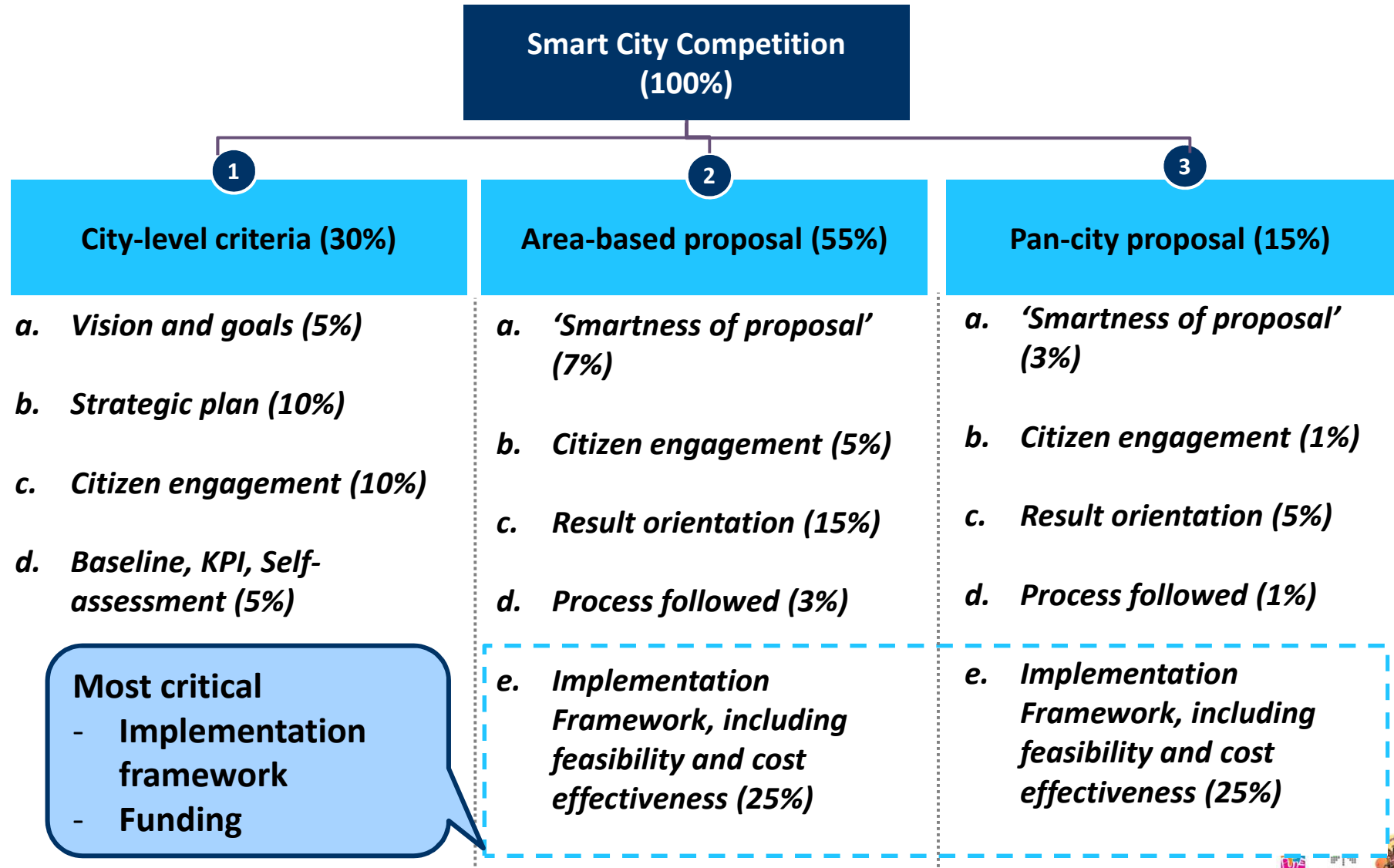


To do well in the competition, we need to do well across 3 areas



EXECUTIVE SUMMARY

- **Pune Municipal Corporation (PMC), Pune propose to take a giant leap forward in making Pune one of the Global Best Cities to live with initiatives across Pan city and local area costing Rs. 2932 cr under Smart City Mission (SCM)**
 - **Two vital initiatives under Pan city to address key pain points raised by citizens – Transport and Water costing Rs. 671 cr**
 - **Provide end to end services in Aundh-Baner-Balewadi (ABB) region to make it a top 10 ‘Best places to live’ and a top 25 ‘Ease of doing business’ ranking as rated by World Bank; Initiatives to cost Rs. 2196 cr**
 - **O&M expenditure: Rs. 65 Cr**
- **In line with MoUD guidelines, SPV to be setup as an independent private company under Company Act 2013 with full flexibility to implement initiatives proposed under SCM**
- **SCM will cover 1/3rd of proposed funding requirement with rest being met primarily existing Central government schemes and land monetization supported by additional FSI**
- **SPV will have 45-50 full time employees headed by a professional CEO and overseen by a Governing Board and an Executive Committee to ensure proper execution and monitoring of proposed initiatives**
- **One of the key objectives of the SPV is to strengthen the corporation and increase operational efficiency mainly on the projects side**
- **We have identified 12 key components to enable institutionalizing the SPV and setting the foundation for Pune to emerge as the #1 city in the Smart City Challenge**












