

DEVELOPMENT OF A SMART PUBLIC TRANSPORT SYSTEM IN INDIAN

CITIES: BASIC CONCEPTS

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ABSTRACT

The main objective of this study is to presents basic concepts for development of a smart public transport system in Indian cities. Public transport system is the back bone of urban life and socio-economic development of a city. However, most of the developing countries like in India, mismatch between demand and supply of public transport services results create various problems such as severe traffic congestion, increasing incidence of accidents, inadequate parking spaces, poor quality & inadequate infrastructures, urban sprawl and a rapidly increasing energy cost. These problems are triggered by interrelated trends such as rapid urban population growth and unplanned & uncoordinated growth of cities. Thus, with growing urbanization the government of India has now realized the need for developing smart cities in India that can cope with the challenges of urban living and also be magnets for investment in India. Smart public transport system is a key technology for development of smart cities which ensures increased efficiency, reduced costs and enhance quality of life. However, now a day's public transport system encounters distinctive challenges in planning, constructing, maintaining, and operating their services in urban areas. The most critical challenge confounding efforts to develop the smart public transport system in Indian cities is not the development of appropriate technologies although to tackle the difficulties in changing organizations and existing ways of working to use these new technologies to deliver the cities. Therefore, there is urgent need to increase emphasis on improved management and better utilization of existing public transport system. Hence, this study presents requirements for development of smart public transport system in Indian cities. This study also identifies basic concepts for development of such system in Indian cities. This study also highlights the need of comparative performance evaluation of public transport system from user perspective, operator perspective and city perspective. It is expected that this study will be useful for researcher to development of smart public transport system in Indian cities.

KEYWORDS: Smart Public Transport System, Comparative Performance Evaluation, User Perspective, Operator Perspective, City Perspective