

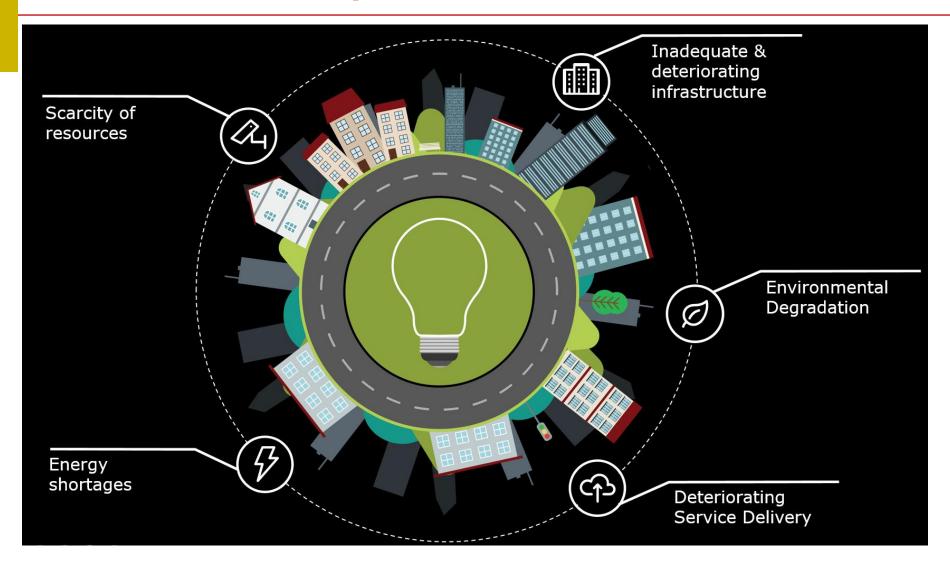
# **SMART CITIES INITIATIVES OF INDIA**

**April 11, 2018** 





#### Urban India – Key Issues



### Four Missions & Objectives

Urban

India:

**Mission mode** 

development

#### 1. Smart City Mission

Developing 100 smart cities in next five years improving liveability

#### 3. Housing for All

Build 2 crore houses for urban poor including EWS and LIG by 2022

#### 2. AMRUT

In 500 cities, focus on Urban amenities like water, drainage etc.

#### 4. Swachh Bharat Mission

Clean the streets, roads and infrastructure of the country's 4,041 statutory cities and towns

## **Smart City Mission - highlights**

Smart City Mission launched by Honorable Prime Minister in June 2015



2 stage SMART city challenge process for selecting 100 cities –

(i) shortlisting of cities

Investment for SMART cities by private sector, CSR funds, bonds, loans and augmentation of revenue by cities

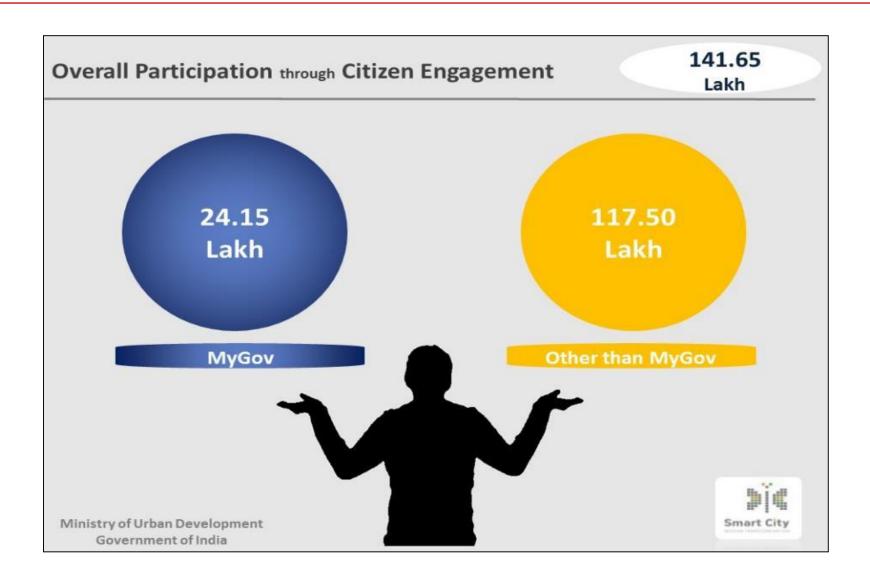
Convergence with other complementary government missions e.g., Digital India, AMRUT, FAME, Prime Minister Housing Mission etc.

