Digital India

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

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

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

1yr: 50,000 GP
2yr: 100,000 GP
3yr: 100,000 GP

Changes in Rules to facilitate.

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

**Post Offices** to become Multi-Service Centres
- **Coverage:** 1,50,000 Post Offices
- **Timeline:** 2 Years
- **Nodal Agency:** D/o Posts

**Ongoing Programme**
Reach of Govt. services to all GPs

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

- **To be implemented across government** - critical for transformation.
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

- **Largely utilise existing infrastructure** – 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

IT/ITES in NE
- Scope: Setting up of BPO per NE State
- Coverage: NE States
- Nodal Agency: DeitY

Train Service Delivery Agents to run viable businesses delivering IT services
- Coverage: 3,00,000
- Timeline: 2 Years
- Nodal Agency: DeitY

Telecom service providers to train rural workforce to cater to their own needs
- Coverage: 5,00,000
- Timeline: 5 Years
- Nodal Agency: DoT

New Scheme
IT ready workforce

ICT enabled growth in NE

Ongoing
Skilled VLEs and Viable CSCs

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

**School Books to be eBooks**
- **Nodal Agency:** MHRD/ DeitY

**SMS based weather information, disaster alerts**
- **DeitY’s Mobile Seva Platform ready**
- **Nodal Agency:** MoES (IMD) / MHA (NDMA)

**National Portal for Lost & Found children**
- **Nodal Agency:** DeitY/ DoWCD
Digital India Advisory Group (Chaired by Minister CIT)

DeitY

Apex Committee (Chaired by Cab Sec.)

Line Ministries

State Governments / UTs
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
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