



Government of India
Ministry of Urban Development

Smart Cities Mission
Smart Cities Challenge – Stage 2

Smart Cities challenge – Coimbatore city

State Level Review –II

November 2015



Coimbatore City Municipal Corporation



Government of Tamil Nadu

Agenda



- ❑ **Round I consultations, City Vision and Goals**
- ❑ Area Development – Interventions and transformation envisaged
- ❑ Options for Pan city initiative

Round 1 Consultations



**Elected Representatives
&
City Administration**

Face-to-Face/Coalition bldg.

- ✓ NGOs, Active City Society Clubs, Residential Welfare associations
- ✓ Industrial Players and traders
- ✓ Doctors Association, Teachers/ professors, Chamber of Commerce, Traders

**~ Over 500
participants**

**Vision
Goals
Strategies**

**Zone-level Meetings in all 5
zones of the city**

**~ Over 2000
participants**

Outreach

Posts on Social Media + Written suggestions ~ 3000

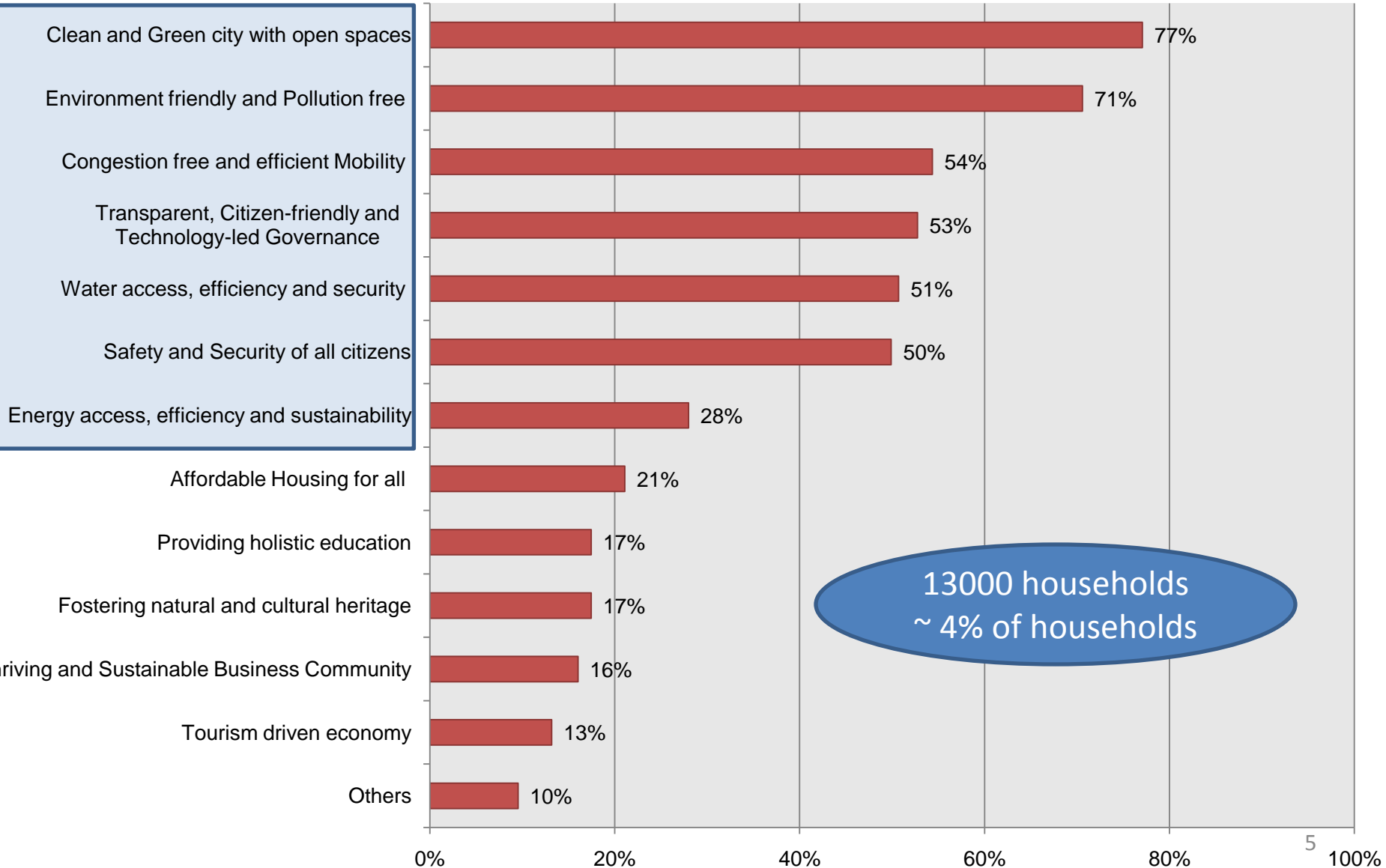
Essay Contests for Students ~ 500

Citizen Pulse Survey/Poll ~ 5000

Through Face-to-Face meetings, Media and Online forums

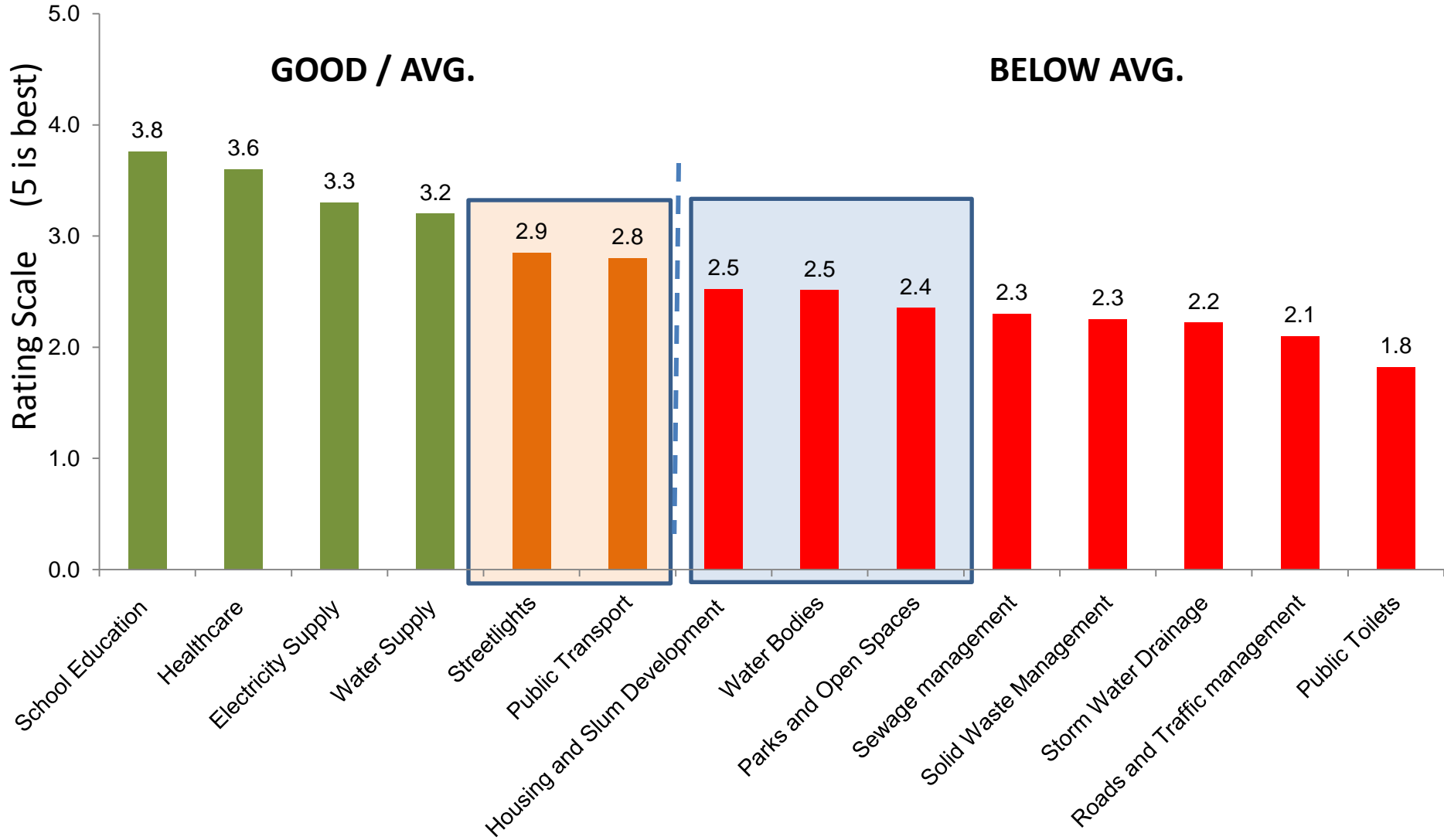
Citizen Pulse Survey..1

Top Vision Themes



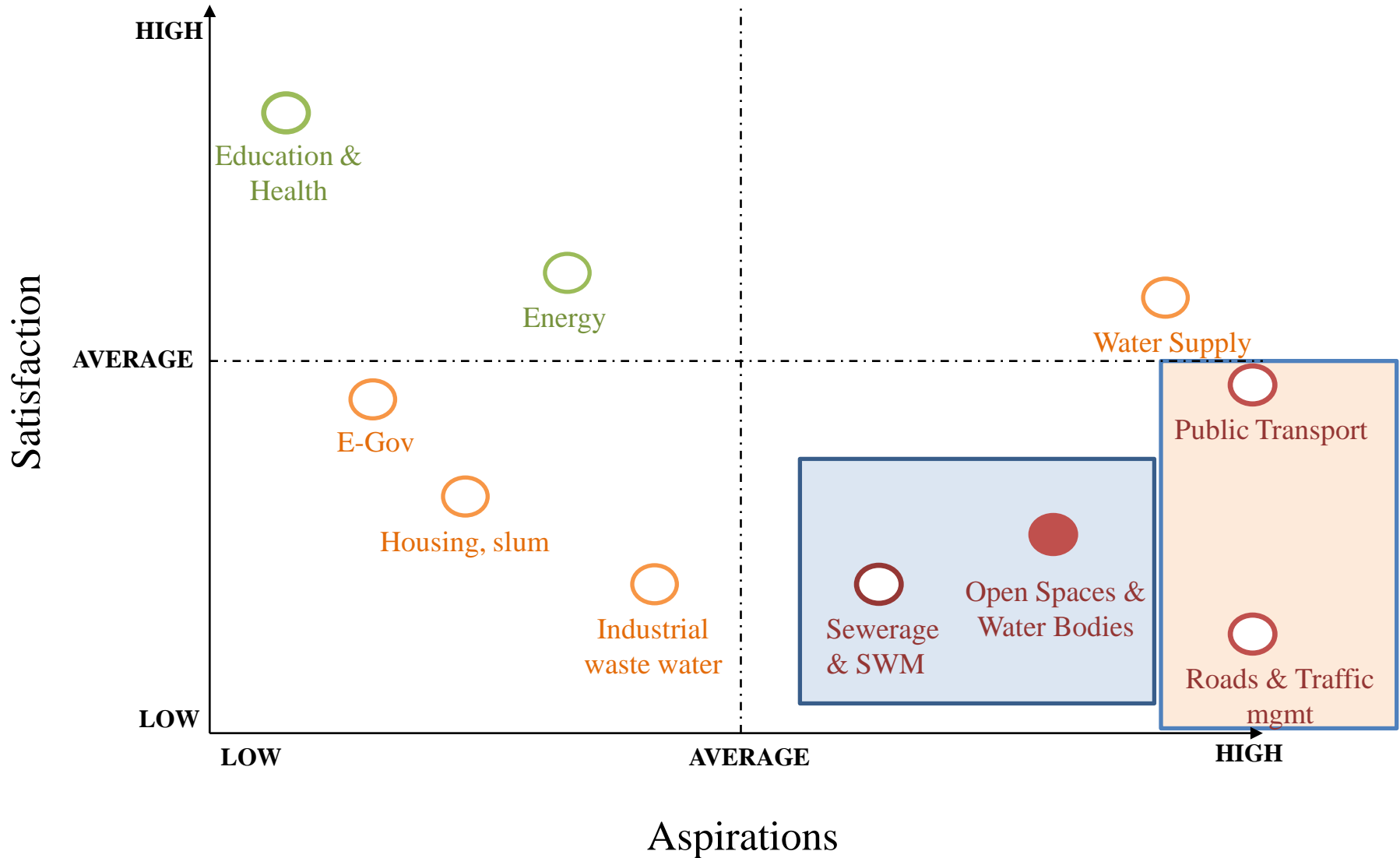
Citizen Pulse Survey..2

Perception on prevailing serviced delivery



Citizen Pulse survey..3

Aspiration Vs. Satisfaction matrix



Vision Statement



Coimbatore will be an **inclusive, secure and effectively governed metropolis** that offers the Highest Quality of Living for its **progressive, diverse and talented populace** by providing **universal