



Department of Electronics
and Information Technology,
Government of India



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**

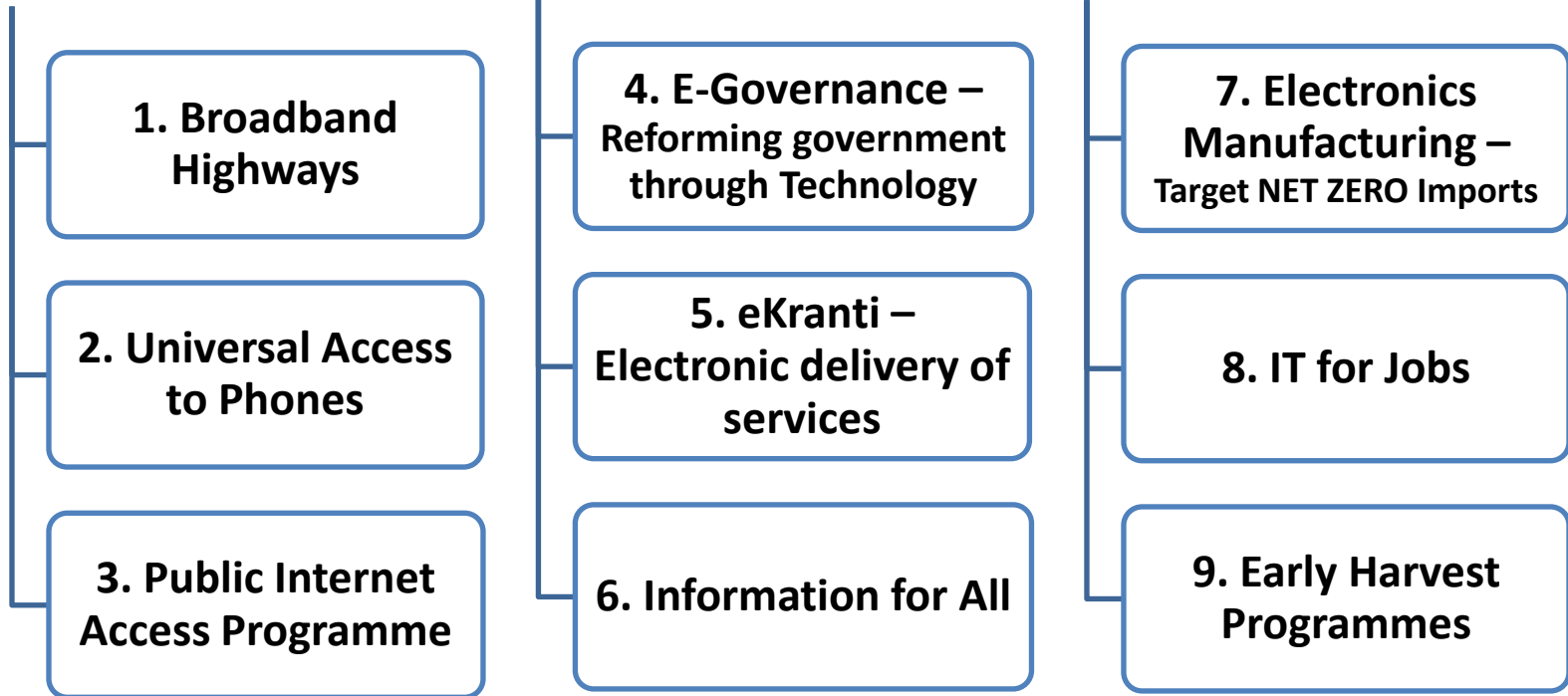
Vision Area 2: Governance & Services On Demand

- **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



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
- **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