PMC have a great chance to be in the top 10 in the Smart City Challenge because of 10 distinctive features

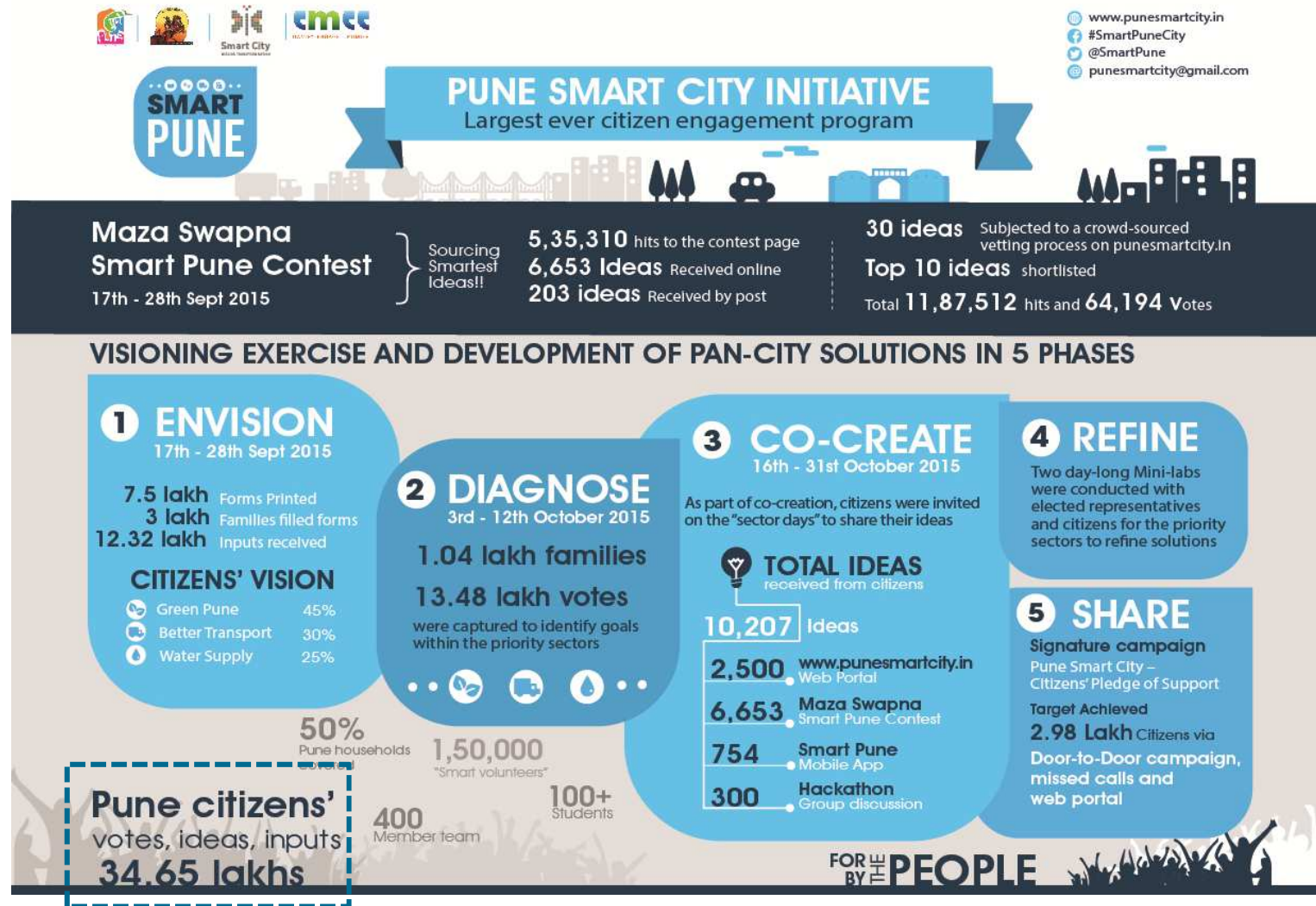
- 1** Pune conducted a detailed desk review across 12 sectors through crack teams consisting of 40+ sector experts to come up with detailed SWOT – Strength, Weakness, Opportunity and Threat analysis of the city
- 2** Only city to create an overall master plan based on proprietary econometric model has been created that will make Pune future ready upto 2030 - detailed infra requirement for the next 5 years has been done
- 3** Sources of funding beyond Smart City Mission (SCM) and other government missions have been identified including land monetization, debt, PPP
- 4** Action has already been taken to seal this funding, including DP changes and a separate, ring-fenced Pune Infra Fund
- 5** Pune is looking at holistic set of city solutions beyond infrastructure and livability, including job creation, socio-economic development
- 6** Several solutions have been tested on ground, 20+ MOUs signed & 50+ support letters from various organizations/ associations to build early conviction on implementation
- 7** Pune is not only looking at ICT solutions, but also "less is more" solutions with much better and proven return on investments
- 8** Pune ran the most comprehensive citizen and stakeholder engagement campaign touching more than 50% of the households
- 9** Pune created a unique eco-system of 300+ partners, experts, companies, urban planners and students to arrive at solutions
- 10** Pune plans to move ahead with SPV creation to ensure that smart city projects move fast and leverage world class expertise to deliver them

