



75  
आज़ादी का  
अमृत महोत्सव

GOVERNMENT OF INDIA  
MINISTRY OF HOUSING AND URBAN AFFAIRS

स्वच्छ  
भारत  
एक कदम स्वच्छता की ओर

# 15<sup>th</sup> Urban Mobility India Conference & Expo 2022

Azadi@75 – Sustainable Aatmanirbhar Urban Mobility | Saturday, 5th November 2022 | Grand Hyatt, Kochi

## Gender Inclusive Transport

Poojaa Nair

In this era of subsequent need for ensuring Gender Equity, discussing the strategies for implementing Gender Mobility Transport stands out. “Women have to feel more safe in using public transport, therefore we are ensuring certain availability like a disaggregated ticketing system etc”, said Dipti Mahapatro, General Manager at Capital Region Urban Transport (CRUT) and Officer on Special Duty, Odisha State Road Transport Corporation (OSRTC). The Karnataka government with busy streets is planning to extend gender mobility in public transport.

The moderator of the session Ms. Krishna Desai (Technical Advisor, GIZ). The keynote address was performed by Ms. V. Manjula - Commissioner in Directorate of Urban Land Transport (DULT), gave an outline idea of how the Karnataka government is planning to extend gender mobility in public transport. The presentations on emphasising the need for Integrated gender mobility were initially produced by Ms. Dipti Mahapatro.

Different roles carried out by women while traveling in public transport and certain

necessary measures for gender mobility were also depicted. Ms Priya Singh, Cofounder and Director of ‘Chalo Mobility’, Gender and M&E Expert and Team Lead at the Gender and Policy Lab in Chennai, presented data facts collected by the World Bank on gender equity in the job sector. The necessity of updating harassment laws in Chennai was also pointed out. The final presentation was produced by Dr. Kalpana Vishwanath, Co-Founder and CEO of ‘Safetipin’ organization, in which discussion concerning the implementation of Delhi Metro Safety Mapping were done.

“Gender mobility is not just surrounded by women’s economic independence, rather it becomes a societal issue”, says Priya Singh. Practical strategies for ensuring Gender mobility throughout different states in India were the focus of this session.

