



GOVERNMENT OF INDIA
MINISTRY OF HOUSING AND URBAN AFFAIRS



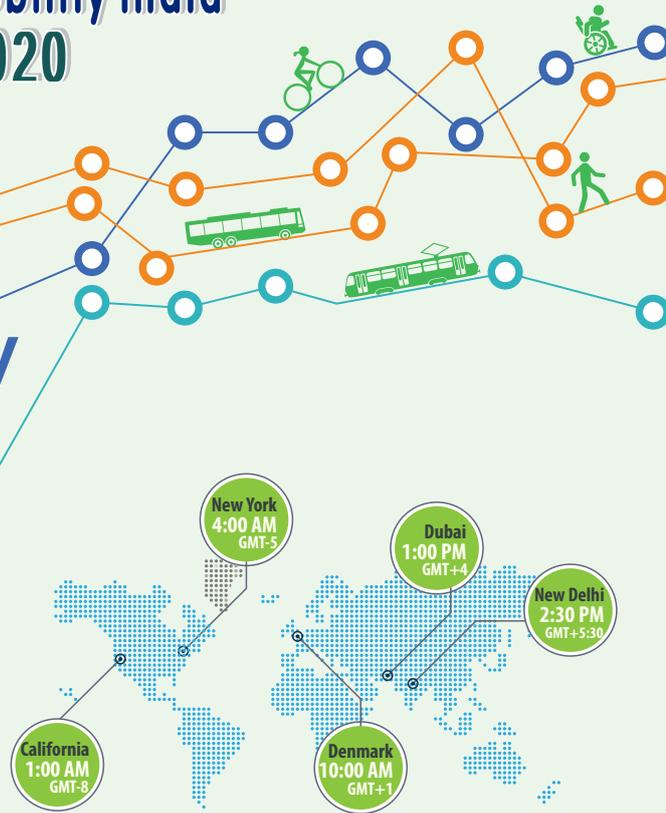
13th Urban Mobility India Conference 2020

Emerging Trends in

Urban Mobility

9th November 2020

14:30 to 20:50 hrs
New Delhi



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7 KNOWLEDGE PARTNERS



MESSAGES

12:31



हरदीप एस पुरी
HARDEEP S PURI



आवासन और शहरी कार्य राज्य मंत्री (स्वतंत्र प्रभार)
नागर विमानन राज्य मंत्री (स्वतंत्र प्रभार)
वाणिज्य एवं उद्योग राज्य मंत्री
भारत सरकार

Minister of State (I/C), Housing & Urban Affairs
Minister of State (I/C), Civil Aviation
Minister of State, Commerce & Industry
Government of India

Message

The United Nations had adopted the universal Sustainable Development Goals in 2017 in Agenda 2030, which recognizes and emphasises the need to achieve sustainable transport development. Accomplishing these goals will require shedding the 'business as usual' approach by leveraging the appropriate technology and introducing new mobility trends. The transport sector alone accounts for a quarter of energy-related greenhouse gas emissions requiring immediate and sustainable reforms.

India's digital surge and numerous initiatives taken in the country have been the torchbearer for achieving sustainable and smart mobility. The rapid growth of mass rapid systems with multimodal integration, intelligent transport management systems, Fare integration through National Mobility card, green mobility including cycling and pedestrianization constitute the future of the Indian urban transport. With the vision to increase the share of public transport share to 40% by 2024, the Ministry of Housing and Urban Affairs has introduced modern yet affordable mass transit systems, including Metro Lite, Metro Neo, Regional Rapid Transit Systems and city bus system to fulfil the aspirations of smaller towns and cities.

It is a fact that the prevailing pandemic has plummeted the public transport ridership by 90%. In order to address the changing travel needs of the urban population due to this pandemic, Ministry of Housing and Urban Affairs has issued a detailed advisory to all State Governments and Union Territories on the steps to be taken for the resurgence of urban mobility.

The theme of this year's Urban Mobility India (UMI) conference on "Emerging Trends in Urban Mobility" has been aptly chosen. The Conference through its deliberations will help realize the vision towards sustainable, convenient and congestion free travel, duly complemented by key overarching strategic enablers in place.

I convey by best wishes for the success of this 13th Urban Mobility India Conference 2020 being held online on 9 November, 2020.

New Delhi
03 November, 2020


(Hardeep S Puri)

दुर्गा शंकर मिश्र
सचिव
Durga Shanker Mishra
Secretary



भारत सरकार
आवासन और शहरी कार्य मंत्रालय
निर्माण भवन, नई दिल्ली-110011
Government of India
Ministry of Housing and Urban Affairs
Nirman Bhawan, New Delhi-110011

MESSAGE

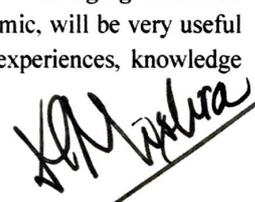
With projected over 50% of country's population to become urban by 2050¹, there will be a massive growth in daily urban trips. Planning, design and innovative solutions on Sustainable Urban Mobility would be crucial for India's development in the urban transport sector. In addition, the current Covid 19 pandemic has halted normal everyday life of millions of people across the world, calling for far-reaching efforts in radicalizing the urban transport environment.

India's growth story in urban mobility is unfolding in its cities of all sizes, from mega cities to small towns and is catching the attention of the world. Starting modestly, rail-based Mass Rapid Transit Systems in the country have reached a large network of 700 operational km catering to about 8.5 million passengers; further over 900 km metro network is under construction in 27 cities. Government endeavours to facilitate structured city bus services in all 5 lakhs+ cities and foster NMTs and other cleaner modes of transit, through initiatives such as India Cycles4Change and Street4People challenges. Taking forward the agenda of Hon'ble Prime Minister of "Aatmanirbhar Bharat" through various initiatives, such as AMRUT, Smart Cities Mission, and development of mass rapid transit systems, my Ministry is taking lead in indigenising various components/ subassemblies to reduce dependence on import.

Considering the current pandemic as an opportunity, MoHUA has circulated a three-pronged strategy to the cities consisting of **Encouragement & Revival of Non-Motorised Transport, Recommencing of Public Transport with Greater Confidence of Commuters and Active Utilization of Technology.**

The 13th Urban Mobility India Conference 2020 on the theme of '**Emerging Trends in Urban Mobility**', the first in a virtual format due to Covid-19 pandemic, will be very useful platform in bringing together all the stakeholders for exchange of experiences, knowledge sharing and peer learning, particularly for the post Covid era.

I convey my best wishes for the success of this event.


(Durga Shanker Mishra)

¹ Vision 2024

JAIDEEP

Officer on Special Duty (UT) &
ex-officio Joint Secretary

Tel. : (011) 23061114
Fax : (011) 23061102
E-mail : osdut-moud@gov.in
jaideepirsee@yahoo.co.in



भारत सरकार
आवासन और शहरी कार्य मंत्रालय
निर्माण भवन, नई दिल्ली-110011
GOVERNMENT OF INDIA
MINISTRY OF HOUSING AND URBAN AFFAIRS
NIRMAN BHAWAN, NEW DELHI-110011

Message

Globally, it has been seen that transport authorities together with local authorities are actively vying for "smart transport". Urban transportation as a wider context of urbanization in India has proven to be exemplary in embracing smart technologies in all spheres of its operations. This transformation has been riding on innovative and strategic partnerships, new technologies, improved project and asset management.

For cities to be truly "smart", planners must use time tested strategies, which emphasize on moving people and not the cars to ensure sustainable mobility. This would entail developing a set of options that will contribute to a genuinely sustainable society; promoting green urban mobility growth within a framework of local devolution, fiscal stability and social responsibility.

To understand and validate such requirement of urban dwellers, this year, the 13th Urban Mobility India Conference in its first ever digital avatar is also an emerging trend for post Covid 19 congregations of such magnitude. The conference intends to provide a professional platform for proliferation of thoughts and ideas on the '**Emerging Trends in Urban Mobility**' to a wider audience and set the stage for resurgence of sustainable transport in India.

As OSD (Urban Transport) in the Ministry and Director General, IUT (India), I convey my best wishes to the organizing team for the successful conduct and conclusion of the event.

(Jaideep)



UMI PROGRAMME DETAILS

INAUGURAL SESSION

14:30 – 15:30

WELCOME ADDRESS

Shri Durga Shanker Mishra *Secretary,
Ministry of Housing and Urban Affairs, Government of India*

KEY NOTE ADDRESS

Prof. Jan Gehl *Founder and Senior Advisor, M/s Gehl Architects*

ADDRESS

Dr. Claudia Warning, *Director-General German Federal Ministry
for Economic Cooperation and Development (BMZ)*

ADDRESS

Mr Jean-Baptiste Djebbari, *Hon'ble Minister Delegate for
Transport, French Ministry for the Ecological Transition*

RELEASE

**by Hon'ble Minister of State (I/C) for Housing and Urban
Affairs, Government of India**

1. Film on "Initiatives in Urban Transport during Covid – 19"
2. Standards & Specifications for Metro Neo
3. Manual for Planning, Design and Implementation of City Bus Depots
4. Manual for Planning, Design and Implementation of ITS/ MIS for Transport System
5. E-book: Innovation and Best Practices in Metro Operations & Maintenance
6. Innovative Urban Mobility Challenge
7. Logo for Indo-German Cooperation in Urban Green Mobility

INAUGURAL ADDRESS

Shri Hardeep Singh Puri,
*Hon'ble Minister of State (I/C) for Housing and Urban Affairs,
Government of India*

