8th Edition

URBAN RAIL-BASED TRANSIT SYSTEMS

A VIRTUAL CONFERENCE

Progress, Plans, Opportunities and Challenges

November 24-25, 2020

Organiser: Supported by:

Global Mass Transit Report
**Urban Rail-Based Transit Systems**

**Mission**

- The urban rail sector has evolved at a steady pace. The regulatory clarity and scope for technological innovation that the sector offers has kept the stakeholder interest high. The network has increased significantly, up from 81 km in 2006 to about 700 km operational at present, with about 450 km added over the past six years. So far, 13 cities have an operational metro network, and this is expected to increase to over 25 cities in the next few years. Highlighting a plenty of opportunities, the report of the Taskforce on the National Infrastructure Pipeline puts forth a capital investment target of $78 billion till 2025 for metro projects.

- However, Covid-19 has impacted construction activity in the sector. More importantly, the suspension of operations has resulted in huge revenue losses for metro rail corporations. The Delhi, Kochi, Bengaluru, Chennai and Lucknow metro rail corporations have together incurred losses of around Rs 20 billion on account of suspended operations. The resumption of services in some cities will step up demand, albeit slowly.

- In the current context, embracing the post Covid-19 requirements has become crucial. Technology is now going to play a bigger role. Thermal scanners are being deployed at metro stations to test the temperature of commuters and warning signals will be given in case of crowding. Stations are also being equipped with foot-operated elevators to avoid the spread of Covid-19.

- Overall, the indigenous manufacturing of rolling stock and signalling systems is gaining prominence, with the setting up of a number of manufacturing facilities and expansion of the existing ones. Further, the fare payments industry is undergoing developments such as the adoption of a variety of payment methods, especially interoperable electronic payment methods such as QR codes and contactless ticketing, smartcards, bank cards, mobile wallets and near-field communication (NFC)-enabled devices.

- On the financing side, reliance on public and multilateral funds continues to grow. While the PPP experience in the sector has not been very encouraging, the opportunities emanating for private players are aplenty, particular in the O&M space. Focus on generating more non-fare revenue is also growing. Options such as train wrapping; licensing of food kiosks; branding of commercial outlets/shopping malls inside stations and concessions for commercial/residential developments; and station branding are being explored.

- Land acquisition, clearances, right of way, engineering issues, geotechnical challenges and changes in scope are some of the other concerns facing the segment. In order to curtail operating costs, several metro systems have been devising ways to reduce energy consumption and promote the use of renewable energy. The use of regenerative breaking systems, VVVF drives and LED lighting for trains and stations are some of the steps in this direction.

- Meanwhile, the overall success of metro rail projects in Tier I cities has led to a growing demand for similar systems in Tier II and Tier III cities. Alternative systems such as metrolite and metroneo have been proposed in some of the cities with lower expected ridership.

- New concepts and technologies such as mobility-as-a-service (MaaS), internet of trains, big data, predictive maintenance, and renewable energy to power trains and stations are also being explored.

- The mission of this conference is to highlight the key trends and developments in the segment, discuss the medium- to long-term impact of Covid-19, identify the key issues and concerns, showcase noteworthy projects and emerging technologies. The conference will also examine new opportunities in the development, design and construction of the urban rail system as well as in the deployment of advanced rolling stock, signalling, telecommunications and fare collection systems.

**Target Audience**

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

- Urban rail operators
- Project developers
- Urban local bodies and relevant government bodies
- Construction companies and contractors
- Urban transport planning companies
- Urban transport operators
- Technology providers
- Policymakers and regulators
- Bridge and tunnel construction companies
- Equipment and service providers
- Financial institutions
- IT solution providers
- Other transit organisations
- International and national development agencies
- Consultants
- Potential developers/investors
- Legal firms
- Industry analysts, etc.

To register: Call +91-8587065590, 6366804343 | Email: priyanka.rawat@indlainfrasctructure.com or visit us at www.indlainfrasctructure.com
AGENDA/STRUCTURE

TRENDS, IMPACT OF COVID-19 AND OUTLOOK
- What are the key sector trends? What has been the impact of Covid-19 on project delivery, operations and investments?
- What are the key issues and challenges?
- What is the outlook for the sector? What are the upcoming opportunities?

