

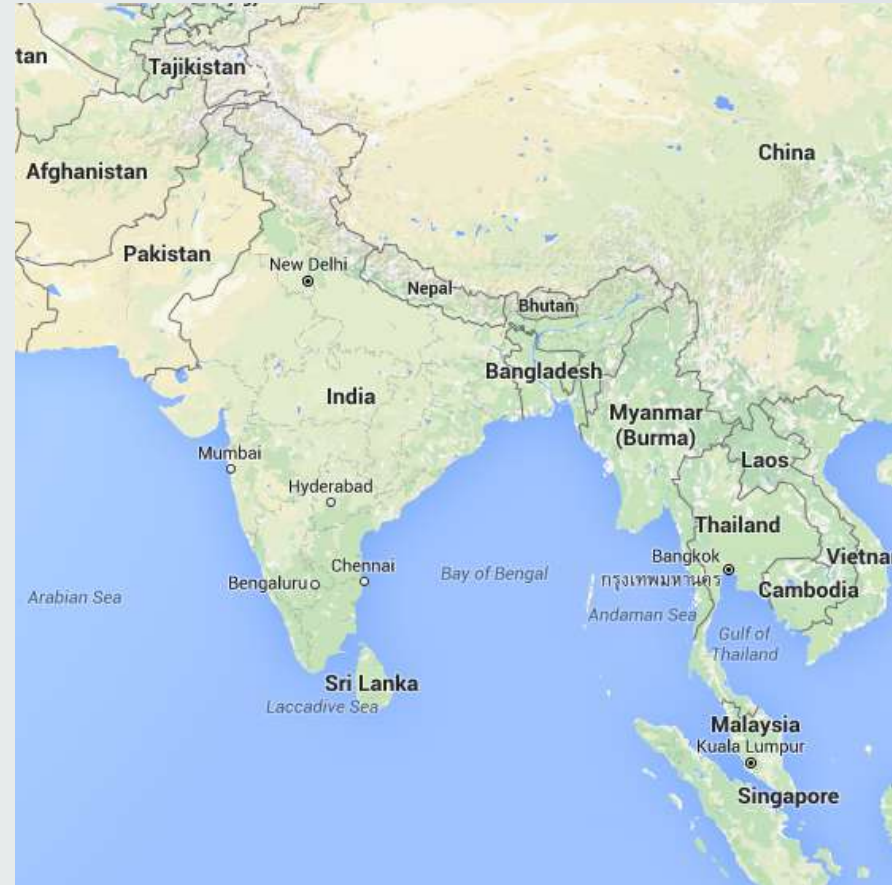


Vision and Key Focus Areas of Digital India Program

Brief Overview of India

- 7th largest country in the world
- Population: >1.2 billion
- 600,000+ villages, 70% population rural
- Multi-ethnic, Multi-religious society
- Multi-lingual: 22 Official languages
- 36 States & UTs; 250,000 + Local Bodies
- Accelerating GDP growth
- Experiencing High and Explosive telecom growth
 - Mobile Users : > 1.17 billion
 - Smartphone User : 340* million

* Source: www.statista.com



Short Film on Digital India

Digital India

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

Digital Infrastructure as a Utility to Every Citizen

- High speed internet
- Unique digital identity
- Mobile phone & bank account
- Easy Access to a Common Service Centre
- Private space on Cloud
- Secure cyber-space

Services on Demand to Citizens

- Integrated services
- services availability in realtime through online & mobile platforms
- Enable Citizen entitlements on Cloud
- Reform processes for ease of doing business
- Making all transactions electronic
- Geospatial Information Systems (GIS) as Decision Support System

Digital Empowerment of Citizens

- Digital literacy
- Setup Collaborative digital platforms
- Digital resources
- Digital resources / services in Indian languages
- No physical submission of documents
- Effective Outreach