PRESENTATION OF MEMENTO TO KEY NOTE SPEAKER

Mr. Ajit Gupte,
Indian Ambassador in Denmark

VOTE OF THANKS

Shri Jaideep,
OSD (UT) & Ex. Officio Joint Secretary, MoHUA

NATIONAL ANTHEM

SHORT BREAK

15:30 – 15:40

Topic	Speakers
<p>PLENARY SESSION EMERGING TRENDS IN URBAN MOBILITY (PLENARY SESSION)</p> <p>15:40 – 17:10</p> 	<p>Release by Shri Durga Shanker Mishra, Secretary, Ministry of Housing and Urban Affairs, Government of India</p> <p>1.Executive Program in Sustainable Urban Transport 2. Tactical Urbanism Guidebook</p> <p>Chairperson - Mr. Durga Shanker Mishra, Secretary, Ministry of Housing and Urban Affairs, Government of India</p> <p>Moderator & Presenter - Dr. O.P. Agarwal, CEO, World Resources Institute (WRI)</p> <p>Panellists</p> <ul style="list-style-type: none"> • Mr. Alkesh Kumar Sharma, Managing Director, Kochi Metro Rail Ltd. (KMRL) • Dr. Surendra Kumar Bagde, General Manager, BEST Undertaking • Mr James Leather, Chief of Transport Sector Group in ADB • Prof. Shivanand Swamy, Executive Director, CEPT University • Mr Gerald Ollivier, Lead Transport Specialist, The World Bank • Mr Josep Laborda, Co-founder, Factual Consulting, Spain <p>Rapporteur – Ms Shruti Mahajan, Consultant, UMTC</p>
<p>SHORT BREAK</p>	<p>17:10 – 17:20</p>
<p>BREAKOUT SESSION 1 EMERGING TRENDS IN MASS TRANSIT SYSTEMS</p> <p>17:20 – 18:50</p> 	<p>Moderator - Mr. Jaideep, OSD (UT) & Ex Officio J.S., MoHUA</p> <p>Presenters</p> <ol style="list-style-type: none"> 1. Mr. Ajay Seth, Managing Director, Bangalore Metro Rail Corporation (BMRCL) 2. Mr. V.K. Singh, Managing Director, National Capital Region Transport Corporation (NCRTC) 3. Dr. Brijesh Dixit, Managing Director, Maharashtra Metro Rail Corporation 4. Prof. Shivanand Swamy, Executive Director, CEPT University 5. Mr Dieter Michell-Auli, Board Member, Deutsche Bahn International Operations <p>Rapporteur – Ms Sangeetha Ann, Senior Fellow, CEPT Ahmedabad</p>
<p>BREAKOUT SESSION 2 CHALLENGES FACED BY CITY BUS SERVICES AND ROADMAP FOR ITS EXPANSION</p> <p>17:20 – 18:50</p> 	<p>Moderator – Mr Abhijit Sarkar, Consultant, Mott MacDonald Pvt Ltd.</p> <p>Presenter</p> <ul style="list-style-type: none"> • Mr. Shivayogi Kalasad, Managing Director, Karnataka State Road Transport Corporation (KSRTC) • Shri Prasanna Patwardhan, Chairman & Managing Director, Prasanna Purple Mobility Solutions Pvt. Ltd., Pune • Mr Arun Bothra, Managing Director, Capital Region Urban Transport (CRUT), Bhubaneswar • Dr Sandeep Gandhi, Principal, SG Architects • Prof Paulose Kuriakose, Assistant Professor, SPA, Bhopal <p>Rapporteur – Ms Christy Cherrian, Senior Fellow, CEPT Ahmedabad</p>

BREAKOUT SESSION 3
POST-COVID MOBILITY:
STRENGTHENING
OF WALKING AND
BICYCLING

17:20 – 18:50



Moderator - Dr. Sanjay Gupta, Head of Department (Urban Planning), SPA Delhi

Presenter

- Mr. Salil Rai Shrivastava, OSD, Housing & Environment Department, Government of Chhattisgarh
- Ms Pranjali Deshpande, Consultant, World Bank
- Mr. Vincent Lichere, Director, SUEZ Consulting Mobilities
- Mr Sergio Martínez, Undersecretary, Secretariat of Mobility, Bogotá

Rapporteur - Dr D. Sairam, Assistant Professor, SPA

BREAKOUT SESSION 4
FRAMEWORK FOR
TRANSITIONING TO
ELECTRIC BUSES

17:20 – 18:50



Moderator - Mr. Laghu Parashar, Deputy Project Director, SMART-SUT, GIZ

Panellists

- Ms C. Shikha, Managing Director, Bangalore Metropolitan Transport Corporation (BMTC)
- Mr Rohit Srivastava, Vice President & Head - Bus Product Line, Tata Motors Ltd. (TBC)
- Mr. Rahul Bagdia, Managing Director, pManifold Business Solutions Pvt. Ltd.
- Mr Laghu Parashar, Deputy Project Director, SMART-SUT, GIZ
- Dr. Ravi Gadepalli, Consultant, World Bank and UITP

Rapporteur - Dr Bhaskar Gowda, Associate Professor, SPA

BREAKOUT SESSION 5
FRANCE COUNTRY
SESSION

17:20 – 18:50



Introduction – Special Addresses: H.E. Mr Emmanuel Lenain, Ambassador of France to India

Session 1: Public Policies and New Technologies Supporting more Virtuous Models

Keynote address – Mr. Olivier Robinet, Directorate of European and International Affairs, French Ministry for Ecological Transition

Moderator – Ms Feli Visco, Economic Section, Embassy of France in India

Presenters

- Mr. Antoine Herteman, President, AVERE
- Mr. Pascal Lignères, Director for Strategy & Rail in Asia, Egis
- Mr. Raghu Rao, Make in India Project Leader, Decathlon Sports India
- Mr. Benjamin Fouin, Task Team Leader for Urban Transport Projects in South Asia AFD – French Agency for Development

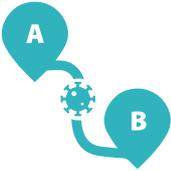
Session 2: New Strategies and Industrial Partnerships in Mobility Industry

Moderator – Mr Durlabh Maharishi, Trade Advisor – Industries & Cleantech, Business France

Presenters

- Mr. Alain Spohr, Managing Director -India & South Asia, Alstom Transport
- Dr. Jean-Luc di Paola-Galloni, Corporate Vice-President Sustainable Development and External Affairs, Valeo Group
- Mr. Christophe Gurtner, CEO, Forsee Power
- Mr. Shan Venkat, CEO, Lumiplan India

Conclusion - Mr. Daniel Maitre, Minister Counsellor for Economic Affairs, Embassy of France to India

SHORT BREAK	18:50 – 19:00
<p>CONCLAVE</p> <p>ROADMAP FOR SUSTAINABLE MOBILITY DURING COVID SCENARIO</p> <p>19:00 – 20:30</p> 	<p><i>Chairperson - Mr. Durga Shanker Mishra, Secretary, Ministry of Housing and Urban Affairs, Government of India</i></p> <hr/> <p>Presenter – Mr Amit Bhatt, Director- Integrated Urban Transport, WRI & Ms Jagriti Arora, Project Associate - Integrated Transport, WRI</p> <hr/> <p>Moderator - Dr. O.P. Agarwal, CEO, WRI</p> <hr/> <p>Panellists</p> <ol style="list-style-type: none"> 1. Dr Mangu Singh, Managing Director, Delhi Metro Rail Corporation (DMRC) 2. Mr Banchhanidhi Pani, Municipal Commissioner, Surat 3. Mr K.R. Jyotilal, Principal Secretary, Transport Department, Government of Kerala 4. Mr Shashi Verma, Director of Strategy and Chief Technology Officer, Transport for London (TfL) 5. Mr Shomik Mehndiratta, Practice Manager for Transport, South Asia, World Bank 6. Mr Jurgen Baumann, Project Director, Smart-SUT, GIZ <hr/> <p>Rapporteur – Mr Appurva Chauhan, GIZ</p>

VALEDICTORY SESSION	20:30 – 20:50
<p>AWARD FOR INNOVATION IN URBAN TRANSPORT DURING COVID-19</p>	<p>Shri Durga Shanker Mishra <i>Secretary, Ministry of Housing and Urban Affairs, Government of India</i></p>
<p>VALEDICTORY ADDRESS & LAUNCH OF UMI 2021</p>	<p>Shri Durga Shanker Mishra <i>Secretary, Ministry of Housing and Urban Affairs, Government of India</i></p>
<p>VOTE OF THANKS</p>	<p>Shri Jaideep, <i>OSD (UT) & Ex. Officio Joint Secretary, MoHUA</i></p>

SPEAKERS PROFILE

12:31





Shri Hardeep Singh Puri

Hon'ble Union Minister for Housing and Urban Affairs (I/C); Civil Aviation (I/C); and Minister of State for Commerce and Industry

Shri Hardeep Singh Puri is Union Minister of State, Housing and Urban Affairs (I/C); Civil Aviation (I/C); and Minister of State for Commerce and Industry.

He has had a distinguished four-decade career in diplomacy spanning the bilateral and multilateral arena, having held Ambassadorial posts in London, Brazil and as India's Permanent Representative to the United Nations in both Geneva (2002-2005) and New York (2009-2013). He is one of the few Indians to preside over the United Nations Security Council and the only one to have chaired its Counter-terrorism Committee. He served as Chairman, RIS; as Vice President at the International Peace Institute; and as Secretary-General of the Independent Commission on Multilateralism in New York.

He is the author of three books, Separating the Wheat from the Chaff: Decoding Dominant Narratives (Konark Publications, 2019); Delusional Politics (Penguin RandomHouse, 2019); and 'Perilous Interventions: The Security Council & The Politics of Chaos (HarperCollins, 2016).



Prof. Jan Gehl

Founder and Senior Advisor, Gehl

Prof. Jan Gehl, the Danish architect, urbanist, professor and writer is “the last living worldwide renowned guru in urbanism” and is the father of modern urban planning. With a career span of over 50-years, he has encouraged cities to take a people-centred approach to urban planning and focusing on improving the quality of urban life by re-orienting city design towards the pedestrian and cyclist and creating livable cities for people in the 21st Century.

Prof. Gehl advises many urban designs and public projects for the cities of Copenhagen, London, Melbourne, Sydney, New York, Seattle, Shanghai, among others. Over 40 years, he has been instrumental in transforming the Danish capital from a car-dominated city to a pedestrian-oriented city. His renowned work of the Strøget car free zone of Copenhagen, is celebrated as one of the longest pedestrian shopping areas in Europe.

He is currently a Senior Advisor at Gehl and over the course of his career, he has published several books, including, “Life Between Buildings”, “Cities for People”, “Public Spaces – Public Life” and most recently “People Cities” / “Mennesker Først”. He is an honorary fellow of Royal Institute of British Architects (RIBA), American Institute of Architects (AIA), Royal Architectural Institute of Canada (RAIC) and Planning Institute of Australia (PIA).



Mr. Emmanuel Lenain

*Ambassador of France
to India*

Born on 27th March, 1970, Mr Emmanuel Lenain graduated from Sciences Po (IEP) in Paris and ESSEC Business School. He is also an alumnus of the Ecole Nationale d'Administration (ENA).

Mr Lenain began his diplomatic career in 1997, serving in the French Foreign Ministry's United Nations Department, where he took part in peace negotiations on Kosovo. In 2000, he was appointed First Secretary to France's Permanent Mission to the United Nations in New York, to follow cases related to the Security Council and the Sanctions Committees.

In 2003, he was assigned at the Embassy of France in Beijing as a Political Counsellor. In this capacity, he tracked China's foreign policy and supervised negotiations on issues such as the European arms embargo and textile quotas.

Mr Lenain returned to Paris in June 2005 to serve as the Prime Minister's technical advisor on multilateral affairs until July 2007, when he came to Washington, D.C., to head the French Embassy's Press and Communication Department.