access to Best-in-Class civic services and seamless mobility**, enabling a **Dynamic and Vibrant Economy** and nurturing **Clean, Resilient and Sustainable Environment**



Vision themes and Priority Goals

Universal access to best-in-class civic services

- Universal Access of 24x7 water supply and waste-water mgmt.
- Housing for All
- 100% Compliance to SWM Rules 2000 / Open defecation free
- 24x7 Electricity and Broadband access

Seamless Mobility

- **Make city Pedestrian and Non-Motorised Traffic friendly**
- **Surveillance and Street lighting**
- Increase Public Transport adoption and use
- Tackle Infra deficits and trunk connectivity expeditiously
- Target Zero Accident Fatalities

Sustainable Environment

- **Tackle water pollution and rejuvenate Water bodies to create Green Lungs and improved ground water table**
- Increase adoption / share of Clean Energy
- Improve and maintain ambient Air Quality

Vibrant Economy

- Be the Best-in-class on 'Doing Business Indicators'
- Facilitate availability of 'Plug and Use' Industrial Infrastructure
- Continued thrust on 'soft infrastructure' to attract/Retain Talent

Effective Governance

- Enhance Institutional Capacity
- Continue thrust on E-governance and M-Governance
- Unlock Revenue potential for Local Body and Civic Authorities
- Adopt a modern Master Plan along with effective enforcement

Agenda



- ❑ Smart Cities Challenge Overview and approach
- ❑ Consultations – Round I, City Vision & Goals summary
- ❑ **Options and Priority ideas - Area Development & Pan city**
- ❑ Next steps