Nine Pillars of Digital India

Broadband Highways

Universal Access to Mobile Connectivity

Public Internet Access Programme

Reforming Governance through Technology

E-Kranti: Electronic Delivery of Services

Information for All

Electronic Manufacturing

IT for Jobs

Early Harvest Programme

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Broadband connectivity in rural and urban areas

- Broadband network for 250,000 local bodies in 600,000 villages
- Over 90,000 local bodies provided broadband connectivity
- National Knowledge Network providing High speed connectivity to 1630 institutions

Universal Access to Mobile phones in rural, hilly and urban areas

- Large base of mobile users
- Over 1.0 billion mobile phone users
- 340 million smart phone users
- India emerging manufacturing hub of mobile parts
- 70+ Mobile components manufacturing units setup in one year

Common Services Centres (CSCs) –

Viable, Multi-functional e-Services delivery outlets closer to the doorsteps of citizen

- Provide access to eServices in rural areas through 250,000 CSCs, a component of PIA Programme
- Offer over **2500 e-services**
- Run by village level digital entrepreneurs
- These centres also being leveraged for Digital Literacy Programme.

- **Government Process Re-engineering**
 - Form Simplification
 - Integration of common services and platforms – Unique Identification Authority of India (UIDAI), Payment Gateway, Mobile Platform, Digital Locker, etc.
- **Electronic Databases**
- **Workflow automation**
- **Public Grievance Redressal**
- **Being implemented across government - critical for transformation.**

- **Technology for Education – e-Education**
 - All Schools connected with broadband
 - Free wifi in all schools (250,000)
 - Digital Literacy program
 - MOOCs –Massive Online Open Courses
- **Technology for Health – e-Healthcare**
 - Online medical consultation
 - Online medical records
 - Online medicine supply
 - Pan-India exchange for patient information
- **Technology for Planning**
 - GIS based decision making
 - Data Analytic Platform
- **Technology for e-Procurement**
 - Government e-Market Place (GeM)
- **Technology for Farmers**
 - Real time price information
 - Online ordering of inputs
 - Online cash, loan, relief payment with mobile banking
- **Technology for Financial Inclusion**
 - Digital Payment Platforms
 - Common Services Centers, Post Offices
- **Technology for Paperless Transactions**
 - Digital Locker
- **Technology for Faceless Transactions**
 - eSign
- **Technology for Security**
 - National Cyber Security Co-ordination Center

- **Online Hosting of Information & documents**
 - Citizens have open, easy access to information
 - Open data platform (<https://data.gov.in/>)
 - 105 Departments, 4143 catalogues and 100,000+ data sets
 - Open Forge Platform (<https://openforge.gov.in/>)
- **Government pro-actively engages through social media** and web based platforms to inform citizens
 - <http://mygov.in/> - **2-way communication** between citizens and government
 - Over 4.227 million registered users
 - Over 3.746 million comments
 - MyGov Mobile App has also been developed

Pillar 7. Electronic Manufacturing

- **Manufacture electronic products to bring down their import to Zero**
- Set up Electronic manufacturing clusters (Green field and Brown field)
- Support for setting up basic infrastructure, amenities and common facilities
- Promoting Foreign companies to set up manufacturing units in India
 - **Focused areas – Big Ticket Items**
 - FABS, Fab-less design, Set top boxes, VSATs, Mobiles, Consumer & Medical Electronics, Smart Energy meters, Smart cards, micro-ATMs
 - Skill development
- **Electronics Development Fund** established to foster innovation, IP Creation and commercialization of R & D products and promote start-ups

India BPO Promotion Scheme

- Support to extent of 50% of CAPEX in setting up BPO/ITES Operations across country.
- Additional 5% support in CAPEX if 50% are women employees
- Employment Opportunities for 145,000 persons.
- Opportunities for 15000 persons in North Eastern Region

Government Greetings to be e-Greetings

- **e-Greetings** portal – <https://egreetings.india.gov.in/>
- Over 30 million e-Greetings sent
- Over 44+ greeting categories and 820 cards are available to send greetings in electronic form on various occasions such as Independence Day, New Year, etc.