Implementation at the City level through a Special Purpose Vehicle – a limited liability company





#### **Citizen Consultations: Focus**



## Many "Firsts" in the Smart City Mission

#### **Competition based selection of Smart Cities**

Every city developed a Vision with citizen engagement

Implementation through Special Purpose Vehicles (SPVs)

Every city hired a team of Project Management Consultants

Every city has their own Smart City Proposal to implement

Each Smart City to get Rs. 100 crore/year

Reforms and Capacity building of Municipalities

Result: Mission has raised the expectation of People

## **Mission Strategy**

Area Based Development



Pan City Development Complete transformed redevelopment of old built up areas



#### Redevelopment project

- · City Renewal
- · Old Slum areas
- · Core City areas
- Area 50 acres (min)

Improvement of infrastructure and services for a delineated area



#### Retrofitting project

- · City Improvement
- Local Area Planning
- 24x7 water supply
- Area 500 acres(min)

Area Based new development of built-up areas in city extensions



#### Greenfield project

- City Extension
- · Satellite towns
- Integrated townships
- Area 250 acres (min)

City-wide Smart Solutions (at-least one):

- Electronic Service Delivery
- Intelligent Traffic Management Systems
- Smart Metering and Management
- Integrated multi-modal transport systems
- Video crime monitoring

Integrated Smart
Solutions through
Command & Control
Centre

**Basic Infrastructure and Services** 

#### **Selection Process**

- City Selection is based on the idea of Cooperative and Competitive Sub-Federalism
- City Selection Process follows a Challenge method:
   Two stages to select cities

#### Stage – I

Intra-State city selection by State govts.

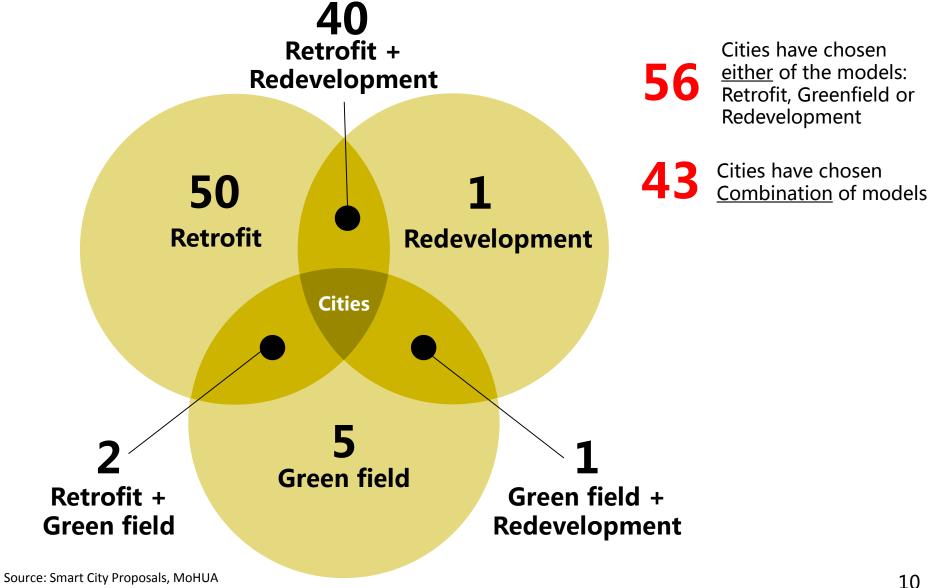
- 100 cities allocated to States
- Intra-state competition
- Cities selected by States
- 110 Potential Smart Cities prepared Smart City Proposals

