



15th Urban Mobility India Conference & Expo 2022

Azadi@75 – Sustainable Aatmanirbhar Urban Mobility | Monday, 7th November 2022 | Grand Hyatt, Kochi

THE GRAND ENDING FOR UMI 2022

Gayathri Gokul and Kripa VK



The curtain down of the 15th Urban Mobility India Conference and Expo 2022 was held in the presence of various dignitaries. The chief guest of the evening, Honourable Governor of Kerala, Shri. Arif Mohammad Khan, put light on the eventful three-day conference's valedictory function. "Sustainable development will only be achieved when our ideas become truly inclusive," remarked the Governor. He stressed on the fact that only when the idea of mobility is truly inclusive, does the design, implementation, efficiency and the quality be fruitful.

Adv. Antony Raju, Honourable Minister for transport, Govt of Kerala, addressed the several projects made by the centre and the state for the promotion of public transport. "As a part of this, KSRTC initiated 'Grama Vandi', for which the diesels are sponsored by the Local Self Governments. And the city circular services were designed similar to major metros' buses bagged awards from the centre." The AI based camera surveillance by the MVD, the check-post module for a hassle-free movement, and the subsidies for E-autos and charging stations have been highlighted in the event.

Dr. V P Joy, Chief Secretary, Govt. of Kerala, addressed the three-day long event and its impact in shaping the transport for tomorrow and the importance of integration of urban transport. He added, "to develop the most modern transportation system, technology is key." He remarked on the event being a landmark on the landscape of Kochi.

Various awards to many cities in different categories for their transportation facilities as well as awards the researchers for their pa-

pers were distributed. The city with the most sustainable transport system was bagged by Ahmedabad for the project 'Ahmedabad bus rapid transport system'. The city for the best public transport system was won by Navi Mumbai for Sustainable city bus initiatives. The complementary award for the same category was given to the Thiruvananthapuram city. The city with the best Non- Motorized Transport (NMT) was bagged by New Town, Kolkata for the public bicycle sharing initiative.

The city with the best intelligent transport system went to Chennai for the Chennai Bus app. The City with the most innovative financial mechanism was awarded to Bhopal for Bhopal City Link Ltd (BCLL). The city with the best green transport initiative was bagged by Indore for the Green mobility initiative. The city for the best multimodal integration (metro rail) was awarded to UP metro rail corporation for Lucknow. The recommendation for the same category was won by Delhi Azadpur Metro. The best metro rail for passenger service and satisfaction was bagged by Bangalore Metro rail corporation.

The awards for the best research paper were bagged by Farhan Khan, second place by Ubaid Ilahi and the third by Sara Alexander. Kochi Metro Rail Limited won the award for the best exhibition and Pay craft and MAHA metro shared the second position in the same category. The third place is also shared by IOCL and Delhi Metro.

The event also witnessed the launch of the 16th UMI conference and Expo 2023 at Delhi by Honourable Governor Arif Mohammed Khan and Shri. Kaushal Kishore, Honourable

Minister of State of Housing and urban affairs, Govt. of India.

The valedictory address by Shri. Kaushal Kishore, emphasized on the goal for the hundredth year of the country's independence which aims at the development of each and every sector of the society. The importance of working together for 'Ek Bharath Sresht Bharth and Swasth Bharath' was also mentioned.

Shri Biju Prabhakar, IAS, Principal Secretary (Transport), Govt. of Kerala, highlighted the various suggestions, resolutions and recommendations put forward for our cities to be developed and be sustainable.

Shri. Lokanath Behera, MD, KMRL, extended his gratitude to the foreign delegates for their care and support shown to our country. He stated, "In 2047, we will have a great and well-developed sustainable transport system, if we don't forget what we discussed here."

The honourable Governor of Kerala, Shri. Arif Mohammed Khan, visited the Expo and met many national and international delegates and was extremely delighted to witness the major innovations and possible advancements in urban transportation.

The vote of thanks was delivered by Shri. Jaideep, OSD (UT) and Ex-officio JS, MO-HUA, govt of India, who mentioned how the conference was a unique forum of networking with experts and exchanging of ideas. "The UMI 2022 focused on the critical challenge and key of possibilities in sustainable urban transport. The various meaningful suggestions and recommendations would be taken into consideration." The event flagged off with the national anthem.

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Public Transport: Betterment and Alternatives

Sruthy Prakash

The research symposium ‘Public Transport and NMT(non motorised transport)’ was chaired by Dr. Shalini Sinha, who is the Centre Head & Principal researcher, CoE-UT. The speakers gave presentations on various topics based on the public transport system. The main points discussed were the assessment of utilisation of foot over-bridges, post COVID-19 changes in the transport system, benefits of aerial ropeway transit etc.. The presenters also pointed out the lack of parking facilities in metro stations, lack of functional lifts and lighting facilities in foot over bridges etc. Akshya Paul, Dr. Sai Kiran Varma, Mahima Kanojia and Meghna Verma also spoke.