Biometric Attendance System

- Attendance of Government employees through Biometric Authentication (<http://attendance.gov.in/>)
- 625 Central Govt offices onboarded, Over 178, 410 employees registered
- 20 State/UT Governments and over 3 lakh employees registered

Focus Area 1: Digital Infrastructure as Utility

Broad Band Connectivity

Mobile Connectivity

Common Service Centre

Aadhaar / Unique Digital Identity

- Unique Digital Identity provided to 1.14 billion Indian residents
- Largest biometric database in the world
- 99% of adult population covered
- Unique ID seeded into databases of various Government welfare schemes



Cyber Security

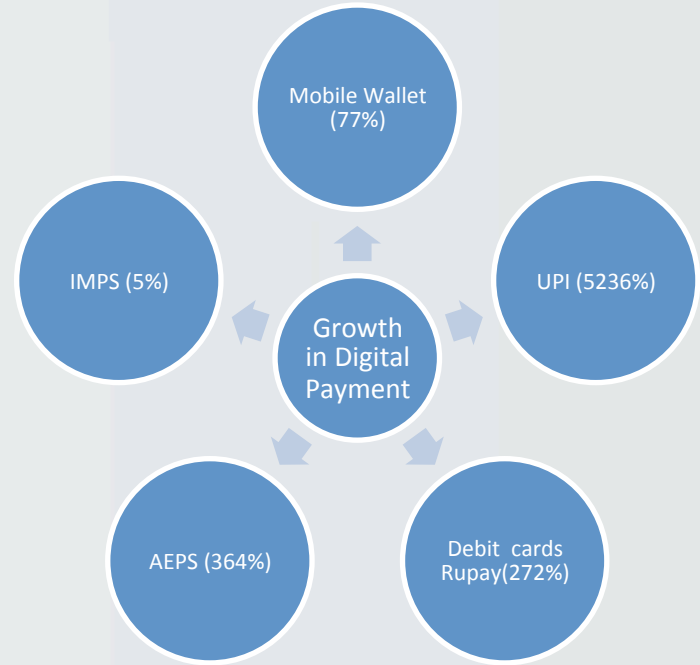
- Published **Policy on National Cyber Security** to protect Critical ICT Infrastructure
- **Botnet** cleaning and **malware** analysis centre opened with Internet Service Providers and Anti Virus developing companies to develop antidotes
- **National Cyber Security Coordination Centre** shortly coming up for near real time threat assessment and situational awareness
- **Security drills**, audit and security assessment undertaken for Government organizations and critical sector
- A separate division in CERT-IN set up for financial sector



Focus Area 2: Making Govt. Services Available to Citizens

Digital Platform

- ❖ Set up Digital payment Platforms
- ❖ Created 5 new digital payment modes
 - ❖ Mobile Wallet
 - ❖ Unified Payment Interface (UPI)
 - ❖ Debit Card (RuPay)
 - ❖ Immediate Payment Service (IMPS)
 - ❖ Aadhaar Enabled Payment Service (AEPS)
- ❖ Trained and enabled 1.86 m traders



e-National Agriculture Market

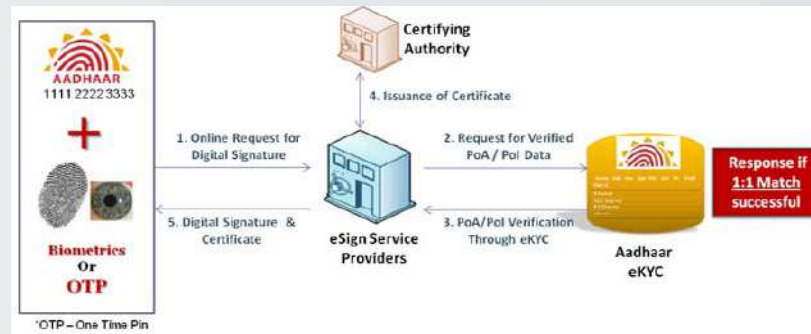
- Portal to integrate National Agriculture Markets
- 417 Markets connected
- 69 Commodities traded with total trade value of ₹ 13.219 bn
- Helps in discovering the sale price of commodities and procurement price of fertilizers, seeds and pesticides
- Each market provides facility to assess the quality of commodities
- Provision to issue soil health cards. 68m cards issued.

