



Conference on

URBAN RAIL SYSTEMS IN APAC

SPOTLIGHT ON METRORAIL, LIGHT RAIL AND
RAPID TRANSIT

February 13-14, 2019 | Shangri-La's - Eros Hotel, New Delhi

Hosted by:

**Indian
Infrastructure**

Co-hosted by:

Global **Mass Transit** Report

Information & analysis on the global mass transit industry

Supported by:

**SOUTHEAST ASIA
INFRASTRUCTURE**

MISSION

Asia Pacific is the biggest market for upcoming metrorail, subway, rapid transit and light rail projects in the world. Transit agencies and city governments in the region have announced plans to build more than 250 urban rail projects (extensions and greenfield), which will span around 5,000 km, at an investment of over USD400 billion by 2030. Some of the longest projects as well as the most expensive projects are also located in the region.

Given the huge investment requirement and long life span, urban rail systems are a driving force for technological and financial innovations. Governments and operators are constantly seeking solutions to improve reliability and customer service, lower maintenance costs, as well as increase efficiency and safety levels in operations.

As a result, state-of-the-art rolling stock and advanced signalling and telecommunication technologies are expected to be deployed as part of these projects. Innovations and developments in the fare payments industry are resulting in the adoption and use of a great variety of payment methods, especially interoperable electronic payment methods such as smartcards, bank cards, mobile wallets and near-field communication (NFC)-enabled devices.

The current level of activity in the urban rail sector spells significant opportunity for consultants, developers, contractors, operators, rolling stock manufacturers, signalling and communications technology providers, fare system providers, equipment manufacturers, construction material suppliers, software solution providers, etc.

In light of these opportunities, Global Mass Transit, Indian Infrastructure and Southeast Infrastructure are organising a conference on **Urban Rail Systems in APAC** at **Shangri-La's - Eros Hotel, New Delhi, India** on **February 13-14, 2019**. The conference aims to bring together diverse stakeholders including policymakers, transit agencies, rail operators, rolling stock manufacturers, fare system providers, railway system suppliers, software solution providers, transit-related associations and financiers to discuss opportunities in the urban rail sector in Asia Pacific.

The mission of this conference is to highlight opportunities in the development, design and construction of urban rail projects as well as in the deployment of advanced rolling stock, signalling, track and fare systems for these projects in the Asia Pacific region. The conference will also discuss innovations in financing, project delivery and key challenges as well as showcase the latest technologies, best practices and noteworthy projects.



KEY ISSUES TO BE EXPLORED

- ❖ Opportunities in the Asia Pacific urban rail sector
- ❖ Plans of transit developers and operators for the development of urban rail systems
- ❖ Project delivery and financing models
- ❖ Digitalisation in the urban rail sector
- ❖ Deployment of state-of-the-art rolling stock and driverless trains
- ❖ Benefits of and challenges in the integration and interoperability of ticketing systems
- ❖ Partnerships between transit agencies, mobile operators and financial institutions
- ❖ Deployment of advanced signalling and telecom solutions
- ❖ Strategies for the development and effective implementation of asset management plans
- ❖ Use of new technologies (smartphones, big data, internet of things, drones, etc.), and the future of asset management in urban rail systems
- ❖ Opportunities for tunnelling in the urban rail sector
- ❖ Emerging concepts such as MaaS, big data, IoT, cybersecurity, etc.

AGENDA (Tentative)

DAY 1: FEBRUARY 13, 2019

Session	Topics
	Registration and Tea/Coffee
Session 1: Opening Session	❖ Welcome remarks
Session 2: Key Trends and Outlook	❖ Key trends and growth drivers ❖ Rail projects as a part of policy and urban transport plans ❖ Growing project pipeline ❖ Sector outlook ❖ Risks and challenges
Session 3: Developer/Operator Perspective	❖ Plans and policies ❖ Development and operational issues and challenges ❖ Branding and communication with stakeholders ❖ Structuring of the institutional framework for O&M (JVs, subsidiaries, PPPs, contracting)
Session 4: Financing Urban Rail Projects	❖ Current financing models and funding sources ❖ Multilateral funding and PPPs ❖ Innovative financing models ❖ Maximising fare and non-fare revenue (real estate development, advertising)
LUNCH AND NETWORKING	
Session 5: Spotlight on Rolling Stock	❖ Needs and requirements of the sector with respect to rolling stock ❖ Opportunities in the delivery of rolling stock ❖ Advances in rolling stock ❖ Introduction of driverless trains ❖ Issues and challenges facing the industry
Session 6: Signalling and Telecom	❖ Needs and requirements of the sector with respect to signalling and telecom ❖ Opportunities in the deployment of signalling and telecom systems ❖ Advances in signalling and telecom ❖ Issues and challenges facing the industry
Session 7: Focus on E&M	❖ Needs and requirements of the sector with respect to E&M ❖ Opportunities in the deployment of E&M systems ❖ Advances in E&M ❖ Issues and challenges facing the industry
Session 8: Fare Systems	❖ Needs and requirements of the sector with respect to fare systems ❖ Opportunities in the deployment of advanced fare systems ❖ Smart ticketing (bank cards, NFC, mobile wallets, etc.) ❖ Issues and challenges facing the industry

