



# SMART CITIES MISSION

THIRUVANANTHAPURAM  
CORPORATION

Smart City Mission-  
Government of Kerala

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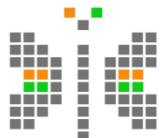
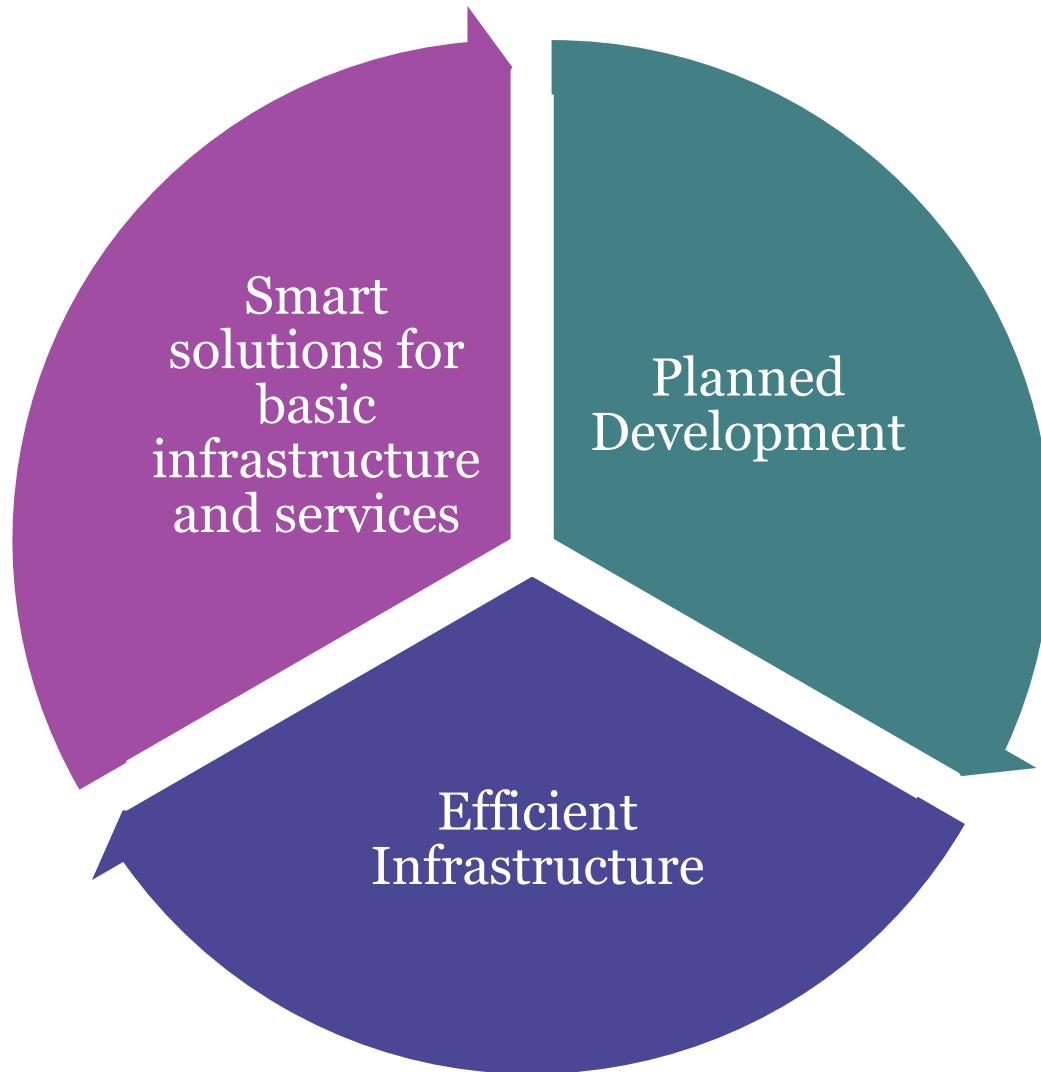
## 1. OVERVIEW -SMART CITIES MISSION

- a. Mission objective
- b. Components
- c. Mission strategy
- d. Implementation mechanism
- e. Funding pattern

## 2. WAY FORWARD

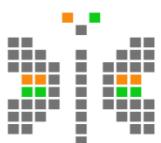


# Smart city



# Objectives of Smart Mission

- ❖ Provide Basic infrastructure
- ❖ Improved 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.