CITIZEN ENGAGEMENT

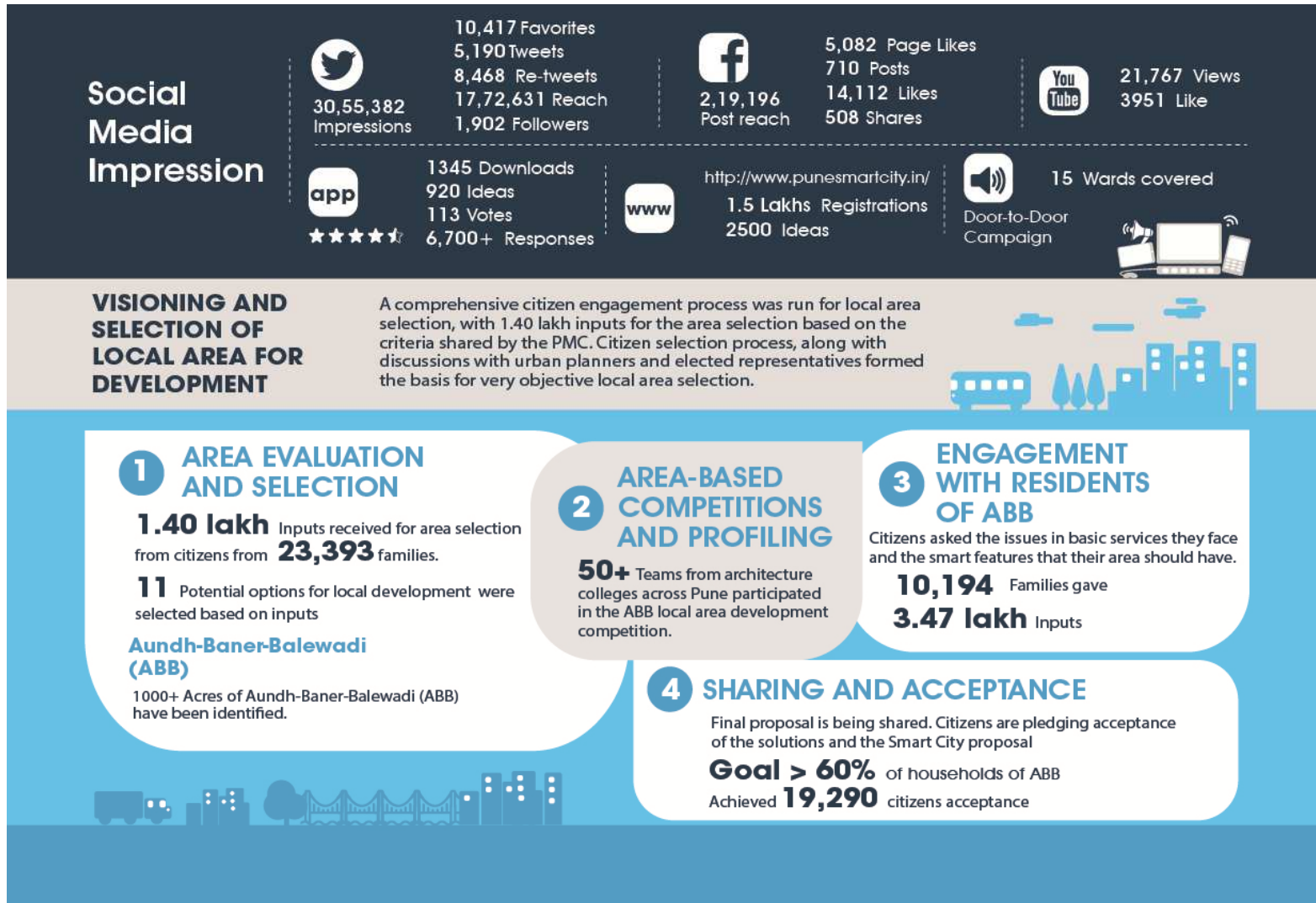
CITIZEN ENGAGEMENT - Pune citizen engagement model' used a structured 5-phase approach is being used to maximize involvement of citizens

