Department of Electronics
and Information Technology,
Government of India

Digital India

A programme to transform India into a digitally empowered society and knowledge economy

30.01.2015

What is Digital India?

- Digital India is a **Programme to prepare India for a knowledge future.**
- The focus is on being **transformative – to realize IT + IT = IT**
- The focus is on making **technology central to enabling change**.
- It is an **Umbrella Programme** – covering many departments.
  - It weaves together a large number of ideas and thoughts into a **single, comprehensive vision** so that each of them is seen as part of a larger goal.
  - Each individual element stands on its own. But is also part of **the larger picture.**
  - It is **coordinated by DeitY, implemented by the entire government**.
  - The weaving together makes the Mission **transformative in totality**
- The Programme:
  - Pulls together many **existing schemes**.
  - These schemes will be **restructured and re-focused**.
  - They will be **implemented in a synchronized manner**.
  - Many elements are only **process improvements with minimal cost**.
- The **common branding** of programmes as **Digital India** highlights their transformative impact.

Vision of Digital India

Centered on 3 Key Areas

- Digital Infrastructure as a Utility to Every Citizen

- Governance & Services on Demand

- Digital Empowerment of Citizens

Vision Area 1: Infrastructure as a Utility to Every Citizen

- **High speed internet** as a core utility
- **Cradle to grave digital identity** -unique, lifelong, online, authenticable
- **Mobile phone & Bank account** enabling participation in digital & financial space
- Easy access to a **Common Service Centre**
- Shareable **private space on a public cloud**
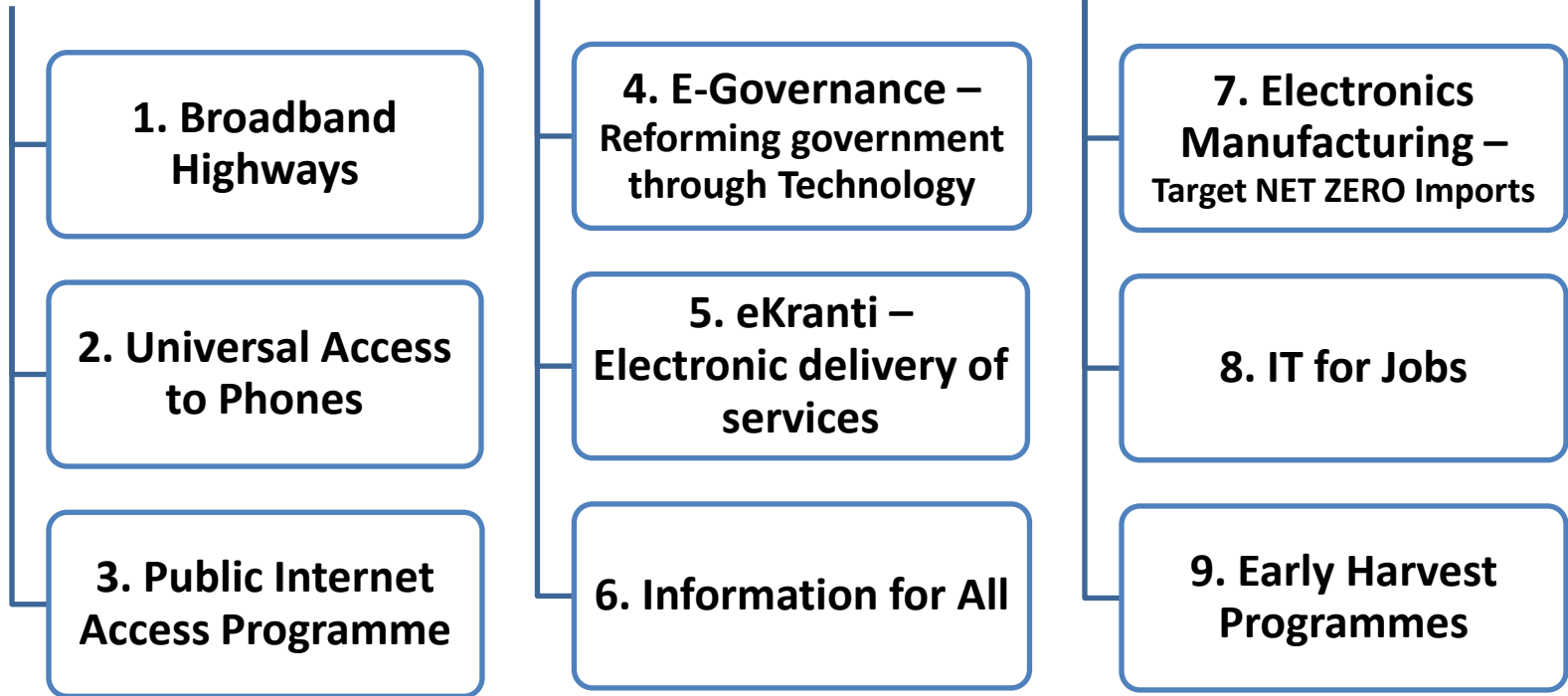- **Safe and secure Cyber-space**

