# Digital Divide: A Division between Information and Communication Technology and Digital Growth

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**Abstract:** Digital India is a goal of every citizen so that life of people of India can be improved including last person of the queue of hope. In this regards the digital services have become integral for sustainable development. Due to the major involvement of information and communication technology, there are measurable challenges to set up an infrastructure for proper progress of digital service like security, progress ration of using digital services, maintenance of large number of user's and at the same time user's satisfaction. In this article, one of the challenge on the way of digital India is discussed in the form of aligning services and infrastructure. Aligning of these both terms may bring a measurable change among the digital users so that digital divide can be which will directly reduced leads more involvement of ICT with effective demand of services.

**Keywords:** Digital India, ICT, Infrastructure, Big Data, Security

### **Introduction**

## **Digital India**

A country can never imagine to become a symbol of shining star without involving technology to common people of society. Digital India concept was originated by Prime Minister of India in order to transform India to a digitally empowered, knowledge economy and involving common people. The Digital India programme was

launched by Prime Minister Narendra Modi on July 1st 2015. Digital India basically involves Universal Access to Mobile phone, Public Internet Access Programme: Common Services Centres, e-Governance, e-Kranti, Electronic Delivery of Services, Information to all, Electronics, Manufacturing with a target Net Zero Imports, IT for all and many more [2,6].

Data Analytics of Big Data: Data analytics of big data leads user's satisfaction in the form of supplying solution and need of user's without interring their daily life activities. All Universal data 10% is structured while other 90% is unstructured, which may be either machine generated or human generated. Unstructured data is the largest piece of the data equation, and the use cases for these kind of data are continuously booming. [5].

Data can be analyzed in three types of mode that is high volume, managing velocity of data and maintaining verity of data. Big data is responsible for managing structured, unstructured and semi-structured data but mainly for unstructured data which is 90% among all data. Big data has to be managed at administrator or service provide end and at end user level.

#### **Statement of Problem/Challenges:**

There is the need to decrease digital ratio especially in rural place. As per the various studies it has been observed that there is 16% access of Internet in rural where as it is 44% in urban places according to the report a study by Internet and Mobile Association of India (IAMAI) and market research firm Kantar IMRB. There are other barriers in the way of digitizing the country which are given below:

- Technology makes life easier but at the same time mechanism to use technology should be easy to us.
- Poor network quality and affordability of Internet service in both rural and urban areas.
- Relevant information are more useful for users. In the ocean of Information, it is one of the complex task to get relevant information among number of irrelevant information
- Security is the prime concern of digital India. Security can be classified at three tier. One is confidentiality, second one is integrity and third one is availability of information.
- Language barriers is more of the crucial wall to reduce digital divide.
- Less digital divide may lead more secure information and e-transaction.

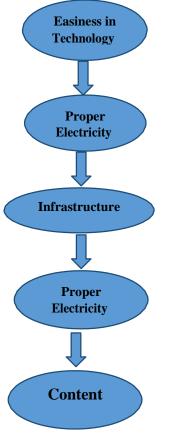


Fig 1: Barriers in Digitization

### **Proposed Solution**

Aligning towards Valuable and Accessible **Infrastructure:** Infrastructure involves network. Maintenance Deices. Internet. and updatingsuitable environment. There is need of providing a valuable and accessible infrastructure to achieve measurable growth of ICT and involvement of people of society. Valuable infrastructure will motivate people to be part of digital infrastructure and accessible infrastructure will reduce digital divide while involving people to use and response the e-services. People do not involve themselves due to unavailability of such desire infrastructure.

Reducing Charges on E-services: Most of the developed countries in world have applied zero or nominal charges to use e-services which results high reduction in digital divide. Such actions will act as catalyst for adopting and using upcoming technologies which will definitely meet towards goals of digital India. Generally there are highly charges are applied for e-banking or online banking which leads adopting another ways of transaction.

Information Security: Information security is the burning issue across the globe by which confidentiality policies are implemented in computer systems, including concepts of access control, integrity and availability. Providing and accessing complete secure information has still not been achieved because of the modernization of malicious application and technologies. An easy and well proved environment can be created and provided to digital users so that they can avail digital services without fear.

#### **Digital Divide**

Theory of the digital divide came into existence in the 1990's for explaining equality and inequality in the area of accessing suitable network for people of society. Digital divide is the ratio between users who have access of information and communication technology and those that don't or have limited or restricted access. The more ratio of digital divide can exist in the rural areas as compare to those living in urban areas. Moreover, rural users are not continuously online in real time which leads ratio of digital divide. In the meantime there is notable growth in rural place in terms of ICT usage [6.7].

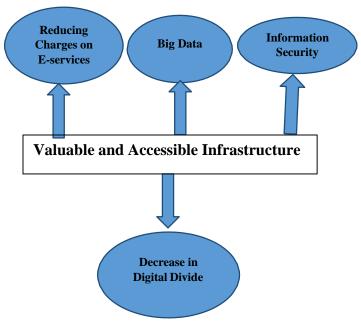


Fig 2: Parameters to Reduce Digital Divide

#### **Conclusion**

Digital divide exists in each and every country of world and bringing it up zero does not seem feasible rather digital divide can be reduced which directly influences functionality of digital India. There are more than hundred components which are responsible for achieving goals of digital India. In the meantime digital divide may be considered a key to achieve desired goals of digital India. This paper explores key reasons to reduce the digital divide and these key reasons are directly associated with the people of society. Hence the proposed components are prime factors to implement digital India on ground.

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