## MIKA is here to help you

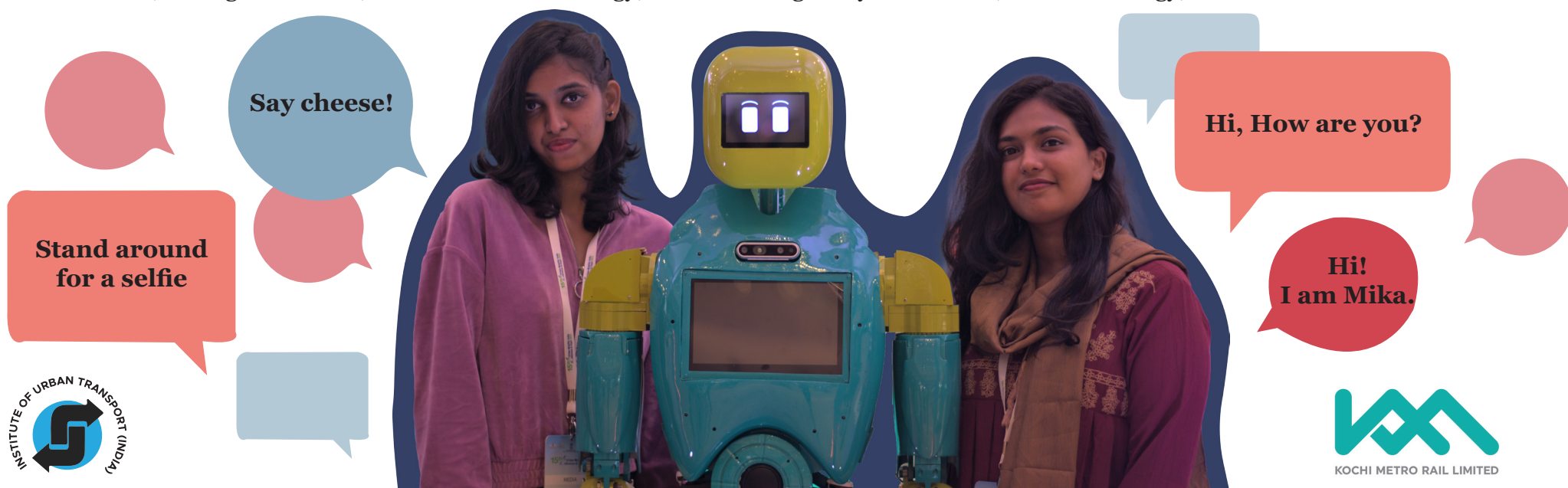
Santhra Nimesh

Have you ever thought of a robot assisting passengers in a metro station. The dream is not too far as the Kochi Metro Rail Limited (KMRL) is planning to deploy “Mika the Robo” robots in its stations to assist passengers and for crowd management. “Mika will greet passengers arriving the metro stations, manage the crowd, and collect

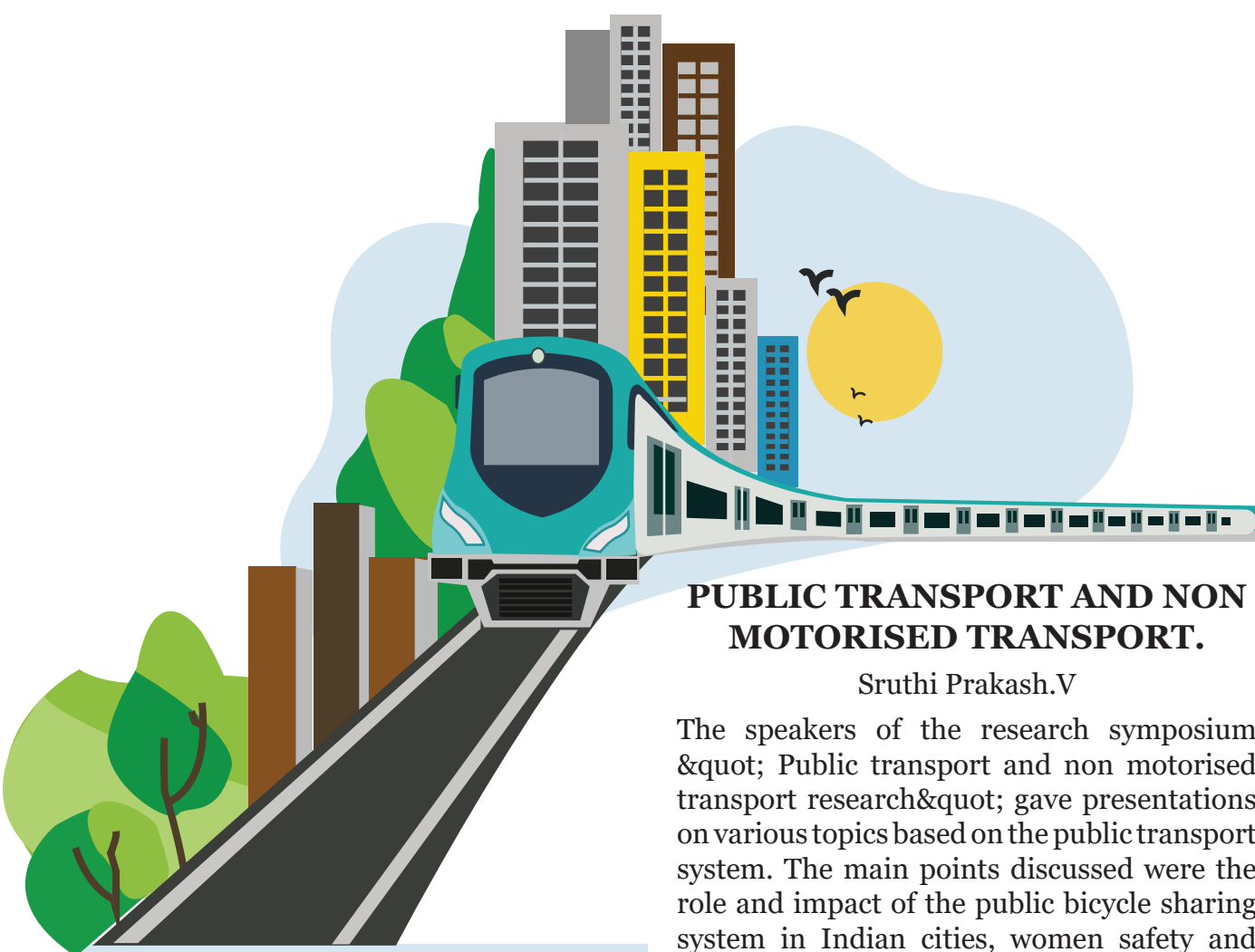
grievances from the commuters and answer the basic queries and issue tickets” says Govind, a student from FISAT. The robots will communicate both in English and in Malayalam.