#### Stage – II

All India competition

- 4 rounds completed
- 99 cities selected in 4 rounds

## Three models of development – 90 cities



#### Selection of cities

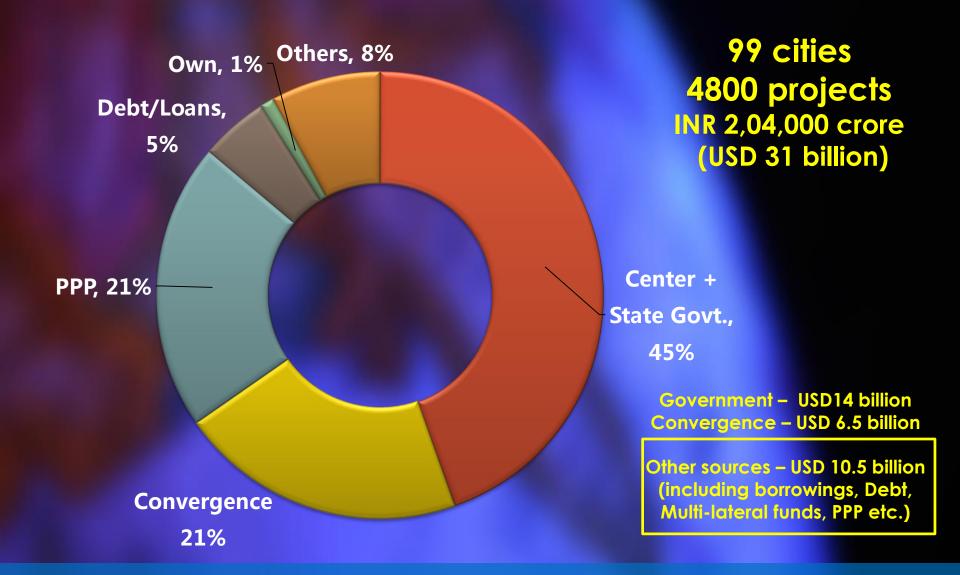
#### Four rounds of competition

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	Light house Cities	Fast track Cities	Round 2 Cities	Round 3 Cities	Round 3 Cities
No. of Selected Cites	20	13	27	30	9
Period of selection	Jan 2016	May 2016	Sept 2016	June 2017	Jan 2018
Total no. of Projects	829	600	1209	1890	262
Investment (in Rs Crores)	39,454	28,040	55,500	58,700	12,823
Investment (Million USD)	6,070	4,314	8,538	9,031	1,970

# 99 cities to spend ~ INR 2,03,979 crore (USD 31 billion) for implementing Smart City Plans

**Source:** Data from Online MIS of MoHUA

#### Financial Landscape of Smart Cities



#### **Mission Progress**

- > 90 cities have established SPVs
- > 67 cities have hired PMCs

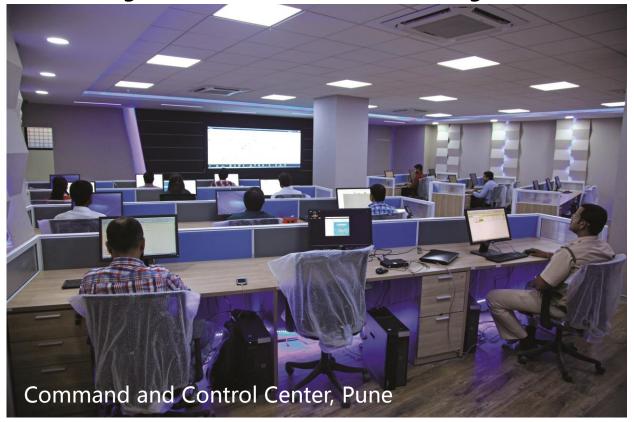
**276 375 569 Projects Projects Projects** Costing Costing Costing 22,093 16,867 crore crore crore **Completed** In tendering Work in progress