Vision Area 2: Governance & Services On Demand

- **Seamlessly integrated** across departments or jurisdictions
- Services **available in real time** from online &mobile platform
- **All citizen entitlements** to be available **on the cloud**
- Services digitally transformed for improving **Ease of Doing Business**
- Making **financial transactions electronic & cashless**
- Leveraging GIS for **decision support systems & development**

Vision Area 3: Digital Empowerment of Citizens

- Universal **Digital Literacy**
- Universally accessible **digital resources**
- **All documents/ certificates to be available on cloud**
- Availability of digital resources / services in **Indian languages**
- **Collaborative digital platforms** for participative governance
- **Portability** of all entitlements through **cloud**

Nine Pillars of Digital India

- 1. Broadband Highways
- 2. Universal Access to Phones
- 3. Public Internet Access Programme
- 4. E-Governance – Reforming government through Technology
- 5. eKranti – Electronic delivery of services
- 6. Information for All
- 7. Electronics Manufacturing – Target NET ZERO Imports
- 8. IT for Jobs
- 9. Early Harvest Programmes

Pillar 1. Broadband Highways

Broadband for all Rural

- Coverage: 250,000 GP
- Timeline: December 2016
- CAPEX: Rs 32,000 Cr
- Nodal Dept: DoT

1yr: 50,000 GP

2yr: 100,000 GP

3yr: 100,000 GP

Broadband for all Urban

- Virtual Network Operators for service delivery.
- Mandate communication infrastructure in new urban development and buildings.

Changes in Rules to facilitate.

National Information Infrastructure

- Coverage: Nationwide
- Timeline: March 2017
- Cost: Rs 15,686 Cr
- Nodal Dept: DeitY

Integration of SWAN, NKN, NOFN. To be implemented in 2 years

Pillar 2. Universal Access to Mobile connectivity

Universal Access to mobile connectivity

- **Coverage:** Remaining uncovered villages (~ 42,300 villages)
- **Timeline: FY 2014-18**
- **Cost: Rs 16,000 Cr**
- **Nodal Dept: DoT**

Ongoing Programme
Increased network penetration & coverage of gaps

Pillar 3. Public Internet Access Programme – National Rural Internet Mission

CSCs –
made viable, multi-functional end-points for service delivery

- **Coverage:** 2,50,000 villages (now 130,000)
- **Timeline: 3 Years - March 2017**
- **Cost: Rs 4750 Cr**
- **Nodal Agency: DeitY**

Ongoing Programme
Reach of Govt. services to all GPs

Post Offices
to become
Multi-Service Centres

- **Coverage:** 1,50,000 Post Offices
- **Timeline: 2 Years**
- **Nodal Agency: D/o Posts**

This should be long term vision for POs

Pillar 4. e-Governance: Reforming Government through Technology

- Government **Business Process Re-engineering** using IT to improve transactions

  - Form Simplification, reduction

  - Online applications and tracking, Interface between departments

  - Use of online repositories e.g. school certificates, voter ID cards, etc.