The project is implemented with the support of Federal Institute of Science and Technology, (FISAT) Angamaly. Jose Ben,

Govind S Warriar, Rohit George, Sanjay Jhony are the students who have come up with the idea. They completed the work under the guidance of Dr. Bijoy Varghese and Dr. Mahesh. The Centre of Excellence in Robotics (CER) in FISAT, designs and develops the robots with support from the Indian Institute of Technology, Mumbai.







## Electric and Clean urban mobility

A. S. Shehrin

The research symposium on ‘Electric and clean urban mobility’ commenced with four paper presentations concerned with electric vehicles purchase behaviour and challenges in India as well as the global demography. Prof. Ashish Verma, Professor and convenor, IISc Sustainable Transportation Tab, IISc Bangalore, chaired the session. The research papers of the four esteemed delegates were engrossed around the major cities of India, namely, Hyderabad, Jaipur and Lucknow. The presenters were Mallikarjun Patil, Mahima Soni, Furqan A Bhat and Piyush Saxena. The conclave included the importance and challenges of adopting electric vehicles, policy implications and purchase behaviour. Specific locus points of research were the lack of charging infrastructure, limitations due to price hike and environmental concerns.



## PUBLIC TRANSPORT AND NON MOTORISED TRANSPORT.

Sruthi Prakash.V

The speakers of the research symposium ‘Public transport and non motorised transport research’ gave presentations on various topics based on the public transport system. The main points discussed were the role and impact of the public bicycle sharing system in Indian cities, women safety and public transportation, and road congestion. The presenters also pointed out the lack of adequate crosswalk facilities especially in the cities of developing countries, absence of sufficient traffic signals, absence of CCTV etc. The research analyst, Mr. Krishna Khanna delivered his talk on ‘Public Transport demand- supply gap assessment tool’. Nidhi Piludaria, Lakshmi. R, Ravi kanth, Manaswinee Kar also spoke.

**“To clean our air, we have to improve our public transport system”**  
**Mr Krishna Khanna, Research Analyst, CEEW.**



## Sustainable Transport Planning

Kripa VK

The symposium on Sustainable Transport Planning program was chaired by Prof. Vinay Maitri, Former Dean and Professor of Planning, School of Planning and Architecture (SPA), New Delhi. There were four research paper presentations on topics like ‘Ariel ropeway as a mode of urban transportation’. The researcher stated that the cable cars and ropeways are usually seen as tourist transport in hill stations and he enlightened the audience on how ropeways could be a less space consuming, urban and sustainable means of transport in sectors other than tourism. Other studies presentations were ‘Two-wheeler usage behavior as the most popular mode of transportation’, ‘Travel Behavior of women in Delhi during and before the pandemic’. The latter researcher pointed out the existing gender inequality in transport. Finally, Ashish Verma presented his research on Gender inclusive mobility where he discussed the different transportation needed due to difference in their daily activities and patterns as the associated factors.