From 2010 to 2015, he served as Consul General of France in Shanghai. Thereafter, he became Director for the Asia-Pacific Division of the French Ministry of Foreign Development in 2015, a post he held until his appointment as Diplomatic Adviser to the Prime Minister in 2017.

In addition to his diplomatic activities, Mr Lenain has lectured on International Relations at Sciences Po and served as an expert on the Carnegie Foundation's Commission on Preventing Deadly Conflicts. Apart from French, he is also fluent in the English, Chinese and German languages.



Dr. Claudia Warning

*Director-General for the Asia;
South-Eastern and Eastern
Europe; Middle East; Latin
America; Civil Society;
Churches, German Federal
Ministry for Economic
Cooperation and
Development (BMZ)*

Since May 2018, Professor Claudia Warning has been the Director-General for the Asia; South-Eastern and Eastern Europe; Middle East; Latin America; Civil Society; Churches, German Federal Ministry for Economic Cooperation and Development (BMZ). Her Directorate-General is responsible for technical and financial cooperation with the BMZ's partner countries in the said continents.

For thirteen years, from 2005 to 2018, she was a member of the Board of the German Protestant development agency Bread for the World within the Evangelisches Werk für Diakonie und Entwicklung and of its predecessor organisation, the Church Development Service.

From 2005 to 2009, she chaired the Association of German Development and Humanitarian Aid Non-Governmental Organisations (VENRO).

Professor Warning studied geography in Bonn, Germany, and in Pune, India. In July 2012 she became a part-time professor at the International Centre for Sustainable Development (IZNE) of Rhein-Sieg University of Applied Sciences.

She has vast experience in development from her work in various governmental and nongovernmental organisations, including the Karl Kübel Foundation for Child and Family, where she served on the Board from 1999 to 2005; the German Foundation for International Development (DSE, now a part of GIZ); the German Commission Justitia et Pax; and the Federal Ministry of Regional Planning, Building and Urban Development.

Professor Warning has published many papers on development issues, participatory urban development, environmental and resource protection, and savings and loans systems.



Shri Durga Shanker Mishra

*Secretary, Ministry of
Housing and Urban Affairs,
Govt. of India*

Currently working as Secretary in the Ministry of Housing and Urban Affairs, Government of India, Shri D.S. Mishra belongs to 1984 batch of Indian Administrative Service (IAS) from Uttar Pradesh cadre. He has held various assignments in Union and State Governments covering Revenue Administration, Internal Security, Vigilance, Civil Aviation, Tourism, Sports, Agriculture, Taxation, Medical & Health, Mining and Urban Development. He had been Principal Secretary to the Chief Minister for over two years.

B. Tech. in Electrical Engineering from IIT, Kanpur, Shri Mishra is MBA (International Business) From University of Western Sydney, Australia and Post Graduate Diploma in Public Policy from Institute of Social Studies, The Hague. He has keen interest in promoting good governance and has published various papers on the subjects related to governance, public administration and development administration in national/ international journals and books. He has represented Union/ State Governments at various national/ international fora and participated in such workshops/ conferences. He had been visiting faculty in the University of Guelph, Canada. He is fond of trekking, sports and tourism.

**Shri Jaideep**

*Officer on Special Duty (UT)
& ex-officio Joint Secretary,
Ministry of Housing and
Urban Affairs, Government
of India*

Shri Jaideep belongs to Indian Railway Service of Electrical Engineers (IRSEE). Currently, he is working as Officer on Special Duty (Urban Transport) & Ex-officio Joint Secretary, M/o Housing and Urban Affairs (MoHUA) since November, 2019. Prior to joining the MoHUA, he has worked on several important assignments in Indian Railways related with train operations, maintenance of rolling stock & traction distribution systems, rolling stock manufacturing, IT system etc. He also worked as Executive Director and Director in Ministry of Railways dealing with policy related matter. He is a postgraduate from IIT Delhi and also did his LL.B from University of Delhi. He is credited with publication of papers on train sets for long distance train operation on Indian Railway network and on the choice of traction system used in Metro.

**Shri K. R. Jyothilal**

*Principal Secretary,
Transport Department,
Government of Kerala &
Vice-Chairman, Kerala
Metropolitan Transport
Authority*

Shri Jyothilal IAS, a 1993 batch IAS officer is currently the transport Secretary of Kerala and Vice-Chairman, Kerala Metropolitan Transport Authority. Armed with a B Tech from IIT Madras and MBA from ICAI, Mr. Lal has earlier been the Collector of Trivandrum and Kannur, and held portfolios in IT, Transport, Agriculture, Animal Husbandry, Fisheries, Food and Civil

Supplies, GAD, Tourism, Devaswom, Parliamentary Affairs, Ports among others. He has been instrumental in projects related to hitech agriculture, Smart City Kochi, KMRL, Kannur airport etc.

**Mr. Jean-Baptiste Djebbari**

*Minister Delegate for
Transport, attached to the
Minister for the Ecological*

Mr. Jean-Baptiste Djebbari is a Minister Delegate for Transport, attached to the Minister for the Ecological Transition.

He is Graduate from the French Civil Aviation University (Ecole Nationale de l'Aviation Civile).

He has been Airline pilot at Netjets company (2008-2010), Official of the General Directorate of Civil Aviation (DGAC) (2014-2015), Founder of LALIGNÉ company (2015) and Operations manager of the Jetfly company (2016-2017).

He is Member of Parliament for Haute-Vienne constituency since 2017 and Minister of State to the Minister for the Ecological and Inclusive Transition, in charge of Transport (2019-2020).



Mr. Daniel Maitre

*Minister Counsellor for
Economic and Financial
Affairs, Embassy of France
in India*

Mr. Daniel Maitre is the Head of the Regional Economic Service for India and South Asia at the French Embassy in New Delhi. He had the same responsibilities in Central America, Russia, Central Europe, Morocco and Egypt. He has also held various positions in France, in the Treasury Directorate General of the French Ministry of Finance, always in the field of international economic relations. He is a graduate of the Ecole Nationale des Ponts et Chaussées and the Ecole Nationale d'Administration.



Dr. Brijesh Dixit

*Managing Director,
Maharashtra Metro Rail
Corporation Ltd*

An acclaimed Railway Administrator and an efficient infrastructure builder. An eminent institution builder and urban transport professional. Presently heading Maharashtra Metro Rail Corporation Ltd. (Maha Metro) as Managing Director.

Associated with Indian Railway for over 30 years including association with Mumbai suburban and urban rail transport for over 15 years, at various levels covering planning, designing, constructing, and maintaining large scale rail infrastructures & operation of services and administration of institutions on both Western and Central Railways.

Known for Total Transformation of Rail infrastructure and quality of services to both passenger and freight customers and public in general as DRM Nagpur, Central Railway.

Currently, as Managing Director, Maharashtra Metro Rail Corporation Ltd. (Maha Metro), built the organization from scratch, being employee no. 1 on 18th Feb' 2015, the day of its incorporation. Has ensured, a very expeditious start and fast progress of this major project overcoming numerous administrative and organizational challenges. Organized quick and smooth land acquisition; achieved fast tie up with international funding agencies viz. KfW Germany, AFD France and EIB. Ensured expeditious appointments of consultants and contractors. Achieved building up and functioning of organizational structure at board level and at the level of the corporation.

His latest accomplishment is Inauguration of 11 km section of Picturesque Aqua Line of Nagpur Metro, at the hands of Hon'ble Chief Minister of Maharashtra through video link on 28th Jan 2020 and inauguration of 13.5 km of Orange Line of Nagpur Metro, at the hands of Honorable Prime Minister Shri. Narendra Modi Ji through Video link on 7th March 2019.



Dr. Mangu Singh

Managing Director, Delhi Metro Rail Corporation (DMRC)

Dr. Singh graduated in civil engineering from University of Roorkee (now IIT Roorkee) in 1979 with an outstanding academic performance. Thereafter, he joined the elite Indian Railways Services of Engineers (IRSE). Mr. Singh joined Delhi Metro Rail Corporation (DMRC) in 1997 at inception stage and is currently working as Managing Director. He has contributed greatly in Delhi Metro Phase-I, Phase-II and Phase-III. He has been instrumental in preparing Detailed Project Reports for Metro system in other cities of the country like Mumbai, Hyderabad, Bangalore, Chennai, Kolkata, Lucknow, Kochi, Jaipur, Ludhiana and Ahmedabad.

He is President Tunnelling Association of India, Fellow Indian National Academy of Engineering, Member Policy Board of UITP, Chairman elect of CoMET (Group of Metros) and Fellow of many other prestigious institutions.

He has published large number of papers in national and international journals.



Shri Alkesh Kumar Sharma

Managing Director, Kochi Metro Rail Ltd.

Shri Alkesh Kumar Sharma is the Managing Director of Kochi Metro Rail Ltd., Kochi and also holding full additional charges of Additional Chief Secretary (Special Projects-Infrastructure), Industries (Kochi – Bangalore Industrial Corridor).

As Managing Director, KMRL he is responsible for Planning, Design, Execution, Operations and Management of Kochi Metro Rail Project. The other important projects are Kochi Water Metro Project, Reconstruction and Rejuvenation of Canal Systems in Kochi and Development of Bliss City, an entertainment, wellness and hospitality city in Kochi.

As Additional Chief Secretary (Special Projects-Infrastructure) he is responsible for monitoring the implementation of mega infrastructure projects like Semi-High Speed Rail, Airport, Ports, Smart Cities, Multi-modal Transport Hub, Waste to Energy Projects etc. As part of Kochi-Bangalore Industrial corridor, he is monitoring the development of Industrial townships and integrated smart manufacturing clusters etc. in Kerala.

He has been Chief Executive Officer & Managing Director of the Delhi Mumbai Industrial Corridor Development Corporation Limited (DMICDC) and CEO of National Industrial Corridor Development and Implementation Trust (NICDIT).

He was Joint Secretary, Ministry of Road Transport

and Highways, Government of India for three years, where he handled matters relating to National Highways Planning, land acquisition, forest and environment clearances, review and monitoring of National Highways Projects, coordination with Railways, Defence and other agencies and all matter related to toll and toll policy on the national highways. He was also Chairman of the Indian Highways Management Company Ltd.

Mr. Sharma worked with the United Nations Development Programme (UNDP) for three years as National Project Director, Urban Development and Poverty Alleviation.

Mr. Sharma received the Best CEO Award twice from the Government of Kerala; the President's Medal for the Best District Census Officer and the Best Performance Award from the Government of Kerala. He has also been awarded the Global CEO of the Year award in 2018 by CSR Global Foundation. He is an Honorary Fellow at the Centre for Excellence in Project Management, New Delhi.

