Preparing for Stage 2 of the Smart City Challenge

Smart City Mission – Regional Conference

Sept 2015

The Proposal components

1. City profile
2. Citizen engagement
3. Vision & Goals
4. Strategic Plan
5. Pan-city proposal
6. Area-based proposal
7. Implementation framework
8. Financing plan
   (Benefits and impact)

1. City profile

- Consists of four components –
  - Baseline information,
  - Key performance indicators (operational efficiency, traffic situation, administrative efficiency, availability affordable housing) ,
  - Mapping your city, and
  - City level assessment – qualitative (in given format).
- **Define impact for the city: how will it be best felt in Governance, Space, Social, Environment and Economic aspects ? In what time-frame?**

2. Citizen engagement

- Three key reasons why it is important: Communication, Feedback, Co-creating
- Process
  - Round 1 – vision, goals and strategy
  - Round 2 – Feedback on ideas for pan-city solutions and area-based developments
  - Round 3 – Inform people about the plans in the proposal (**get citizen buy-in?**)
- Ways:
  face-to-face, written, print/radio/TV, online crowd sourcing and polling, mobile phones.

3. Vision & Goals

- VISION (from Round 1 citizen consultations and city profile created)
  - the why? – the big idea – a picture of the future -
- GOAL (from Round 1 citizen consultation and the self-assessment)
  - the what? – what will the City do to achieve the vision through goals linked to smart city features? –

- Mission Goals:
  - core (basic) infrastructure
  - quality of life
  - clean and sustainable environment (inclusive development)
  - Smart Solutions to improve infrastructure and services

4. Strategic plan

- Goals are achieved through two outcome/impact-oriented strategies:
  - area-based developments, and
  - applying Smart Solutions citywide.
- Identify the convergence with other schemes, missions, programmes of GoI/state/ULB.
- Select areas – focus on specific bounded area – improve existing portion (retrofit or redevelop) or develop new (greenfield).
- Essential features to be included to achieve measurable impact
- Identify Pan-city Smart Solutions and Area-Based Developments.
- Based on Goals draw up targets.

4a. Convergence with other departments

- Other Departments involved at City level. Some examples -
  - DeitY – Electronic delivery of services, citizens engagement (MyGov).
  - Home – video crime recording, city's eyes and ears.
  - Fertilizer – waste to compost.
  - MNRE- Waste to energy and fuel, solar.
  - Ministry of Health - Tele-medicine.
  - Ministry of Skill Development – Skill development Centres.
  - HUPA – slum development, night shelters.

4b. Essential Features

- **Core (basic) infrastructure**
  - Assured Electricity Supply, with at least 10% of the smart city requirement coming from solar energy
  - Adequate Water Supply, including waste water recycling and storm water reuse
  - Rain Water Harvesting
  - Proper Sanitation including Solid Waste Management
- **Smart Solutions**
  - Robust IT Connectivity and Digitalization
  - Intelligent Traffic Management
  - Smart Metering
  - Smart Parking

4b. Essential Features (contd.)

- **Livability**
  - Pedestrian Friendly Pathways
  - Encouragement to non-motorised transport (e.g. walking and cycling)
  - Non-Vehicle Streets / Zones
  - Innovative use of open spaces
  - Energy Efficient Street Lighting
  - Visible improvement in the Area (e.g. replacing overhead electric wiring with underground wiring, encroachment-free public areas)
  - Ensuring safety of citizens especially children, women and elderly

4b. Essential Features (contd.)

Additional requirements: Energy

- For whole city: 10% of energy requirement from Solar
- For redevelopment and greenfield: At least 80% buildings should be green buildings
- For greenfield: At least 15% of total housing provided should be in affordable housing category

5. Pan-city smart solution

- For full city – felt in city in a short-time.
- Focus on an issue or area – improvement of governance, infrastructure or services.
- 21 Pan-city Smart Solutions in Guidelines (pg. 6).
- The outcomes should be closely connected to Goals.

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. Every Drop to be Treated
9. Treatment of C&D Waste

Water Management

10. Smart meters & management
11. Leakage Identification, preventive Maint.
12. Water conservation – rain water harv.

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
20. Incubation/Trade Facilitation Centers
21. Skill Development Centers

Different Cities – Different Smart Solutions Leveraging Local Innovations

6. Area-based

- Identify the area(s) – study of documents and information, analysis and citizen engagement.
- Prepare a plan to include all essential features.
- Important-
  - Key components of Proposal to lead to outcomes connected to Goals,
  - Sustainable and improve livability,
  - Socially inclusive,
  - Residents support.

7. Implementation Plan

- Implementation Framework is key to determine success of your proposal.
- Describe the activities that lead to targets set on your Goals.
- Set the timelines to achieve the sub-targets.
- Connect to inputs required (e.g. funds, SPV resources).
- List out the coordination required from other departments/agencies to ensure convergence in activities and inputs with other schemes/Programs/Missions.

8. Financing Plan

- Key to success of your Proposal.
- While preparing your strategy keep financial considerations in mind – think back and forth continually.
- Innovative means of financing will add value to your Proposal.
- Converge with other Schemes/Missions/Programs.
- Operation and maintenance (O&M) to be included.
- Back-up plan if the strategy proposed does not work.

Thank You