Empowering Infrastructure Digitalization of India

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1. Absract

Aims at providing fast and easy access of public services to citizens through mobile devices. Mobile services are quickly emerging as the new frontier in transforming government and making it even more accessible and citizen-centric by extending the benefits of remote delivery of government services and information. Delivering timely and accurate information to citizens and an established system of two-way communication between the government and people is one of the keys to strengthening democracy by facilitating enhanced utilisation of public services, participation and empowerment of citizens. The use of mobile technologies has been prominent in government departments especially in agriculture, health care, financial services, retail trading, utilities, communications, manufacturing, transportation and services. Businesses too have woken to the popularity of mobile phones and are introducing services, especially in the Banking sector. Mobile banking is the future because of its cost effectiveness and ability to reach out to customers in remote areas. Time is ripe for India to take a step forward from e-governance to m-governance in a big way in various areas such as health, education and various financial services.

Keywords: Incumbent, Disruption, Participating

2. Digital Disruption

The effect of digital disruption on business has the potential to overturn incumbents and reshape markets faster than perhaps any force in history, according to a new report released by the Global Center for Digital Business Transformation (DBT Center), an initiative between Cisco and the International Institute of Management Development (IMD) in Lausanne, Switzerland. Despite this, the survey indicated 45 percent of companies do not believe digital disruption merits board-level attention. 43 percent either do not acknowledge the risk of digital disruption, or have not addressed it sufficiently. Only 25 percent describe their approach to digital disruption as proactive. But for India to sustain its current growth levels, it is imperative to take a proactive.

3. Digitization Approach

The Government's ambitious Digital India program envisions a scenario where infrastructure would be offered as a utility to every citizen, governance and services would be on demand and citizens would be digitally empowered.

Technology surge :By all accounts, this digitization of India will continue at the same frantic pace. It won't be long before we talk of the Internet of Everything (IoE), Robotics, 3D printing and AI (Artificial Intelligence) in the same breath as we talk of phones today. That would be enough to start a virtuous spiral towards a Made-in-India advantage, extreme manufacturing progress, infrastructure milestones and a big leap towards a country where citizens and governments are always connected and powered with real-time analytics and data on the go or an uber-savvy market where customers are happily fuelled with new benefits of Cloud. Signs of that scenario are already visible.Cisco VNI predicts that India will have 650 million smartphones and 18 million tablets by 2019. This mobile-centric environment will give service providers a new landscape of challenges and opportunities to innovatively deliver a variety of mobile services and experiences to consumers and business users as the IoE continues to take shape.

Forrester had registered the impact of the Web on offline sales to be much greater 2014 onwards with the emergence of smartphones and the mobile Internet playing a much bigger role in influencing the purchase decisions of online users. In fact, the Forrester Research Web-Influenced Retail Sales Forecast, 2014 to 2019 for India, augured that some $70 billion in offline sales in India will be influenced by the Web in 2019 and that mCommerce in India will reach $ 19 billion in 2019.

4. India vision Digitizing

India vision digitizing is one of the most exciting initiatives the country has embraced to leapfrog us to the 21st century. Given the huge divide between rural and urban India and the digital haves and have-nots, I believe that the india will definitely rise

5. Digital India Program

Digital India program is a master stroke in using technology as the great leveller for the citizens of India. The program, recently announced by the Prime Minister, charts a roadmap to a digital India where a digitally literal popilation can leverage technology for endless possibilities. What was once a visionary notion is now the new normal: technology is really as essential as the three utilities—water, gas, and electricity. Our government leaders have made it clear that broadband highways are as important as national highways. Today government leaders understand that while the end goal is to offer better services, foster innovation and generate more jobs, the critical enabler is going to be technology and the foundation to a digital nation will be laying a pan India network.The Digital India program envisages providing digital infrastructure as a utility to every individual, delivering governance and services on demand and enabling the digital empowerment of citizens. The project has identified nine pillars for growth. One key focus for the government is the development of broadband highways that will cover 250,000 gram panchayats by December 2016. There will be a greater focus on increasing broadband penetration in urban areas.

6. Communication infrastructure Deployment

Communication infrastructure deployment of mandated in new buildings. Broadband penetration will allow technology-enabled services to be rolled out to remote parts of the country. The government is also focused on providing universal access to mobile connectivity. By 2018, more than 40,000 villages are likely to be under the banner of mobile technology.