New Scheme

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

Ongoing

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

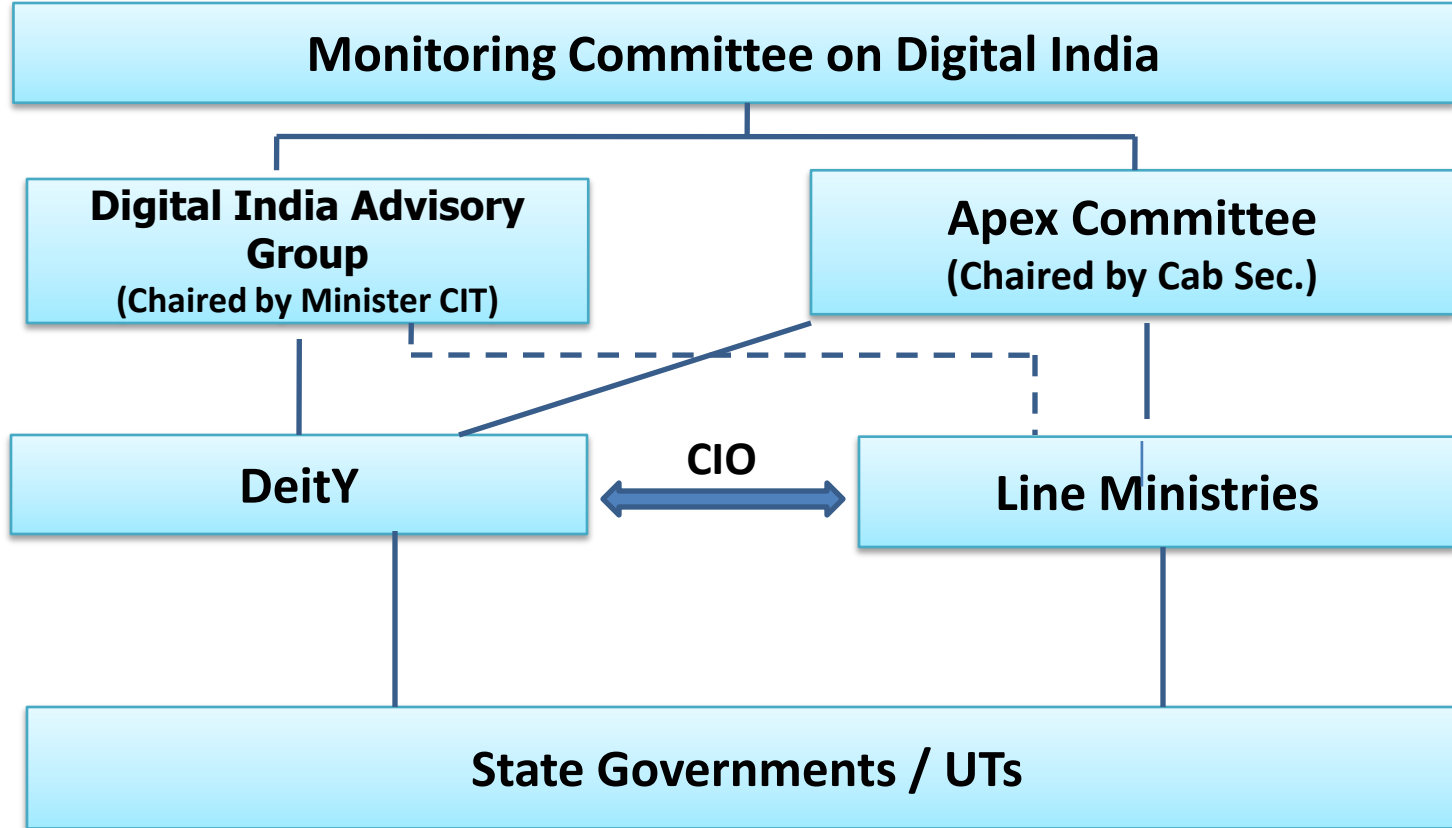
National Portal for Lost & Found children