DAY 2: FEBRUARY 14, 2019

Session	Topics
Session 9: Emerging Concepts	❖ Digitalisation in rail systems ❖ Mobility-as-a-Service (MaaS) ❖ Smart ticketing for smart cities ❖ Big data: potential and challenges
Session 10: Tunnelling Opportunities	❖ Development of underground urban rail systems ❖ Opportunities for tunnelling technology providers ❖ Techniques and methods for tunnel development ❖ Monitoring tunnel development and construction ❖ Issues and challenges in tunnel construction
Session 11: Strategies for Asset Management	❖ Whole life cost analysis, BIM ❖ Developing asset management plans ❖ Prioritising capital investments ❖ Outsourcing for asset management needs ❖ Data capture for preventive and predictive maintenance
Session 12: Case Studies	❖ Best practices in the delivery of urban rail projects ❖ Best practices in the design and construction of urban rail projects ❖ Lessons learnt by leading transit agencies/authorities/operators

LUNCH AND NETWORKING

WHO SHOULD ATTEND?

The event is expected to draw participation from executives, managers and decision-makers from:

- ❖ Public transport authorities and operating companies
- ❖ Government transport departments
- ❖ City governments
- ❖ Policymaking and regulatory bodies
- ❖ Developers/Contractors
- ❖ Rail operators
- ❖ Rolling stock manufacturers
- ❖ Railway system suppliers
- ❖ Fare system suppliers
- ❖ Banks, financiers and insurers
- ❖ Multilateral aid agencies
- ❖ Software solution providers
- ❖ Industry consultants
- ❖ Research and development organisations
- ❖ Associations
- ❖ Law firms
- ❖ Technical institutes

KEY BENEFITS TO PARTICIPANTS

- ❖ Identify potential market opportunities and challenges
- ❖ Understand key trends, emerging concepts and recent developments
- ❖ Learn about best practices in the construction and delivery of rail projects
- ❖ Gain insight into innovative project delivery and financing models
- ❖ Learn about advances in rolling stock, fare systems, signalling and telecom
- ❖ Gain exposure to the new tools and technologies available for implementing asset management strategies and predictive maintenance
- ❖ Network with transit system authorities/agencies, policymakers and key industry players - contractors/vendors/consultants
- ❖ Gain valuable experience by participating in interactive discussions



Among the public transport authorities and operating companies, the target audience includes:

CEOs, Managing Directors

Executive Directors

Project Directors

Programme Directors

Heads of Engineering

Capital Planning and Programming Managers

Economists

Consultants/ Advisers

Contract and Project Managers

Strategic Business Services Officers

Finance Executives

Investment Managers

Previous Speakers in Related Conferences

Councillor Barney Crockett

The Lord Provost (Mayor), Aberdeen City Council and President, HyER Lord Provost and HM The Queen's Lord-Lieutenant, United Kingdom

Abdeluheh Choho

Deputy Mayor for Sustainability for the City of Amsterdam

Lisa Woodruff

Managing Director - Rail Transportation, Washington Metropolitan Area Transit Authority (WMATA)

David Springstead

Senior Director of Engineering & Development, Metropolitan Atlanta Regional Transportation Authority (MARTA)

Silvester Prakasam

Senior Adviser, Fare System Division Land Transport Authority, Singapore

Wong Wai Keong

Group Director-Rail Asset, Operations & Maintenance, Land Transport Authority, Singapore

Padet Praditphet

Director Common Ticketing Office, Office of Transport and Traffic Policy and Planning (OTP, Ministry of Transport, Thailand)

Aaron James

Director - Office of Engineering, FTA

Morris Cheung

Executive Director, MTR Corporation Limited and President, MTR Academy, Hong Kong

Noormah Mohd Noor

Chief Executive Officer, Express Rail Link (KLIA Ekspres), Malaysia

Yosuke Ogawa

Deputy Director of Transport Planning, Ministry of Land, Infrastructure, Transport and Tourism (MLIT), Japan

Azhar Othman

Head of Development Plan & Planning Research, Sustainable Development Division - City Planning Department, Putrajaya Corporation, Malaysia

