space to accommodate the larger team.

Under its "Rail plus Community" development business model, the Corporation has created fully integrated commercial and residential communities along the railway alignment. Residents enjoy convenient access to public transport, which in turn, stimulates patronage and enhances land values. This visit will showcase the "Rail plus Community" development business model in Tsing Yi.

Programme 13:20 Shuttle Bus to "Super OCC" from Hotel in Wanchai 14:00 Welcome Remarks 14:05 Introduction of "Super OCC" 14:25 Panoramic View of "Super OCC" 14:40 Refreshment 14:55 Presentation on "Community Development – Rail plus Community Development Model" 15:15 Closing Remarks 15:20 Tour of Tsing Yi Station & MTR Mall - Maritime Square 15:50 Shuttle Bus back to Hotel 16:20 End of Tour

AGENDA AT A GLANCE

	DAY ONE (Tuesday 22 nd March, 2016)			
09:00	OPENING PLENARY KEYNOTE			
10:30	Exhibition visit, networking & refreshments			
	EXPERIENCE & SAFETY	SIGNALLING & COMMUNICATIONS	ROLLING STOCK & TRACK	MAINLINE
11:30	Passenger Experience	Signalling Best Practice	Smart Trains	Rail Freight
12:50	Networking lunch & exhibition visit			
14:20	Projects & Safety	Communications	Track Infrastructure	Rail Freight
16:00	Exhibition visit, networking & refreshments			
16:40	PROJECT UPDATE ROUNDTABLES			
17:20	KEYNOTE PLENARY SESSION			
18:20	Networking Cocktail Party			



"Fantastic, well run event with very useful insights for me." **Warwick Horsley,** Head of Operations & Performance, **Public Transport Victoria**

DAY TWO (Wednesday 23 rd March, 2016)					
	KEYNOTE PLE	NARY SESSION		09:00	
	Exhibition visit, netwo	orking & refreshments		10:30	
RAIL REVENUE & TICKETING	SIGNALLING & COMMUNICATIONS	ASSET MANAGEMENT	MAINLINE & HIGH SPEED RAIL		
Rail Revenue	Brownfield Signalling	Rolling Stock Asset Management	Funding & Sustainability	11:30	
Networking lunch & exhibition visit					
Rail Ticketing Communications Infrastructure Asset Management Speed Rail					
ROUNDTABLE DISCUSSION SESSION				15:40	
Close of Asia Pacific Rail 2016				16:30	



"Thank you for a conference that is well organised. I enjoyed the fruitful 2 day session. I also like the way the various subject matter contents are organised in a few key tracks."

Ling Wee Lee, Managing Director, **SMRT Trains, SMRT Corporation Ltd.**



Tuesday 22nd March, 2016

Highlights

Rail Leaders Panel: Hear from top rail leaders about the industry game changers impacting the future of rail in Asia Pacific

Project Update Roundtables: Get updated on the latest project developments and opportunities from countries including Singapore, Thailand, Australia, China, India and more

Hyperloop Keynote: Find out the latest updates on the Hyperloop, which is expected to transform the passenger travel industry, and what the implications could be for Asia's rail industry

OPENING PLENARY KEYNOTE

08:55

Organiser's opening remark

09:00

Chair's opening remarks

2

Building the smart digital railway of the future with data & analytics

- The power of technology and data in the delivery of smart transportation in smart cities
- Data as an asset: How can rail authorities and operators transform data into actionable strategies for improvement?
- Preventing breakdowns and empowering consumers with real time information on traffic conditions

RAIL LEADERS' PANEL

Industry game changers and strategic differentiators: The future of rail

- Keeping up with the competition: How should rail operators be playing to competitive advantages against other rail and transport operators?
- What is a sustainable and profitable model to manage rail developments and daily operations amidst challenging times?
- Managing customers: Are we meeting expectations, delivering experience and enhancing engagement?
- Delivering value: What are the areas of improvements today and how are we taking into account future needs?
- Balancing priorities: What will be the most important considerations for the next decade?

