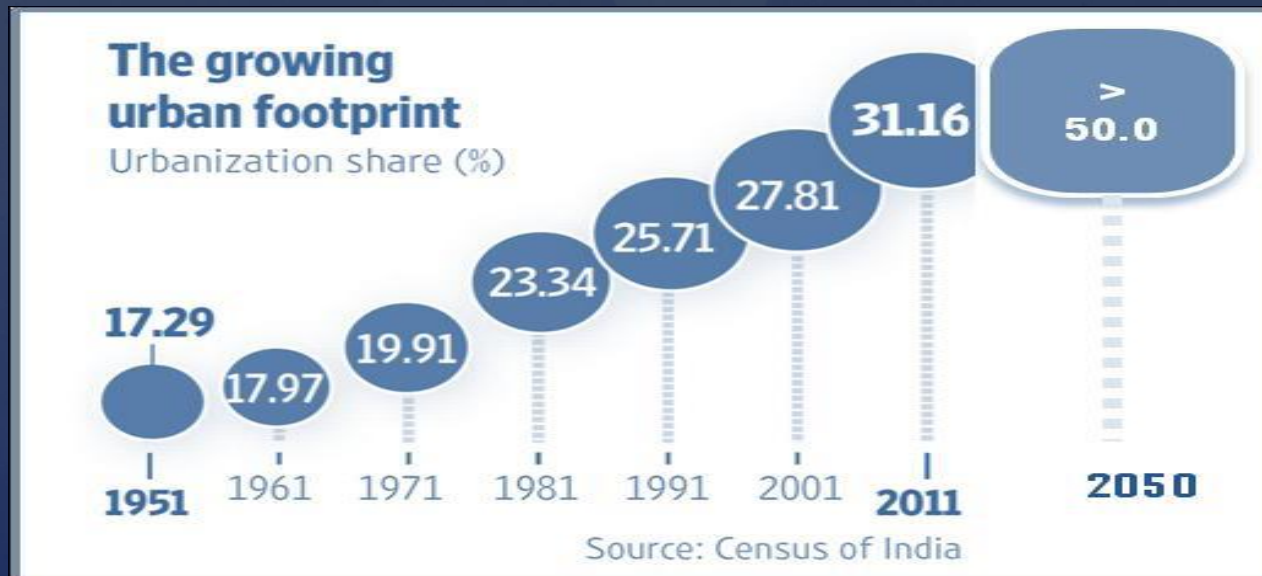# The Smart Cities Mission

www.SmartCities.gov.in

India: Urbanization Scenario

- India's urban population has grown from 290 million in 2001 to 377 million in 2011 accounting for over 31.16 percent of the country's population

- Approximately 60% of GDP is derived from the Indian Urban Economy

- Projections suggest that India will have more than 50 percent population living in urban areas by 2050
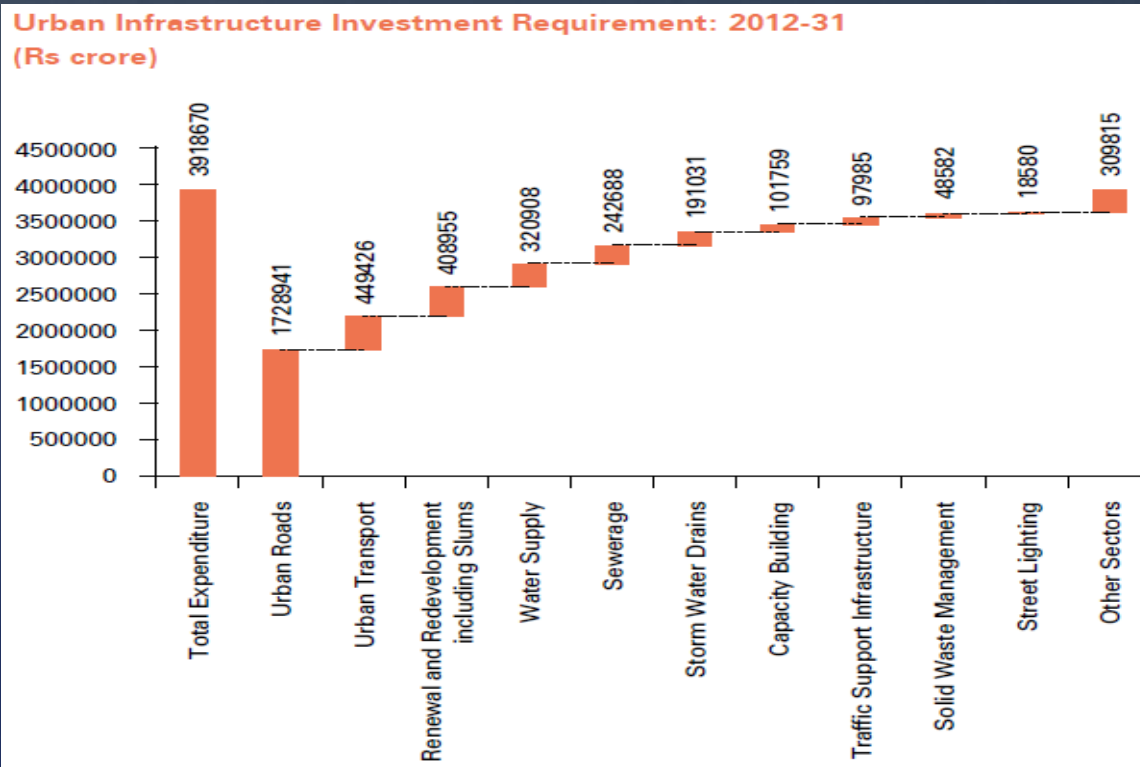
The growing urban footprint