**Spread across 62 cities** 

Note: 1 INR Crore = 0.154 Million USD

## **Smart City Centers**

Integrated Command & Control Centres are going to become the brains of the Smart Cities dealing with safety, surveillance, transport & traffic management, environment monitoring of the cities



Projects completed in **8** cities, Under implementation in **15** cities & Under tendering in **30** cities

#### **Smart Roads**



6 m carriageway, universal accessibility, walkability, bicycle friendly, free wi-fi

Projects completed in **4** cities, Under implementation in **29** cities & Under tendering in **9** cities

## Roof top solar projects

Promotion of cleaner energy through Solar, Wind, Waste to Energy etc. in almost all smart cities



**All 99 selected Mission Cities** will implement solar rooftop projects. **Generate 700 MWp** at cost of Rs. 7000 Cr., on public and private buildings

Projects completed in **6** cities, Under implementation in **38** cities & Under tendering in **6** cities

## **Riverfront / Water front projects**

# 60 cities have waterfront projects, with focus to reduce the pollutant discharges in natural resources



- About 100
   Waterfront
   Development
   projects
- Beach, lake and, riverfronts with an investment of Rs. 6380 crores (60 cities)

## **Solid Waster Management**

Solid Waste Management projects to reduce waste generation through prevention, reduction, recycling and reuse



## Parks & Open Spaces

Projects worth 7,000 crores proposed by Mission Cities for development of green open spaces

Provisions for enhancing walkability, increased green cover, universal accessibility, safety and security.



## **Social Development projects**

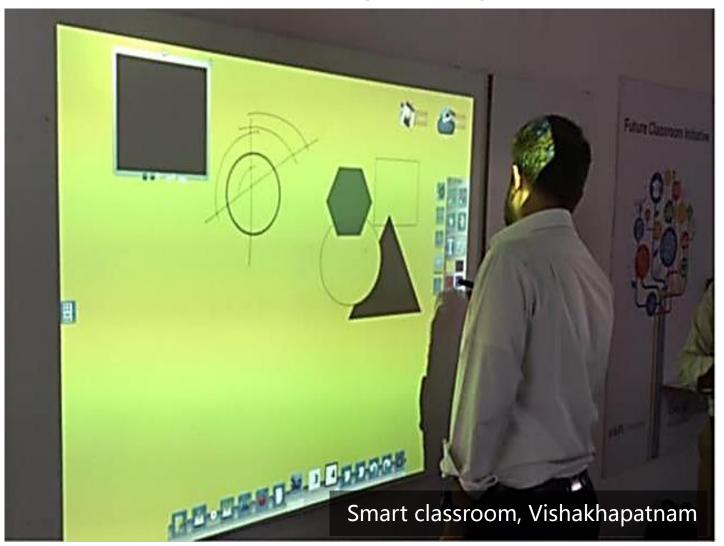
Projects like Social Equity Centre at Bhubaneswar, Shelters for poor, App. based Food Banks, Soup Kitchens etc.



- 1. Rental housing for construction workers, accommodation for Urban homeless along with an Aahar Centre, Water ATM & other required amenities.
- 2. Project Cost 5.40 Cr Execution is in progress. To be completed by mid 2018

#### **Smart Education**

#### **Smart Classrooms: Adding technology in education**



#### **Public Utilities**

# Clean drinking water ATMs and public conveniences (specially for women) proposed in all cities





## **Non Motorised Transport**

Pedestrian friendly cities, promoting Non-motorised transport

Similar projects in 32 Smart Cities!