MODERATOR: T. C Chew, Managing Director, Chew Transit Consultancy Ltd
PANELLISTS: Peter Lunden-Welden, President & CEO, Seoul Line 9 Operation co. Ltd
YBHG Tan Sri Ismail Bin Adam, Group Chairman, Prasarana Malaysia Berhad
Jacob Kam, Operations Director, MTR Corporation Limited

10:30

Exhibition visit, networking & refreshments



	Passenger Experience	Signalling Best Practice	Smart Trains	Rail Freight
11:30	 Rail Masterpiece – Dubai Metro's artistic transformation Incorporating the artistic influence into station design The station as a destination: Transformations into a hub for art, music and culture Creating a holistic visual and auditory experience for passengers 	 Insights into the world's largest re-signalling project: A London Underground case study How is London Underground managing its brownfield re-signalling project? What are the measures taken to prevent disruption of daily operations during re-signalling? What are some key lessons that Asian metros can learn from LU? George Clark, Engineering Director, Capital Programmes, London Underground 	 How technology is transforming legacy fleets into smarter trains What is the business case? Proactive defect elimination and asset health monitoring Precise maintenance works to prevent breakdowns Cost and operational benefits of deployment 	 Rail Expansions: Modernising railways and raising freight volumes Achieving high and sustainable growth in freight volumes What are the initiatives and plans put in place to modernise locomotives and infrastructure to ensure maximum reliability? Moving ahead, what are new developments for the future?
11:50	Passengers as top priority: How Seoul Metro 9 keeps passengers connected and comfortable What are the initiatives that Seoul metro 9 has put in place to engage commuters? Delivering connected and convenient passenger experience What are the measures put in place to ensure the reliability and punctuality of services and facilities for minimal passenger inconvenience? Peter Lunden-Welden, President & CEO, Seoul Line 9 Operation co. Ltd	 Innovations in CBTC design for optimal train control Meeting requirements to cater for growing passenger traffic and safety standards Integrating three-level controls within a single platform for optimal train control and management Using Automatic depot and Fully Automated Operations Reserved for Beijing TCT 	 PANEL Smart trains: How to design out failure that impacts availability? What are the current rolling stock models addressing capacity, frequency and reliability concerns? What are the key features that should be incorporated to prevent failures? How are condition monitoring and asset management being integrated to future trains? Designing the option for future expansions and driverless features 	 Raising rail freight productivity and cost effectiveness What are the strategies applied at rail terminals to raise operational efficiencies? Raising freight volumes to maximise value delivered from freight service How has technology enabled the increased performance, productivity and profitability? Andrew Adam, General Manager National Intermodal, Pacific National
12:10	 Rail as the backbone of an integrated transportation ecosystem What is the role of rail? How can rail operators and authorities enable an endto-end, multi-modal journey that is interconnected and seamless? Hassle-free transition at interchanges & convenient transfers and access to other modes of last mile transport 	Maximising CBTC systems for optimal service performance Catering to a growing demand of passengers How can we better optimise signalling systems to further improve service frequency? Case studies and insights from South Island Extension and Shatin Central link Technological innovations and takeaways for future developments Terence Law, Project Manager – Signalling, MTR Corporation	PANELLIST: Richard Keefe, Head of Rolling Stock, MTR Corporation Limited	Maintaining and operating below rail operations for optimal network performance What are the challenges and difficulties of below rail operations? Initiatives and measures to maintain and operate networks for optimal performance Key takeaways for efficient freight network management
12:30	 Creating a personalised digital rail experience Understanding the needs of next generation of self-directing, tech-savvy passengers Creating customer-oriented mobility and facilities Evolving role of rail staff from passive counter roles to active frontline engagement 	Overcoming signalling system and interface integration challenges • Ensuring consistent and continuous monitoring of mission-critical systems • Integrating multiple interfaces and systems from multiple suppliers • Optimising Man-Machine interfaces for greater efficiencies Leo Mak, Director of Systems for KVMRT Project, MMC Gamuda	 Achieving cost savings through energy and carbon efficient trains What are the energy-saving initiatives to reduce costs? Imposing stringent measures on rolling stock manufacturers to ensure energy savings Managing energy consumption: AC VS DC based metro stock How will these initiatives translate into long term savings? H S Anand, Director, Rolling Stock, Delhi Metro Rail Corporation 	 Improving rail freight performance with smart containers Maximising container compatibilities for rail and road freights Adopting emerging new technologies and materials to raise weight-tear ratios Supply chain visibility: Empowering clients with real-time information to ensure safety, security and condition of delivery
12:50	Networking lunch & exhibition visit			
	Projects & Safety	Communications	Track Infrastructure	Rail Freight
	Ensuring passenger safety during emergency situations	Is LTE the future of GSM-R?	Preventive and predictive approaches to maintain track	Best practices to ensure high rail freight service levels and

