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Role of E-Trainings in Building Smart Cities

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Abstract

Recently, the concepts of building smart cities have come up which enforces urban development to build intelligent and digital cities. Smart cities are also known as digital cities that use ICT practices. This framework offers a linkage between Information and Communication Technology and Urban planning and development (Wolfram, 2012). The linkage has surged for the development of innovative practices and capacity building. Smart cities have been defined in various forms from digital cities to wireless cities and now to smart cities.

This research brief mainly concentrate of administration, people and knowledge creation for developing organization's e-training platform helping in building smart cities with digital enterprise, administration and people or smart citizens. The paper tries to put forward the concept and designing of e-learning platform to provide instant training and education for shaping the new generation citizens.

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Keywords: Smart Cities; Urban development; Digital enterprise; administration; smart citizens; e-training or e-learning platform

1. Introduction

Cities are rapidly moving towards urbanization because of which these cities are undergoing and will undergo massive demographical changes (Klett, F., & Wang, M., 2014). Urban and sub-urban regions are majorly affected by government and business to establish such changes, where government realize to maintain economic sustainability and enterprises work for maintaining workforce and technology diffusion in creating smart cities. The basic concern for government and enterprise lies in environmental sustainability (SMACC). Various researchers have defined environmental sustainability as maintenance of natural capital (Morelli, John, 2011) such as soil, atmosphere, water and forest. As these natural capital is limited to an extent in urban and sub-urban regions these day because of which human mankind has to suffer.

Therefore, to generate awareness in people it becomes vital for government and enterprises to work together in educating and training it's people in these regions.

1.1. Understanding Smart Cities

Recently our honorable Prime Minister of India Shri Narendra Modi has put emphasis on “Make in India” which has also visioned India's smart cities. India has already shortlisted its 20 smart cities out of 98 shortlisted for Smart Cities Mission released on January 29th, 2016.

But the question lies what are smart cities? Smart cities are therefore known as the cities which are highly urbanized or developed in terms of its infrastructure, communication, sustainability, market viability (The Hindu, Newspaper). The backbone to this lies in Information and Communications Technology with a main objective to provide adequate water supply, electricity, Transportation, waste management system, robust IT connectivity and digitization, good governance, sustainable environment, health and education and safe life to it's citizens. At an individual level, Smart cities mission is a humanistic approach or human oriented approach with an objective of providing high tech, safe and healthy environment. At an organizational level, it focuses on good governance between its government departments and other public and private groups. It also focus upon creating and sharing knowledge management processes, creating national missions, visions and goals and defining nations financial models for the growth of its country.

Information and Communications being the sole of these smart cities will provide easy dissemination of information from source to destination. With the vision, that an information can be accessed anytime, anywhere and by everyone at their ease. For example, mobile applications can be used for e-governance, e-health checkups, e-tendering, e-tutorials using e-learning or e-trainings. This is based on self monitoring and self response (Klett, F., & Wang, M., 2014). This project of converting old cities into smart cities has revolutionized the education sector and business enterprise. Education industry and business enterprises have started moving towards visualization.

In order to build smarter citizens, business and governance the time has come when all the three requires to work in coordination with one another and produce smarter citizens, smarter goods and services by the enterprise. Technology these days has provided lot of ease to the people who are aware about its usage. For example goods and services can now be delivered at customer's doorstep, without them going to the retail stores and this has been made possible with the use of Information Technology that has provided various applications at their finger tip. Today the customer no long has to wait in long queues to buy tickets, glossaries, pay educational or examination fee and many more, all these things are now available online.

But there are some parts of citizens who are still not aware of these applications and are still comfortable in using manual system or are not educated about the new applications that can make their life more easier and comfortable. Therefore, the concept of smart cities and role of e-trainings can be studied looking mainly into three domains:

- Role of E-Trainings in Building Smart Citizens
- Role of E-Training in building Smart Governance
- Role of E-Training in Building Smart Business Enterprise

It has been stated that India has to improvise of its education, skills and training to build smart cities. Training can thus be represented as:

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