7. National Rural Internet Mission

National rural internet mission through which more than 2.5 lakh villages will have Internet access through Community Service Centres which will become viable, multi-functional end points for service delivery by 2017. The program also wants to drive increased public participation and empowerment through a deeper focus on e-Governance solutions that leverage technology to improve the way the government interacts with citizens. The government understands that with online applications, tracking, and integration of existing platforms, there will be greater efficiency across many transactions involving the government. One of the pillars of the Digital India program is eKranti which is set to revolutionise the nation through the electronic delivery of services including e-Education, e-Healthcare and technology for planning. Through the program, citizens will have free access to more information on government policies, services and programmes delivered via an open data platform, and through the online hosting of information and documents.

8. The Digital India Program

The digital India program also focuses on achieveing the government's stated target of net zero imports by giving electronics manufacturing the due importance and emphasis. We believe this focus will boost India's manufacturing capabilities and transform the nation into a manufacturing hub. As part of the program, the government will focus on cultivating an IT-ready workforce by training people in smaller towns and villages with IT for jobs over the next five years. To kick off the Digital India program, the government has announced a few early harvest programs such as installing Wi-Fi in all universities by 2015, securing email within the government, and enabling public wifi access in cities with a population of more than one million people.It is not just connecting a mobile phone, car, a refrigerator or health device — it's the combination of all of this. In 1984, there were 1,000 devices connected to the Internet worldwide. In 2014, 10 billion devices will have downloaded 77 billion mobile apps. 50 billion devices will be connected to the Internet in the next decade, and we will be able to get massive amounts of data, from sensors. Cisco expects networked devices in India to swell to 1.8 billion by 2018. The future will not be just about the connected devices, it will be about the transformation in the creation and delivery of services that will accompany the coming deluge of big and open data. In a digital India these connections, combined with access to the world's knowledge at our fingertips, will empower people in ways that we never imagined.

9. Embracing Digital Technologies

India is on the path to and reaping the ensuing benefits especially in the areas of broadband expansion, electronics manufacturing and eGovernance. Implementation of the Digital India program will help the country in overcoming our challenges, seizing our opportunities and providing citizens with access to better infrastructure and quality of life. We believe there is a huge opportunity for the industry to partner with the government in the Digital India program, help transform the life experiences of 1.2 billion Indians and drive India's return to the centre of the world's stage.

We all are aware of the much-talked about "Digital India" initiative which is consistently driving massive support from not only India, but from all across the world. Global Giants like Facebook, Google, Microsoft, and Qualcomm are also encouraging and supporting the nation to accomplish its Digital India Vision.

10. Digital India initiative

Digital India initiative is actually an umbrella scheme covering digitalization of various sectors of Indian Market, including Agriculture, Education, Financial Institutions, Health Care, Infrastructure etc. for strengthening our economy and digitally empowering the nation.

Now concentrating on the Education Sector, let's talk about the technologies that can help India to meet its Digital India Goal in this particular arena. It won't be wrong to say that technologies like Mobile Applications, Software, and Cloud Technology can function as a catalyst in improving the Education Sector by helping to streamline and digitalize the operations. These technologies not only enable the institutes to connect with the world around them, but also allow them to share Real-Time information with everyone associated i.e. parents, teachers and students. As Government has already announced Free Wi-Fi Connectivity in all universities and schools, and is also supporting many online learning programs, this network connectivity provides a positive environment for these technologies to easily adapt, propagate, and succeed.

11. School Management Software

School Management Software can prove to be an important pillar of Digital Technologies that can help the nation to lead off and achieve its dream of Digital India. These School Software and Apps help to revolutionize and digitalize the Education Sector Completely. School Software and Apps are developed by keeping in mind the three core components:
1.Digital Infrastructure
2.Digital Services
3.Digital Learning

School Management Software provides a SAAS based technological platform that provides education institutes, a common communication platform for teachers, parents, students and schools to share knowledge and information with each other in Real-Time.The Software and App help to transform various manual and time-consuming routine tasks at school into Easy, Quick, Paperless and Digital tasks that support as well as enable transparent and efficient management of School Operations like Fees Management, Attendance, CCE Report Cards, and Anecdotal Records

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