**12 km** of dedicated bicycle tracks around 50 locations

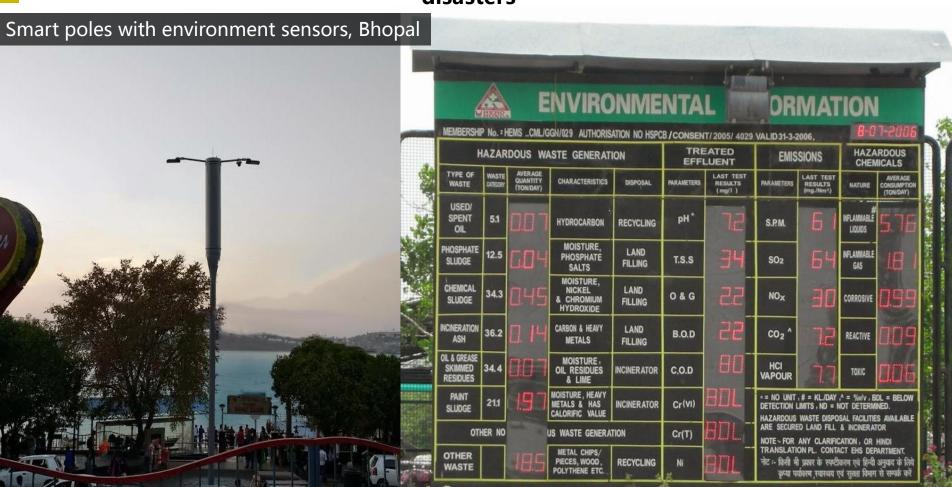
Project Cost ~ Rs 7 crore developed with PPP, Rs 3 crore from Smart City Mission

**25000** registered bikers new registration every 5 minutes.

34,000+ clean kilometers 7400kg of CO2 emissions offset already after logging.

## **Environment Monitoring**

Environment sensors to regularly monitor climate-related hazards and natural disasters



## **Knowledge partnership**

Revitalize the global partnership for sustainable development

Convergence betn. inter-departments is a priority. ADB, World Bank, DFID, AFD are partners. 15 cities have selected for knowledge partnership with leading countries.





- Pune
- Amravati
- Indore



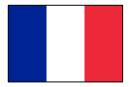
- Vishakhapatnam
- Ajmer
- Allahabad



- Bhubaneswar
- Coimbatore
- Kochi



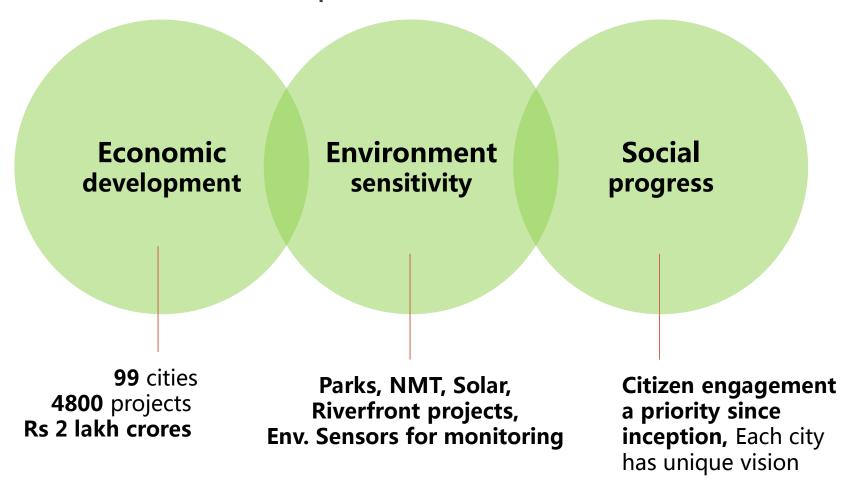
- Varanasi
- Ahmedabad
- Chennai



- Chandigarh
- Puducherry
- Nagpur

#### **Conclusion**

> Urban India + Smart City Mission = leads to Sustainable development



# Thank you for your attention

#### **Smart City Mission**

Ministry of Housing & Urban Affairs
Government of India