Envision 	Diagnose 	Co-create 	Refine 	Share 
<p>Phase – I 17th Sep-28th Sep</p>	<p>Phase – II 29th Sep-9th Oct</p>	<p>Phase – III 9th Oct-23rd Oct</p>	<p>Phase – IV 23th Oct-15th Nov</p>	<p>Phase – V 15th Nov-15th Dec</p>
<ul style="list-style-type: none"> • Ask citizens on inputs on creating a vision for the city • Ask citizens the major areas of concern in the 12 sectors • Playback results at the end of the phase 	<ul style="list-style-type: none"> • Ask citizens about development opportunities & issues in each core sector & help identify most vital issues that need to be resolved • Playback results at the end of the phase 	<ul style="list-style-type: none"> • Ask citizens for detailed solutions to key pan-city issues 	<ul style="list-style-type: none"> • Conduct delivery labs for extensive problem solving with key experts and citizens to refine solutions • Open citizen discussion forums 	<ul style="list-style-type: none"> • Share the final set of solutions with citizens and open for suggestions and discussions • Get acceptance of citizens through Pledge of support – Signature campaign 

Citizen engagement: most comprehensive in India covering 50% of Pune household



Citizen engagement: Cont....



PMC has Engaged PuneKars on Citizen Engagement at an unprecedented scale

More Than **34 Lakh** inputs/votes from citizens
 All achieved in just **60** days

PAN CITY INITIATIVE

ENVISION
 (17th -29th September)

7.5 Lakh

forms printed and distributed to house holds

More than **3 Lakh**

Families filled the form and data digitized to decide citizen's **VISION** and identify the **ISSUES**

DIAGNOSE
 (03rd -12th October)

1.04 Lakh

Families gave input (online/offline) for **GOALS** prioritization

13.5 Lakh

number of votes received to identify the goals from **SIX PRIORITY SECTORS**

AREA DEVELOPMENT

Area Survey
 (20th -26th October)

11 areas surveyed

Socio Economic Survey **700** families
 slum areas **1.41 Lakh** inputs

23,393

Families decided (online/offline) the **AREA** to be developed with **1.4 Lakh** inputs