Urbanization share (%)

17.29 — 1951
17.97 — 1961
19.91 — 1971
23.34 — 1981
25.71 — 1991
27.81 — 2001
31.16 — 2011
> 50.0 — 2050

Source: Census of India

Fund Requirement for Urban Infrastructure

- **HPEC**
  - High Powered Expert Committee (GOI) estimated Urban Infrastructure Investment Requirement for 20 years
- **Investment Requirement**
  - $784 Billion
  - Excluding O&M expenses ($400 Billion)

Urban Infrastructure Investment Requirement: 2012-31 (Rs crore)

- 44.0% Urban Roads
- 20.0% Water, sewerage, SWM, storm water drains, street lighting
- 14.0% Transport and Traffic Support Infrastructure
- 10.5% Urban renewal including slum development
- 02.5% Capacity Building
- 10.0% Others

What is a Smart City?

- A Smart City has-
  - basic infrastructure,
  - uses 'smart' solutions to make infrastructure and services better, and
  - relies on Area based development.

Objectives

➢ Provide basic infrastructure.

➢ Quality of life.

➢ Clean and sustainable environment.

➢ Apply Smart Solutions.

➢ Set examples to be replicated both within and outside the Smart City and catalyze the creation of similar Smart Cities.

What is basic infrastructure?

- Basic infrastructure includes,
  - Assured water & electricity supply,
  - Sanitation & Solid Waste Management,
  - Efficient urban mobility & public transport,
  - Affordable Housing,
  - Robust IT connectivity,
  - e-governance & citizen participation,
  - Safety & security of citizens,
  - Health & Education and
  - Economic Activities & Livelihood Opportunities.

Smart Cities Mission Strategy

- Develop Areas step-by-step – three models of area-based developments –
  - Retrofitting,
  - Redevelopment,
  - Greenfield
- Pan-city initiative in which at least one Smart Solution is applied city-wide.

Area based Development Models

➤ **<u>Retrofitting</u>**

Development of an existing built area greater than 500 acres so as to achieve the objective of smart cities mission to make it more efficient and livable e.g. Local Area Development (Ahmedabad)

➤ **<u>Redevelopment</u>**

Replace existing built environment in an area of more than 50 acres and enable co-creation of a new layout, especially enhanced infrastructure, mixed land use and increased density e.g. Bhendi Bazar, Mumbai

➤ **<u>Greenfield</u>**

Develop a previously vacant area of more than 250 acres using innovative planning, plan financing and plan implementation tools with provision for affordable housing, especially for the poor e.g. New Town, Kolkotta, Naya Raipur, GIFT City.

