

Digital be addressed in order to realize

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DIGITAL INDIA : CHALLENGES & OPPORTUNITIESI dream of a digital India where the world looks to India forthe next big idea- Narendra Modi (2015) Dr.

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AbstractDigital India is the beginning ofdigital revolution. It is a dream which is created by the Government of Indiato ensure that government services are made available to citizens electronically, even in remote areas, by improving online infrastructure and by increasingInternet connectivity.

The main vision of Digital india initiative isto ‘ transform India into a digitally empowered society and knowledge economy’. Theinitiative aims at enabling Indian masses to get engaged in the innovativeprocesses which will help in upliftment of economy and will pave its way tomove forward. But on the implementation front, it is indeed a great challenge.

There are many roadblocks inthe way of its successful implementation like digital illiteracy, low internetspeed, lack of proper coordination among departments, poor infrastructure, issues pertaining to taxation etc. These challenges need to be addressed inorder to realize the full potential of this programme. This paper attemptsto highlight the different challenges faced by the Digital India Programme.

It describes the different opportunities of the programme for the people of India. Key Words-Digital, Implementation, Opportunities, Roadblocks,

Revolution

IntroductionAllover the world, technologies

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of information and communication proceeds to accelerate at an incredible speed. Digitalization is one of the most fundamental period of transformation we have ever witnessed (Dua, 2017). Digital India, a revolutionary programme, was launched on 1st July 2015 by the Prime Minister of India, Sh.

Narendra Modi, with an aim of improving digital literacy and connecting rural areas with high-speed internet networks. The vision of this programme is to transform India into a digitally empowered society and knowledge economy. It is one of the biggest steps taken by the Government of India to motivate the citizens of the country and connect Indian economy to the knowledge savvy world (Modi, 2015). Literature Review A number of research papers and articles provide a detailed insight about the role of digital India and the implications of this project in India. Gupta and Arora (2015) studied the impact of digital India project on India's rural sector. The study found that many schemes have been launched in digital India to boost agriculture sector and entrepreneurship development in rural areas. Digital India programme has also set the stage for empowerment of rural Indian women. 1 Pichai, Musk and Nadella (2015) asserted that Digital India initiative is a major initiative towards creation of job opportunities in the information sector.

1 Kunkolienker (2015) concluded that while new investments into electronics manufacturing is welcome, government should encourage existing IT hardware manufacturers. He also added that the present moving pace of India if combined with broadband highway today will lead to innovative India

tomorrow. 2Bansal(2015) concludedthat Digital India is a huge step towards building a truly empowered Nation. The initiative aimed at providing accessibility to essential services will leadto a holistic growth of the country, from literacy to employability to GDPgrowth. 2 Valluri(2015) concluded thatthe government will need to deploy scale out architectures which can scale asthe data volumes grow. Digital India's success would also be a function of theunderlying technology infrastructure with data becoming the nucleus of thistrust. 2Shenoy(2015) said that Makein India is an integral part of Digital India. IESA is proud to be associatedwith the Digital India initiative and will leverage the collective value of itsmembers to realize Digital India and Make in India.

2Midha(2016)concluded that digital India is a great plan to develop India for knowledgefuture, but its improper implementation due to inaccessibility andinflexibility to requisite can lead to its failure. So we Indians should worktogether to shape the knowledge economy. 3Sharma (2016) commented, " These transforms the livesof people in many ways and will empower the society in a better manner. TheDigital India Programme, an initiative of honourable Prime Minister Mr. NarendraModi, will transpire new development in every sector. The motive behind theconcept is to build participative, transparent and responsive system."

4ResearchMethodologyThe paper isbased on the secondary data and the information is retrieved from the internetvia research papers, articles andgovernment websites. OBJECTIVE OF THE PAPER1.

To study the concept of digital India programme. 2. To study the opportunities of the programme for the people of the country. 3.

To study the various challenges faced by the Digital India Programme in its implementation. 4. To find out practical solutions and innovative ideas regarding the successful implementation of the programme. **Nine Pillars of Digital India Programme** The Government of India hopes to achieve growth on multiple fronts with the Digital India Programme. Specifically, the government aims to target nine 'Pillars of the Digital India' that they identify as being 4:-

1. **Broadband Highways** The objective of this pillar is to cover 2, 50, 000 village Panchayats under National Optical Fibre Network (NOFN) by December 2016.

Nationwide internet infrastructure (NII) would incorporate the network and cloud infrastructure in the country to provide high speed internet connectivity and cloud platform to various government departments up to the panchayat level in the villages.