Education-Swayam Portal

- Portal offering free online courses from High class to PG classes
- Mode of instructions are video and reading material
- Online tests and quizzes for Self assessment
- Forum for clearing the doubts
- 5 m books and 18000 journals converted to eBooks
- 1,600 knowledge institutions connected through National Knowledge Network

Innovative Digital Signature : e-Sign

- Digital Signature Certificate treated on par with physical signature as per IT Act, 2000
- Gap in operational aspects of Digital Signature Certificate
 - Dongle based
 - Time-bound Validity
 - Prone to misuse like impersonation
 - Limited adoption
- E-Sign
 - Safe and Secure and biometric based authenticated
 - Life long
 - Cannot be impersonated
 - Hassle free as it cannot be misplaced, misused or lost
 - Cost effective as business model could be based on transaction



Digital Locker

- <https://digilocker.gov.in/>
- Objective:
 - Providing Online facility to citizens for store government certificates / documents
 - Providing accessibility from anywhere and at anytime basis
 - Providing facility to share the documents with service providers
 - Getting rid of physical possession of documents and physical visits for availing services
- Safe and secure authentication through Aadhaar (UID)
- Coverage e-District, Educational Certificates...etc

Digital Locker: Secure Dedicated Personal Electronic Space



● Launched in **July 2015**

● Authenticated Documents

● Online Verification through URI's

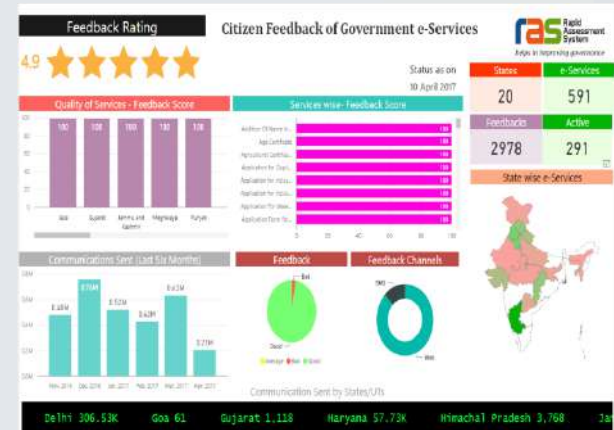
● Leveraging Open Source technology Stack