A gold medalist Graduate in Agricultural sciences and an MBA in Rural Management, Mr. Sharma is from the 1990 batch of IAS Kerala Cadre.



Shri Ajay Seth

*Managing Director,
Bangalore Metro Rail
Corporation Ltd.*

Shri Ajay Seth is currently working as Managing Director, Bangalore Metro Rail Corporation. Most of his professional experience has been in the domains of public finance and social sector administration dealing with matters concerning budget, accounts, tax policy and administration, project appraisal, foreign investments, bilateral and multilateral financial cooperation, development financing, and public-private-partnerships. Out of his career of 33 years, he has been in the public finance and taxation domains for 18 years in different positions in Government of India, Government of Karnataka and Asian Development Bank.

He was associated with Good & Services Tax domain for 8 years till 2015, first as Secretary (Budget & Resources) dealing with tax policy, as Commissioner (Commercial Taxes) handling tax administration, and thereafter as Special Invitee to various committees formed by Empowered Committee of State Finance Ministers.

He is a recipient of Prime Minister's Award for Excellence in Public Administration in 2013, being a member of the team for "transformation of commercial tax administration in Karnataka".



Shri Vinay Kumar Singh

*Managing Director of
National Capital Region
Transport Corporation
(NCRTC)*

Shri Vinay Kumar Singh is the Managing Director of National Capital Region Transport Corporation (NCRTC), a company under the Ministry of Housing and Urban Affairs. This company has mandate to design, develop, finance, operate and maintain the Regional Rapid Transit System (RRTS) with an aim to provide fast, safe and comfortable rapid transit between Delhi and nearby NCR towns.

Shri Singh is an officer of the Indian Railway Service of Engineers (IRSE) 1988 batch and is a Post Graduate from the Indian Institute of Technology (IIT) Delhi. He is a civil engineer who has worked on a wide variety of challenging professional assignments including maintenance of the highly demanding Ahmedabad - Kandla Port rail line as Divisional Engineer, Deputy Chief Engineer in charge during the first phase of Delhi Metro Rail Project, Secretary to General Manager, Northern Railway and Executive Director in the Railway Board.

Shri Singh was the Chief Executive Officer of the High Speed Rail Corporation a subsidiary of Rail Vikas Nigam Ltd. Shri Singh was the first officer who started construction of Delhi Metro on ground, the first CEO of the High Speed Rail Corporation and is now the first MD of NCRTC.



Mr. Shashi Verma

*Director of Strategy and
Chief Technology Officer,
Transport for London*

Mr. Shashi Verma is Director of Strategy and Chief Technology Officer at Transport for London. He joined TfL in September 2002.

Shashi has overall responsibility for TfL's corporate strategy. The new role of CTO is aimed at bringing a new approach to the development, deployment and operation of technology across TfL. Since its creation in 2016 the new role has already delivered significant improvements in TfL's technology delivery and reduced costs.

Since 2006 Shashi has been responsible for the operation of TfL's revenue collection system including the Oyster card, the largest smartcard based ticketing system in the world; and, advising the Mayor of London on fares and ticketing policy. In 2011 he added responsibility for integrating all customer facing activities and for running TfL's customer service operations. Shashi has led the development of contactless payments since 2007 and implemented this successfully on TfL's systems starting in 2012. In the process he has developed capability for technology development and globally leading innovation in a public sector organisation.



Dr. Surendra Kumar Bagde

*General Manager,
Brihanmumbai Electric
Supply & Transport
Undertaking (BEST)*

Dr. Surendrakumar Bagde has spent more than 27 years in the Indian Administrative Service. In his extensive career he has promoted domestic & foreign direct investment in various sectors in the State of Maharashtra and was involved in the formulation of State's policies for Information Technology and Biotechnology sectors during his stint at Maharashtra Industrial Development Corporation.

While working in the Government of India, Dr. Bagde has dealt with the formulation of national strategy on bilateral economic cooperation with countries like USA, Japan and Canada. He also negotiated financing of development projects with Government of Japan for projects in the infrastructure, water supply and power sectors which included Western Dedicated Freight Corridor project.

Dr. Bagde is currently working as General Manager, Brihan Mumbai Electric Supply & Transport Undertaking, Mumbai.

Dr. Bagde holds a Graduate Degree in Electrical Engineering from VJTI and a PhD in Applied Economics and Management from Carnegie Mellon University, USA. Dr Bagde's research has appeared in the American Economic Review and the American Sociological Review.



Sri. Shivayogi C. Kalasad

*Managing Director,
Karnataka State Road
Transport Corporation*

Sri. Shivayogi C. Kalasad, IAS, is currently the Managing Director, Karnataka State Road Transport Corporation, the pioneer Road Transport Corporation in India, which is presently serving 3 million commuters with 8,700 buses in rural and urban areas and earning Rs. 90 million on an average daily revenue.

KSRTC has pioneered in many I.T. initiative and introduced many passenger amenities for the public, and has won many accolades from Government of India, and various National and International Organisations.

Mr. Kalasad, has a distinguished academic record with B.Tech from National Institute of Technology, NIT, Surathkal, and an Executive MBA from Oxford University and University of Warwick, UK.

He has travelled extensively and participated in several national and International Conferences.

His interests includes travelling, music and outdoor activities like trekking, playing Golf etc.



Ms. C Shikha

*Managing Director,
Bengaluru Metropolitan
Transport Corporation
(BMTCT)*

Ms C Shikha is an IAS officer of the 2004 batch and is currently posted as Managing Director of Bengaluru Metropolitan Transport Corporation. She is also placed in concurrent charge as Managing Director of the Karnataka Urban Infrastructure Development and Finance Corporation. In her earlier terms, she has served as the Deputy Commissioner of Mysore, Commissioner of Social Welfare Department of Karnataka, Director of Department of Pre-University Education Bengaluru and as Managing Director of Bangalore Electricity Supply Company Limited (BESCOM).



Mr. Arun Bothra

*Managing Director, Capital
Region Urban Transport
(CRUT) and Chairman cum
Managing Director of
Odisha State Road
Transport Corporation
(OSRTC)*

He has served as an IPS officer for more than 20 years in Odisha cadre. Currently he is serving as Managing Director, Capital Region Urban Transport (CRUT) and Chairman cum Managing Director of Odisha State Road Transport Corporation (OSRTC). With his strong mindsets as an IPS officer, police department has solved many criminal cases and under his strong leadership and determination, CRUT has achieved multiple revenue and ridership targets within a year of its establishment.



Mr. James Leather

*Chief of the Transport
Sector Group in Asian
Development Bank*

Mr. JAMIE LEATHER is the Chief of the Transport Sector Group at the Asian Development Bank. Mr. Leather has 30 years of experience in transport, working internationally with development organizations, governments, private sector and research institutions. Mr. Leather leads ADBs transport sector operations and oversees the strategic direction of ADBs knowledge, technical and financial support to its developing member countries, private sector clients, and partners. Mr. Leather obtained his Master of Science in transport planning and engineering from the Institute of Transport Studies, Leeds University (UK).



Dr. O. P. Agarwal

*CEO, World Resources
Institute*

Dr. O.P. Agarwal is the CEO of WRI India. Earlier, he was a member of the Indian Administrative Service from 1979 to 2007. During this period he held several positions, both under the national government and the Government of Assam. He authored the National Urban Transport Policy formally adopted by the country in 2006. He was a Senior Urban Transport Specialist at the World Bank from 2009 to 2016, where he advised ongoing urban transport projects of the World Bank across all regions. He chaired the TRB Committee for Transport in Developing countries for 6 years.

He has a PhD in Transport Economics from IIT Delhi, a Masters degree in Transport from the Massachusetts Institute of Technology and a B.Tech in Electrical Engineering from IIT Madras.



Dr. Shomik Mehndiratta

*Practice Manager for
Transport in South Asia
Region*

Dr. Shomik Mehndiratta is the World Bank's Practice Manager for Transport in South Asia Region. Prior to this he was the Manager for Transport in Latin American and the Caribbean. He has been at the World Bank since 2002 (except for a short break in 2015) working primarily in East Asia, Latin America and Africa. He has served in the past as the Transport Sector's technical lead on urban mobility and climate-informed transport. In the period 2007-2010 he worked in China and edited book on Low Carbon Urban Development in China. In 2015 he briefly worked with Uber as Director of Policy; and prior to the World Bank he worked at CRA International, a business and economics consulting firm, based in Boston MA. Shomik holds a PhD from the University of California at Berkeley and an executive MBA jointly from INSEAD and Tsinghua University.



Mr. Gerald Ollivier

*Lead Transport Specialist,
World Bank*

Mr. Gerald Ollivier is Lead Transport Specialist for the World Bank in India. He focuses on developing solutions to enhance urban mobility, unlock markets for electric mobility, achieve sustainable economic integration through multimodal transport, and achieve safer transport to better serve the needs of India. Prior to India, he was Cluster Leader in the Singapore World Bank Hub. From 2010 to June 2018, he supported the development of metro lines and high-speed rail lines in China, as team leader for the World Bank. From 1995 to 2010, he focused on World Bank trade and transport projects in Europe and Central Asia. He is a civil engineer and a chartered financial analyst.



Shri Banchhanidhi Pani, IAS

*Municipal Commissioner,
Surat Municipal
Corporation*

Shri Banchhanidhi Pani is an Indian Administrative Services Officer (IAS) of 2005 Batch of Gujarat Cadre. He has served in Panchayat & Rural Development, Revenue and Urban Development sectors.

He was Municipal Commissioner of Rajkot from 22/09/2016 to 04/09/2019 and currently the Municipal Commissioner of Surat from September 05, 2019.

He has been instrumental for various activities in the mobility sector such as safety audit of BRTS corridors, redesigning of critical intersections, remediation of black spots and augmentation of the road network. He is also the chairman of Sitilink Company and is the driving force in the process of making modifications in the BRTS / city bus to make it compliant with the present COVID conditions.

Currently, he is actively involved in all round development of Surat through implementation of various smart city projects, sustainability projects, Tapi river front development, metro rail project and many other initiatives.

Under his leadership Surat has been awarded various national and international awards in some areas like India Smart Cities Awards 2019, Best City Bus Service Netexplo Smart Cities 2020 Award (Category: Resilience) By UNESCO. India Today Safaigiri Award 2019, Automatic Fare Collection System (AFCS) under - Smart Transportation' 'Smart Underground Waste Collection System', 'Wind Power Plant for water supply services in the Surat Smart City Area' Category.