Tom Cunnington

Head of Bus Contracts and Development, Transport for London, United Kingdom

Ashwini Bhide

IAS, Managing Director, Mumbai Metro Rail Corporation

Narendra Kumar Garg

Then Managing Director, Kolkata Metro Rail Corporation

H.S. Anand

Director, Rolling Stock, Delhi Metro Rail Corporation

Sharat Sharma

Director, Operations, Delhi Metro Rail Corporation

Mahendra Kumar

Director, Rolling Stock and Systems, Lucknow Metro Rail

R. Ramana

Executive Director, Planning, Mumbai Metro Rail Corporation

Ramnath Subramaniam

Executive Director, Strategic Planning, Nagpur Metro Rail

B.L. Manjunath

Executive Director, Rail & Metro, BEML

J. Ravikumar

Chief Financial Officer, L&T Metro Rail (Hyderabad)

Bharat Salhotra

Managing Director, India & South Asia, Alstom Transport

Rajiv Banga

Managing Director and Chief Executive Officer, IL&FS Rail

Harsh Dhingra

Chief Country Representative, India, Bombardier Transportation

Arvind Kumar Rai

General Manager, Underground, Chennai Metro Rail

Tilak Raj Seth

Executive VP and CEO, Mobility Division, Siemens

K.V. Unnikrishnan

Deputy General Manager, Operations, Kochi Metro Rail

P.K. Varma

General Manager, Signalling & Telecom, Metro Link Express for Gandhinagar & Ahmedabad Company

Ram Gopal Saini

Joint General Manager and Project Director, L&T Constructions

Previous Participants

The participants in our previous related conferences include: ABB, Accenture, AECOM, AF Payments, Alaska Railroad Corporation, ALCATEL-LUCENT, Alstom Transport, Applied Pavement Technology, APTA, Atkins, Auckland Transport, BAE Systems, Bentley Systems, Birmingham-Jefferson County Transit Authority, Bombardier Transportation, Calgary Transit, Cambridge Systematics, Capital Metropolitan Transportation Authority, Central Japan Railway Company, Central Ohio Transit Authority, CDM Smith, CH2M Hill, Chicago Transit Authority, Chennai Metro Rail Corporation, Cisco, Cubic Transportation, DC Surface Transit Corporation, Delhi Metro Rail Corporation, Deloitte & Touche, Deutsche Bank, DuPont, European Commission, European Investment Bank, EZ-Link, Federal Communications Commission, Federal Transit Administration, Fujitsu Network Communications, General Electric Company, General Resources Company, Global Traffic Technologies, Goldman Sachs, Greater Wellington Regional Council, GVB Amsterdam, Halcrow, Hatch Mott MacDonald, Hitachi, Hong Kong Tramways, Houston Metro, IBM, Infineon Technologies, INIT Asia-Pacific, IVU Traffic Technologies, Jacobs, JL Group Myanmar, Kolkata Metro Rail Corporation, Kochi Metro Rail, KPMG, L&T Metro Rail (Hyderabad), Land Transport Authority, Lea+Elliot, Light Rail Transit Authority- Manila, London Underground, Los Angeles Metro, Louis Berger, LULA, Lucknow Metro Rail Corporation, March Networks, MARTA, Maryland Transit Administration, Mastercard Asia Pacific, Metro Transit- Hiawatha Light Rail, Metrolink, Metropolitan Transportation Authority, Metro Link Express for Gandhinagar & Ahmedabad Company, Miami Dade Transit, Ministry of Transport and Communication - Qatar, Ministry of Transport of Thailand, moovel North America, MSI Global, MTA - Bridges and Tunnels, MTA - Capital Construction, MTA New York City Transit, Mumbai Metro Rail Corporation, Nagpur Metro Rail Corporation, Namma Metro, NEC Corporation, New Jersey Transit, New Zealand Transport Agency, Noida Metro Rail Corporation, Otago Regional Council, Parson Brinckerhoff, Pennsylvania Department of Transportation, Philips, Pricewaterhouse Coopers, RATP DEV America, RTA Chicago, RTD Denver, Rotterdamse Elektrische Tram (RET), Rapid Metro Gurgaon, Rhombus Sersa Service GmbH, Saigon Industry Corporation, San Francisco Municipal Transportation Agency, SC Soft, Siemens, Shift2Rail, SNC-Lavalin, Smartrac Technology, SNCF, Strukton Rail, Sumitomo, Sun Metro, SYTRAL, Thales, GBS Group, The World Bank, Toronto Transit Commission, Toshiba, Transdev, Transport for London, Trapeze, Trimble, United States Government Accountability Office, Ventyx, Veolia Transportation, Virginia Department of Rail and Public Transportation, Visa, Vix Technology (USA), Volvo, Washington County, Whiting Corporation, WMATA, Worldline, Xentrans, West Midlands Combined Authority, Xerox, ZNAPZ, etc.