Technical session on Multimodal Integration MMI

Sreelakshmi P Rajan

The technical session chaired by Dr. Sanjeev Kumar Lohia, Sr Advisor explored the possibilities of MMI. ‘When you think about transportation you should think about MMI as well’, said the chair representatives from different Indian Metros attended the session. The moderator of the session Mr Anjum Parvez set out the idea that “when we think of expanding transportation, we should consider 3 wheeler and 4 wheeler users as well”.Then he explained few points about the 3 layers of Integration like Transportation, Infrastructure and Fare.Then Shalini Sinha proposed a Frameworks for accessing MMI for the Future.Later with the Q and A, the session proved to be interactive and fruitful.

Future Fuels

Gopika B

The major sources for fuel in our planet are non renewable and will end in the coming future.The increase in energy consumption in the recent decades has raised quite the fear of exhausting vital natural resources. With this scenario in consideration, a technical session on ‘Future Fuels’ was chaired by Mr Ravi Prakash, Director Urban Transport. Amith Bhatt,Managing Director ICCT,Dr Himani Jain,Senior Program Lead Mobility, Dr Sewa Ram, Head of Department School of Planning and Architecture,Ms Anumitha Roy Chowdhary, Executive Director ,Research and Advocacy, Prof Aravind Purushothaman Vellayani, Professor and Chair of Energy Conversion were the panel of experts who were present on the discussion.



Carrying on with the Vision : Urban mobility

Pooja Nair

The plenary session regarding vision on Urban Mobility covered all the essential measures and strategies to be expected in all over India by 2047. Mr. Manoj Joshi (Secretary, Ministry of Housing & Urban Affairs, Government of India) moderated the session by giving a general summary upon the topics discussed in three days consecutive sessions. Huge demand in the global market for an efficiently implemented transport sector is extending opportunities in moulding a developed nation. Remarkings on how a realistic transformation can be done interfacing with the metro necessities along with automation, competence and scales of production were listed. “The most important thing to look upon is bridging the gap between undertaken policy and its implementation”, stated Ms Anumita Roy Chowdhary (Executive Director Research and Advocacy, Centre for Science and Environment). Mr Abhishek Agarwal (Senior Specialist, Niti Aayog) emphasised the need for implementing more integrated transport in the city. The Atmanirbhar design of metro was announced by Mr Subhash Dhar (Senior Researcher, UNEP Copenhagen Climate Centre). “Nearly 20 lakh Electric buses would be developed by the target year of 2047”, says Ms. Sarika Chakravarty (Sr. Sector Coordinator,



Shelter & Transport, National Institute of Urban Affairs). Manpower, efficiency, short term and competence being challenging factors the government is planning effective ways to ensure mobility. “We can centralize the civilian structure to reduce the repeated design and another significant reminder is to reduce the cost production”, added Subhash Dhar. The Developing projects of ‘metro lite’ and ‘metro neo’ were exhibited to the viewers.

Common specifications for improving vehicular mobility were pointed out and emphasis on fair integration of technological developments were laid on. Momentos were also presented to all the dignitaries at the end of the session before passing onto the valedictory session. “Increasing need for public transport in the city through strategic master plans which would improve access to transport systems like practicing cost effective production are needed”, Ms. Sarika Chakravarty remarked.

Focus on E Mobility (PWC)

Unnimaya S

“The readiness of Indian cities to promote e-mobility is highly admirable” Prof.Shivanad Swami says. Promoting Budgetary provisions and the infrastructure charging that needs to be highly developed for building e-mobility was the session’s key goal. The discussion made it evident that there are many risks associated with the developments. The speakers pointed out that steps immediate measures must be taken to improve e-mobility in the country. Various capacity challenges, infrastructure charges, financial innovations, and technical issues were also covered in this session.



A virtual reality experience of Kochi Metro and Water Metro attracts the eyeballs of the visitors of the exhibition. XR Horizon, a Virtual Reality company, furnishes this on behalf of Kochi Metro Rail Limited . Using HMD (head mounted display) devices, otherwise called virtual reality boxes, you can experience a 360° environment of both the Kochi metro and the water metro as well as derive the experience of embarking a journey through the same. In the case of water metro, one may get to experience purchasing a ticket and punching