Shri Salil Rai Shrivastava

*OSD, Department of
Housing & Environment,
Government of
Chhattisgarh*

Shri Shrivastava is presently posted as OSD in Department of Housing & Environment, Government of Chhattisgarh. Prior to that he was Engineer in Chief, Nava Raipur Atal Nagar and Addl. CEO Nava Raipur Smart City Corporation Ltd. Chhattisgarh. He belongs to Indian Engineering Services 1987 batch. He has around 30 years of experience in Urban Infrastructure Planning and Execution including Telecom construction engineering, Housing colonies, Optical Fibre ducts laying and transmission Tower construction.

He has led the ITS enabled BRTS, mass transport system under the World bank aided Government of India SUTP scheme. Has a vast experience in management and handling of contracts and arbitrations.

He has vastly travelled internationally on various study tours which included the World bank sponsored Mass transit study tours to Mexico, Columbia and Seoul, South Korea; Finland to study the present technology for construction of buildings; Shanghai, Beijing, Prague and Dubai to study the urban planning.



Prof. Shivanand Swamy

*Executive Director, Centre
of Excellence (Urban
Transport), CEPT University*

Prof. Shivanand Swamy is the Executive Director of the Centre for Excellence in Urban Transport (CoE-UT) at CEPT University. He provides advisory support to the Gujarat Government on urban and regional development issues and has led multi-disciplinary teams for projects supported by World Bank, ADB, UNDP and State and Local Governments in India. He is also an independent Director of the Capital Region Urban Transport (CRUT), the SPV for the development of public transport infrastructure and facilities in and around Bhubaneswar. Prof Swamy is a postgraduate in Economics and Urban and Regional Planning.



Prof. Dr. Sanjay Gupta

*Head, Urban Planning
Department at School of
Planning and Architecture,
New Delhi*

Dr. Sanjay Gupta is a Professor of Transport Planning and Head, Urban Planning Department at School of Planning and Architecture (SPA), New Delhi. He holds a Ph.D degree in Transport Planning from School of Planning and Architecture (SPA), New Delhi, India. He has over three decades of academic, research and professional experience in the field of transport planning and urban development at SPA. His research areas include integrated land use - transport planning, public transport systems planning, urban freight logistics, travel demand modelling, sustainable mobility, social exclusion and policy aspects. He is a resource faculty on the GEF, World Bank, UNDP funded capacity training programme in Sustainable Urban Transport (SUTP) on behalf of Ministry of Housing and Urban Affairs (MoHUA), GOI having delivered several talks besides being a member of the jury for selection of best award in urban transport in India. He has delivered capacity building expert lecture talks on behalf of UNESCAP to senior government officials in Bhutan and Sri Lanka.

He has been an expert member on several national and state level committees related to transport and environment aspects, smart cities, ITS, urban transport etc. He was awarded Commonwealth Academic Fellowship at Institute for Transport Studies, University of Leeds (U.K) during Sep.2012 to Nov. 2012 where he is also presently a Visiting Professor at University of Leeds since 2013. Presently he is engaged in a two prestigious international research projects namely CLIMATRANS related to transport and climate change issues in Indian cities in collaboration TOI Norway and UNDERREFORM project related to urban governance and its impact on mobility patterns and transport policy in Smart cities with Leeds University (UK) and Birmingham University (UK) respectively besides research partners from India including IIT Mumbai, IISc. Bengaluru and TERI.



Shri Sudesh Kumar

*Team Leader of PMC, ESCBS
project of the Ministry of
Housing and Urban affairs*

Shri Sudesh Kumar is a 1972 batch product of IIT Kharagpur, a premier institute of India, and has contributed in the progress of the Indian Railway for over 37 in various capacities, including Divisional Railway Manager, as an Electrical Engineer, General Manager and as Member Electrical, and ex-officio secretary to the Government of India. He has been actively involved in several urban and rail transport projects in India, such as Kochi metro, the Dedicated Freight Corridor Corporation and the “Metro link Express Gandhinagar Ahmedabad” (MEGA). He is currently the Team Leader of PMC, for the World Bank and UNDP funded SUTP and ESCBS project of the Ministry of Housing and Urban affairs. He is also the Vice President of the Institute of Urban Transport, New Delhi.



Mr. Jürgen Baumann

Project Director, Smart-SUT, GIZ

GIZ Project Director for Smart SUT; trained as full legal practitioner with the admission as a lawyer, many years of professional experience in consulting and management of development cooperation projects as advisor for Connective Cities and the C40 Cities Finance Facility, especially in the field of good governance; long-term professional experience in the field of urban development, in particular at the level of concrete implementation of infrastructure projects, e.g. the conversion of the former headquarters of the Western Group of Soviet Forces in Europe in Wünsdorf; long-term advisory activity as a lawyer specializing in the real estate sector. Jürgen Baumann was responsible for the conception of events and other offers of Connective Cities and for the cooperation with international partners in the region of South-Eastern Europe as well as for conception and advising in the development of funding concepts in the concrete implementation of urban projects through C40 CFF in India, Ecuador and Colombia.



Shri Laghu Parashar

Deputy Project Director, GIZ, India

Shri Laghu Parashar is Deputy Project Director of SMART-SUT project in GIZ India since March 2019. He is a Transportation Planner and having more than 16 years of experience in planning, design and implementation of public transportation projects. He has been a key member of team delivering various sustainable transport projects including Bus Rapid Transit System (BRTS) Amritsar and Jaipur and led a team responsible for successful run of city bus operation on PPP from concept till implementation stage. He has been instrumental in drafting “Urban Bus Specifications” (UBS-II) and other model documents for Ministry of Housing and Urban Affairs (MoHUA), Government of India. He is also an Honorary Secretary of Institute of Urban Transport (IUT), India and active as a visiting faculty and jury member in leading planning institutes i.e. SPA, Delhi and CEPT, Ahmadabad.



Shri Rahul Bagdia

*Managing Director &
Co-Founder pManifold
Business Solutions Pvt. Ltd.*

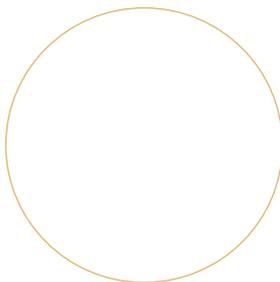
Shri Rahul Bagdia has 19+ years of Research and Consulting experience, broadly in Clean Energy and Mobility and has 5+ years' experience in Electric vehicle/ battery/ charger/ network technologies and in broader eMobility space.

He is Managing Director & Co-Founder of pManifold, a Strategic Research and Consulting company, helping industries and organisations innovate and transform their solutions, services, and business models, for higher customer experience and market growth.

He specializes in new technology and market development, business transformation, impact assessment, financial modelling, technology valuation, customer experience, econometrics, policy advocacy, and stakeholder engagement.

He has led various clean mobility and sustainable programs funded by international agencies like UNEP, GIZ, GGGI, GEF, SAARC Energy Centre. He has been instrumental in supporting Policy and Technical Standards Development for Electric Vehicles for various countries. He is Secretary of India Utility Knowledge and Network (IUKAN) and Nagpur Smart City Council (NSCC).

Shri Rahul have Dual Masters degree, Mechanical and Electrical Engineering, University of Michigan (Ann Arbor).



Shri Rohit Srivastava

*Vice President, Product Line
- Buses of Tata Motors
Limited*

Shri Rohit Srivastava is presently designated as Vice President, Product Line - Buses of Tata Motors Limited. He has been working with Tata Motors since 1997.

Mr Srivastava has an Engineering degree from the University of Allahabad and a CII – Fulbright “Leadership in Management” fellowship for the 2007 program, conducted at the Tepper School of Business, Carnegie Mellon University.

Mr Srivastava has varied experience, of over 20 years, in the field of sales & marketing, product & brand management, strategic planning, in addition to business development and network management.

He has worked on several high impact assignments, like SCV Marketing, heading the CV business for Western region and functioned in the capacity of the Chief Executive Officer and presently Director nominated by Tata Motors on the Board of Tata Marcopolo Motors Limited, a subsidiary of Tata Motors Limited.



Shri Prasanna Patwardhan

Chairman & Managing Director, Prasanna Purple Mobility Solutions Pvt. Ltd.

Shri Prasanna Patwardhan is currently the Chairperson & Managing Director at the Prasanna Group. He was captain of the Maharashtra basketball team and represented the country as well - and this reflects in his stately persona even today. What started as a small transport company with four taxis in 1964 is today a giant in the transport sector, with a turnover of around Rs 300 crore. Prasanna Purple Mobility Solutions Pvt. Ltd., popularly known by its brand name Prasanna Purple, today has a fleet of over 1200 buses and cars in 85 cities across India, of which the company owns over 700 buses. Shri Prasanna Patwardhan has been instrumental in introducing new activities with integrated technology in the field of passenger and goods transportation, domestic/international tours & travels and highway restaurants/motels.



Mr. Vincent Lichère

Director of SUEZ Consulting Mobilities

Mr. Vincent Lichère is a transport planner and the director of the urban mobility department of SUEZ Consulting, from France. He has 30 years of experience within local transport authorities and engineering companies. He had the opportunity to work in various countries in Europe, Africa, Latin America and Asia. He first intervened in India in 2006, for a feasibility study of a light rail transit in Delhi. He is presently the team leader of two projects in India: the development of a mobility corridor of 15 km in the centre of Hyderabad, mixing at-grade public transport and improved “walkability”; and the design of a “Green Mobility corridor” in Kochi.



Mr. Josep Laborda

Associate Expert on Smart Mobility and MaaS at Cities Forum and Cofounder and CEO of FACTUAL

Mr. Josep Laborda is Associate Expert on Smart Mobility and MaaS at Cities Forum and Cofounder and CEO of FACTUAL, a boutique innovation & strategy consultancy focused on mobility. He holds an M.Sc. degree in Telecommunication Engineering by the Polytechnic University of Catalonia (UPC). Between 2008 and 2019 he was Project Manager of Intelligent Transportation Systems at RACC Automobile Club, where he led the company’s MaaS strategy and liaison with the MaaS Alliance. Before (2004-2008), he was business analyst at Deloitte. He has been involved in more than 10 European research & innovation projects in the fields of Connected and Automated Driving, decarbonisation of transport and Mobility as a Service (MaaS). He is an expert reviewer for the European Commission and EIT Urban Mobility.



Ms. Pranjali Deshpande

Consultant, The World Bank

Ms. Pranjali Deshpande is an Architect and Urban planner. She works on sustainable mobility projects with various government agencies. She is currently working as an independent professional on various projects initiated by the World Bank, French Development Agency and FCDO (Foreign, Commonwealth & Development Office- former DFID). Prior to this, she worked with the Institute for Transportation and Development Policy on street design, Bus Rapid Transit, Parking policy & Transit Oriented Development policy.

Pranjali is also an active member of various government committees that aim to improve sustainable mobility in Pune. She is a co-author for Pune street design guidelines and contributor for BRT guidelines by the Indian Road Congress. She teaches urban transport to architecture and urban design students.