  - Integration of services and platforms – UIDAI, Payment Gateway, Mobile Platform, EDI

- **Electronic Databases** – all databases and information to be electronic, not manual

- **Workflow automation** inside government

- **Public Grievance Redressal** - using IT to automate, respond, analyse data to identify and resolve persistent problems – largely process improvements

- **<u>To be implemented across government - critical for transformation.</u>**

Pillar 5. eKranti - Electronic Delivery of Services

- **Technology for Education – e-Education**
  - All Schools connected with broadband
  - Free wifi in all schools (250,000)
  - Digital Literacy program
  - MOOCs – develop pilot Massive Online Open Courses

- **Technology for Health – e-Healthcare**
  - Online medical consultation
  - Online medical records
  - Online medicine supply
  - Pan-India exchange for patient information
  - Pilots – 2015; Full coverage in 3 years

- **Technology for Planning**
  - GIS based decision making
  - National GIS Mission Mode Project

- **Technology for Farmers**
  - Real time price information
  - Online ordering of inputs
  - Online cash, loan, relief payment with mobile banking

- **Technology for Security**
  - Mobile Emergency Services

- **Technology for Financial Inclusion**
  - Mobile Banking
  - Micro-ATM program
  - CSCs/ Post Offices

- **Technology for Justice**
  - e-Courts, e-Police, e-Jails, e-Prosecution

- **Technology for Security**
  - National Cyber Security Co-ordination Center

Ongoing Programme (NeGP) – will be revamped to cover these elements

Pillar 6. Information for All

- **Online Hosting of Information & documents**
  - Citizens have open, easy access to information
  - Open data platform

- **Government pro-actively engages through social media** and web based platforms to inform citizens
  - MyGov.in
  - **2-way communication** between citizens and government

- **Online messaging** to citizens on special occasions/programs

- **<u>Largely utilise existing infrastructure</u>** – limited additional resources needed

Pillar 7. Electronics Manufacturing
Target NET ZERO IMPORTS by 2020

- **Target NET ZERO Imports is a striking demonstration of intent**
- **Ambitious goal** which requires coordinated action on many fronts
  - Taxation, Incentives
  - Economies of Scale, Eliminate cost disadvantages
  - **Focused areas – Big Ticket Items**
    - FABS, Fab-less design, Set top boxes, VSATs, Mobiles, Consumer & Medical Electronics, Smart Energy meters, Smart cards, micro-ATMs
  - Incubators, clusters
  - Skill development
  - Government procurement

- There are many ongoing programs which will be fine-tuned.

- **Existing Structures inadequate to handle this goal. Need strengthening.**

Pillar 8. IT for Jobs

Train people in smaller towns & villages for IT sector jobs

- **Coverage: 1 Crore students**
- **Timeline: 5 years**
- **Cost: Rs 200 Cr for weaker sections**
- **Nodal Agency: DeitY**

<u>**New Scheme**</u>

IT ready workforce

IT/ITES in NE

- **Scope: Setting up of BPO per NE State**
- **Coverage: NE States**
- **Nodal Agency:** DeitY

ICT enabled growth in NE

Train Service Delivery Agents to run viable businesses delivering IT services

- **Coverage: 3**,00,000
- **Timeline: 2 Years**
- **Nodal Agency:** DeitY

<u>**Ongoing**</u>

Skilled VLEs and Viable CSCs

Telecom service providers to train rural workforce to cater to their own needs

- **Coverage:** 5,00,000
- **Timeline: 5 Years**
- **Nodal Agency:** DoT

Telecom ready workforce

Pillar 9. Early Harvest Programmes

IT platform for messages

- Coverage: Elected representatives, All Govt employees
- 1.36 Cr mobiles and 22 Lakh emails
- Mass Messaging Application developed

Targeted Mass messaging since July 14

Government Greetings to be e-Greetings

- Basket of e-Greetings templates available
- Crowd sourcing of e-Greetings thru MyGov
- e-Greetings Portal ready by 14 August 2014

1st e-Greeting from PM on 15th Aug 2014

Biometric attendance

- Coverage: All Central Govt. Offices in Delhi
- Operational in DeitY & Initiated in Urban Development
- On-boarding started in other depts
- Procurement of devices – tender issued

