

Smart City Based on Internet of Things

S. Karthikeyan¹, P.Srivaramangai²

¹Assistant Professor, Dept. of Computer Science, Ganesar College of arts and science Pudukkottai, TN, India

²Associate Professor, Dept. of Computer Science, Marudupandiar College Thanjavur, TN, India

¹karthikma88@gmail.com ²srivara.padma@gmail.com

Abstract: It has become a compelling necessary for innovation in IT enabled services to realize the concept of the smart city. It is to improve the quality of life of humanity's view of the city that is to be converted into a smart one. We need information by conversing with the people who live there. There emerges a model internet of things which will be useful in various ways for the development of smart cities. Cloud oriented networks must be integrated with software sensors interaction and analytical data. These are very important for creation. Provision of qualify services must also be provided that will help the promotion of smart city. It is proposed to develop a model for the realization of internet thing systems. The concept of smart city will be thoroughly analysed.

Keywords: Internet of Things.

I. INTRODUCTION

There are major transformations in the field of digital industry and newer ideas evolve themselves. Internet of things is the recent inclusion in the field of digital space with help of sensors the electronic hardware industries offer various opportunity to the industrial world. The bewildering fact is the number increases into trillions, billions of intelligent systems involving millions of applications. This will provide a new business technique which requires intelligent industries solution. IT industries will attract trillions of dollars by using internet of thing. Seven billions of humanity of the year 2011 rose to 12.5 billion of internet connection in the year 2020 (20 to 50) billion. Internet of things will flourish the internet industries. Indian government has drafted supporting mechanism to create and maintain ecosystems.

An amount of Rs 76 crores is allocated for the plan of developing 100 smart cities in India. This will cause faster the expansion of internet of things digital India program is launched aiming at transforming our India into digital society with knowledge of economy. In numerable ideas are used for expediting by setting up digital infrastructure to boost IOT industries some major objects of a smart city's are.

- Smart Parking
- Intelligent Transport System
- Smart Urban Lighting.
- Waste Management.
- Smart City Maintenance
- Tele-Care

- Citizen Safety
- Smart Grid
- Smart Energy
- Water Management

II. SMART CITY IMPLEMENTATION MODELS BASED ON IOT

The departments of agriculture, health, energy, security, disaster management can help to find solutions for various problems the industries undergo to boost the revenue of India. The IOT found ways for telecom operators and system integrated through IOT industries can provide solutions and analytics. Many governments vie with each other to create an internet of things based smart city by constructing a test bed for verification for the integrated infrastructure. Indian government emphasizes on implementation models which are explained through examples.



Fig. 1. Smart City Challenges

Smart Traffic Service:

The irking traffic problems can be overcome in smarter cities IOT helps easy parking and prevent illegal parking. Participation of the local people will definitely prevent illegal parking and facilitating smart and safe crosswalk. Arrangement must be made to collect parking fees and provide facilitation for reservation of parking space in

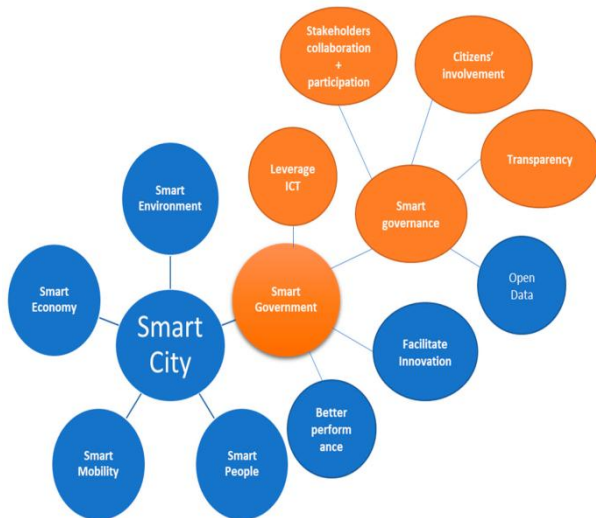
smart cities. Payment through website and mobile connections should be provided illegal parking can be prevented with the cooperation of the citizens of the city. The social workers must be identified for informing the traffic authority about illegal parking through smart phones for the safety of crosswalk. Services initiate easy crossing for the prevention of the accidents caused by pedestrian and cars. There must be children safety zones board must be erected to alert the walkers and the drivers.

Smart Education Service:

Life like lectures provided through smart education service with high definition and good infrastructure will be highly useful. This services permit institute to use them. For the benefit of the students and languages teachers in foreign tongues.

III. THREE DIFFERENT STAGES FOR IOT

1. Data sensors
2. To collect and analog the data an application device must be kept with.
3. Making decision and transmission of data analytical engines actuators and big data collections are for foreign country's benefit through IOT.



IV. FEATURES OF SMART CITY

Promoting mixed land use in area based developments—planning for ‘unplanned areas’ containing a range of compatible activities and land uses close to one another in order to make land use more efficient. The States will enable some flexibility in land use and building bye-laws to adapt to change.

Housing and inclusiveness - expand housing opportunities for all.

Creating walkable localities –reduce congestion, air pollution and resource depletion, boost local economy, promote interactions and ensure security.

V. CONCLUSION

To create IOT models to government has to facilitate business activities and participate connected project of a smart city. The topic of IOT is currently fascinating all researches and users in opportunely non availability of data's in India prevent empirical analysis of the technologies of IOT. There is a vast opening for research activity in these field in the near future.

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