Dr. Sandeep Gandhi

Principal, SG Architects

Dr. Sandeep Gandhi (B.Arch., M.Tech., Ph.D.), is a sustainable mobility expert with over 22 years of experience. During this time, he has worked extensively on research, planning, design and development of non-motorized, public transport and urban freight infrastructure as well operations, in multiple cities across India. His association in this field includes government bodies, private sector, developmental sector, academic and research institutes. He has not only worked on large public and non-motorized transport projects including one of the first BRT and NMT projects in the country but has also been instrumental in the development of numerous guidelines, toolkits and other capacity building material for the sector.



Prof. Paulose N. Kuriakose

Assistant Professor, Dept. of Urban & Regional Planning Programme Coordinator, Department of Transport Planning, School of Planning and Architecture, Bhopal

Mr. N. K. Paulose is an urban geographer, he holds a postgraduate degree in Geography from the University of Kerala and earned another Post graduation in Urban and Regional Planning from CEPT University, Ahmadabad. He was awarded the coveted Commonwealth Scholarship by Commonwealth Scholarship Commission to study Masters in Transport Planning from the University of Leeds, the UK in 2014. He joined School of Planning and Architecture (SPA), Bhopal in 2011 as an assistant professor. He has close to ten years of consultancy and teaching experience in the field of Urban Planning and transport planning. His primary area of expertise includes transport policy, public transport and low carbon mobility, climate change and urban management. Currently, he is pursuing his doctoral research at SPA Bhopal on parking policies in India.



Mr. M. Olivier Robinet

*Directorate of European
and International Affairs,
French Ministry for
Ecological Transition*

Inspector general in public veterinary health, Olivier Robinet spent the first part of his career in the Pacific territories (Wallis and Futuna, New Caledonia) as a veterinary officer before specializing himself in environment sciences with a PhD in ecology from the University of Auckland. He worked then in France in central administration of the Ministry of Environment, then of Ministry of Foreign Affairs as an expert in biodiversity related policies. He was then Head of cooperation and cultural service at Embassy of France in Accra (Ghana), before working as director of La Reunion national park. In 2011, he became Director of Training Institute for Environment (IFORE – Institut de formation de l'environnement), a national service depending on French Ministry of Environment, whose mission is to train civil servant executives on sustainable development issues.

Since October 2016, he is Deputy Director for international affairs in charge of bilateral relations with non-european countries for ministries in charge of sustainable development including environment, energy, climate change, sea, urbanism, habitat and transport.



Mr. Christophe Gurtner

*Chairman & CEO of Forsee
Power*

Mr. Christophe Gurtner is the Chairman & CEO of Forsee Power, the specialist in lithium-ion smart battery systems for a sustainable electric transport (LEV, trucks, buses, trains, marine vessels).

He has been in the battery industry for 25 years and has developed a strong expertise in designing business models to answer the energy challenges of tomorrow. He founded Forsee Power in 2011 with a strong belief that there was a high need for robust power technology to support the energy transition in the Transport markets.

Forsee Power is an industrial group specializing in smart battery systems for sustainable electric transport (LEV, trucks, buses, trains, marine vessels).

Christophe is a graduate from ISC Business School in Paris. He and his wife live in Paris with their 2 children.

Christophe spent 13 years with Saft in international business development and general management positions in France, Germany, the UK, the USA and Asia/ Japan.



Mr. Alain Spohr

*Managing Director Alstom
India & South Asia*

Mr. Alain Spohr is a seasoned professional with four decades of experience and has been at the helm of some of the most significant infrastructure projects. As the Managing Director of Alstom India & South Asia, his efforts are to help transport corporations in their modernisation efforts by introducing some of the futuristic and revolutionary solutions. Under his able leadership, Indian Railways began inducting Alstom built India's highest-powered electric locomotives.

Alain's career in India spans over 18 years, which offers him an in-depth understanding of the country's business environment and its culture. His expertise and experiential proficiency in the industry has shaped businesses to adapt to rapid localisation and cost reductions effectively and secure significant market share.

Previously, Alain was associated with GE/Bharat Forge joint-venture, where he was the MD & CEO. Under his leadership, the company executed a \$150 million turbine project within stipulated time and budgets. He also played a central role in scaling up Alstom's knowledge centre in the areas of project management, engineering, construction and commissioning.

He holds a degree in mechanical engineering from France and enjoys Indian cuisine.



Mr. Pascal Ligneres

*Director for Strategy & Rail
in Asia, Egis*

Mr. Pascal Ligneres started his career in the industry sector working for PSA Peugeot Citroën and Total in Nigeria. In 2007, he joined the French Nuclear Safety Authority. In 2012, he became the technical advisor of the French Minister for Foreign Trade. In 2014, he joined the Egis Group as deputy director for the Grand Paris Metro Line 16 and Chief Strategy Director, assisting the CEO and the executive committee. Since 2019, he has been Director for Strategy & Rail in Asia-India, based in Delhi.

Pascal Ligneres holds a Master of Science (Ecole Polytechnique) and a Master of Business Administration (Ecole des Mines de Paris).



Mr. Sergio Eduardo Martinez

*Undersecretary of Mobility
Policy, Secretariat of
Mobility of Bogota*

Mr. Martinez is a Civil Engineer with Master Degrees in both Urban and Regional Planning and in Transportation Engineering.

He has 15 years of professional experience working in both public and private sectors in planning and engineering projects. In addition to having worked previously as the Director of Transportation and Infrastructure at the Secretariat of Mobility, he has also worked at WSP-Parsons Brinckerhoff, the U.S. Air Force and The World Bank.



Ms. Jagriti Arora

*Project Associate, on
integrated mobility and
road safety projects, World
Resources Institute (WRI)*

Ms. Jagriti Arora works with WRI India as a Project Associate, on integrated mobility and road safety projects, where she looks at factors that drive urban mobility systems. Prior to joining WRI, she worked as a Research Associate with Urban Mobility track at Ola Mobility Institute. She has also worked on research projects with organizations focused on a variety of outcomes, which include but are not limited to, PRS Legislative Research in Delhi, Urbz in Mumbai and Infrastructure Development Corporation (Karnataka) Ltd., Bengaluru. She holds a master's in Urban Planning from IIT Roorkee and a bachelor's degree in architecture from IP University.



Shri Amit Bhatt

*Director, Integrated Urban
Transport at World
Resources Institute*

Shri Amit is the Executive Director of (Urban Transport) at WRI India. He is based in Delhi and provides vision and leadership to all transport initiatives across WRI in India and neighbouring countries.

Amit has around 20 years' experience in the field of urban transport, electric mobility, road safety, non-motorised transportation planning, street design and urban development.

Amit has a Bachelor's degree in Architecture and a Master's degree in Transport. Amit also has a Master's degree in Economics and a diploma in Transport Economics and Management.



Shri Ravi Gadepalli

Consultant with World Bank and UITP

Shri Ravi works as an independent consultant with the World Bank and the International Association of Public Transport (UITP) on policy, planning and implementation issues concerning public transport and electric mobility. He has more than twelve years of working on sustainable transport projects across India and specialises in public and paratransit systems. His recent works include: Analytical support to BMTC on electric buses, development of India's first Bus Priority Lane (BPL) and securing long-term budgetary support; Inputs to National level policies, business models and procurement efforts to scale-up electric buses across India and Development of policy, regulatory and financing strategies to improve bus services in India. Ravi completed his Masters and PhD from Indian Institute of Technology (IIT) Delhi where he worked on 'Developing a framework for integrated planning of bus and paratransit services in Indian cities'.



Mr. Dieter Michell-Auli

Board Member, Deutsche Bahn International Operations

Dieter Michell-Auli, born in 1968, studied Mechanical & Production Engineering at Friedrich-Alexander-University Erlangen-Nuremberg. He has held different managerial positions in Germany and China for Siemens' Automation and Mobility Divisions. In 2009, Mr. Michell-Auli joined the Deutsche Bahn Group as Division Director for Signaling, Telecoms and Electrification, and took charge of Technology and Procurement. In 2011, he took over a new responsibility in the Board of Directors of DB Engineering & Consulting, a subsidiary of Deutsche Bahn, which consults and supports international clients from feasibility to operations. Since 2017, Dieter Michell - Auli has served as a Member of the Board of Managing Directors for DB International Operations, which operates and maintains passenger and freight railway systems outside of Europe, including the Middle East and Latin America. He also serves as Chief Sales Officer (CSO) at DB Engineering & Consulting. Both DB Engineering & Consulting and DB International Operations are part of DB E.C.O. Group (Engineering, Consulting, Operations).



Mr. Benjamin Fouin

*Task Team Leader for Urban
Transport Projects in South
Asia, French Development
Agency*

Mr. Benjamin Fouin is a Transport Engineer and a graduate of Ecole Centrale de Lille. He has been working for AFD – French Development Agency for 10 years and has overseen Transport projects in South-America, South-Caucasus, East and Central Africa both from AFD head office and field offices. He is now based in Colombo, Sri Lanka, and currently holds the position of Transport Task Team Leader for South Asia.



Mr. Durlabh MAHARISHI

*Trade Advisor – Railways,
Urban Mobility &
Infrastructure, Smart Cities
Business France – French
Trade & Investment
Commission, Embassy of
France in India*

Mr. Durlabh Maharishi has been working with the French Embassy in India for more than 8yrs on the sectors of urban mobility, infrastructure development and smart cities. He is presently the expert in mobility sector for the French Trade and Investment Commission – Business France. He brings experience of handholding French companies to find business in India and develop their potential with possible Indian partners through joint-ventures, common programmes, business meets, etc. He is also the single point of contact at Business France for several French companies from the entire mobility spectrum (railways, metros, automotive, electric mobility) operating in India or in the process of setting up their footprint in India.

He has been equally implied on Indo-French economic diplomacy and bilateral relations across 4 Ministries in the Government of India and their French counterparts. Durlabh also brings the strength of his experience of working on French technical assistance projects, in cooperation with the French Development Agency – AFD in India and industry partners such as the Indo-French Chamber of Commerce and Industry.



Mr. Shan Venkat

MD & CEO, Lumiplan India

Mr. Shan Venkat is the MD & CEO of Lumiplan India operations. Lumiplan is a French Group specialized in IT Solutions for Public Transport and Innovations in Passenger Information Systems and transport software for better planning of public transport

Shan has a Masters in Civil Engineering from the University of Dundee, Scotland, United Kingdom. With more than 10 years of International (On-Site) and Local expertise on Transport related projects across seven countries around the globe. He has been the Team Leader for many sustainable projects in India supported by World Bank, MoUD, MoRTH, SUTP and Local State Governments.

