

Report on Lecture on 'Smart City Solutions'

A Technical Presentation on, "Smart City Solutions" was organized by the IE(I), UP State Centre, Lucknow on 24 April 2016 at 10.00 am. The presentation was delivered by Er. Rajul Mehrotra, General Manager & Program Lead 100 Smarter Cities, IBM India, Bangalore alongwith Er. Sandeep Kumar, Country Manager, IBM India, New Delhi.

Chairman Er. Arvind Kr. Gupta, FIE and Hony. Secretary Er. Praveen Malhotra, FIE welcomed the Speakers by presenting them with bouquets followed by lighting of lamp by the distinguished dignitaries. Er. Apoorva Agha, FIE Convener, while introducing the theme, described the Smart City as a multidisciplinary ICT enablement and integration of EGovernance & Citizen Services, Water Management, Waste Management, Energy Management, Urban Mobility, Health Care Management and numerous Internet of Things (IoT) devices installed in the offices, homes and vehicles etc. onto a common network to achieve seamless operation by every citizen through his hand held device, such as, a mobile phone or through other such devices connect to the internet.



Er. Rajul Mehrotra giving power point presentation



A view of audience

In his presentation, Er. Rajul Mehrotra highlighted various features of a Smart City and briefly described each one of them. He opined that the huge urban migration to a few key economic center/cities is due to lack of jobs, basic infrastructure water/electricity/ sanitation/transportation, safety/security, education and basic health care facilities etc. in rural India. These urban economic centers/cities are already struggling to cater to basic needs of their residents and this huge migration is creating additional pressure on these economic centers/cities. Therefore, for a balanced rural development, government will have to take Smart Village initiative to develop villages on smarter cities concepts. While describing the smarter city concepts and solutions, Er. Mehrotra explained how cities can start with Smarter Solutions 2like Integrated City Command and Operations Centre to centrally monitor the health of key city functions and take coordinated actions.

Smarter Emergency/Disaster Management Solutions help cities to provide comprehensive situational and organizational awareness to effectively manage emergency and crisis situations. These solutions can also be provided during operational decision support for Inter agency and Task Force Communication, Mission Readiness, Collaboration, Coordination and Critical Information Sharing.

Smarter Water Management Solutions can be taken up by water authorities to get real time visibility of water supply in a city to ensure equitable water distribution. This will also help in improving network and asset management, metering, billing, leak detection (using hydraulic modeling), pressure management (using OR), NRW management, and demand management. Smarter Waste Management Solutions can be taken up for end to end planning, monitoring and efficient operation of waste management. Pan city waste management infrastructure and assets can

be mapped (key sites and locations, such as community/RWA collection points, infrastructure, personnel, as well as location of any citizen reported issues).

Smarter Transportation Solutions like Integrated Fare management (Single Fare Card) for hassle free journey by multiple modes of transportation. Smarter Traffic Management for improving overall traffic management, traffic prediction, improved traffic signaling based on congestion, traffic enforcement etc. Smarter Parking for hassle free parking experience for street and closed parking areas.

While summarizing the presentation, Er. Arvind Kr. Gupta, Chairman emphasized that since India is represented 70% by villages, the Smart City concept would limit the benefits of smart features to the urban population only and result in population explosion in such cities due to migration of the village population towards the cities, whereas, the same benefits could be equally made available in villages also. The Smart India concept would therefore, span both cities and villages of the country to make it a true national movement instead of merely an urban movement. A large section of the interested audience wanted to have a longer session for discussions, as the presentation invoked great enthusiasm to know more about this concept of integrating multidisciplinary domains for establishing an overall Smart City. In the end, Sri Praveen Malhotra, Honorary Secretary delivered the vote of thanks.