## URBAN TRANSPORT GOVERNANCE

Shifa S

The research symposium on Urban Transport Governance, moderated by Prof. P K Sarkar (Vice President, IUT and Retired professor, school of planning and architecture, Delhi), included paper presentations by Almas Siddique, Aditya Manish Pitale, Rohit Singh Nitwal, Ayushi Shah and Minal Shetty. Ms. Almas Siddique exhibited the case study on ‘India’s Urban governance reforms and its impact on transport sector’, which included the implementation of Smart City Mission (SCM) that focuses on addressing the challenges of urbanisation. Aditya Manish Pitale presented on ‘Disparity in connectivity of multiple unit trains in the national capital region’, that discusses on Industrialisation, Urbanisation and Unbalanced development. Rohit Singh Nitwal established the relevance of seventeen goals for sustainable transportation, while, Ayushi Shah presented on ‘Sustainable mobility’, mentioned policies for pricing taxation and incentives. The final paper by Minal shetty included Impact of parking, pricing and regulations on user behaviour. The key area covered under these presentations revolves around the Urban Transport governances and its significance.



**Auto smiles:  
Delegates  
posing in the  
E-Auto of  
KMRL.**





Integrating Urban and Transport Planning as a statutory process

Sreelakshmi P Rajan

The session was chaired by Soumitri Das (Project management specialist) who gave a cordial welcome to all the honorary speakers. He outlined the plans for low-emission zones and focused on the essential elements for India’s rapid urbanisation. Later Martin Lutz, (Head of Air Quality Management, Berlin, for Environment, Mobility, Consumer and Climate Protection) presented the tactics and procedures used in Berlin for low emission zone and also discussed the weaker areas that contributed to the severe air pollution. Additionally he offered numerous solutions to reduce them which subsequently promotes a healthy and fruitful living. “If the air pollution is mitigated then the life here would be more cleaner”, said Saumitri Das. This was followed by a talk session by Surbhi Kureel, Associate Director , IPE Global, who gave a brief idea on air pollution mitigation in India for improving air quality and health.The session was intended to reduce air Pollution which was conveyed successfully.



Smart Mobility Solutions and Mobility as a Service (MaaS)

Gopika B

The world of transport and mobility is evolving along with the access to digital systems providing insights and efficiencies not previously available. A session was conducted on the topic smart Mobility Solutions and Mobility as a Service (MaaS) under the Chairmanship of Mr.Abhijith Sen Gupta, Director India (Asia Pacific Smart Card Association). Mr. Sujith Nayar (CEO and CO-Founder Beckn Foundation, Mr. Shailendra Kaushik (Co-Founder, Cities Forum), Ms Hadar Weinberger ( Head of product at EV-Edge), Mr Kishore Nathani ( Principal Advisor, UMTC, Mr.Reji Nair, Senior Director STQC) and G.P Hari (Special Officer, Kochi Metropolitan Transport Authority) were the panelists. The speakers discussed about (MaaS) project understanding on the backdrop of their knowledge on the project implementation as they have conducted multiple stakeholders consultation with transport authorities globally. MaaS is an inclusive platform, where it will help smart cities become a reality.



Sustainable PPP on Bus Transport

Gayathri Gokul

The session on “Sustainable PPP on bus transport “ moderated by Dr. Surendra Kumar Bagde, discussed the many advantages and disadvantages of PPP (Public-Private Partnership) including the regulations, training, the technologies and the importance of having services according to the needs of the customers and the workers in the sector. The speakers comprised of Mr. Biju Prabhakar IAS ( MD, KSRTC), Mr. Arun Bothara ( Transport Commissioner, Govt of Odisha), Mr. Prasanna Patwardhan (CMD, BOCI), Mr. C.K Goyal (Senior Vice President DIMTS), Mr. Gerald Ollivier (The World Bank) and Mr. Madhav Pai (Executive Director, WRI India). The legacy challenges discussed the old regulations of the Road Transport Corporations Act of 1950, and how it needs to be amended according to the passing time, the lack of trained operators in the system and the quality of the buses. The session concluded on the note to discuss all the negatives and the positive aspects of implementing the PPP in India.