ROLLING STOCK & TRACK

regularity for passenger comfort and safety

track management?

weather conditions

• What are the challenges faced by Taiwan High Speed Rail in its

Pattern and root causes of alignment irregularitiesPrecautions taken against natural hazards under extreme

• Monitoring, engineering assessments and counter measures

Hanwei Yang, PhD, Engineering Director, Facility Engineering Dept, Taiwan High Speed Rail MAINLINE

How is freight being optimised globally?

efficiencies?

How are containers being loaded and unloaded for maximum

Increasing transit time and delivering consistent reliability

performance indicators to identify areas for improvements

Initiating Big Data projects to measure and analyse

SIGNALLING & COMMUNICATIONS

What are the challenges faced in the migration to LTE?

How has the deployment of LTE technologies delivered

greater value while minimising operational and

What are the advantages of LTE over GSM-R?

maintenance costs?

14:20

Keeping communication systems online during

What are the contingency plans in place during

Delivering timely, responsive information to passenger

Restoring stalled operations in the most timely manner

breakdowns

breakdown

Mitigating rail risk and driving the safety journey

- What are the risk-based safety improvements and initiatives put in place to ensure rail safety and create a safety culture across Australia's rail landscape?
- How are authorities and operators cooperating and coregulating rail safety standards to mitigate overall rail risk?
- What are some key lessons for the rest of the industry? Julie Bullas, Executive Director, Policy, Communications and Planning, Office of the National Rail Safety Regulator

Deploying TETRA for optimal mission-critical communications

- Ensuring reliability and clarity of the communications of safety and business critical operations in the metro
- End-to-end data communication to ensure system availability and overcome underground rail coverage challenges
- Deriving the most value from the TETRA Solution
- Planning for future extension and evolution

Delivering connected journeys with dynamic rail

Shifting from multiple application-specific networks to

Seamless communications between systems to ensure

Measures to prevent interference of passengers Wi-Fi

Ensuring enough bandwidth and capacity to support

new applications, improve train efficiencies and increase

How can operators get more out of their communications

single integrated communications infrastructure

Reserved for Teltronic

communications

COMMUNICATIONS WORKSHOP

interoperability of data

passenger satisfaction

infrastructure?

and train control communications

• Continuous monitoring of temperature and stress levels of track

Reducing risks of derailment and breakdowns through efficient

Best practices for restoring operations during sleeper failure

How should sleeper maintenance and replacements be

- Prevention of rail accidents and breakdowns through proactive identification of high rail risk conditions and areas

Ensuring track integrity through intelligent condition monitoring

A peek into the future Kunming-Singapore Railway

order to deliver end-to-end freight services?

Cooperation vs Competition: Changing attitudes towards

• What is the role of rail in the future of intermodal freight

Creating container compatibilities for rail and road freights

How should authorities and operators be working together in

Andrew Adam, General Manager National Intermodal, Pacific National

- Updates on the Thai-Laos-China Freight link
- Challenges faced in development

DΔNFI

intermodal freights

logistics?

PANFILIST.

• Strategies and measures to overcome obstacles

Raising rail accessibility across Singapore

- Reducing travel durations and increasing metro accessibility
- Looking ahead, what are the plans for the Cross Island Line and Jurong Region Line?
- What are the challenges and opportunities arising from these projects?