ABB 10,194 citizens with **2.14 lakh** inputs

ABB Area Survey 60% of total households covered

50%

of total Pune households covered

All **15**

wards covered by door-to-door campaigns

1,50,000 more

registrations on (www.punesmartcity.in) Pune Smart City web portal

400

member team running the initiative across private and public sectors

100

Meetings with different sectors/groups

Citizen pledge - Signature Campaign
 Door 2 Door Campaign

+3lakh citizens and

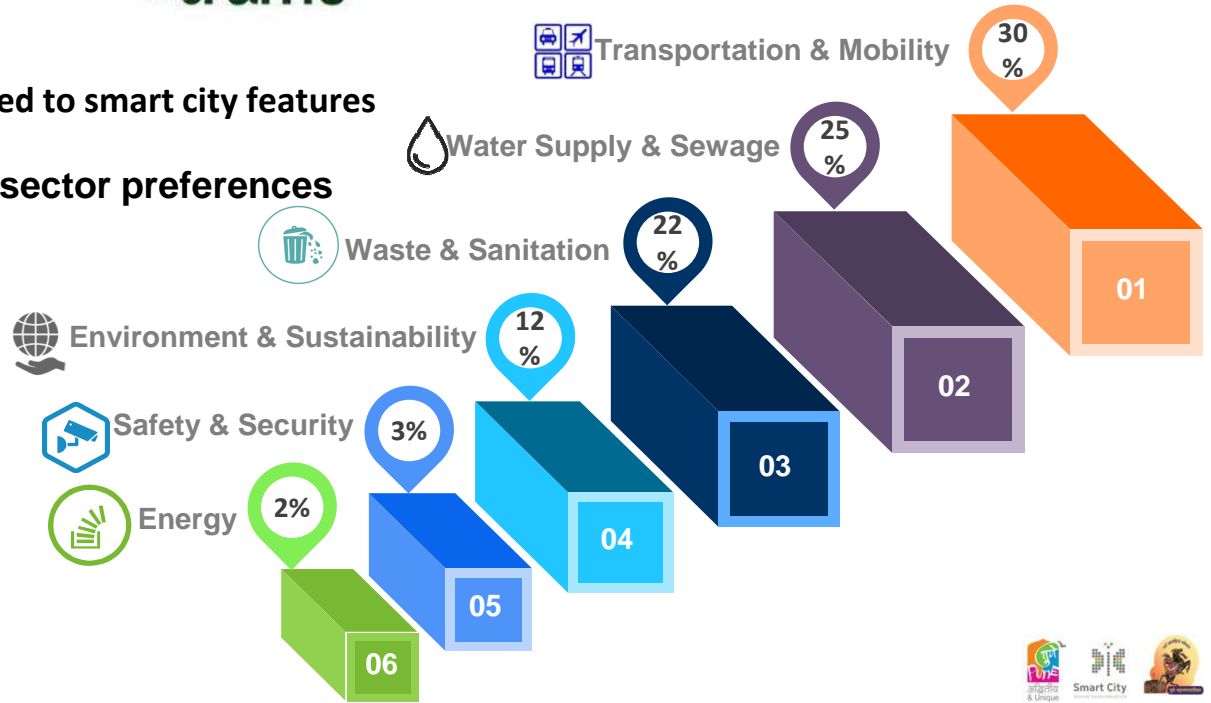
+60 K miscall in **10** days

Citizen's Vision & Issues



Issues aligned to smart city features

Top six sector preferences



Several means of offline citizen engagement....

Door-to-door form distribution and filling



Form collection at ward offices




Banners and hoardings at public places



Charter of Associations: Pune Smart City Proposal

Charter of Association
Pune Smart City Proposal



We pledge to work together towards our shared vision of Smart Pune



Logos and signatures of associations and companies including:

- MCCIA
- NASSCOM FOUNDATION
- FICCI
- CIIL Confederation of Indian Industry
- ZenSar TECHNOLOGIES
- DELIVERING CHANGE Foundation
- City Centre Pune
- PUNE INTERNATIONAL CENTRE
- PMPML
- ITDP Institute for Transportation & Development Policy
- EMBARQ | WORLD BUSINESS INSTITUTE
- KPIT
- limo
- I AM
- PDA Prasanna Desai Architects
- MAHAVITARAN Maharashtra State Electricity Distribution Co. Ltd.
- ISGF India Smart Grid Forum
- Prayas (Energy Group)
- सी डेक CDEC
- SCMHRD
- M.C.E. SOCIETY
- IEEE
- emee GAMIFY. ENGAGE. OPTIMIZE.
- CISCO
- Microsoft
- aikonlabs Realizing Ideas
- PERSISTENT
- Janwani जनवाणी
- EKansh Awareness, Acceptance, Enablement & Inclusion
- RED
- RADIONIRCHI
- RELIANCE Mobile
- vodafone
- idea
- DOCOMO
- airtel