● E-Sign for scanned documents



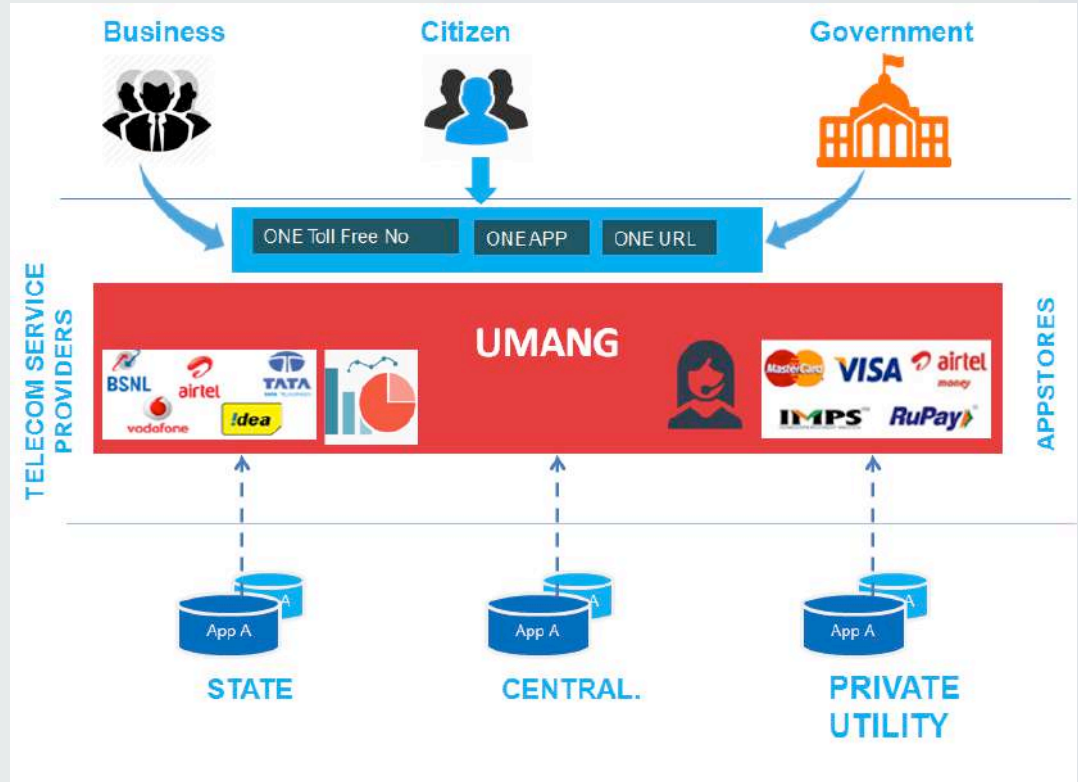
Rapid Assessment System (RAS)

- Citizen feedback to continuously assess the quality of eServices and realign goals to achieve targeted benefits.
- Trigger based service integration through APIs with departments' process workflow.
- Localization support (Allows citizen to give feedback in his/her local language)
- Feedback through multiple communication channels like SMS or Web Browser or Mobile Application