He is also the working representative of Indo French Chamber of Commerce and Industry for South India. One of the important roles is to boost the business relationship in India and France across several sectors.

His specialism is in the Intelligent Transport Enterprise projects and Public Transport Operations project where he has been the Team leader.



Ms. Feli Visco

Deputy Head IT, Energy and Industry, Regional Economic Services, Embassy of France in India

Ms. Feli Visco has over 13 years' experience in development aid financed programs and government services; handling climate change, innovation and senior stakeholder engagement. She has worked on a USAID funded energy access investment readiness project, with Miller Center for Social Entrepreneurship where 30 portfolio companies raised over USD 40 million impacting ~1.2 million beneficiaries in India. Before that she was part of the technical advisory team for a Euro 53 million green credit line to the Small Industries Development Bank of India (SIDBI) by KfW (German development bank).

At the Regional Economic Services (SER), part of the French Ministry of Economy and Finance's international network, she is responsible for establishing and managing a portfolio of relationships and partnerships with government and industry; monitoring and analysing sectoral policies, industry trends and their impact. She contributes to identifying and organizing high level meetings, summits and coordinating with other French public institutions in India.



Mr. Raghu Rao

*Make in India Project
Leader, Decathlon*

Mr. Raghu Rao has been working with Decathlon for more than 20 years. He has worked at various strategic positions in manufacturing and brand operations for Decathlon in India and South East Asia. He holds a degree in engineering (Electronics and Communication) and a master's degree in strategic marketing from Australia. He is an avid leisure cyclist.



Mr. Jean-Luc di Paola-Galloni

*Group Corporate Vice-
President, Sustainable
Development & External
Affairs Valeo*

Mr. Jean-Luc di Paola- Galloni joined Valeo in 2007 as CEO's delegate and member of the Executive Committee, before becoming Group Corporate VP in charge of Sustainable Development and External Affairs in 2010.

Serving as Operational Vice-Chairman since 2009 for the European Road Transport Research Advisory Council (ERTRAC), the main automotive technology platform on collaborative research of the EU Commission, Jean-Luc is also a member of the Board of its cPPP European Green Vehicle Initiative (EGVI).

In 2018 he was elected President of Artemis-IA, the European association representing the embedded systems industry within the EU Joint Technology Initiative on Electronic Components and Systems (ECSEL), for which he is currently the Chairman of the Private Members Board.(5bn€ of funded projects /7year Framework program)

Jean-Luc was previously advisor to the CEO of Gaz de France (2002 - 2004) and has research experience in the field of defense, international relations and strategic affairs since he has been a scholar and researcher at the Olin Institute of Strategic Studies at Harvard University (Cambridge, Mass, USA), graduated from Ecole Normale Supérieure (Paris) and Institut des Hautes Etudes de Défense Nationale. (French War College)



Mr. Antoine HERTEMAN

President, AVERE

Graduated from the HEC Business School, Mr. Antoine Herteman spent his entire career in the Renault group alternating operational positions with strategic, disruptive and cross functional Projects.

His international operational background in the financing and in the sales and marketing enabled him to elaborate and implement new Projects in various fields such as service, and vehicles quality and reliability, low cost vehicles, distribution optimization, marketing and engineering complexity reduction, or breakthrough Electric Vehicles marketing and batteries management.

On November 3, he has been elected President of the French AVERE, association for the development of the electromobility.



Shri Abhijit Sarkar

*Independent Consultant,
Mott MacDonald Pvt Ltd.*

Shri Abhijit Sarkar is Independent Consultant, Mott MacDonald Pvt Ltd. His engagement with the Transportation sector is of over 22 years with lead roles in projects in India and abroad, including roll-out & operations-oversight of India's first gross cost model PPP city-wide bus service operating in National Capital Territory of Delhi.



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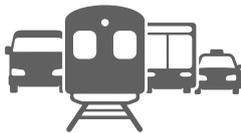
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EMERGING TRENDS IN URBAN MOBILITY

Urban mobility is witnessing rapid developments that are likely to change the way people travel in cities. Advances in technology such as the improved communication systems, developments in artificial intelligence, decreasing price of electric batteries, and emergence of hydrogen fuel have the potential to transform the kind of vehicles that may be used, the fuels that will power them and business models under which the vehicles will operate. Similarly, public policy concerns like the threat of climate change, concerns about air quality and energy security as well as the declining ability of public budgets to support the required investments are changing the paradigms relating to ownership and financing. There is increasing variety in the shared mobility options and a move towards cleaner fuels. There are paradigm changes in people's preference towards owning a ride instead of a motor vehicle. There is growing discussion around innovative options for financing and widening the net beyond users to include all beneficiaries.

Given the trends noticed, the session will discuss choices before public policy in terms of either embracing the changes or rejecting them. It will also discuss ways in which the changes can be ushered in or restrained and its implications on the future.



EMERGING TRENDS IN MASS TRANSIT SYSTEMS

Mass Transit Systems are the lifeline of cities transporting millions of commuters daily. Over the past few years the urban mobility eco-system has transformed with advent of shared mobility, micro-mobility, on demand mobility etc. In an ever-changing environment, transit agencies across the globe are constantly evolving innovative solutions to meet the challenge of growing urban mobility needs and at the same time make systems more sustainable, safe, inclusive and affordable.

Some of the areas being critically looked at by transit agencies are governance models, new revenue sources through land value capture, indigenization and standardization of assets, increased use of smart and intelligent technologies, data driven decision making, mobility as a service etc. The focus being to provide seamless integrated travel and an enhanced customer experience.

This session will focus on the emerging trends in mass transit systems broadly covering cost containment, operational efficiency, new revenue sources, governance frameworks, leveraging technology, digital payments, customer experience etc.



CHALLENGES FACED BY CITY BUS SERVICES AND ROADMAP FOR ITS EXPANSION

India is a vast country extending over an area of 3.29 million sq.kms. Given its vast area and huge population and a wide network of roads, there is an immense need for increasing the supply of public transport infrastructure and also to strengthen the existing public transport modes and services. A good public transport system promotes mobility & reduce social isolation of the people living in the remotest villages, propel the engine of national economy, overcome pollution, congestion & road accidents, and integrate our vast country.

Though buses are the mainstay of Public transport in India's cities, service quality, ridership growth and decongestion of roads however has not followed the trajectory as envisaged. Cities authorities and operators shoulder unenviable responsibilities with regulatory and institutional constraints.

To address the City Bus Services many complex, interrelated transportation challenges, various recommendations have been made, however the sustainability of these essential service are still a conundrum. To execute on the forward-looking vision set forth, the City Bus Service will need to build on common-sense funding sources to ensure the sustainability of our robust transportation system. Beyond funding, the Government must also establish flexible policies that foster innovation and bring economic growth to all City Bus Systems. From public-private collaboration in piloting new operational options to studying the future impact of these adoptions, City Bus System must continue seeking creative means to bring about the next generation in transportation.



POST COVID MOBILITY: THE ROLE OF WALKING AND BICYCLING

The positive role of walk and cycle - as a component of urban mobility - on energy consumption and pollution is well known and widely accepted. Many cities are in the process of promoting these modes by creating dedicated and safe infrastructure. POST COVID, however the role and volume of these modes will further increase. COVID guidelines render 'social distancing' as a pre-requisite for prevention of the spread of infection. This entailed substantial drop in the carrying capacity of public transport forcing a shift to personal modes i.e. cars, 2-wheelers, walk and cycle. Cycling provides the additional advantage of automatic 'social distancing'. Furthermore the need for 'social distancing' has added a new dimension to planning of infrastructure where more space will need to be provided.

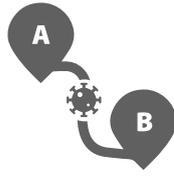


FRAMEWORK FOR TRANSITIONING TO ELECTRIC BUSES

Electric buses have the potential to reduce green-house gas emissions and have an important role in the larger goal of mitigating pollution in Indian cities. With a view to faster transitioning from fossil fuel to electric, the Govt. of India (GoI) launched the Faster Adoption and Manufacturing of Hybrid & Electric Vehicles (FAME-India) Scheme which has created a major policy discourse on electric mobility . In Phase II of FAME Scheme, GOI has committed an outlay of Rs. 10,000 crores in form of demand incentives for buses, passenger cars, three wheelers and two wheelers. Other initiatives for EV adoption include reduction in GST, sale of electricity as service, enhancement of custom duty, exemption of permits etc.

However, the transitioning to electric buses has at best been slow and not reached a scale that would positively impact pollution levels. Global studies on the subject, have classified the major challenges faced in wider adoption of electric buses under three broad groupings namely, financial, technological and institutional. Cities are grappling with understanding different technologies relating to electric buses, batteries and charging infrastructure; deciding on procurement and contracting strategies; and sustainable business models among other issues.

The session aims to understand the barriers to electric bus adoption in India and under each of the broad groupings: financial, technological and institutional and discuss the challenges associated with various elements comprising the Electric Bus eco-system such as charging and grid infrastructure, batteries and vehicles, preparedness of owners and operators etc. The speakers/presenters will discuss the barriers and outline concrete steps to overcome the barriers and scale up substantially the transitioning to electric buses for public transport in Indian cities in a sustainable manner.



ROADMAP FOR SUSTAINABLE MOBILITY DURING COVID SCENARIO

The COVID pandemic has had a major impact on urban mobility. For several months public transport systems had to remain shut down. This had serious consequences on their finances as they had to incur nearly 50% of their normal expenses, but had no earnings. The cumulative impact of this will be difficult to overcome in the short run, especially as public budgets are faced with competing claims from other COVID related relief and rehabilitation demands. Even after the restoration of services, people travel patterns will be different, for two reasons:

1. Many organizations have taken decisions to permit their staff to work from home more liberally – this will reduce the average number of trips that people make and thereby the travel demand
2. Many citizens have experienced the convenience of making purchases online and so the number of trips for shopping will also come down
3. Recreation and other entertainment centers are observing a significantly lower demand as fears of being infected will reduce travel demand and also the preferred mode of travel, with reduced demand on sustainable / shared mobility systems like public transport and para-transit
4. The compulsions of social distancing will restrict the number of passengers that public transport systems can carry, thereby adversely impacting their finances even further

The session will discuss the likely impacts and the changes in travel patterns, with a view to assess what public policy can do the deal with it.



FRANCE COUNTRY SESSION

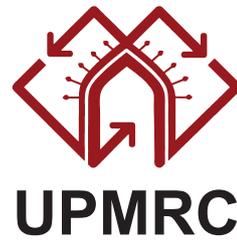
India and France has a prosperous partnership in the sector of urban development which has resulted in numerous exchanges and technical cooperation over the years. The French institutes and many French companies are participating actively in various government programs and working towards urban mobility solutions.