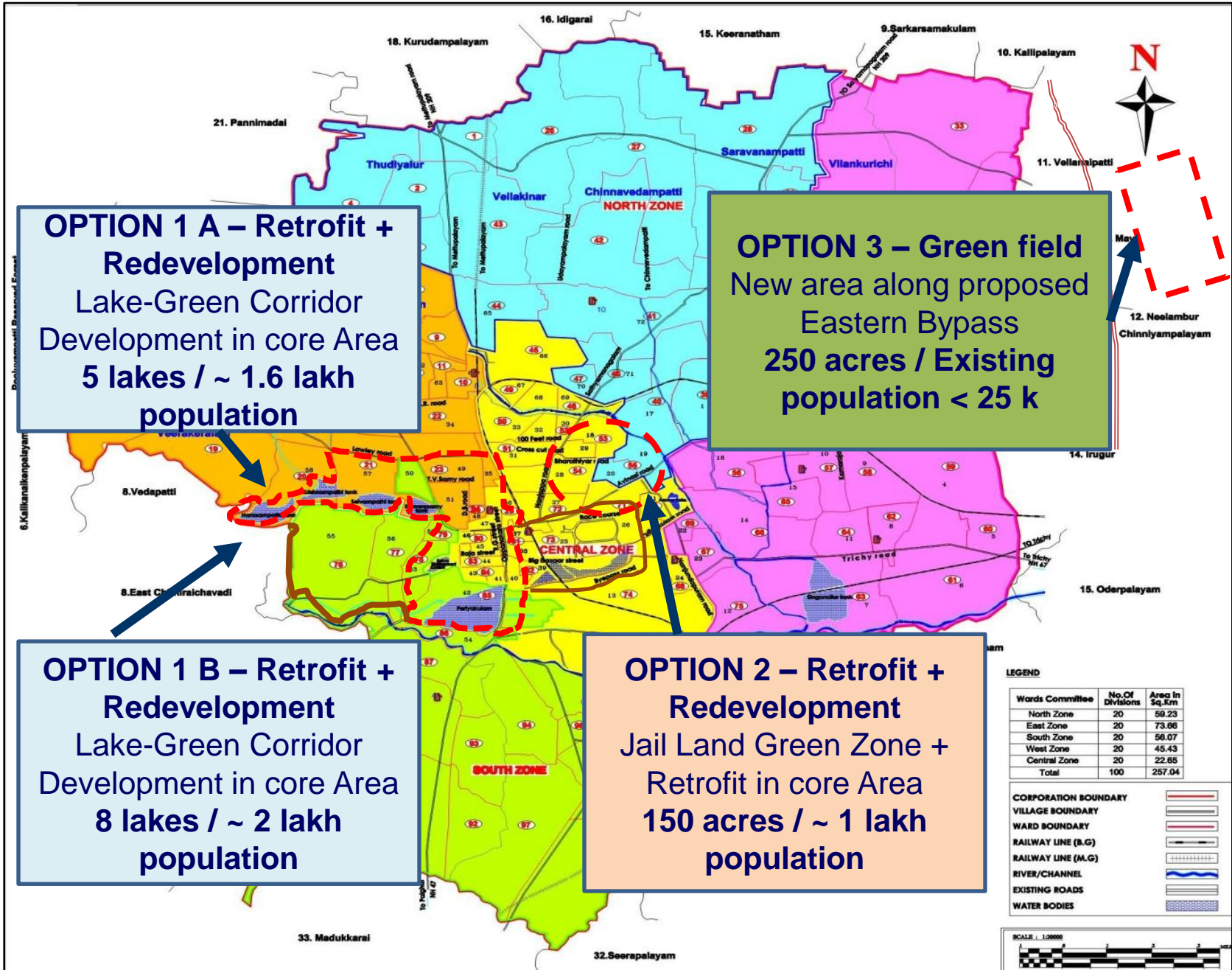
Approach to identify Area proposal and Pan city solution



- ❑ Workshop with Local experts in the week of 26 October
 - Steered by Commissioner CCMC
 - Attended by over 30 experts in urban planning, traffic planning, lake development, forestry, residents associations, etc. working with CCMC
 - Generated ideas from round I consultations were discussed
 - Local experts from city made representations
 - Brainstorming of options

- ❑ Four options for area development were generated

- ❑ Three options have been identified for Pan City solution



Option 1 A and B: Redevelopment + Retrofitting

Water Bodies rejuvenation and retrofitting of surrounding area



Location: Western part of the city

Lakes: Periyakulam, Narasampathy, Krishnampathy, Selvampathy and Kumarasamy tank, Valankulam

1. Water Body Rejuvenation and Open Space improvement

- **Recreational + Tourism - Water sports, water fountains, laser shows etc.**
- **Lake conservation and Environment**
 - Plugging sewage flows in channels/drains along with localized waste-water treatment facilities
 - Green pathway connectors + Urban forestry with Bike tracks/jogging tracks
 - Clearing encroached areas, Clean-up, desilting and strengthening inter-linking channels

2. Rehabilitation of slums

3. **Essential Features** - Water, wastewater, SWM, Energy (including renewable Energy), Broadband,

4. **Eco-Mobility** (NMT, Pedestrianisation, Ducting for utilities) + **Energy efficient Street Lighting**

5. **Soft Infrastructure and Inclusion** ((E-governance services, Health, Education, Skill development)





Valankulam



Periyakulam



Selvapathy Tank



Birds in Singanallur lake



Rationale for priority Area Proposal



- Option 1 A or 1 B – Water Body Redevelopment + Retrofit
 - **Open Spaces and Water bodies high priority Vision theme after core services**
 - Unique differentiated opportunity
 - Strong positive impacts - Economic, Social, Environment and Spatial impacts
 - Green space and recreational area for entire city
 - Ground water recharge in core city.
 - 1.5 lakh to 2 lakh population will benefit from retrofit (~ 10% of city's population) and will cover high density residential pockets
 - Support Migratory birds – over 127 species of birds migrate
 - Nearly 3000 households living along lake side can be rehabilitated building on Valankulam experience and proposed initiative of TNSCB