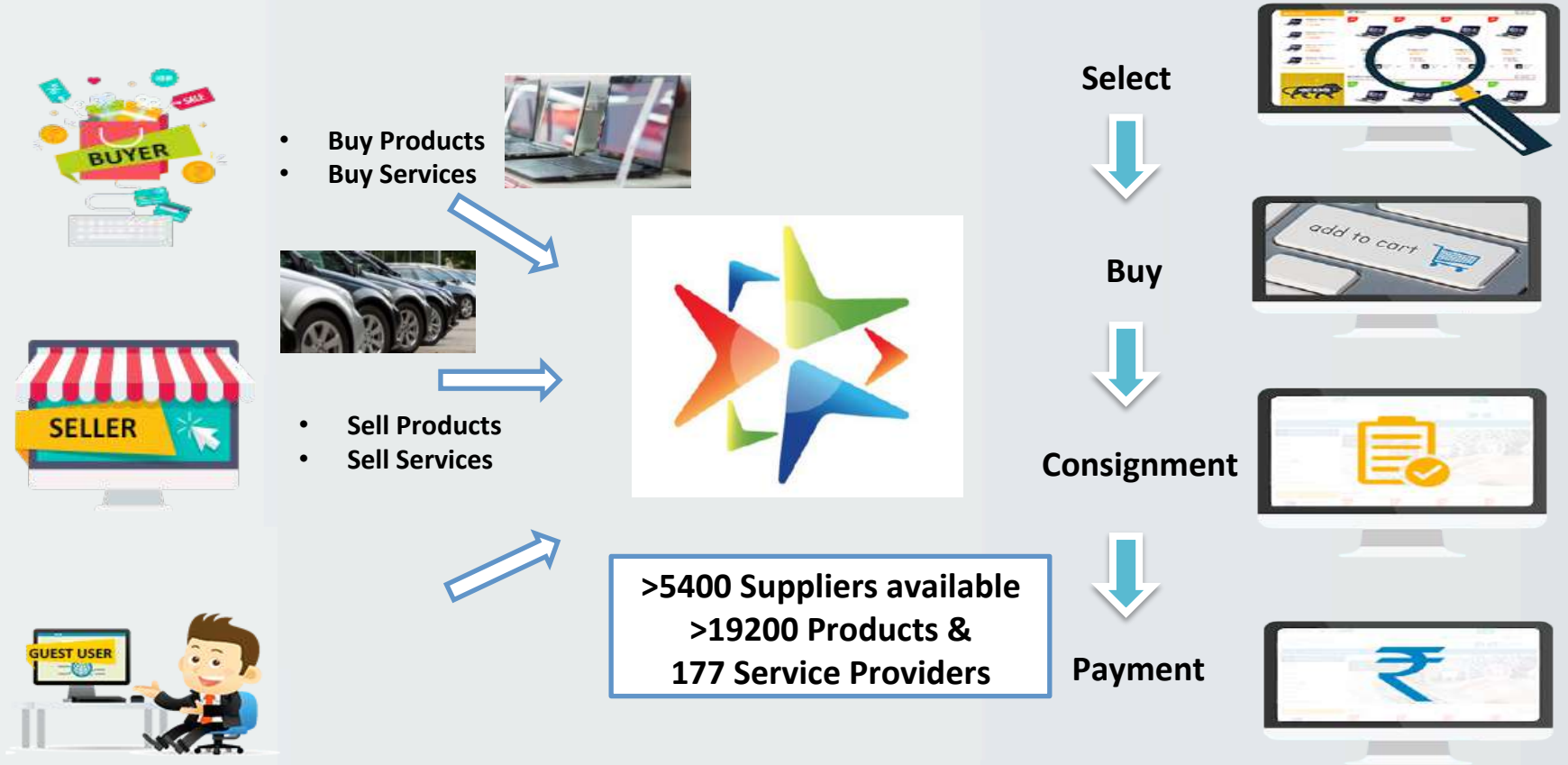


Unified Mobile Application for New-Age Governance (UMANG)

- Single Mobile App for 200 departments providing 1200 eservices
- Single App results in Memory Optimization, reduction in efforts
- Universal Access through Single Sign-On
- A Single toll free number for support and Live Chat
- Bridges the information gap and provide equal opportunity to all



Government e-Marketplace (GeM)



PKI for e-transactions

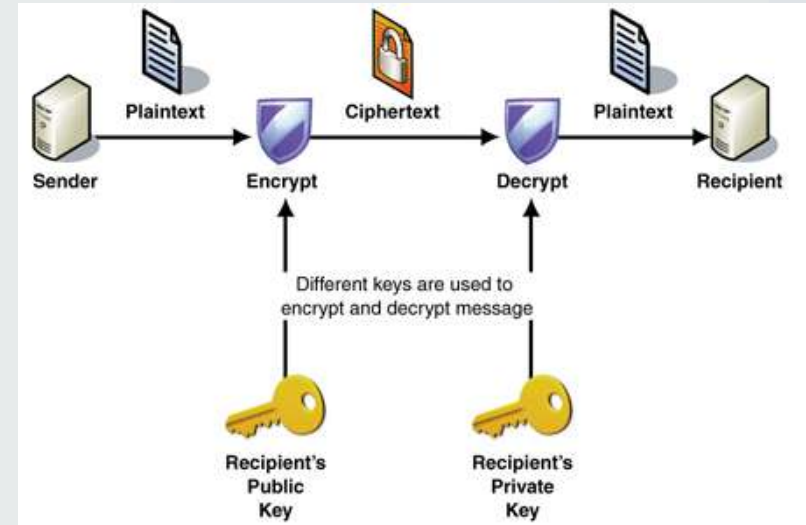
Guaranteed Confidentiality of financial quotes of GeM

Privacy-RSA Algorithm (2048 bits)