City wide Smart Solutions

E-Governance and Citizen Services

1. Public Information, Grievance Redressal
2. Electronic Service Delivery
3. Citizen Engagement
4. Citizens - City's Eyes and Ears
5. Video Crime Monitoring

Waste Management

6. Waste to Energy & fuel
7. Waste to Compost
8. Waste Water to be Treated
9. Recycling and Reduction of C&D Waste

Water Management

10. Smart Meters & Management
11. Leakage Identification, Preventive Maint.
12. Water Quality Monitoring

Energy Management

13. Smart Meters & Management
14. Renewable Sources of Energy
15. Energy Efficient & Green Buildings

Urban Mobility

16. Smart Parking
17. Intelligent Traffic Management
18. Integrated Multi-Modal Transport

Others

19. Tele-Medicine & Tele Education
20. Incubation/Trade Facilitation Centers
21. Skill Development Centers

Cities may add any number of smart solutions to the area based developments to make government funds cost effective.

Smart City selection Process

➢ The city selection process is based on the idea of Cooperative and Competitive Federalism.

➢ Cities are diverse - Each city has to construct its idea and vision of a smart city that is aligned to its local context.

➢ The city selection process follows a Challenge method - two stages, in conjunct, to select cities.

  ➢ Stage – I : Intra-State city selection on objective criteria to identify cities to compete in stage-II.

  ➢ Stage – II: All India competition to select smart cities for multiple rounds of selection.

Implementation & Financing

- Each city will have a Special Purpose Vehicle (SPV). The SPV will have complete flexibility to plan, implement, manage & operate and will be headed by a full time CEO. Articles of Association will be given in Toolkit.

- Centre will invest a total of Rs. 48,000 crore in 100 cities across the country for 5 years – each Smart city will get Rs. 100 crore each for five years.

- State / ULBs will mobilize additional resources required of Rs. 48,000 crore as per 50:50 funding pattern.

- These funds will act as a catalyst to attract funding from internal and external sources.

Citizen Engagement

➢ Envisioning for cities through citizen consultation.

➢ Co creation of Ideas

➢ Selection of Area for Development and Pan City Smart Solution through Citizen Participation

➢ Citizen consent before sending proposals to the MOUD.

➢ Extensive use of Both Online and Offline engagement using platforms like MYGOV.IN
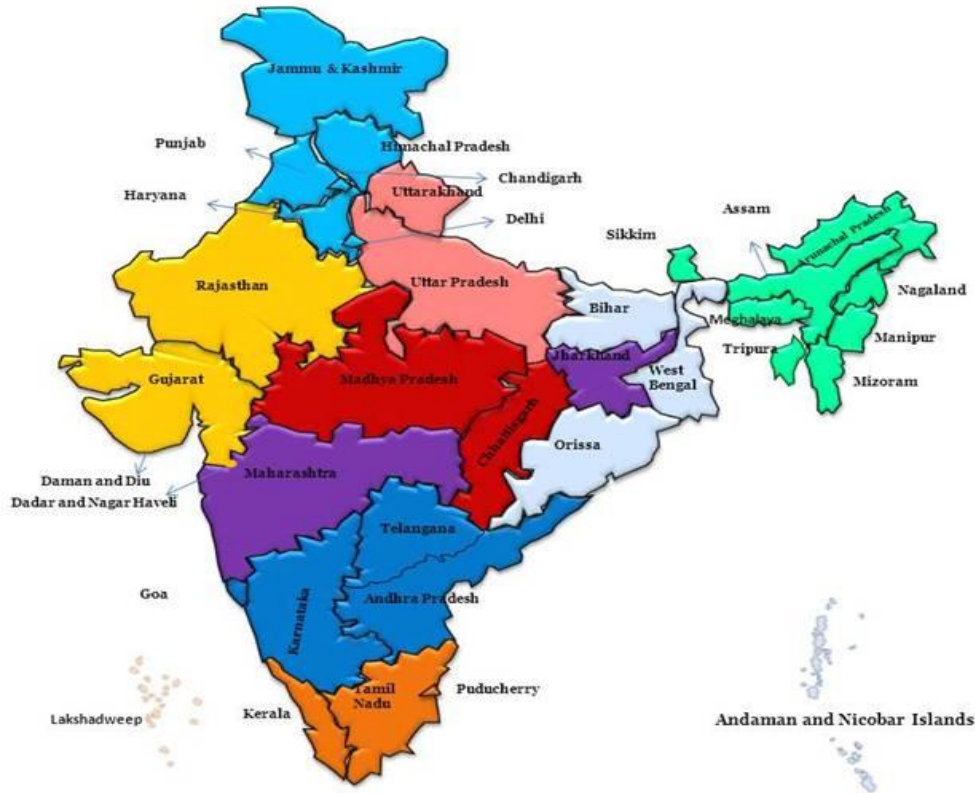
Challenges

- This is the first time a MoUD programme is using the 'Challenge' or competition method to select cities for funding.