Strengthening the ecosystem to accelerate shift to public transport

Kripa V K

The last session of the second day was a panel discussion on ‘Strengthening the ecosystem to accelerate shift to public transport’. The session was chaired by Dr. O. P Agarwal, Former OSD (UT), MoUD and DG, IUT. The main theme was the question whether building these systems are enough or is there anything else to be done to accelerate the usage of public transport. Mr. Thierry Desclor,Director of Projects, CEREMA, crecommended that municipalities should try to make things easier for the passengers for boosting the public transport usage.



Gatishakti Master plan

Lakshmi K.C

A session on Gatishakti master plan was conducted by Mr Anurag Jain IAS: secretary- Ministry of Commerce and Industry Department for Promotion Industry and Internal Trade,Government Of India .The other esteemed delegates where Dr. Jivisha Joshi Gangopadhyay, Mr Kaizar Dev Barman,Prof. Shivanand Swamy, Dr. Pawan Kumar,Mr Iftikhar Ahmad Hakim. The focuss points discussed were technology integration, creating land acquisition, agglomeration economies, logistical policy, lack of visibility and information & PAN India GIS based digital platform - national master plan. “Gatishakti is an ocean we are trying to search”, said Prof. Shivanand Swamy. In order to implement the Gatishakti initiative,Indian Railways has created a separate directorate at the Railway Board with its branches at Bilaspur, Delhi and Bengaluru divisions. Indian railways has identified 74 ‘Gatishakti Multi-Modal Cargo Terminals’ across the country. Moreover PM Gatishakti is a transformative approach for economic growth and sustainable development.

Realising the Potential of Transit oriented development in India

Unnimaya S and Santhra Nimesh

The session was chaired by Mr Sharad Saxena, Principal transport specialist, Asian Development Bank(ADB). “The need for transit oriented development is essential” says Sharad Saxena. Abhay Kantak, one of the panelists who is planning to implement a new project on Regional Rapid Transit System (RTS) Corridors says “Land value capture is to finance transit oriented development but unfortunately its not happening”. Abhay Kantak. V. Manjula, Mukut Sharma, Anil Kumar Kokate, Amit Sharma, Norio Saito were the other presenters on this session.





# Switching to Electric

Nimeesha Rochelle



The third round table session of the day discussed the need for supporting collaborations between the public sector and the private sector to promote switching to electric vehicles, especially EV city buses. Ms Priya Singh, Co founder and Director at ‘Chalo’ gave the welcome address and introduced the session chair: Mr Anurag Jain, IAS, Secretary - Ministry of Commerce and Industry Department for Promotion of Industry and Internal Trade, Government of India and the panel of speakers: Mr. Biju Prabhakar, IAS, Transport Secretary, Kerala Government, Mr. Radhakrishnan B, IAS: Municipal Commissioner, Nagpur, Mr. Arun Bothra, IPS: Transport Commissioner, CRUT



Government of Odisha, Mr. Rahul Yadav, IAS, Municipal Commissioner, Jammu, Mr. Sandeep Soni, CEO, UDA Ujjain, Madhya Pradesh, Ms. Mahua Acharya, CEO and MD – CESL and Mr. Manuj Goyal, IAS, Commissioner, Municipal Corporation Dehradun. The session was moderated by : Ms. Vaidhehi Ravindran, Partner, Lightrock India. Mr Anurag Jain delved into the areas of interest where he expects the discussion to explore. It involved financing, viability and quality of service, freedom of bus operators and allocation of routes, optimisation of charging infrastructure for electric vehicles and setting up a standardised battery



charging. Mr Sandeep Soni then took over the stage with his presentation on the topic: ‘Collaboration between Government and Technology Start ups’. He stressed on the execution of plans between the public sector and private companies. With AICTSL as an example, he explained how innovative models in transport provide more profit by reducing the gap between cost of production and earnings. The round table discussion involved combating the loss in State transport functioning, retrofitting the existing buses to EV buses, risks of investing capital and assurance of working, the digitisation of contracts and so on.

## BEYOND THE SESSIONS



The cultural fiesta for the delegates