Authentication-Aadhaar

Integrity- SHA-2 family of hash algorithms

Non Repudiation- eSign



Space & Geo-Informatics System

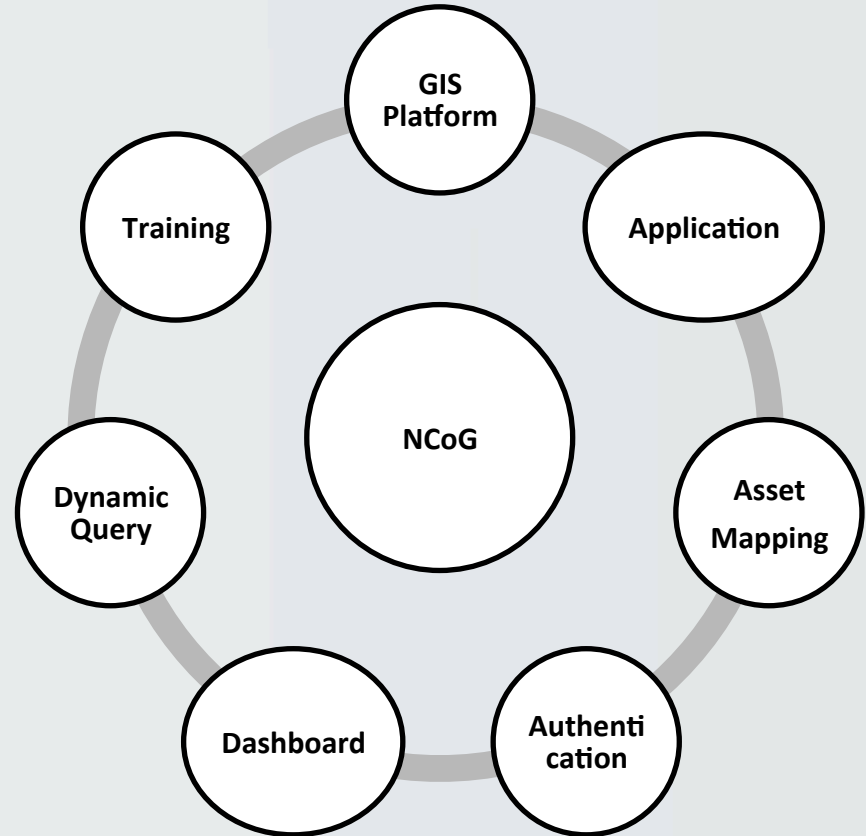
Standard platform
for GIS based decision support

1:5000 scale basemap

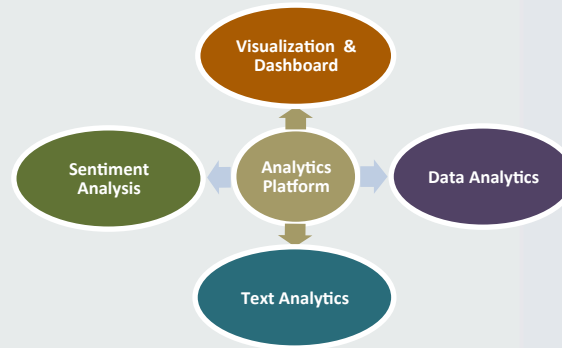
Compatibility of multi-purpose
geo-datasets

User can plot asset/features
on own

14 Applications Integration



Elements of Data Analytics Platform



Self Service Mode

- Select service, upload data and create dashboard using one of the tools

Assisted Mode

- Discuss requirements, data preparation, interact with analytics team and verify dashboards before use