METRO RAIL OPERATORS’ PERSPECTIVE: PLANS, PERFORMANCE AND FUTURE STRATEGIES
- What is the perspective of metro rail operators on the progress in the urban rail segment?
- What has been the impact of Covid-19 on project delivery, operations and investments?
- What are some of the noteworthy initiatives being taken to improve operations?
- What are the developmental and operational challenges? What are some of the procurement and technology deployment related best practices?

CONTRACTORS’ PERSPECTIVE: EXPERIENCE, CHALLENGES AND OUTLOOK
- What has been the experience so far? What has been the impact of Covid-19 on project execution?
- What are the key contractual issues? What are the lessons learnt?
- What is the future outlook? What are the expectations from the Concessioning authorities?

SPOTLIGHT ON ROLLING STOCK
- What are the emerging rolling stock requirements? What are some of the recent advances?
- What has been the role of the MoHUA’s guidelines on rolling stock standardisation?
- What has been the progress in the indigenous manufacturing of rolling stock?
- What has been the experience in the operation of driverless trains?

ELECTRIFICATION NEEDS AND REQUIREMENTS
- What are the current electrification requirements of urban rail-based transit systems?
- What are the recent advances to ensure energy efficient operations?
- What are the key issues and challenges?

TUNNELING MARKET: NEW REQUIREMENTS, CHALLENGES & OPPORTUNITIES
- What has been the experience with metro tunnel construction?
- What are the key prevalent techniques and methods for tunnelling?
- What are the key issues and challenges? What are the lessons learnt?

CONSTRUCTION OF ELEVATED STRUCTURES
- What has been the experience with the construction of elevated MRTS structures?
- What are the key prevalent techniques and methods? How has the cost economics evolved over time?
- What are the key issues and challenges? What are the lessons learnt?

FINANCIERS’ PERSPECTIVE AND THE WAY FORWARD FOR PPPs
- What are the key financing trends in the sector?
- What has been the overall experience with PPPs? What has been the impact of the Metro Rail Policy?
- What are the new sources of funds and innovative financing models that can be explored (land value capture, property development, etc.)? What are the key risks and challenges?

EMERGING NON-REVENUE SOURCES: FOCUS ON STATION AREA DEVELOPMENT
- Station branding
- Commercial and real estate development
- Train wrapping
- Commercial outlets/shopping malls
- Others
  - What are the new concepts being considered for enhancing non-revenue streams?
  - What has been the experience so far? What are the upcoming opportunities in this area?
  - What are the implementation roadblocks?

TRANSPORTATION REQUIREMENTS
- What has been the city-level experience with regard to the promotion of transit-oriented development?
- What is the future potential?
- What are the issues and challenges being faced?
AGENDA/STRUCTURE (contd…)

PROJECT SHOWCASE: NEW OPPORTUNITIES IN URBAN RAIL-BASED TRANSIT
- Metro
- Monorail
- Metroneo
- Metrolite
  - What is the future outlook for the development of these systems?
  - What are the standards and specifications for the development of light rail and rapid transit systems?
  - What are the key risks and challenges associated with the development of such systems?

TECHNOLOGY SOLUTIONS FOR THE POST-COVID WORLD
- What are some of the technology solutions that have come to the forefront in light of Covid-19?
- What has been the industry’s response with regard to the deployment of such technologies?
- What are some of the global best practices?

VIDEO SURVEILLANCE AND ANALYTICS: CROWD MANAGEMENT IN LIGHT OF COVID-19
- What are the new and emerging surveillance requirements at metro stations in the current scenario?
- What are the existing systems and technologies deployed for surveillance and monitoring? What is the scope of retrofitment of these systems?
- What are the new and advanced technologies being offered by vendors for surveillance and crowd monitoring with minimum human interference?

MOBILITY-AS-A-SERVICE: PROGRESS AND FUTURE POTENTIAL
- What have been the key advancements in this area?
- What are the new technologies being considered for deployment?
- What is the future of MaaS?

STATION BUILDINGS: FOCUS ON SUSTAINABLE DESIGNS
- What are the new and emerging design requirements?
- What are some of the global best practices?
- What are the possible areas/interventions that could lead to cost savings?