Traffic Engineering

Lakshmi K C

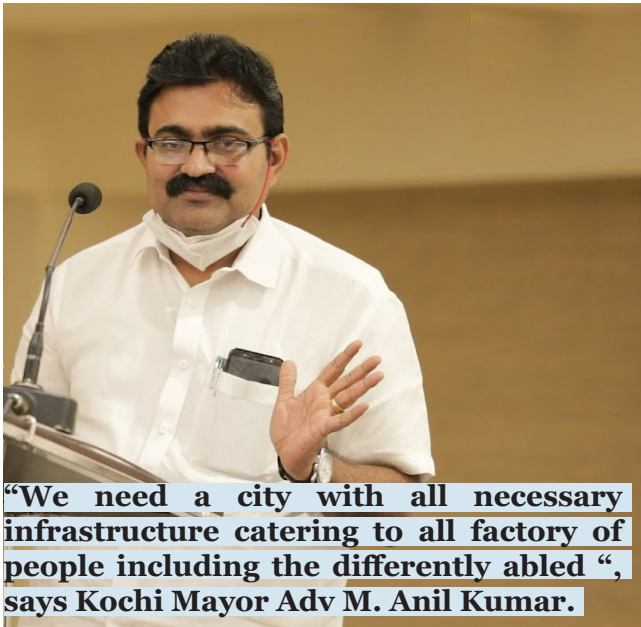
The 7th research symposium was chaired by Dr Sewa Ram, Head of Department School of Planning and Architecture (SPA), New Delhi. Presentations were done by Manan Monga, Manisha Biswal, Sujeet Sahoo and Subadha Nayak . The following points were discussed: the need for loads to increase in demand of transportation, MTW behaviour at signalised Intersection, Random forest model, SHAP Analysis, user tendency to choose three wheelers as one of pivotal para-transit modes in the urban, suburban as well as rural parts of the country. Indian traffic is recognised by its heterogeneity and non-lane base driving system. Growth in truck traffic was observed and hence Freight transport in India shows an exponential growth pattern.



Street for all (WRI)

Santhra Nimesh

The session was moderated by Dhawal Ashar and Aswasthy Dilip. The session aimed to gather ideas on making our roads pedestrian friendly. Biju Prabhakar IAS, KSRTC M.D., Om Prakash Mishra , Special Commissioner, Delhi Transport Department, Mr. Rishav Gupta IAS, CEO, Indoor Smart City Development Ltd and Indoor Municipal Additional Commissioner, Dharendra Khadgata IAS, Municipal Commissioner, Haryana, were the other speakers of the session.



A Virtual Walk In

Nimeesha Rochelle



it in to see the interior infrastructure as well as the outside view as seen from within. You can also exclusively explore the driver’s engine cabin. Similarly, in the case of Kochi metro, you get to virtually experience the journey from the ticket purchase to going onto the next station. A major reason for exhibiting the VR experience of water metro is that it is yet to be open to the public. The people visiting can get acquainted with experiencing it and hence it becomes more familiar with the public. “Beyond the simulation experienced, the real situation will be much more grandiose” Densil Antony, Chairman and CEO of XR Horizon.

Onto Things Smart and Sustainable

Nimeesha Rochelle

Envisioning a future model of urban freight transportation and operation, the 5th research symposium titled ‘Smart City, Smart Mobility and Sustainable Urban Freight’ was conducted. The session chaired by Dr Sanjay Gupta, Professor Transport Planning and Dean Research, School of Planning and

Architecture saw three paper presentations authored by research scholars and an invited talk by Mr Nilanshu Ghosh, Research Analyst, CEEW. Dr Gupta gave opening remarks on the current state of Freight Logistics in the nation and how urban freight is a neglected sector. The paper presentation covered relevant

areas such as the need for Freight Demand Models and transferability of the said models, correlation between Employment-Area and Freight production, Urban Freight intensity, barriers in EV adoption, advantages of ‘smart data’ over survey data, performance indicators based on user perspective.

Safety and Emission

Shifa S

The research symposium on Safety and Emission was moderated by Prof. Manoj M (IIT Delhi). The session included paper presentations by Nipun Choubey, Karthikeyan Baskar, Karthika P S and Siddharth Jain . The session began with the presentation of Nipun Choubey who spoke on ‘Detection of social groups in mass religious gathering’. The paper mainly discussed the social

connectedness and social behaviour on Mass gathering. Second paper by Karthikeyan Baskar exhibited the case study on ‘Spatial distribution pattern of pedestrian road accident in a south asian city, Chennai’. This included the victim and accusations of vehicle analysis. Third paper was presented by Karthika P S on ‘Behaviour of Socialism groups and pedestrian’. This study was on the policies to

improve pedestrian infrastructure. The final paper by Siddharth Jain discussed ‘Transport pollutant emission and their associated health impact on North indian region’, which mentioned the effect of increasing pollution and future forecast of carbon dioxide emission. The key area covered under these presentations revolves around the Safety, Emission and its significance.

BEYOND THE SESSIONS



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