Agencies that are being consulted



□ Key GoTN agencies involved

- Coimbatore Corporation
- District collectorate
- PWD
- Forestry
- Pollution Control Board
- TN slum clearance board
- TANGEDCO
- Coimbatore Traffic Police
- Local Planning Authority

□ Political representatives

- Mayor and Council

□ Stakeholders

- ICG and other Local NGOs
- Siruthuli
- CII / CODISSIA / Indian Chambers of Commerce
- RAAC
- ITDP



Implementability

❑ Preparatory work

- DPRs for lake cleaning in place
- Coordination with Forests department for identifying species of plantation underway
- TNSCB undertaking a mapping of encroachment/resettlement needs around some of the lakes
- CMP identifies specific NMT/pedestrian actions; CBE has initiated several actions from here.

❑ Actions demonstrating capacity to implement project

- Over 1000 encroachments around Valankulam rehabilitated
- Bid process for Water supply PPP for core area initiated
- Sewerage projects in core underway would complement retrofitting measures

❑ Implementation framework

- Economics of proposal are strong
- Potential to attract external financing / local funding in O&M and management
- Improvements would help build rationale for revision in taxes and user charges
- SPV need to be supported by a Steering Mechanism (GoTN Agencies) + City Advisory Forum



Tentative components and initial costing

<p>❑ Lake restoration (~ Rs. 200 cr.)</p> <ul style="list-style-type: none">• De-silting and bund strengthening• De-weeding and clean-up;• Cleaning channels;• Plug waste-flows• Decentralised treatment /aeration	<p>❑ Retrofit measures (Rs. 500 cr.)</p> <ul style="list-style-type: none">• 100% Water supply and sewerage• 100% SWM – zonal processing• Housing for Urban poor• Street lighting and surveillance• Renewable energy / Ducting
<p>❑ Tourism/Recreation (Rs. 100 cr.)</p> <ul style="list-style-type: none">• Water sports - Rowing/boating• Observatory for bird watching• Eco/nature park• Events / Laser shows• Amphitheatre	<p>❑ Mobility/Open spaces (Rs. 200 cr.)</p> <ul style="list-style-type: none">• Bike tracks/jogging tracks• NMT facilities / Footpaths in area• Green pathways/solar panels• Street furniture / Electric vehicles• Urban forestry

Some components to be funded by convergence with other schemes
Costing based on initial assessment; need to be confirmed based on
baseline, DPRs and normative assessment



Pan City Smart solutions

3 Prioritized solutions emerging from focus group discussions

City-wide Enterprise Application- Single Window citizen service

- Making all services online through single window system
- Developing and implementing M-Governance system
- Use M-Governance for citizen engagement
- ***Transparency in governance and seamless delivery of citizen services***

Energy Efficiency and Surveillance systems

- Interventions to increase energy efficiency in street lighting and utilities compo. like pumping stations etc.
- Network of CCTV surveillance nodes with control room
- Air quality monitoring equipment at major junctions
- ***Energy saving as well as improvement of capability in tackling crimes as well as traffic violations***

Intelligent Transport System

- Vehicle tracking system with GPS in buses, connected with GPRS / GSM; display screens in buses and at bus stands
- Mobile Apps for tracking of buses for citizens
- Surveillance with CCTV in buses, at bus stops and at key junctions along route
- ***Improvement of public transport services***



Next steps

- ❑ Mapping status vis-à-vis template / scoring sheet circulated by MOUD
 - Plug data / information gaps + Plan
- ❑ For Area Development Plan and Pan city initiative
 - Detailing out scope and components
 - Finalisation of financing plan and institutional framework
- ❑ Round 2 consultations (12-20 Nov) + Round 3 dissemination (20-25 Nov)
 - Council, Line Departments, Public stakeholders in coordination with IAC, Siruthuli, RAAC, Industry stakeholders – CODISSIA and CII
 - Seeking feedback on ADP and PCI on social media
- ❑ Submission of Draft SCP as per MOUD guidelines before 30 Nov



Discussion