To be completed by Oct 2014

Pillar 9. Early Harvest Programmes

Wi-fi in All Universities

- Scope: All universities on NKN
- 400 additional Universities
- Cost: Rs 790 Cr

Approval - Oct 2014 Implementation done by Dec 2015

Secure email within government

- Phase I upgradation for 10 Lakh employees done
- Ph II for 50 Lakh employees by March 2015
- Cost: Rs 98 Cr

Email to be primary mode of communication

Standardize government email design

- Standardised templates under preparation

To be ready by October 2014

Pillar 9. Early Harvest Programmes

Public wifi hotspots

- **Coverage:** Cities with pop > 1 Mill., tourist centres
- **Nodal Agency: DoT/ MoUD**

Digital Cities Completed by Dec 2015

School Books to be eBooks

- **Nodal Agency: MHRD/ DeitY**

Completed by Mar 2015

SMS based weather information, disaster alerts

- **DeitY's Mobile Seva Platform ready**
- **Nodal Agency:** MoES (IMD) / MHA (NDMA)
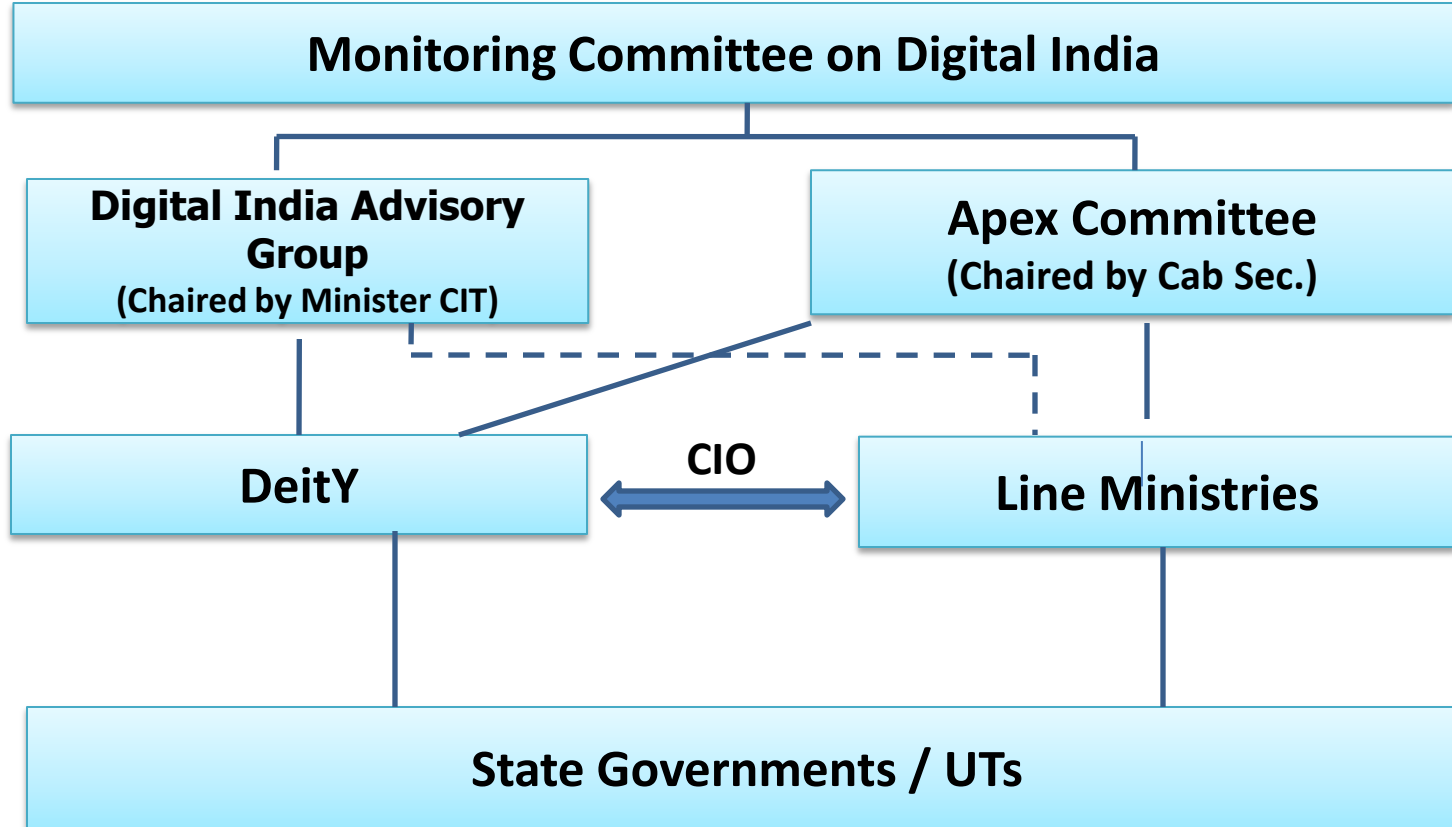
In place by Dec 2014

