

Case Studies on Demand Oriented Public Transport Planning and Scheduling in India

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ABOUT THE TALK :

The quantity and quality needs of urban mobility systems have been evolving rapidly in Indian cities. Retaining and increasing public transport ridership in this context requires digitally driven, demand oriented and agile public transport systems. Service planning and scheduling are crucial to deliver public transport systems that are comparable to private vehicle usage. Public transport service planning and scheduling have received limited attention in research and practice in India. The talk presents case studies from Delhi, Bengaluru and Rajkot on the challenges with delivering practical route network redesign as well as integrated bus and crew scheduling strategies. The data analysis and findings can potentially inform other studies being carried out in the domain.

KSCSTE - National Transportation Planning and Research Centre (NATPAC)

NATPAC is a premier research institution under the Kerala State Council for Science, Technology and Environment (KSCSTE), spearheading transportation research, road safety, and sustainable development initiatives to mitigate traffic and transportation challenges in Kerala. The Centre's expertise encompasses urban planning, highway design, intelligent transportation systems, inland water transport, traffic congestion management, and road safety enhancement, complemented by regular training programs for stakeholders, including engineers, enforcement agencies, and other working professionals.

ABOUT THE SPEAKER :

Dr. Ravi Gadepalli is an independent consultant with the World Bank and the Asian Development Bank, working extensively on public transport improvement and electric mobility adoption across South Asia. He also leads Transit Intelligence, a consulting firm that supports public transport agencies with service planning, scheduling, and digitalisation. Dr. Ravi has provided technical guidance for the planning and procurement of over 10,000 electric buses across India and played a key role in mobilising more than USD 400 million through the World Bank for public transport enhancement and electrification in the region.

He was instrumental in pioneering governance reforms such as the Public Transport Service Contract (PTSC) in Chennai, which ensures the long-term sustainability of bus services. Ravi holds a Master's degree and a Ph.D. from the Indian Institute of Technology (IIT) Delhi and is a recent alumnus of the Chevening Research, Science and Innovation Program (CRISP) fellowship at the University of Oxford.