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

**Changes in Rules to facilitate.**
- 1yr: 50,000 GP
- 2yr: 100,000 GP
- 3yr: 100,000 GP

**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

**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
  - 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
Institutional Mechanisms at National Level

Monitoring Committee on Digital India

Digital India Advisory Group (Chaired by Minister CIT)

Apex Committee (Chaired by Cab Sec.)

DeitY

Line Ministries

CIO

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
4. e-Governance: Reforming Government through Technology

**Business Process Re-engineering — using IT to improve transactions**
- Coverage: All dept(s)
- Timeline: Over 3 Years
- Nodal Agency: DARPG / DeitY / Line Ministries / State Governments

**Electronic Storage of Information**
- Coverage: All dept(s)
- Timeline: Over 2 Years
- Nodal Agency: DeitY / Line Ministries / State Governments

**Workflow automation**
- Coverage: Inside Government & citizen centric services
- Timeline: Over 3 Years
- Nodal Agency: DeitY / Line Ministries / State Governments

- All depts undertaking GPR
- All depts having electronic DB hosted on cloud
- All depts having automated w/f
4. e-Governance: Reforming Government through Technology

Electronic Storage – of information

- Coverage: All dept(s)
- Timeline: in phase manner
- Nodal Agency: DeitY/Line Ministries/State Governments

Govt. data hosted in GI Cloud “MeghRaj”

Public Grievance Redressal – IT to leverage in complaint mgmt & ensure visibility to govt. processes

- Coverage: All dept(s)
- Nodal Agency: DARPG/Line Ministries/State Governments

Automated Public Grievance Redressal
6. eKranti - Electronic Delivery of Services

Expand Mission Mode Projects
- Coverage: from 31 MMPs to 100 MMPs
- Timeline: Over 2 Years
- Nodal Agency: DeitY

Revamp Existing MMPs
- Convergence: Infrastructure and Services
- Communications: Data Exchange & open APIs
- Leveraging Common Platforms & Cloud

Technology for Education (e-Education)
- Scope: All Schools connected with broadband, Free wifi in all schools & MOOCs (Massive Online Open Courses)
- Coverage: 250,000 Schools
- Timeline: 2 Years
- Nodal Agency: MHRD
6. eKranti - Electronic Delivery of Services

**Digital Literacy program**
- Coverage: 50,00,000
- Timeline: 5 Years
- Cost: Rs 500 Cr
- Nodal Agency: DeitY

**Technology for Health**
- Scope: Online consultation, records, supply and pan-India exchange for patient information
- Coverage: Nationwide
- Timeline: Pilot by 2015 and full implementation in 3 years
- Nodal Agency: MoHFW

**Technology for Farmers**
- Scope: Real time price info, Online ordering, cash, loan, relief payment with mobile banking
- Coverage: Nationwide
- Timeline: Pilot by 2015 and full implementation in 3 years
- Nodal Agency: MoAgri/ DeitY/ Fertilizers/ DFS

Digital Inclusion
Complete online medical records by 2020
Direct Impact on Agriculture sector & Farmers

Digital Inclusion
6. eKranti - Electronic Delivery of Services

**Technology for Security**
- Mobile Emergency services/alerts
  - Coverage: All Control Rooms
  - Nodal Agency: MHA (NDMA) and MoES (IMD)

**Alerts on real time basis**

**Technology for Financial Inclusion**
- Scope: Mobile Banking, Micro-ATM programme, CSCs
- Coverage: Nationwide
- Timeline: 2015 end
- Nodal Agency: DFS, DoT and DeitY

**Financial Services to citizens**
6. eKranti - Electronic Delivery of Services

**Technology for Justice**
- **Scope:** e-Courts, e-Police, e-Jails, e-Prosecution
- **Coverage:** Nationwide
- **Timeline:** 2015 end
- **Nodal Agency:** DFS, DoJ and DeitY

**Technology for Better Planning**
- **GIS based Decision Making**
- **Social Media (MyGov)**
- **Data Analytics and BI**
- **National GIS Mission Mode Project**

**Technology for Security**
- **National Cyber Security Coordination Center**
- **Cost:** Rs 1100 Cr
3. Electronics Manufacturing
TARGET NET ZERO IMPORTS by 2020

- Duties, Taxes & Incentives
  - Eliminate cost disadvantages
  - Manufacturing
  - Fabless design

- Big Ticket Items
  - IT, Telecom equipments, Mobiles, Consumer & Medical Electronics, LED, Solar, Automotives etc

- Defense Electronics
  - Focus on indigenous manufacturing

- Innovation
  - Through Industries

- National Electronics Mission
  - Creation of an empowered body
  - Institutional Capacity

- Clusters
  - Facilitating Infra for manufacturing

- Wafer Fabs
  - Indigenous manufacturing of critical electronic components in 2 years

- Skill Development
  - Vocational / Shop floor
  - Graduate / Post Graduate and PHDs
3. Electronics Manufacturing

**Incentives**
- M-SIPS
- Rationalizing taxes & duties
- Preferential market access
- Incentives for fabless design (NEW)
- Cost: Rs 24000 Cr

**Clusters**
- Coverage: 5 Greenfield EMCs operational
- Timeline: 5 years
- Cost: Rs 1,500 Cr (Govt share Rs 500 Cr)

**Promoting Innovation**
- Electronic Development Fund
- PhD Scheme
- National Centres of Excellence (emerging technologies)
- Incubators
- Cost: Rs 5,000 Cr

**60 Bn turnover over 6 years**
- Direct Employment: 1.5 Million
- Indirect Employment: 6 Million

**Infrastructure for electronics manufacturing**

**Electronics Products with IP in India**
3. Electronics Manufacturing (Contd.)

**Wafer Fabs**
- Coverage: 2 Fabs
- Timeline: 3 years
- Cost: Rs 12,419 Cr + Rs 23,347 Cr + Rs 1,400 Cr over XII, XIII and XIV Plan periods

**Skill Development**
- Coverage: 4,00,000
- Timeline: 5 years
- Cost: Rs 575 Cr

**National Electronics Mission**
- Empowered Inter-ministerial body to expedite implementation
- Approval in 6 months

**Semiconductor CHIPS for strategic / commercial use**
- 4 Lakhs workforce ready for Electronics
- Fast track implementation
To prepare India for a knowledge world, the Digital India initiative aims to build and sustain all associated critical elements.

- Positive Perception & Sustaining Momentum
- Outcome
- Services
- Delivery Platform
- Processes
- Skills & Talent
- Infrastructure
222 Services provided (out of 252 planned)  
Over 11 Cr e-Txns/month  
(from Jan’14-July’14)
# India’s Rank on Ease of Doing Business – 134 (World Bank Ranking 2014)

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<th>Rank (2014)</th>
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<td>Dealing with Construction Permits</td>
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