Conferences Hosted by Indian Infrastructure/Global Mass Transit

- ❖ **3rd Annual Transit Ticketing & Fare Collection APAC**
October 24-25, 2018, Four Seasons Hotel, Singapore
- ❖ **12th Annual Railways in India**
October 10-11, 2018, Shangri-La's-Eros Hotel, New Delhi
- ❖ **3rd Annual Communications in Mass Transit**
June 20-21, 2018, Willard InterContinental, Washington, DC
- ❖ **Clean Buses in Europe**
April 18-19, 2018, InterContinental Amstel in Amsterdam
- ❖ **5th Annual Urban Rail-based Transit Systems**
February 5-6, 2018, Le Meridien, New Delhi
- ❖ **Asset Management for Urban Rail Systems APAC**
January 30-31, 2018, Four Seasons Hotel, Singapore
- ❖ **Transit Ticketing & Fare Collection APAC**
September 6-7, 2017, InterContinental, Singapore
- ❖ **2nd Annual Wireless Communication in Transit**
June 20-21, 2017, Willard InterContinental, Washington, DC
- ❖ **5th Annual Transit State of Good Repair**
March 9-10, 2017, Willard InterContinental, Washington, DC
- ❖ **Smart Delivery of Transit Capital Investment Projects**
December 7-8, 2015, Willard InterContinental, Washington, DC

About the Organisers

The conference is being organised by **India Infrastructure Publishing**, a leading provider of information on the infrastructure sectors through conferences, magazines, reports and directories. The company publishes **Indian Infrastructure** (a magazine devoted to infrastructure policy and finance) and a series of research reports on the transportation sector including **Urban Rail in India** and **Railways in India**. The company also publishes the **Urban Mass Transit Directory**.

Global Mass Transit is a leading provider of information and analysis on the global mass transit industry. It publishes the **Global Mass Transit Report** (a monthly newsletter) and **Global Mass Transit Weekly** (a weekly update). It also operates the www.globalmasstransit.net website.

Global Mass Transit provides information on all key developments, trends and issues in the sector. It tracks major projects, contracts and investments. It profiles leading mass transit authorities/operators and discusses their strategies. It reports on regulatory initiatives and examines their implementation. It provides the latest available data and statistics. It also features the views and perspectives of experts and top industry players.

SouthEast Asia Infrastructure magazine (www.southeastasiainfra.com) is a leading source of information on infrastructure development in Southeast Asia. It tracks key developments, analyses emerging trends, features industry players, perspectives, highlights key initiatives, and profiles exemplary projects

DELEGATE FEES (Indian)

Delegates	20% discounted fee (before January 7, 2019)			10% discounted fee (before January 28, 2019)			Price after January 28, 2019		
	INR	GST @ 18%	Total INR	INR	GST @ 18%	Total INR	INR	GST @ 18%	Total INR
One delegate	24,000	4,320	28,320	27,000.0	4,860.0	31,860.0	30,000	5,400	35,400
Two delegates	40,000	7,200	47,200	45,000.0	8,100.0	53,100.0	50,000	9,000	59,000
Three delegates	56,000	10,080	66,080	63,000.0	11,340.0	74,340.0	70,000	12,600	82,600
Four delegates	72,000	12,960	84,960	81,000.0	14,580.0	95,580.0	90,000	16,200	106,200

- There is a fee of Rs 10,000 per participant for state metro rail corporations, ULBs, development authorities, and academic and research institutions. GST @ 18 per cent is applicable on the registration fee.
- To register online, please log on to <http://indiainfrastructure.com/conf.html>

DELEGATE FEES (Foreign)

Delegates	Price before January 7, 2019	Price before January 28, 2019	Price after January 28, 2019
Per delegate	USD 600	USD 675	USD 750
Two delegates	USD 1,080	USD 1,215	USD 1,350
Three delegates	USD 1,560	USD 1,755	USD 1,950
Four delegates	USD 2,040	USD 2,295	USD 2,550
<i>There is a special low fee for mass transit operators and government agencies</i>			
Per delegate	USD 240	USD 270	USD 300

- Delegate fee includes one day trip to Agra or a day tour of Delhi.
- To register online, please log on to <http://indiainfrastructure.com/conf.html>

REGISTRATION FORM

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are available

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TERMS AND CONDITIONS:

- The conference is a non-residential programme.
- Full payment must be received prior to the conference.
- Conference fee includes lunch, tea/coffee and conference materials.
- Conference fees cannot be substituted for any other product or service being extended by India Infrastructure Publishing Private Limited.

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