# Smart Cities Mission Strategy

## ❖ SELECTION OF CITIES : Smart City Challenge

- Inter state and Intra State Challenge
- Smart City Proposal (SCP) to be prepared within 100 days

## ❖ SCP Strategies

### A. AREA BASED DEVELOPMENT

- Step-by-step development for making city smart as a whole Creating replicate models
  - Retrofitting > 500 Acres
  - Redevelopment > 50 Acres
  - Greenfield > 250 Acres

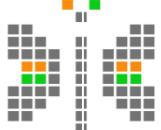
### ❖ B. PAN-CITY INITIATIVE

- At least one city-wide Smart Solution to improve the efficiency of existing civic service



# Smart City Features

- 1. City Identity and culture**
- 2. Citizen participation**
- 3. Mixed Use**
- 4. Compactness**
- 5. Walkability**
- 6. Transport**
- 7. Open Spaces**
- 8. Energy Source**
- 9. Energy Supply**
- 10. Energy Efficiency**
- 11. Underground wiring**
- 12. Water Supply**
- 13. Water management**
- 14. Waste-water management**
- 15. Waste management**
- 16. Sanitation**
- 17. Air Quality**
- 18. Housing & Inclusiveness**
- 19. Education**
- 20. Health**
- 21. Economy & Employment**
- 22. Safety and Security**
- 23. IT connectivity**
- 24. Intelligent Govt. Services**



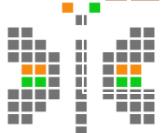
# Infrastructure components-Smart city mission

1. Assured water & electricity supply
2. Sanitation & Solid Waste Management
3. Efficient urban mobility & public transport
4. Affordable Housing
5. Health and education
6. Safety & security of citizens
7. Economic Activities and livelihood opportunities
8. Robust IT connectivity
9. e-governance & citizen participation



# Smart City Features

1. **City Identity and culture**
2. **Citizen participation**
3. **Mixed Use**
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15. **Waste management**
16. **Sanitation**
17. **Air Quality**
18. **Housing and Inclusiveness**
19. **Education**
20. **Health**
21. **Economy & Employment**
22. **Safety and Security**
23. **IT connectivity**
24. **Intelligent Govt. Services**