- **Nodal Agency:** DeitY/ DoWCD

In place by Oct
2014

DIGITAL INDIA

Institutional Mechanisms at National Level



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

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

All depts undertaking GPR

Electronic Storage of Information

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

All depts having electronic DB hosted on cloud

Workflow automation

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

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

43 MMPs by 2014

Revamp Existing MMPs

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

Integrated Services

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

eLearning

6. eKranti - Electronic Delivery of Services

Digital Literacy program – CSCs/ others

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

Digital
Inclusion

Technology for Health- e-Healthcare

- **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

Complete online
medical records
by 2020

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

Direct Impact
on Agriculture
sector &
Farmers

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

Justice in fast track mode

Technology for Better Planning

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

Better Implementation

Technology for Security

- **National Cyber Security Coordination Center**
- **Cost: Rs 1100 Cr**

Safe & Secure e-Transactions

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

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

Clusters

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

Infrastructure for electronics manufacturing

Promoting Innovation

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

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

Semiconductor CHIPS for strategic / commercial use

Skill Development

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

4 Lakhs workforce ready for Electronics

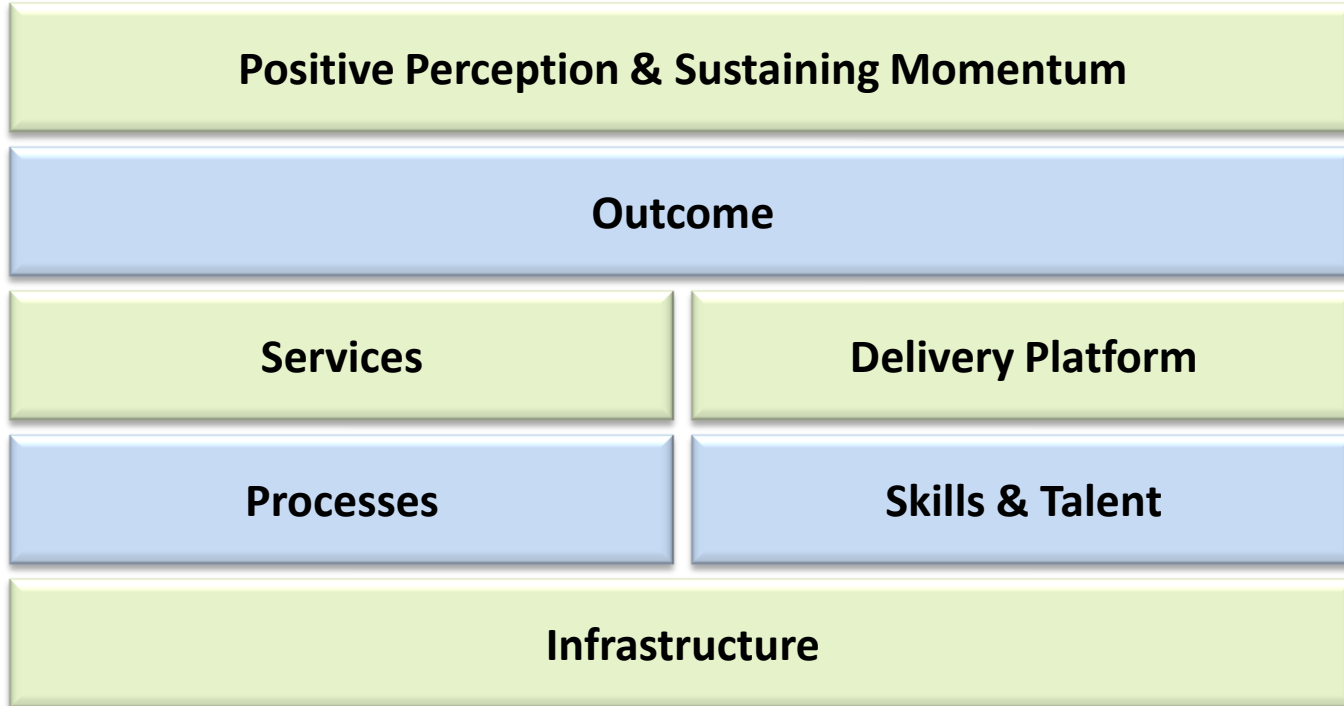
National Electronics Mission

- Empowered Inter-ministerial body to expedite implementation
- Approval in 6 months