- Strategy of area-based development.

- Citizen involvement is a key to the success of the Smart Cities Mission. The involvement has to start from beginning to the end.

- SPV and Financing options

- Convergence

Progress So Far

- All 98 shortlisted cities have submitted their Proposals

- Consulting firms were procured to assist the cities in preparing the SCP

- Extensive Citizen Engagement through MyGov and other Platforms

- Idea Camps and Innovation Fridays for connecting cities to the Best Practices

39 Consulting Firms for 98 Smart Cities

Region wise Consultants

Region	No. of Cities	No. of Consultants
1	10	8
2	8	6
3	13	8
4	9	5
5	11	6
6	12	9
7	15	8
8	12	7
9	8	6

Activities on MyGov

Contest	Discussion	Polls	Blogs	Talks
163	182	188	45	23

Participation on MyGov

Total Comments in Discussion
190,9320

Total Voting in Polls
460,210

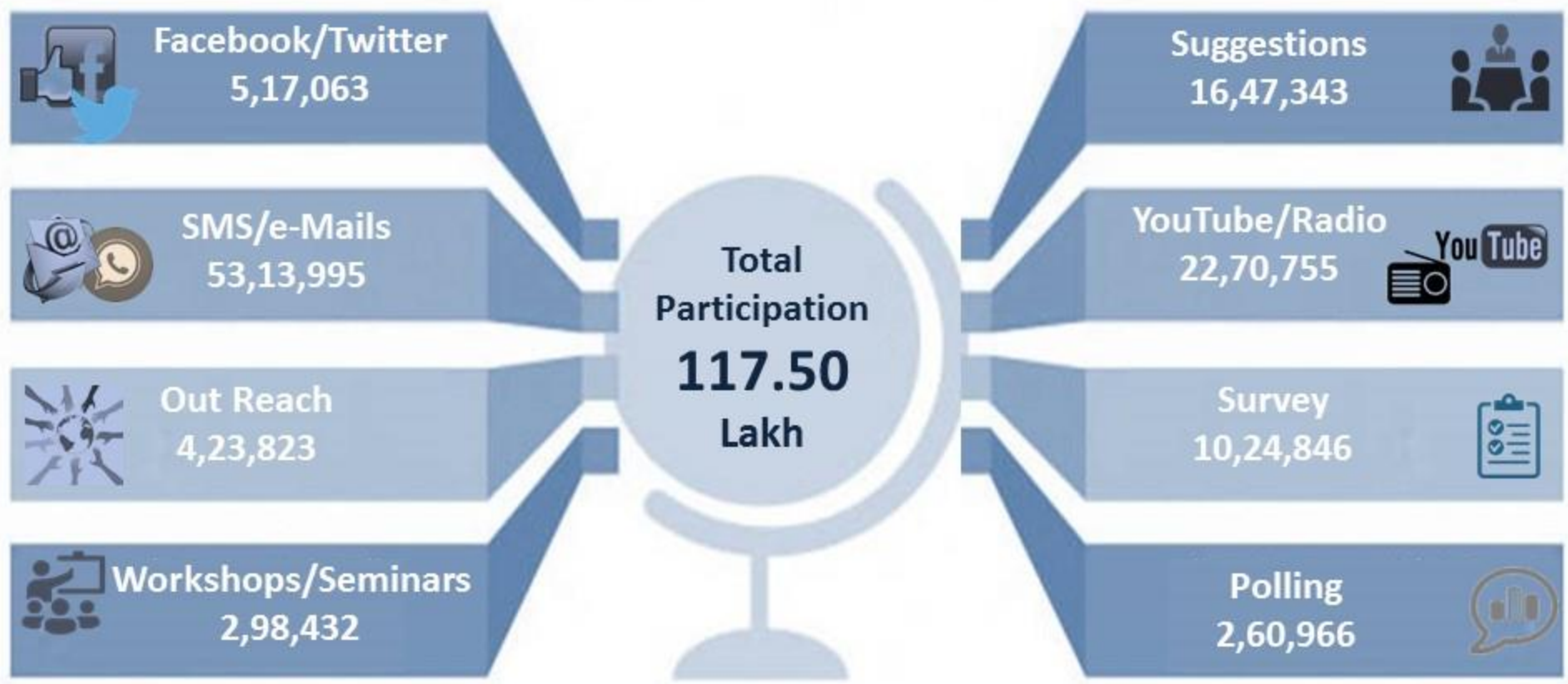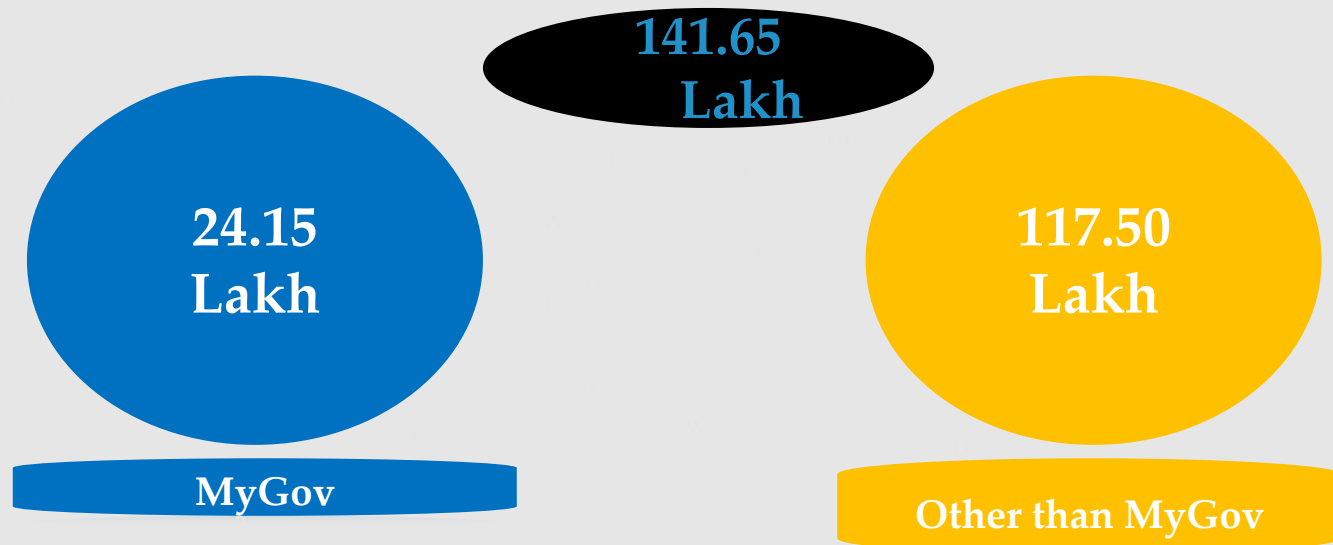**Total Participation in Tasks**
44,741

Total Comments in Talks
1,569

Total Participation
24.15
Lakhs

my GOV
मेरी सरकार

Participation on Other than MyGov

Facebook/Twitter
5,17,063

SMS/e-Mails
53,13,995

Out Reach
4,23,823

Workshops/Seminars
2,98,432

Total Participation
117.50
Lakh

Suggestions
16,47,343

YouTube/Radio
22,70,755

Survey
10,24,846

Polling
2,60,966

Ministry of Urban Development
Government of India

Overall Participation through Citizen Engagement

Proposal Enhancement Workshop

Plenary-: Convergence-Panel Discussion

Break Out 1: Area Based Development Lab Session

Break Out 2: Financing and Implementation of Smart City Projects

Break Out 2: Smart Solutions Lab Session

Way Forward

➢ Declaration of winning cities by end of January

➢ Winning Cities will set up SPVs and start Projectivising the proposals

➢ Non winning Cities will refine their proposals and will participate in the Round 2 of the Challenge Process

➢ Continued Handholding support for cities

➢ Setting up of Solution Exchange for Peer Group sharing of Ideas and best practices