# Planned Development - Area based Development Models

Retrofit

>500 Acrs

Rejuvination-  
Livable

Redevelopment

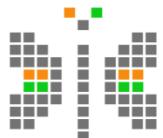
>50 Acrs

Mixed land  
use

Greenfield

>250 Acrs

Affordable  
housing



# 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



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

## 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

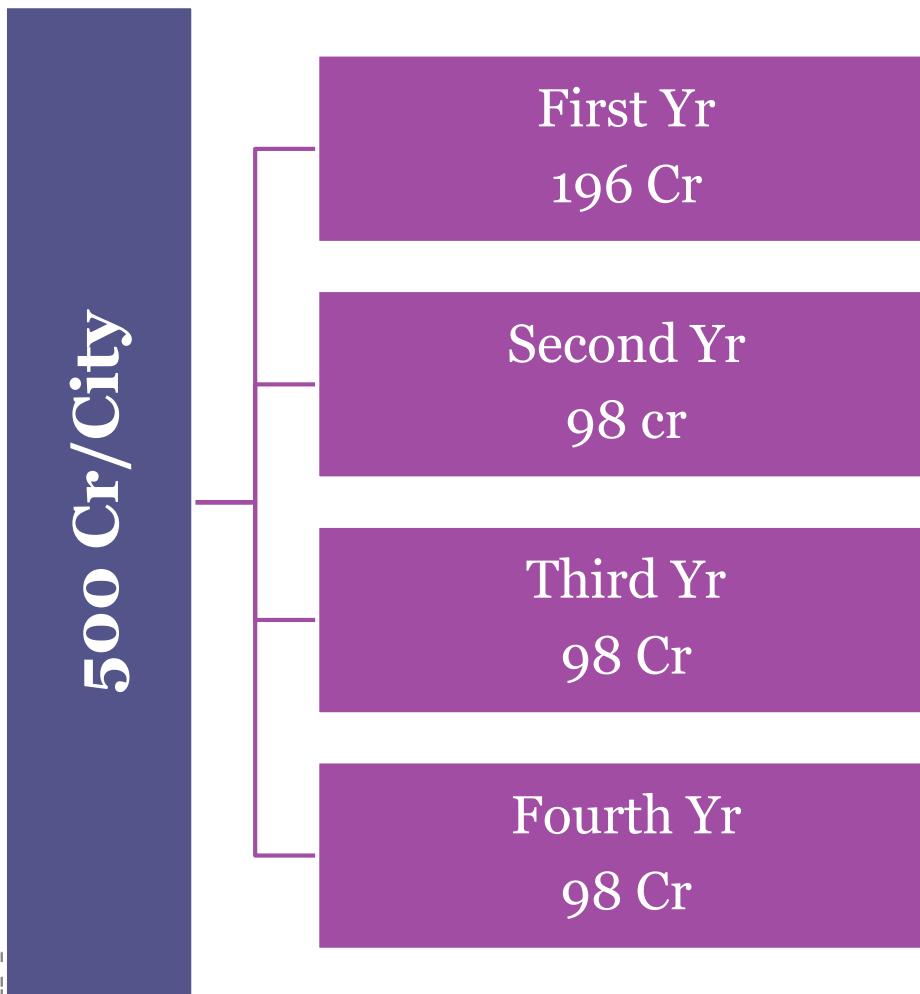


## Others

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



# Funding Patterns



- ❖ 2% of the 100 cr would be retained by MoUD every year as A&OE

**Funds release** – timely submission of score card, satisfactory physical and financial

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# Mission Monitoring

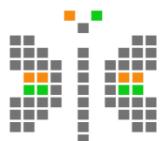
❖ **Mission Director**

: Dr Sameer Sharma | A S, MoUD

## NATIONAL Level

**Apex Committee  
(AC)**

**headed by the  
Secretary, MoUD**



## STATE Level

**High Powered  
Steering  
Committee  
(HPSC)**

**Chairman \_CS**

**Members- Key officials**

## CITY Level

- \* SPV: Board of Directors
- \* Citizen Forum
- \* ULB - Council



# Implementation Mechanism

## ❖ Special purpose vehicle (spv) for each city

- Envisaged to be a Limited Company incorporated under Companies Act 2013 and to be promoted by the ULB.
- Equal shareholding for the ULB and the State Government, together will have majority shareholding and control of the SPV



# Institutional Arrangements in the State

- ❖ High Powered Steering Committee (HPSC) in position
- ❖ Principal Secretary, LSGD as the Mission Director
- ❖ Project Director, Kerala Sustainable Urban Development Project ( KSUDP) entrusted to coordinate the preparatory activities.
- ❖ Mission Management Units are deputed to coordinate the intra-state challenges.

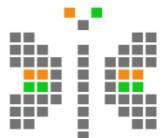
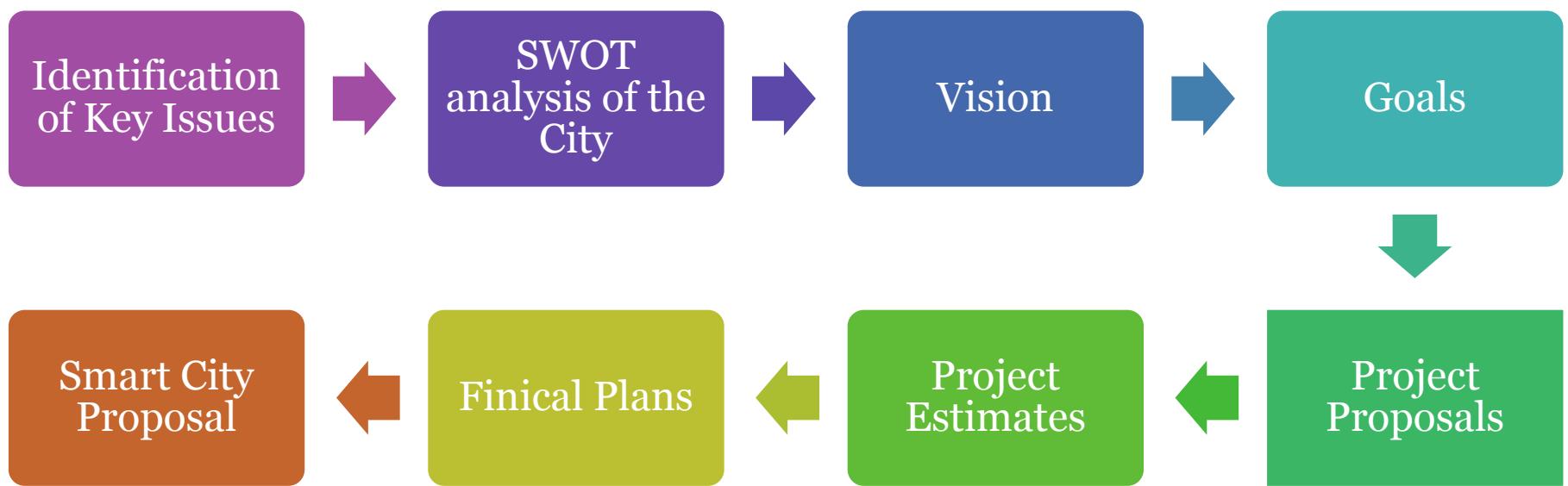


# Way Forward

- ❖ Prepare a Smart City Proposal to participate in the Smart City Challenge
- ❖ Identify the consulting firm for Smart City Proposal (SCP) for stage -2 challenge
  - MoUD has empanelled list to support the city to prepare SCP.
- ❖ Citizen Campaigns and Stakeholders consultative meetings to articulate the vision for the city

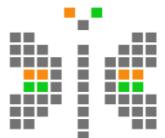


# Process



# THANK YOU

Technical Support:  
State Mission Management Unit



**Smart City**  
MISSION TRANSFORM-NATION

Smart City Mission- Government of Kerala  
The crest features two elephants flanking a central emblem, with the text "GOVERNMENT OF KERALA" and "SMART CITY MISSION" around the border.