Role of Internet of Things (IoT)

In Promoting Sustainable Economic Growth in India 2047

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Published by

GARUDAN PUBLICATION
Udumalpet - 642126, Tamilnadu, India
E-mail : garudanpublication@gmail.com
Mobile : 9976762076

Printers : S.K.M. Offset Printers, Udumalpet

First Edition 2023

ISBN: 978-81-954811-1-8

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Role of Internet of Things in India's Economic Growth

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3. A STUDY ON THE ROLE OF INTERNET OF THINGS (IOT) IN PROMOTING PRIMARY SECTOR

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Introduction

Due to enormous growth in technologies, farming has become more popular and significant. Different tools and techniques are available for development of farming. According to the UN Food and Agriculture Organization, in order to feed the growing population of the Earth, the world will need to produce 70% more food in 2050 than it did in 2006. To meet this demand, farmers and agricultural companies are turning to the Internet of Things for analytics and greater production capabilities. Internet of Things (IoT) can play big role in increasing productivity, obtaining huge global market, idea about

recent trends of crops. IoT is a network of interconnected devices which can transfer data efficiently without human involvement. Today many agricultural industries turned to adopt IoT technology for smart farming to enhance efficiency, productivity, global market and other features such as minimum human intervention, time and cost etc. The advancement in the technology ensures that the sensors are getting smaller, sophisticated and more economic. The networks are also easily accessible globally so that smart farming can be achieved with full pledge. Focusing on encouraging innovation in agriculture, smart farming is the answer to the problems that this industry is currently facing. All this can be done using smart phones and IoT devices. Farmer can get any required data or information as well can monitor his agricultural sector.

Internet of Things (IOT)

The Internet of things (IoT) is the most efficient and important techniques for development of solutions to the problems. IoT evolve from different building blocks which includes lots of sensors, software's, network components and other electronic devices. Also it makes data more effective. IoT allows exchanging the data over the network without human involvement. In Internet of things, we can represent things with natural way just like normal human being, like sensor, like car driver etc. This thing is assigned an ip address so that it can transfer data over a network. As per the report generated by Garner, at the end of 2016 there will be 30% rise in count of connected devices as compared to 2015. He further says that, this count will increase to 26 billion by 2020. The IoT technology is more efficient due to following reasons:

- Global Connectivity through any devices.