Building an integrated metro network in Ho Chi Minh City

- Overview of metro line project developments and updates
- What are the challenges encountered in project financing and construction?
- Opportunities and tenders available for Ho Chi Minh Metro

Hoang Ngoc Tuan, Vice Director of Project Management Unit No.2 (PMU2), Management Authority For Urban Railways

Enhancing passenger safety on the platform

- Eliminating rail accidents arising from platform track intrusion
- Continuous monitoring of trackway between platforms, trains and tunnel entrances.
- Automatic braking of driverless trains upon detection of objects on tracks

Reserved for Honeywell

and effective sleeper maintenance

optimised for maximum efficiency?

Tackling the key causes of sleeper failures

- How does it translate into increased maintenance efficiencies?

Overcoming challenges faced during track maintenance and rehabilitation How should operators move towards conducting more

- maintenance works while adjacent track remains open to overcome time and access restrictions?
- Best practices for coordination and scheduling track maintenance works after operating hours
- What are the measures put in place to reduce risks to personnel safety while striving for time, cost and operations efficiencies?

Enhancing rail networks for increased mobility and interconnectivity

- Maximising the effectiveness of existing and new infrastructure for optimal rail operations
- Tackling challenges encountered in track alignment and
- Designing flexibility into track infrastructure for shared networks

How has digital revolution transformed the playing field for rail freight operations?

- Applying telematics to realise the optimal potential of freight onerations
- Real-time trace and track of wagon-load and the mileage for efficient fleet management
- Predictive modelling to transform big data into actionable intelligence and strategies

16:00

PROJECT UPDATE ROUNDTABLES

Join our speakers for an engaging discussion on the latest updates on the status and opportunities available in these projects













PANEL













KEYNOTE PLENARY SESSION

KEYNOTE

Hyperloop: Bringing disruption and innovation to the passenger travel industry

- How will the Hyperloop transform passenger travel and experience?
- Timelines & updates: How far are we away from a Hyperloop future?
- Bringing the hype back: How to recruit and motivate employees/volunteers to grow with the company?
- What are some key lessons for Asia?

Dirk Ahlborn, Chief Executive Officer, **Hyperloop Transport Technologies Inc**

Meeting tomorrow's demands: How should rail operators/authorities be investing in talent development and management today?

- Aging baby boomer workforce: Investing in the next generation of junior and middle management rail professions to build railways of tomorrow
- What are some of the industry best practices in talent acquisition, management and development?
- Enabler vs Replacement: What is the role of technology in the labour-intensive rail industry?

DAY

Wednesday 23rd March, 2016

Highlights

Operations Excellence Panel: Gain insights into how leading metros in the region are raising rail standards and increasing capacity for the future

Asset Management: From rolling stock to infrastructure, maximise and manage rail assets to achieve the highest value and performance

Brownfield Signalling Panel: Learn strategies to overcome challenges, safety concerns and implementation compatibility issues encountered during brownfield signalling projects

KEYNOTE PLENARY SESSION (Operations Excellence)

08.55

Organiser's opening remarks

09:00

Chair's opening remarks

KEYNOTE

Incorporating the future into today's operational strategy

- Will MTR's 99.9% on-time performance be the new standard for metros?
- Perfect service reliability: Is it a realistic promise?
- Strategies to maximize and safeguard the assets for the future
- What will be the next disruptor to rail operations and how should operators be ready to harness its potential?
- Managing partnerships and relationships with suppliers to further drive innovation in service operations

Jacob Kam, Operations Director, MTR Corporation Limited

OPERATIONS EXCELLENCE PANEL

Delivering operations excellence and redefining rail standards for the future

- Capacity: Accommodating a growing demand for rail services
- Reliability: Ensuring service reliability amidst ongoing maintenance and new projects
- Contingency planning: Strategies for optimal response during disruptions
- What role does technology play in improving service delivery and system availability?

10:30 Exhibition visit, networking & refreshments

10.50



09:1(

RAIL REVENUE & TICKETING	SIGNALLING & COMMUNICA	
Rail Revenue	Brownfield Signalling	
transit stations for e-commerce delivery	Tackling critical re-signalling challenges for effec	

TIONS

service implementation Testing and commission challenges encountered during migration towards CBTC

- Balancing priorities, optimising resources and combining tests to catalyse migration process
- What are some best practices and pitfalls to avoid during trial runs?