Fast track implementation

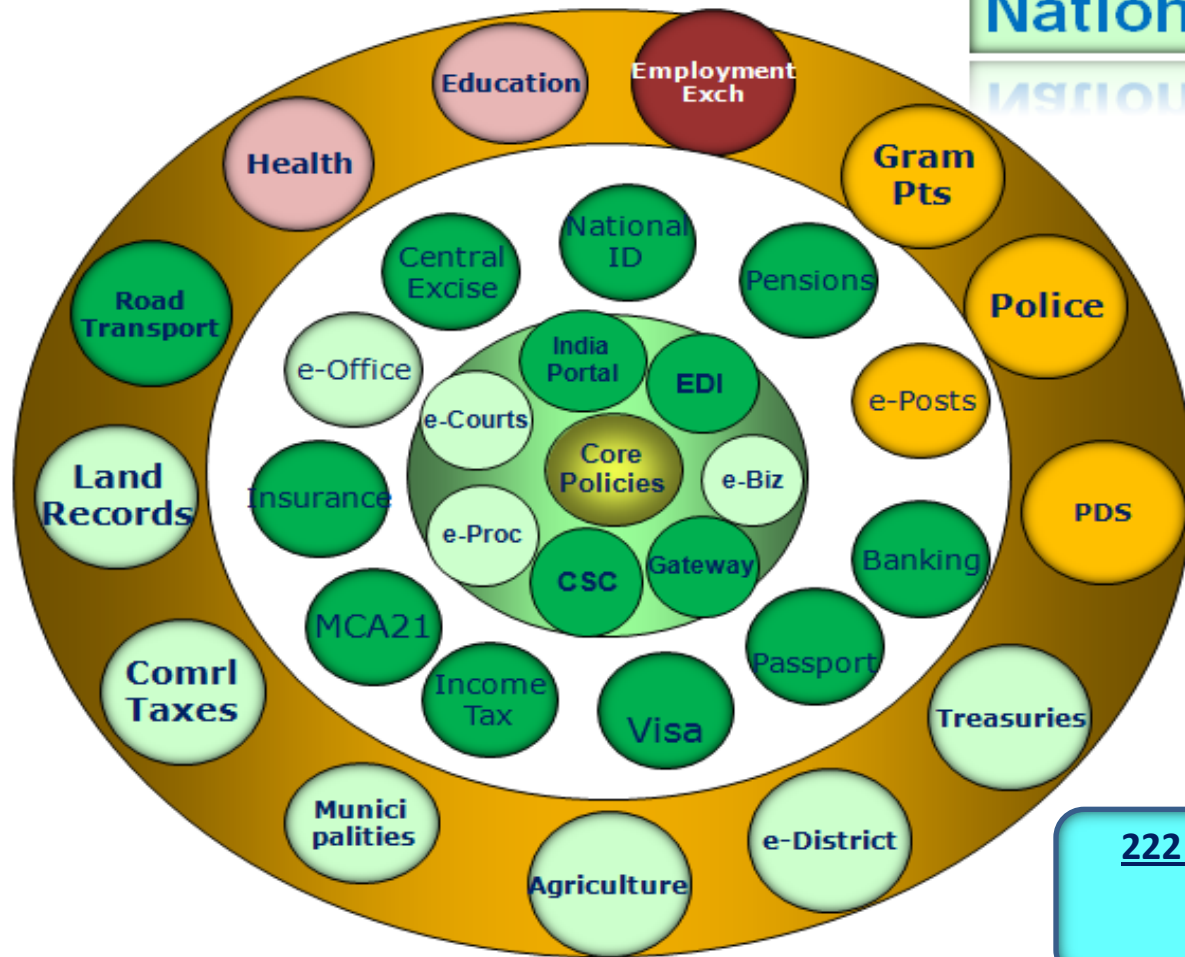
DIGITAL INDIA

To prepare India for a knowledge world, the Digital India initiative aims to build and sustain all associated critical elements..



National e-Governance Plan

MISSION 6-GOALSUC6 LISU



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)

Sr. No.	Component	Rank (2014)
1	Starting a Business	179
2	Dealing with Construction Permits	182
3	Getting Electricity	111
4	Registering Property	92
5	Getting Credit	28
6	Protecting Investors	34
7	Paying Taxes	158
8	Trading Across Borders	132
9	Enforcing Contracts	186
10	Resolving Insolvency	121