Focus Area 3: Empowering Citizen

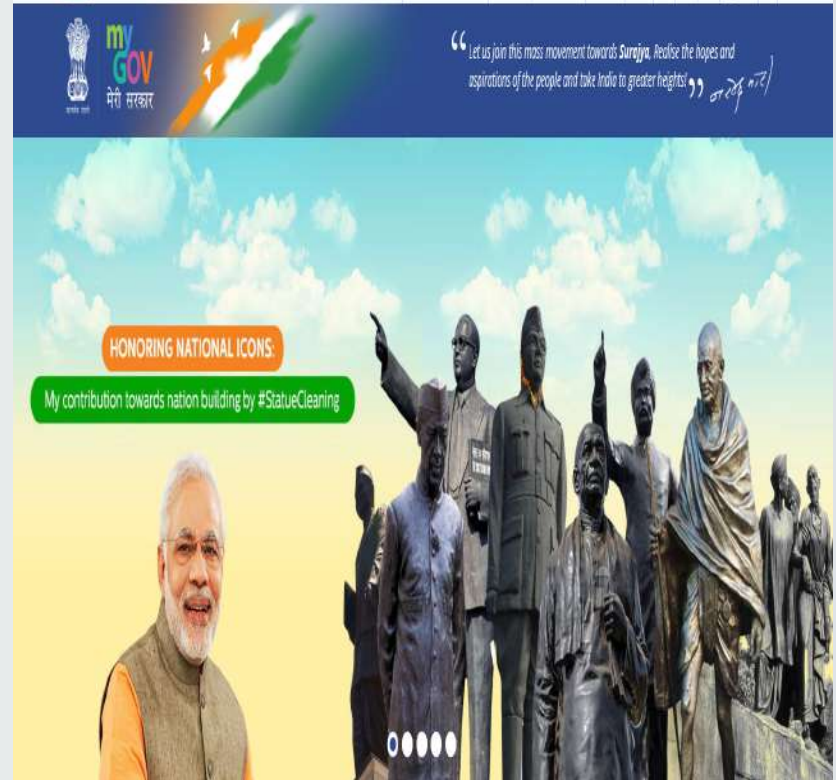
Digital Literacy – NDLM/DISHA

- Target Set: Train **5.25 m** in **4** years and Trained 8.27 m
- New scheme approved in Feb 2017 to train 60 m by Mar 2019
- Vision: Train one adult from each village household
- Types of Courses: Level 1 and Level 2

Year	Target	Trained	% of Target
2014-15	7,18,750	21,540	3%
2015-16	13,43,750	42,93,419	320%
2016-17	15,93,750	39,59,875	248%
2017-18	15,93,750	N/A	
Total	5250000	8274834	157%

MyGov Social Media

- **MyGov** enables citizen to feedback, ideas, suggestions on Government Schemes/ Policies/ Programs
- Top leadership acknowledges citizens constructive contribution and imbibes into different schemes
- Creative corners designed to invite logos, punch lines and slogans for different schemes
- 4.227m users registered and 3.746 m comments received



Linkages of DI with Action Points of WSIS and SDGs

C1, C2, C3 & SDG10

Nodal officers of Central & States working with Stakeholders for NOFN, Portals & Platforms Enabling access to Information

C4 & SDG4

NDLM for inclusive and equitable quality education and continuous learning

SDG5

CSCs employs 34,000 women a step to achieve gender equality and women empowerment

SDG8

Digital literacy gives awareness of entitlements and employment enabling inclusive & Sustainable growth

C7

ICT applications give outreach to e-Government and e-Business



Reduction in inequality and Digital Divide in the country

Digital Payment on mobile phones over 1 bn mobile users

5th Global Conference on Cyber Space-2017 (India)

- Scheduled from November 23-24, 2017 in New Delhi. Its theme “*Cyber for all - A Connected, Sustainable and Secure Cyberspace*”.
- 1st conference held in 2011 (London)- Principles for governing behaviour in cyber space were established, theme was **economic growth and development**, Safe and reliable access and International security,
- 2nd conference held in 2012 in Budapest –focus was on relationship between **internet rights and internet security**
- 3rd conference held in 2013 in Seoul- Commitment for **open and secure cyber** space (International law applicable online to maintain peace and stability, secure ICT environment.
- 4th conference held in 2015 in Hague.

Thank You