ASSET MANAGEMENT

Rolling Stock Asset Management

Funding & Sustainability

MAINLINE & HIGH SPEED RAIL

Asset migration strategies to minimise impact on service disruption

- Smooth migration from legacy to new assets
- Ensuring the compatibility of systems
- What are the measures taken to ensure that service disruptions are kept to the minimum

Evaluating the viability of mega rail projects through effective feasibility and due diligence studies

- How to effectively engage the primary stakeholders in a successful mega rail projects?
- What are the key criteria for an effective and sustainable rail
- How to align and work with authorities, operators, developers and stakeholders towards to the common goal?

Transit-oriented developments: Creating demand for metro services

Intelligent "click and collect pod" at transit stations

Collaboration opportunities between operators and

Creating convenience for the consumers

Commercial revenue for operators

 Raising traffic volumes through mixed-used developments

Click, commute and collect

commercial partners

and growth

monitor passenger demand

- Promoting rail as the backbone of the transportation
- Capturing passengers through residential developments and shopping areas

Wang Yi Chuan, Secretary, Taichung City Government Department of Transportation

Transforming big data insights into rail revenue strategies

Harnessing RFID technologies and analysing big data to

 Utilising real-time scheduling of drivers and tram to maximise the number of commuters taking the service What are the strategies put in place to generate new sources • What can other operators learn from Hong Kong Tramways? Emmanuel Vivant, Managing Director, Hong Kong Tramways

Industry best practices of CBTC signalling projects

- Migration of legacy systems to new system
- System and infrastructure compatibility
- Managing disruptions to service operations during testing
- Safety and testing: Eliminating out of control
- Change management for employee competency and skill
- Mixed systems: Should legacy systems be kept for fallback?

PANELLIST:

PANEL

George Clark, Engineering Director, Capital Programmes, London

PANEL

Cost considerations of rolling stock replacements vs refurbishments

- What are the key factors for consideration prior to making a decision?
- How can authorities extend lifetime value of assets?
- Cost-benefit analysis: Balancing technological upgrades with
- Identifying the optimised spare part inventory levels
- Life cycle costing

Dr Tony Lee, Chief of Operations Engineering, MTR Corporation Limited

PANEL

Funding and investment of railway projects

- What is the role of Private-public partnerships in railway projects?
- Key considerations behind the approval of a loan
- Financial feasibility and considerations for funding
- Who should bear the ridership risk?
- Are availability payments sustainable?
- Innovative funding strategies
- What are some key lessons that metros can learn from freight funding models?

Valery Tubbax, Head of Power & Infrastructure Advisory, Investment Banking Department Asia, **Sumitomo Mitsui Banking Corporation**

Achieving rail profits through efficient revenue management

- Integrating ticketing, inventory, revenue management and
- Customising sales and distribution strategies based on customer segments and needs
- Creating more value for higher yields

Harnessing moving block technologies to reduce headway and increase service frequency

- Building the business case for CBTC Re-signalling
- Shifting from a hardware to software approach, how can operators achieve more from their CBTC systems?
- What are the results achieved from deployment and what does it mean in terms of signalling maintenance?

Effective refurbishment and maintenance strategies to extend rolling stock lifecycle

- How to maximise return on assets through effective management of asset information
- Best practices in maintenance and management works
- What are some new emerging technologies and innovations to minimise common rail accident and rolling stock damages?

Leading a sustainable and profitable railway

- Profit generation a pre-condition: What are some strategies put in place to ensure growth and sustainability of revenue strengths
- Effective management of inventory and purchase orders to reduce costs and wastage
- What are key takeaways and lessons?

Rail Ticketing

Thailand's first integrated ticketing system

- Combining Bangkok's public transport systems under a
- Hassle-free transition at interchanges & convenient transfers and access to other modes of last mile
- What are the benefits and efficiencies achieved from this system?