PREVIOUS SPEAKERS (in alphabetical order):

S.S. Joshi
Director, Rolling Stock and Signalling,
Delhi Metro Rail Corporation

Piyush Kansal
Group General Manager, Urban Transport,
RITES

Kumar Keshav
Managing Director, Lucknow Metro Rail Corporation

Pawan Kumar
Associate Town and Country Planner, MOHUA - Town and Country Planning Organisation

Sushil Kumar
Director (Operations), Lucknow Metro Rail Corporation

Mahendra Kumar
Director, Rolling Stock and Systems,
Lucknow Metro Rail Corporation

Anup K. Kundu
Director RS&T,
Kolkata Metro Rail Corporation

Rajeev Kumar
General Manager (S&T),
Mumbai Metro Rail Corporation

Surjit Madan
Head Systems,
Amaravati Metro Rail Corporation

M.P. Naidu
Project Director,
L&T Metro Rail (Hyderabad)

R. Ramana
Executive Director, Planning,
Mumbai Metro Rail Corporation

Sudhir Rao
MD, India, Bombardier Transportation

Vijayan S.R.
Assistant Vice-President, ABB

Palash Srivastava
Deputy CEO, IIFCL Projects

Daljeet Singh
Director, Works,
Delhi Metro Rail Corporation

Ajay Talwar
Head Business Verticals,
Bosch Security Solutions

Keshav C. Tayade
Addl. GM (Quality Control), Maharashtra Metro Rail Corporation Limited- Nagpur Metro Rail Project

Rajeev Ved
MD & CEO, Hitachi India
Previous Participants from Metro Rail Corporations

What differentiates our conferences?

- The agenda is developed by our researchers, who track the sector round the year. It is thus relevant and topical. It is not driven by a particular organisation and does not have a particular slant.
- The speakers are professionals and experts involved in the sector, not a mix of ambassadors, ministers, celebrities and business owners.
- The conferences do not just comprise panels and speeches; they provide a good mix of expert presentations and case histories, and of course panel discussions.
- We have representation from across the country, as is the case at our physical conferences too.
- Each stakeholder group – policymakers, developers, financiers, consultants and relevant NGOs – is represented at our conferences.
- The moderators merely ask the questions. The stars are the speakers themselves.
- The sessions begin and end on time.
- There is adequate time for a Q&A session with each speaker. These are not “hit and run” speeches.
- The delegates are professionals who are vested in the sector, and are not just assembled through social media.
- A recap of the conference is also made available to reinforce the key takeaways.

Delegate benefits (Virtual Conference)

- Direct interaction with senior speakers (Q&A facility)
- Easy connectivity to geographically dispersed delegates (click of a mouse)
- Cost effective (lower ticket price as compared to a physical conference)
- Offers flexibility and convenience
- Access to conference recording
- Recap of conference sessions
- Contributes to sustainability and lower carbon footprint

Benefits of sponsorship (Virtual Conference)

- E-Meet influencers and decision-makers/
- Reach out to and engage with new or active prospects
- Generate high quality sales leads
- Increase brand recognition
- Target a captive and engaged audience
- Drive website traffic through social media promotions
- Position your company as the thought-leader in your industry
# Urban Rail-Based Transit Systems

## Progress, Plans, Opportunities and Challenges

November 24-25, 2020

### Registration Fee

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- There is a 25 per cent discount before November 5, 2020
- GST @18 per cent is applicable on the registration fee.
- Registration will be confirmed on receipt of the payment.

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**Payment Policy**:
- Full payment must be received prior to the conference.
- Payments for “early bird” registrations should come in before the last date of discount. Discount offers cannot be combined with any other offer.
- Conference fees cannot be substituted for any other product or service being extended by India Infrastructure Publishing Pvt. Ltd.

## Organisers

The conference is being organized 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 including urban rail, metro, bus, light rail, regional rail, and intermodal passenger transport. It publishes the **Global Mass Transit Report** (a monthly newsletter) and **Global Mass Transit Weekly** (a weekly update), and operates the [www.globalmasstransit.net](http://www.globalmasstransit.net) website.

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