2. **Universal Access to Mobile Connectivity** The objective of this pillar is to amplify network penetration and to provide mobile connectivity to 44,000 villages by 2018 with investment of Rs 16,000.

Figure 1 : Representation of Nine Pillars of Digital India

3. **Public Internet Access Programme** To each and every gram panchayat, One Common Service Centre (CSC) would be provided and 1, 50, 000 Post Offices are put forward to be converted into multi service centers.
4. **eGovernance – Reforming Government through Technology** In eGovernance, IT would be used to deliver the government services more effectively.

There would be a better coordination in services and platforms-UIDAI, Payment Gateway, Mobile Seva platform, Public redressal etc., through IT. All information would be made available in electronic form. 5.

eKranti: Electronic delivery of services E-Kranti includes technology for education, technology for health, technology for planning, technology for farmers, technology for security, technology for financial inclusion and technology for justice. 6. Information for all Information for all includes online hosting of information & document. Government pro-actively engages through social media and web based platform to inform citizens about MyGov.

in and 2 way communications between citizens and government and online messaging to citizens on special occasions/programmes. 7.

Electronics Manufacturing The government is focusing on zero imports of electronics by 2020 through local manufacturing of items such as smart energy meters, micro ATMs, mobile, consumer and medical electronics. Government is also taking several steps to promote manufacturing and investment in electronics sector by providing clarity on taxation, incentives skill development etc. 8. IT for Jobs The main objective of this pillar is to train 10 million people in towns and villages for IT sector jobs in five years.

It also aims to provide training to three lakh service delivery agents as part of skill development to run viable businesses delivering IT services. It also focuses on training of five lakh Rural Workforce on Telecom and Telecom related services and setting up of BPOs in each North-eastern state. 9.

Early Harvesting Programmes In Early Harvesting Programmes, the Indian

government plans to install Wi-Fi facilities in all universities across the country. All books will be converted into ebooks. Email is the primary mode of communication within the government. Status of Digital Services Deployed under Digital India The second most important component of Digital India, after Infrastructure, is Digital services. By now, the Indian Government has taken various steps for implementing these services for the Indian masses.

Some services like MyGov and DigiLocker had witnessed high adoption rates by the citizens, but several other services are lagging behind as they are less user friendly and difficult to use. Here are some of the services⁵ :- Table 1 : Status of Services Deployed under Digital India

Services	Description	Status
eSign	eSign service allows us to do digital signatures with the help from our Aadhar information – Implemented and deployed – Used for online business documents and tax returns.	MyGov App
It is an innovative engagement mobile application where citizens directly engage with the government by channelizing their ideas, comments, etc	Service is rolled out with about 5, 00, 000 downloads till date	DigiLocker
DigiLocker	DigiLocker is a platform for issuance and verification of documents & certificates on a public cloud.	

Over 1 million downloads till date Swachh Bharat Abhiyaan App This app came after launching the Swachh Bharat campaign. It is used by the people and government organisations – Available on Play store – Over 500 thousand downloads

Wifi Hotspots The government plans to install wifi routers in public places 31, 518 hotspots till date UDAAN It is an initiative to address the needs of the educated employed in Jammu & Kashmir 10, 555 J&K youth joined UDAAN till July 2017, out of which 4984 youths are placed.

SARANSH A CBSE initiative, Saransh is a tool for comprehensive self-review and analysis for CBSE affiliated schools and parents Deployed and active eHealth It provides effective, timely medical services – Hospital management system – Customer service using internet eEducation It provides high-tech education in remote places and urban areas using smartphones, apps and internet services. India's online education market is to grow to USD 1. 96 billion and around 9. 6 million users in 2021 from USD 247 million and around 1.

6 million users in 2016 Source : <https://www2.deloitte.com>, <http://www.digitalindia.gov>.

in/rural BENEFITS OF DIGITAL INDIA PROGRAMME Figure 2 : Representation of the Benefits Digital India Digital India programme is the beginning of digital revolution. It is a big initiative to empower people of the country. The main benefits of this programme are :- 1.

Availability of Services – The digital India mission would make all the government services available to the Indian masses through common service delivery outlets. With this, there will be an inclusive growth by providing access to healthcare, education and government services to all the citizens of the country. 2.

Transparency- The transparency level increase as all the data would be made online which can be accessed by all the citizens of the country. 3.

eGovernance – eGovernance will help in reducing corruption and getting things done quickly. 4. Digital locker – Digital locker facility will help citizen to

digitally store their important documents like Pan card, passport, mark sheets, etc, which help in getting things done easily. For example, whenever we need to open an account, we will give official details of our digital locker, where the bank can verify our documents. Thus, it will be more convenient for the citizens as a lot of time will be saved by not standing in long queues.

