

Smart Cities and Green Technologies Leading To Next Level of LiviHood

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Abstract : Smart Cities indenture information and Communication technologies to improve the quality of Life for its citizens , transport , environment etc. The enormous pressure towards efficient city management has triggered various Smart City initiatives by Both government and private sector business to invest in the IT sector in order to find the sustainable solution to the various opportunities and huddles .Everyone in the research field of IT have found the new solution to face the Challenges . In This Session , I will be delivering how Technology + Human will be a great synergy for the future smart cities development .

Structure :

Since the mid-twentieth century, countless environmental, social and economic crises on a global scale have seriously affected our societies. Especially during the last two decades, metropolitan areas around the world have been engaged in initiatives to improve urban infrastructure and services, aiming at a better environment, social and economic conditions, improving the attractiveness and competitiveness of cities.

These efforts brought up the concept of intelligent cities that is the precursor of smart cities . Smart cities develop due to the intelligent use of digital information, for example in areas such as human health, energy use, education, knowledge transfer and urban governance. Sustainability and sustainable urban development concepts generate awareness of the production and use of resources required for residential, industrial, transportation, and commercial processes .

With Vision of Sustainable Environment , research have indolge into the development of smart cities and create a roadmap which is divided into three layers

Consciousness Layer : in which valuable data which can be considered as asset are collected from various Data Sources such as sensor network,Gps etc.

Network Layer :it is responsible for transmitting data, collected from layer 1 to data storage center

Application Layer :containing applications for analyzing and processing the massive data residing in the data storage center

If we establish the base of Smart Cities then sustainable development and quality of life are the Major concern. To understand the concept of smart cities , we begin with understanding the theoretical relatives of the model .

The origin of the concept lies in our cognitive brain form where we start thinking about the predictive analysis model which promises to use emerging telecommunications technology for the betterment of the world . If we talk about smart city as the digital city, it will be technologically-defined city that uses widespread broadband infrastructure to support e-Governance and “a global environment for public transactions”

The concept of smart city is developed in the combination of the Knowledge Society and digital City It is defined as a “multi-layer provincial system of innovation” made up of digital networks, individual intellectual capital, and the social capital of the city, which together constitute collective intelligence.. Economic competitiveness and innovation achieved through the knowledge-based economy marks a city as intelligent, allowing it to generate a “spatial competitive advantage” through industrial districts, regions, and learning clusters supported by digital networks and artificial intelligence .

The Factors which have been used to design the concept of Smart Cities are -

Social

Economy

Technology and Sustainability

Social :The potential for all citizens to communicate with one another and the group of people that represent them to provide a new sense of possibility to the intention that smart cities are based on the function of smart communities whose citizens can play a key role in their design.

Presently there are many initiatives where citizens can first access information about what is happening in their communities and cities but they can also explore ways in which many different groups can become actively involved

Smart cities initiatives allow the citizens to take part in the governance and management of the city and give their valuable contribution . If they want to be the key players they may have the opportunity to engage with the initiative to the extent that they can influence the effort to be a success or a failure. The smart city is inconspicuous to many citizens, which makes it difficult to get them engaged.

Economy : Economy is one of the important part of smart city initiatives. It is the adequate indicator to measure growing city competition , which provides the analysis of the ability of the city as an economic engine

Technology and Sustainability

Development in Present must take place in such a manner that it must not cripple the needs of future generations .For an ordinary city to transform into a “smart” city, technology plays a key role. Modern cities are getting smarter because of the rapid evolution of technology. Problems can be avoided, anticipated and mitigated by analyzing huge data available. This is where Big Data comes into picture.

Sustainability can be defined as the way of economic and social development without disrupting the environment. I will be defining sustainable development with two concepts: development focusing on the world’s poor and although development is limitless from the technology purview, it still has many limitations considering the environment’s ability to satisfy our present as well as future needs.

In This Special Session , I will addressing the topic into more analytical manner

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