Communications

Advancing the open platform architecture of rail systems

- Open standard control & communication
- Creating a fully integrated platform for seamless rail system communication
- Ensuring consistency and compatibility of systems

Infrastructure Asset Management

Internet of trains: Delivering a fully digital service

- Integrating all systems (rolling stock, fare collection, signalling & communications) into a single platform
- Data as an asset: Sensor data for analysis and monetization
- How does it translate into more effective and efficient operations?
- What's next for the rail industry?

Intercity & High Speed Rail

Raising the competitiveness of railway in intercity travel

- Strategies to ensure competitiveness against alternative models
- What are the strategies to increase volume of passengers?
- Service excellence to deliver value to passengers

Chou Yung-Hui, Director General, Taiwan Railway Authority

TICKETING PANEL

Rethinking fare payments: Will the future of ticketing be card-based or cloud-based?

- What are the pros and cons of both systems?
- Will an open AFC system be a viable operating model?
- With wearables and beacon technology, are we moving to a ticketless future?

Silvester Prakasam, Deputy Director Fare Systems, **Land Transport Authority**

Ensuring cross railway communication reliability

- Effective transmissions of information to central command
- Deploying optical fibre cables to enhance communications link
- Supporting mission critical operations to deliver safe and on-time services

Harnessing condition monitoring to enable predictive maintenance

- Proactive defect elimination and asset health monitoring
- Precise maintenance works to prevent breakdowns
- Cost and operational benefits of deployment

Insights and developments on China's high speed rail conquest

- Evolution of China's HSR technology
- Lessons to learn from China's excellence in building HSR rail safely, reliably and quickly
- Future Expansion of HSR traffic across the region

Improving control visibility with smart control systems

- Equipping control centre greater capabilities and systems
- Automation and alerts of monitoring tasks
- Efficiency and reliability of the system

Transforming into the smarter metro – A Sydney Trains case study

- Deploying enterprise asset management to improve service operations of the entire metro
- Effective monitoring of lifecycle and performance of assets to optimising maintenance works and to account for replacement lead times
- How will smart enterprise asset management ensure increased reliability and availability of services while maximising returns and values of assets?

High-Speed Rail: The future of inter-city travel

- Evolution and expansion of Taiwan High Speed Rail
- What are the challenges encountered in extending routes and new stations?
- Moving ahead, what are strategies in places to cater to growing demand for high speed rail services?

John Chen, Chief Operating Officer, Taiwan High Speed Rail Corporation

The digital revolution: How is it disrupting rail ticketing?

- How will rail ticketing be issued through smartphones?
- Deploying biometric ticketing to distinguishing touts and genuine passengers
- How effective has mobile and biometric ticketing been in providing greater convenience to commuters?
- What are the benefits and challenges of this deployment?
 C.P.Sharma, IRTS, Chief Commercial Manager, Western Railways

Moving into the digital age, how has the delivery of information to passengers evolved?

- Innovative systems designs to improve passenger communications
- How can operators be more interactive in terms of operator-passenger communications?
- Beyond the platform, how can operators continue to empower commuters with real-time information on services?

Creating an integrated asset management strategy for optimal performance

- Post-construction as the optimal time to implement asset management strategies
- Condition monitoring as a means for proactive predictions of faults and failures
- What are the benefits of implementing asset management early?

Increasing the safety and reliability of intercity rail journey

- Reviewing speed limits for intercity rail travel
- What are the actions and strategies put in place to prevent derailment and accidents?
- Emerging technologies and innovations to enhance the rail journey

ROUNDTABLE DISCUSSION SESSION

15:40

Join our speakers for an engaging discussion on the latest updates on the status and opportunities available in these projects



Is real time dynamic revenue management feasible?