5. Eco-Friendly – It will greatly reduce paper work and documentations. 6.

Cashless economy – With demonitisation in effect in the country, Digital India will promote cashless transactions and more and more people will be aware of it. 7. Online Marketing – It can help small businesses to expand as people can use online tools. CHALLENGES Figure 3 : Representation of Challenges faced by Digital India More than three years has been passed since Digital India mission has been announced but it is facing multiple challenges in successful implementation.

Few of the challenges are :- 1. Digital Illiteracy – Digital illiteracy is the biggest challenge in the success of Digital India programme. Low digital literacy is a key hindrance in adaptation of latest technologies. The latest report concludes that India had 36.

74 crore (367.46 million) Internet subscribers in September 2016. 6 Making Digital India scheme known and creating an awareness among common masses about its benefits is also a great challenge. 2.

Connectivity – It is a tremendous task to have connectivity with each and every village, town and city in India. Connecting 2,50,000 Gram Panchayats

through National Optical Fibre is not an easy task. Till now 1, 44, 430 km of optic fibre has been laid. 5 3. Low Internet Speed – A key component under this vision is high speed of internet as a core utility to facilitate online delivery of various services. India has low internet speed.

According to first quarter 2017 Akamai report on internet speed, the average internet speed in India is 6492 Kbps. 74. Stringent Taxation and Regulatory Policies – According to ASSOCHOM-Deloitte report, the issue pertaining to taxation and regulatory guidelines have proved to be a roadblock in realizing the vision of Digital India.

Some of the common policy hurdles include lack of clarity in FDI policies have impacted the growth of e-commerce. 55. Poor Privatization -The private participation in government projects in India is poor because of long and complex regulatory processes.

6. Delayed Infrastructural Development – The biggest challenge faced by Digital India programme is slow and delayed infrastructure development. India's digital infrastructure is comprehensively inadequate to tackle growing increase in digital transactions. India needs over 80 lakh hotspots as against the availability of about 31000 hotspots at present to reach global level, according to ASSOCHOM-Deloitte report. 57.

Mobile Connectivity -Many request proposals issued by government are not picked up by competent private sector organizations since they are not commercially viable. Currently Over 55000 villages remain deprived of mobile connectivity because providing mobile connectivity in such locations is not

commercially viable for service providers, ASSOCHAM Deloitte report pointed out. 58. Language Barrier – India has 1600 languages and dialects. Non availability of digital services in local languages is a great barrier in digital literacy. 9. Cyber Security Issues -Security issues are one of the most critical challenges faced by stakeholders of the digital payment ecosystem. With more and more users preferring digital payments, the chances of getting exposed to cyber security risks like online fraud, information theft, and malware or virus attacks are also increasing.

Lack of awareness and poor digital payment ecosystem are some of the many prime reasons that have led to an increase in cyber attacks. SUGGESTIONS Digital India campaign can't be successful on its own. Policy changes are needed to make digital India a reality. Few of the suggestions are : – 1. To make this programme successful, a massive awareness programme should be conducted. There is pressing need to educate and inform the citizens, especially in rural and remote areas, about the benefits of internet services to increase the growth of internet usage. 2. Manufacturing content is not government's strength.

This mission needs content and service partnerships with telecom companies and other firms. 3. PPP models should be analysed for sustainable development of digital infrastructure.

4. Private sector should be encouraged for development of last mile infrastructure in rural and remote areas. To encourage private sector, there must be favorable taxation policies, quicker clearance of projects. 5. The success of digital India project depends upon maximum connectivity with

minimum cyber security risks. For this we need a strong anti cyber crime team which maintains the database and protects it round the clock. 6. Cyber security courses should be introduced at graduation level.

7. There is need for effective participation of various departments and demanding commitment and efforts. Various policies in different areas should support this goal.

CONCLUSION The vision of digital India is grand. It is a huge step towards building a truly empowered nation. A digitally connected India can help in improving social and economic conditions of people through development of non-agricultural economic activities apart from providing education, health and financial services. If successful, it will transform citizen access to multimedia information, content and services. However, the goal is still faraway since most of the nine pillars of digital India mission are facing serious challenges in implementation.

It is imperative that focused persistent attention must be given to each and every pillar so that this program does not end up in a failure. We all know that overall growth and development can be realized through supporting and enhancing element such as literacy, basic infrastructure, overall business environment regulatory environment, etc. The government continues its regime of internet filtering and the authorities have stepped up surveillance online and put pressure on internet service providers to collude in the filtering and blocking of content which may be perfectly

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