The France Country session on the theme of “Commit to a greener mobility” emphasis on mobility challenges in times of Covid, emerging technologies and trends, adoption of e-mobility solutions and sustainable planning infrastructure to accompany the transition. The seminar will comprise two focused panel sessions: (1) Public policies and new technologies supporting more virtuous models and (2) New Strategies and Industrial Partnerships in Mobility Industry.

Indian Government is embracing green, intelligent and accessible mobility solutions to manage India’s demographic shift to cities while accommodating the mobility needs of the growing population. In view of this, the seminar provides a significant platform to elicit stakeholder’s views and promote solutions to the important audience of Indian decision makers and listen to their views & perspectives.

The deliberations will provide an interactive platform to share the French expertise and best practices.

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A blurred image of a train in motion, primarily green with yellow and red accents, moving from left to right. The background is a warm, orange-toned sky. The word "ADVERTISEMENTS" is centered in white, bold, uppercase letters.

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- ⊖ Seamless and shorter routes provided across all corridors through **28 interchange stations**
- ⊖ First Metro Rail & Rail based system in the world to **get carbon Credits by the United Nations for reducing Green House Gas Emissions**
- ⊖ Around 35% of DMRC's daily energy requirement is met from **renewable energy i.e. solar & waste recycling**

As on October 2020

*including Rapid Metro corridor in Gurugram & Aqua Line corridor in Greater Noida which are operated under the supervision of DMRC.



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Curator Service available from Tuesday to Sunday (10:00 am to 4:00 pm)



DELHI METRO





Namma Metro

The Phase-1 of Bangalore Metro Rail Project has an operational network of 42.3 Kms, of which 33 Kms is on elevated viaduct and 8.82 Kms of underground section, with 40 stations and two depots, is setup at a total cost of ₹ 13,800 Crores. Opened in stages, the Phase-1 of the Project was Dedicated to the Nation by Shri Pranab Mukherjee, President of India on 17th June 2017.

The Phase-2 of Namma Metro, with extensions to Phase-1 and Two New lines with a total length of 72.095 Kms, consisting of 61 stations is at an estimated cost of ₹ 30,695 Crores. The works of Phase-2 are in progress and completion are in different stages from 2020 to 2024.

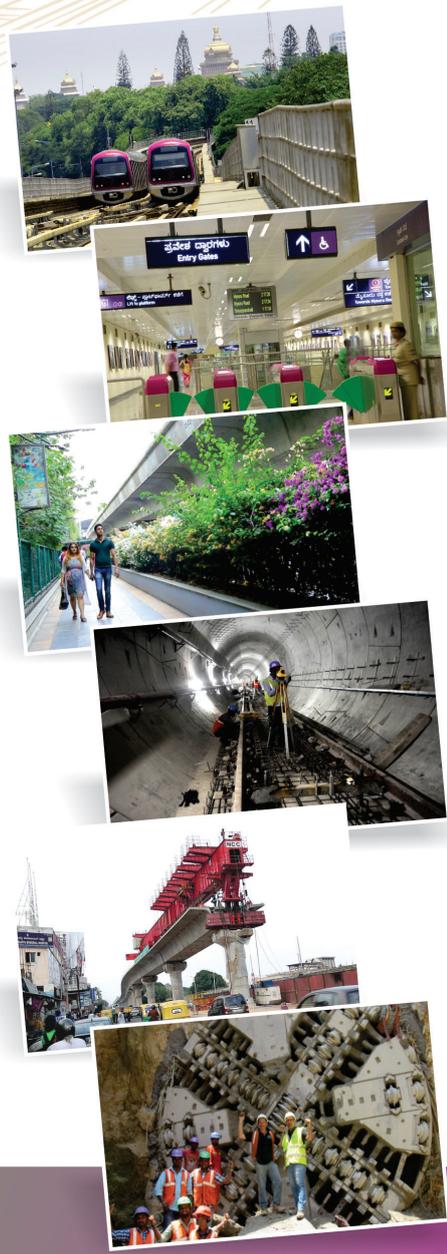
New Projects: Phase-2A and 2B Approved Network:

The State Government has approved 18 Kms MetroLine on the Outer Ring Road (ORR) from Central Silk Board (CSB) junction to K.R. Puram (Phase 2A) at a cost of ₹ 5,995 Crores and 38 Kms Metro Line from KR Puram to Kempegowda International Airport (Phase-2B) at a cost of ₹ 10,584 Crores. The IT companies on this corridor account for more than 12 % of India's IT export.

Phase-3 Network at planning stage:

Pre-feasibility studies for 7 new lines with total length of about 83 Kms have been taken up for Phase-3 of the project which connects Phase-1 & Phase-2 lines passing along the Outer Ring Road, new lines on Magadi Road, extensions of lines to Phase-2 and new line from Nagawara to Aerospace park.

Bangalore Metro Rail Corporation Limited
 (A Joint Venture of Government of India and Government of Karnataka)
 BMTCL Complex, 3rd Floor, K.H. Road, Shanthinagar, Bengaluru 560027
 Tel: 080-22969300 / 301, Fax: 080-22969222 | email: bmrci@dataone.in | www.bmrc.co.in
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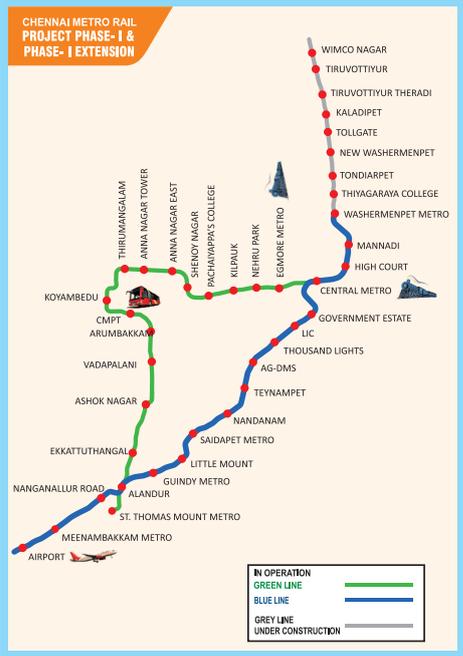




Reach landmarks of Chennai safely with Chennai Metro Rail



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Facilities and Services in Metro Stations and Trains

- Passengers can book tickets and buy passes of their choice (Single Journey Ticket, Round Journey ticket, Trip Passes) in the form of QR codes through CMRL mobile app
- Travel Card Reader has been placed at all Metro Stations to avoid queuing at Ticket Counter
- Travel Cards are available at all Metro Rail stations for Seamless Travel
- Woman Only Coach with Lower Hand Grip
- Travelator Facility from Chennai Domestic and International Terminals to reach Airport Metro Rail Station

Safety Measures undertaken by CMRL

- Face masks are mandatory at all times in CMRL premises
- Thermal Scanning of all Passengers at Entry level of all Metro Stations
- Social distancing is also monitored through CCTV at all stations and inside trains
- Foot press / contactless dispenser with hand sanitizer has been arranged at the entry for all passengers

Contact-less Usage:

- Foot-operated lifts mechanism has been installed in all 32 Metro Stations
 - Foot Operated Buttons to the Water Taps in all 190 Restrooms at all 32 Metro Stations
- First Indian Metro to venture into micro-plasma oxidation system to produce aqueous stabilized ozone for sustainable water disinfectant. This technology is currently used in high-end defence and medical applications
 - Passengers are encouraged to use AarogyaSetu App at the time of entry into the station

Ongoing Chennai Metro Rail Projects

Extension of the Phase-I from Washermenpet to Tiruvottiyur / Wimco Nagar covering 9.051 km expected to be completed in the end of January, 2021



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Connecting The Unconnected



51

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| <p>1 The underground Metro corridor will connect South Mumbai with the Northern suburbs</p> | <p>2 Commuting time, just a little over one hour</p> | <p>3 Each train to ferry more than 2,500 commuters and more than 17 lakh commuters daily by 2031</p> |
| <p>4 Will reduce congestion on suburban railways by more than 15%</p> | <p>5 Platform screen doors, emergency evacuation facility and 24x7 CCTV surveillance at every station</p> | <p>6 Seamless integration with other metro routes, suburban rail, monorail and bus services</p> |
| <p>7 Easy access to number of educational institutions, hospitals, religious places and recreational facilities</p> | <p>8 Connectivity with major business and employment centres</p> | <p>9 Employment generation: More than 15,000 jobs during construction and more than 2,000 jobs after construction</p> |



Uttar Pradesh Metro Rail Corporation Ltd.






UP Metro: साकार होते सपने

Lucknow Metro has become the city's pride by providing a safe, secure, fast, affordable, convenient, eco-friendly & ultra-modern Mass Rapid Transit System.



Salient features of Lucknow Metro project:

- The fastest constructed Metro Rail Project in the country in a time span of less than 4.5 years and within budget
- Lucknow Metro has a network of 21 Metro stations comprising 17 Elevated and 4 Underground stations covering a stretch of 22.878 km
- Distinction for starting commercial operations for public on the 8.5 km 'Priority Corridor' from 'Transport Nagar to Charbagh' on 5th September, 2017 in less than 3 years
- With the commencement of revenue services on 8th March, 2019 for the entire 'North-South' Corridor (Phase 1A) from 'CCS Airport to Munshipulia', Lucknow Metro has set a new benchmark among all the Metro projects across the country by achieving the landmark 36 days before the target date
- Provides state-of-the art, modern, world class facilities and infrastructure
- Ensures that its metro operations are environmentally sustainable, viable and eco-friendly in line with its vision of 'Green Metro-Clean Metro'



Kanpur & Agra Metro Project:

- Civil construction of Kanpur Metro project's 9 km long 'Priority Corridor' is progressing at fast pace for targeted ROD in January 2022
- First time in country, Kanpur Metro project used first pre-casted double T-Girder for station concourse
- First U Girder has been erected in record 8.5 months of beginning of construction work in Nov 2019.
- Combined tender of Rolling Stock and Signalling for Kanpur and Agra project awarded in most competitive rates
- The Agra Metro's 'Priority Corridor of around 6 km. is expected to be completed by December 2022



Uttar Pradesh Metro Rail Corporation Ltd.

(Formerly Known as Lucknow Metro Rail Corporation Ltd.)
(A Joint Venture of Govt. of India & Govt. of U.P.)
 Administrative Building, Near Dr. Bhimrao Ambedkar Samajik Parivartan Sthal
 Vipin Khand, Gomti Nagar, Lucknow 226010

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Sh. Ashok Gehlot
Hon'ble Chief Minister, Rajasthan



सत्यमेव जयते

Government of Rajasthan



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