Project management: Best practices for on time, on target and within budget

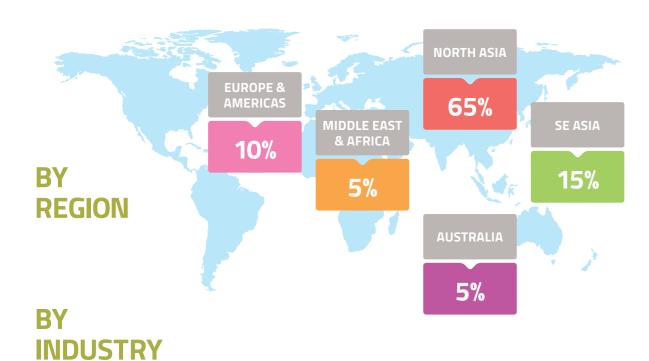


The economics of rail asset management



Creating a common standard for rail operations across Asia Pacific

Who attends



40%

20%

15%

15%

15%

5%

5%

& Operators Signalling/ Manufacturers

Communications

Rail Authorities Rolling Stock/ Rail Component Consultants IT/Ticket/Power



Academic/ Press/Financial Institutions/Law Firms/Trade Associations

Assurance/ Testing & Certification

BY **JOB TITLE** C Level and Senior Managerial Level Management Other Engineer/Senior (Consultant, Advisor, Academic)

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"EVERYTHING IS PROFESSIONALLY ORGANISED FROM THE BEGINNING TILL THE END. THE CONFERENCE SESSIONS (AND SPEAKERS) WERE OF HIGH QUALITY. I WAS PART OF THE ROUNDTABLE SESSIONS AND IT WAS VERY BENEFICIAL FOR ME. AFTER THE ROUNDTABLES, WE GET TO KNOW MORE PEOPLE FROM THE SAME INDUSTRY."

XEROX SERVICES



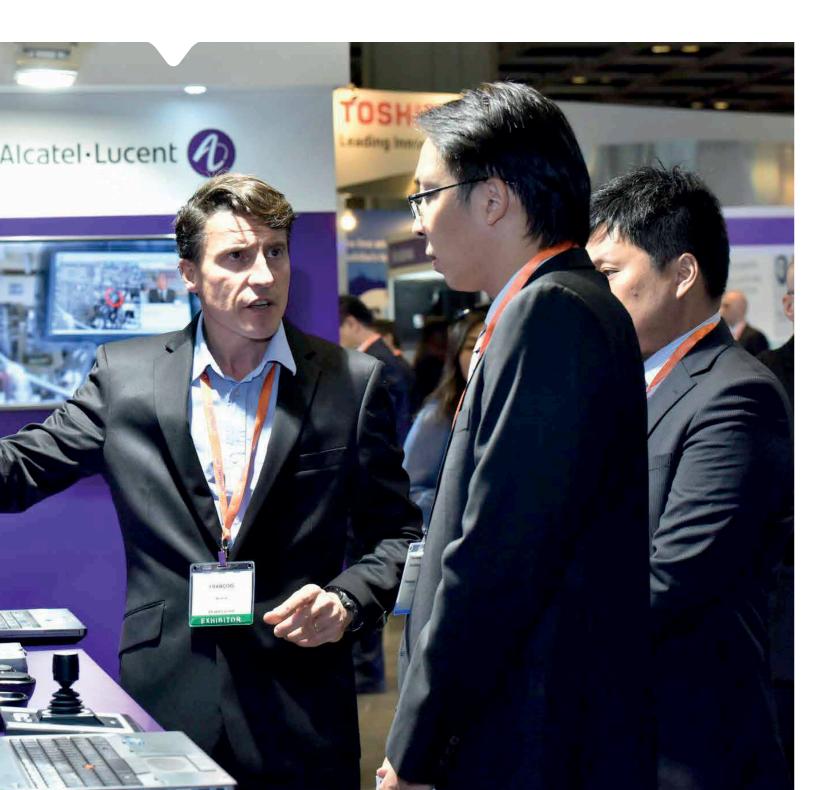
Just some of our 2015 attendees:

A.M. Capital ABB Malaysia SdnBhd ABPLN ACP Marketing and Rail Adecco Personnel SdnBhd Advanced Resources Equipment AECOM Alcatel -Lucent ALCO Consulting Allied Telesis Alstom Transport Asia Pacific Amadeus Amenya Amsted Rail AnsaldoSTS AP Rentals Arabian Railway Company ArtesynEmbedded Technologies Arup ASC NIS Security System Asia Rail Consulting Atkins Aurecon Ballast Tools Bangkok Mass Transit System Public Company Bangkok Metro Public Company Bayer Material Science Beijing Traffic Control Technology Beijing XHX Technologies Beijing YhdRailway Equipment BMT Asia Pacific Bombardier Transportation Brother Electric Trading Company BytemarkINC. 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KZV Land Public Transport Commission (SPAD) Land Transport Authority, Singapore LeanetteDesign Legion Lets Technology Linsinger Lloyd's Register Rail LycusSolutions M&I Corporation M.A.WAJID & Co. MadePartners Magnetic Control Systems SdnBhd Malaysia External Trade Development Corp. March Networks Marsh Marubeni Rail Mass Rapid Transit Authority of Thailand Max Infrastructure MEGGITT (Sensorex) Metro Transit Solutions Milwaukee Composites Ministry Of Railways Pakistan Ministry of Transportation and Communications, Taiwan Ministry of Transportation, Indonesia Mitsubishi Corp Mitsubishi Heavy Industries MMC-Gamuda Money Concepts Mott MacDonald MRT Corp MTR Corporation Mumbai Metropolitan Region Development Authority MVA Transport Consultant NEC Corporation NetModuleAg New Taipei City Government, Taiwan Number One Holding NuovoTrasportoViaggiatori(NTV) O.E.T.S. O.T.N. 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"SOUTHEAST ASIA IS A VERY IMPORTANT MARKET FOR US. THIS CONFERENCE ATTRACTS MAINLY THE OPERATORS FROM THIS REGION, WHICH ARE THE PEOPLE WE WOULD LIKE TO MEET. ASIA PACIFIC RAIL IS A VERY SUITABLE PLATFORM FOR US TO INTRODUCE OURSELVES TO THESE OPERATORS AND TO DISCUSS BUSINESS OPPORTUNITIES."

TOSHIBA



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- Lighting systems
- Location & navigation systems
- Locomotives
- Maintenance
- Monitoring systems
- Passenger services information, fare collection, ticketing, data

- Platform screen doors
- Power & electrification
- Sensors
- Signalling & train control
- Steel manufacturers
- Sound insulation materials
- Wheelset diagnostics systems
- Testing & certification
- Traction motors
- Safety & control
- Rail fastening equipment
- Rail interiors
- Rolling stocks
- Software developers
- Track infrastructure
- Tunnel & infrastructure technology
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Asia Pacific Rail is the perfect place for companies wishing to:

- Gain exclusive access to decision makers in the industry
- Meet industry leaders, understand their needs, and develop business relationships
- Expand to a new market that is difficult to break into
- Showcase leading solutions to prospective customers
- Raise awareness of your solutions and track record amongst your prospective clients
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Exhibition stand rates start from:

\$720 per sqm for shell-scheme stand

\$600 per sqm for raw space (for space 18sqm and above)



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Chairman	Day 1	Day 2			
Speaking slot in the premium conference	Day 1 Plenary	Day 1 afternoon	Day 1 afternoon / Day 2 afternoon	Day 2 morning/ afternoon	
Lead a roundtable or participate in a panel	2	1	1	1	1
Speaking slot in the technology theatre	2	1	1	1	1
Conference passes	20	15	10	7	3
Exhibition booth	72sqm	54sqm	36sqm	18sqm	9sqm
Facilitated introductions	10	7	5	3	
Exclusive lanyard sponsor	Yes				
Exclusive networking party sponsor	Yes plus 5 minutes welcome speech				
Seat drop at the premium conference	Day 1	Day 1	Day 1		
Pull-up banner placed beside the stage at the premium conference	Yes	Yes	Yes		

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Asia Pacific Rail 2016 will be held at the same time as the brand new Smart Cities World Asia event.

This strategic two day conference will offer attendees insights into the key elements that make up a smart city and opportunities for getting involved.



Mayors and senior government officials leading smart city projects, from across Asia will be presenting the vision and plan for their city. Alongside visionaries, technologists and practitioners from the entire ecosystem: utilities, telecommunications, property developers, architects, environmental agencies, hospitals, education and transport providers.

Smart Transport is a large part of the Smart City ecosystem and by co-hosting the two events, rail operators can access an array of content, solutions and meet a broad spectrum of experts.

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