



Session III

Technology Innovation for Bus Transport

The public transport sector must foster digital innovation and be bold in trying out innovative solutions. Digitalisation is not an issue for the future. It is already happening and the public transport sector needs to embrace it, to take advantage of the numerous opportunities it offers as well as preparing itself for its role in the future mobility market. For example, personal mobile devices, such as the smart phone, are and will remain key in terms of ticketing, journey planning and inter-modality. Further, the city should adopt open data policy and mobility as a service (MaaS) to increase acceptability of public transport.



SESSION III – Technology Innovation for Bus Transport

Chairperson – M Ramsekhar

Managing Director, DIMTS Limited

Time	Title
14:00 - 14:15	Opening Remark by Chairperson
14:15 – 14:30	iMove Project in Europe Guido Di Pasquale, Senior Manager, UITP Brussels
14:30 – 14:45	Emerging Trends in Digital Fare Collection in India – Sepcial focus on NCMC and UPI Manish Kumar, Head – IT, DIMTS Limited
14:45 – 15:00	Transforming the Ticketing Process Brijraj Vaghani, CEO, Ridlr India
15:00 - 15:15	Role of Data Analytics Luc van Wijngaarden, CEO, Zight B.V.
15:15 - 15:30	Questions & Answers



M Ramsekhar
Managing Director and CEO
DIMTS Limited

Welcome Address

1. BIOGRAPHICAL NOTE:



Mr. M. Ramsekhar is presently heading the DIMTS as Managing Director and CEO since August 2014. He was an IAS officer and was working as CEO of IPE Global Private Limited, a leading development consultancy firm. Prior to IPE, he was working as CEO of CRISIL Risk & Infrastructure Solutions and earlier to that he was with GVK Power & Infrastructure Ltd as its Chief Strategy Officer. During the two decades spent as a member of the Indian Administrative Service, he worked extensively in the areas of urban development, economic development, infrastructure, transport, Civil Aviation, Industries, Commercial Taxes, Agriculture etc intimately involved with policy design and implementation.

Mr. Ramsekhar is a development practitioner with 28 years of hands-on experience of leading large and complex organizations in the government, public sector, private sector, and in consulting. He had deep and abiding engagement with the entire life cycle activities across the urban and infrastructural development from policy to project development and implementation to providing consulting solutions.

Mr. Ramsekhar in his previous engagements led large and complex organizations, stabilized and grew businesses, helped strengthen reforms and improved governance. He has completed MPA (Infrastructure Finance and Regulation) from Columbia University in the City of New York and MPA (Public and Economic Policy, Urban Development) from the London School of Economics and Political Science (LSE).



Guido di Pasquale
Deputy Director - Research & Innovation
UITP Brussels
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iMove Project in Europe

1. BIOGRAPHICAL NOTE:



Guido holds an MSc in Electronic engineering with a background in mathematics, physics, electronics, telecommunications, automation, information technology and PMP® project management. He has more than 13 years of experience in the ICT industry as software engineer and project manager (Intelligent Transport Systems). In the past 8 years, he has been working in ITS responsible for design, project management and business development of telematics systems, ITS solutions for urban mobility, traveller information, integrated fare and ticketing systems and recently Mobility as a Service and Automated Road Transport. He was involved in the following EU funded projects: Mobinet, SmartCEM, EBSF2, ViajeoPlus, Co-gistics.

Currently, he is working in the UITP as Deputy Director for the Research and Innovation department and involved in ITxPT, GoF4R and AUTOPILOT projects.



Manish Kumar
Head – IT
DIMTS Limited

Emerging Trends in Digital Fare Collection in India – Sepcial focus on NCMC and UPI

1. BIOGRAPHICAL NOTE:



Manish Kumar is a Bachelor of Engineering graduate from Indian Institute of Technology (IIT), Roorkee, India. During his career of twenty three years, he has designed, developed, implemented and operated many transformational large scale global IT programs in leadership roles across technologies and business domains.

At DIMTS, Manish heads the information technology vertical that has developed, implemented and is operating technology solutions across urban public service vehicle tracking, electronic ticketing & fare collection, parking, tolling, smart common mobility cards, bus fleet management, e-governance, smart phone commuter applications and public transit data analytics.



Brijraj Vaghani
CEO
Ridlr India

Transforming the Ticketing Process

1. BIOGRAPHICAL NOTE:



A veteran techpreneur with extensive experience in the technology domain, Brijraj Vaghani is the Co-founder & CEO of Ridlr, a public transport information and ticketing service provider. At Ridlr, he plays a key role in devising the overall strategy and spearheading business development for the organisation.

An engineer by profession, Brijraj is a Master of Science (Electrical Engineering) from the University of Missouri. Having begun his career as a software engineer at Qualcomm in the US, he later went on and founded Birds Eye Systems Pvt. Ltd. in India.

In 2012, he created Ridlr, an app that was envisioned as a solution to the mindboggling public transport experience in India. The app which started off as an informational platform giving traffic information and train and bus schedules for Metro and Tier-I cities; today provides Mobile ticketing solutions to BEST in Mumbai and work is underway for DTC in Delhi. It also handles mobile ticketing for Mumbai Metro and Delhi Metro. Brijraj aims to make Ridlr, now part of Ola, the default commuter app.



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E-MOBILITY AND TECHNOLOGY INNOVATION



2. **ABSTRACT**

Public Transport in India constitutes the 3rd largest expenditure after household and education expenses; and within that, Buses represent a dominant portion of the public transport pie. Needless to say the services need to improve both in terms of quantity as well as quality with increased focus from the Government not only on shared mobility but also digitization.

Mobile ticketing is the future of digitization in public transport, not only in India but also internationally; and this revolution has just begun. Ridlr has pioneered on this front, with its solutions successfully implemented in Mumbai and Delhi. Notably, infrastructure in our country is much different from the west to simply copy the common mobility cards, and it needs a lot more customized solution to suit its existing infrastructure; given the kind of population that public transport systems handle.

With the ever increasing smartphone penetration in India, Mobile Ticketing addresses these concerns. The features designed by RIDLR are not just cost effective but also easy to expand across the country.



Luc van Wijngaarden
CEO
Zight B.V.

Role of Data Analytics

1. **BIOGRAPHICAL NOTE:**



Luc van Wijngaarden studied Operational Research at the University of Amsterdam. After his graduation, he started as a Business Development Consultant. In 2001 Luc joined Transdev-Connexion and enforced the Dutch national AFC-implementation team from the very beginning. When the AFC-system was introduced Luc was disappointed in the reports that came with the system. To fill this gap, Luc founded Zight: an international service provider that helps Operators and Authorities to monitor, analyse and optimize their Public Transport with data.

Since its foundation in 2009, Zight has worked for clients like DB Arriva, Veolia, Qbuzz Abellio, RET Rotterdam, the Dutch Railways, UITP, RATP, RTA Dubai and Albany (NY).