National Portal for Lost & Found children

- **Nodal Agency:** DeitY/ DoWCD

In place by Oct 2014

Composition of Monitoring Committee on Digital India

- **Prime Minister – Chairman**
- Finance Minister
- Minister of Communications & IT
- Minister of RD
- Minister of HRD
- Minister of Health

Special Invitees:

- Principal Secretary to PM
- Cabinet Secretary
- Secretaries of Expenditure, Planning, DoT and Posts
- Secretary, DeitY – Convener

DIGITAL INDIA

MINISTER
(Communications & IT)

SECRETARY
(DeitY)

Reorganisation of NIC

CIOs in important Ministries

Addl. Secretary
(e-Gov)

Joint Secretary
(Electronics Hardware Manufacturing)

Joint Secretary
(Personnel, Admn. & Industry Promotion S/W)

Addl. Secretary
(Digital India)

Electronic Manufacturing – Target Net Zero Imports

Joint Secretary
(e-Gov)

Joint Secretary
(Infrastructure Development)

Joint Secretary
(Capacity Building & Digital Enablement of Citizens)

Joint Secretary
(IT applications in un-covered areas & Process Re-engineering

Electronic Delivery of Services - eKranti

Public Internet Access Programme

Technology for Jobs

Information for All

E-Governance: Reforming Government through Technology

Estimated Costs and Impacts

- **Overall Costs of Digital India**
  - ~ Rs 100,000 Cr in ongoing schemes (only DeitY, DOT & not incl. those in other line Ministries)
  - ~ Rs 13,000 Cr for new schemes & activities
- **Impact of Digital India by 2019**
  - Broadband in 2.5 lakh villages, universal phone connectivity
  - Net Zero Imports by 2020
  - 400,000 Public Internet Access Points
  - Wi-fi in 2.5 lakh schools, all universities; Public wi-fi hotspots for citizens
  - Digital Inclusion: 1.7 Cr trained for IT, Telecom and Electronics Jobs
  - Job creation: Direct 1.7 Cr. and Indirect at least 8.5 Cr.
  - e-Governance & eServices: Across government
  - India to be leader in IT use in services – health, education, banking
  - Digitally empowered citizens – public cloud, internet access

Challenges & Changes Needed

- **Program on this scale never conceived**
- **Each Pillar/program has own challenges**
- **Human Resource Issues**
  - NIC - not equipped for a fraction of this task (obsolesce) - needs revamping & restructuring
  - DeitY – needs program managers – at least 4 more officers at senior levels
  - **Ministries – Need a Chief Information Officer / Chief Technology Officer (CIO/CTO)**
    - Could begin with CIOs 10 major Ministries
    - Can be anyone – from within or outside government
    - To be patterned as AS & FAs – dual reporting
- **Financial Resource Issues**
  - Mostly structured around ongoing programs : Better focus, need some restructuring
  - Some others are process improvements or better utilisation of resources
  - A few new programs may be needed – particularly in Electronics manufacturing and Skill Development

- **Coordination Issues**
  - Program covers many other departments
  - Need commitment and effort
  - Leadership and support critical for success

THANK YOU