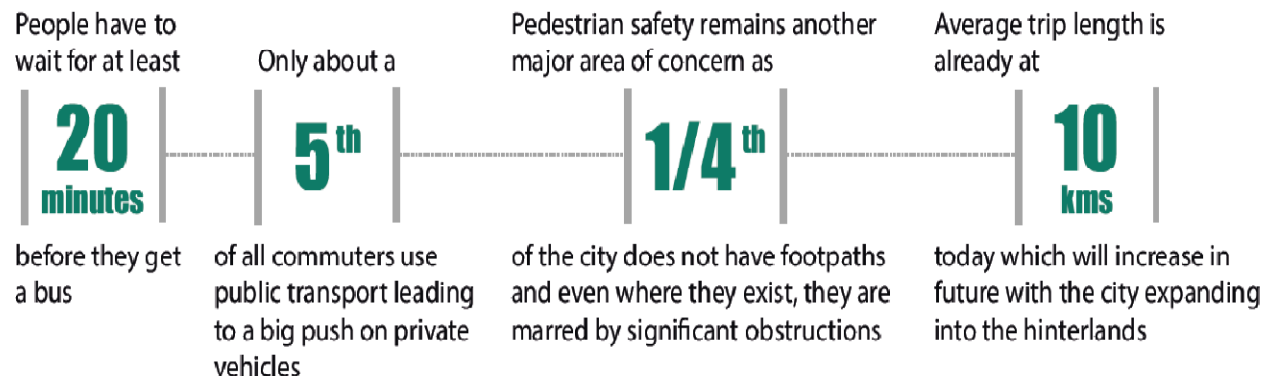
PAN CITY:

Transportation
Water Supply

Result Orientation: we chose what matters most to citizens

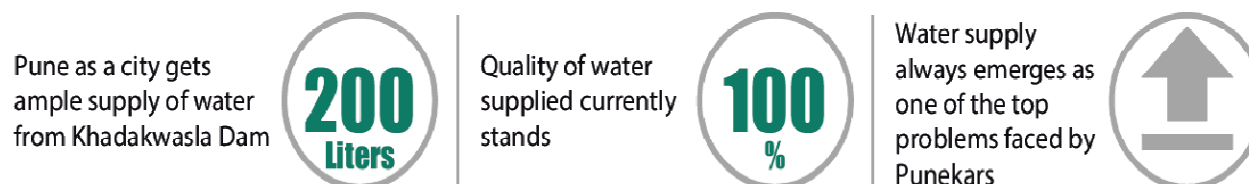
Transport and Mobility

Single biggest issue



Water

Inequitable distribution

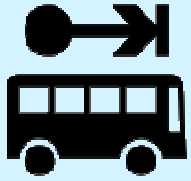
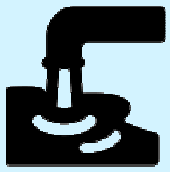


In a recent survey, water supply has been voted as the second most important issue faced by the citizens. The cause of this problem can be attributed to the inextensive water distribution network in the city (around 93% of the city is covered by the distribution system), which doesn't ensure equitable supply of water to Pune-kars. Further, lack of water meters in the households and fixed annual charges lead to a lot of wastage. As a result, approximately 15-20% of the city gets less than 150 litres of water per day

Pan-City: detailed plan created

Sector	Initiative	Capex + Opex for 5 years (INR cr)
<p>1</p> <p>Transport and mobility</p>	<ul style="list-style-type: none"> ■ Pune Smart Public transport system <ul style="list-style-type: none"> – GPS and real-time monitoring of buses – Smart bus stops with public information systems – Real-time tracking of buses through mobile apps – Vehicle health monitoring ■ Smart Adaptive Traffic Management System <ul style="list-style-type: none"> – 319 signals – Pedestrian right of way buttons and emergency response system – PA system, solar panels and UPS ■ Advanced traffic management using E-challan system, CCTV and mobile GPS based traffic analysis and intelligent road asset mgmt 	<p>393 cr</p>
<p>2</p> <p>Water and sewage</p>	<ul style="list-style-type: none"> ■ 24x7 water supply pilot <ul style="list-style-type: none"> ▪ Customer survey on GIS Platform to identify irregular connections and increase reach of service ■ Grievance redressal and Smart Customer Service to improve customer experience ■ Smart Bulk Meters with SCADA, 100% Smart Metering for commercial establishments, Smart metering for domestic households through a “Give up water subsidy” campaign along with a revised telescopic tariff ■ Helium technology based Leak Identification across 2688Km. 	<p>278 cr</p>

Pan-city initiatives will improve the key indicators in the 2 core sectors of transportation & mobility and water & sewage in Pune

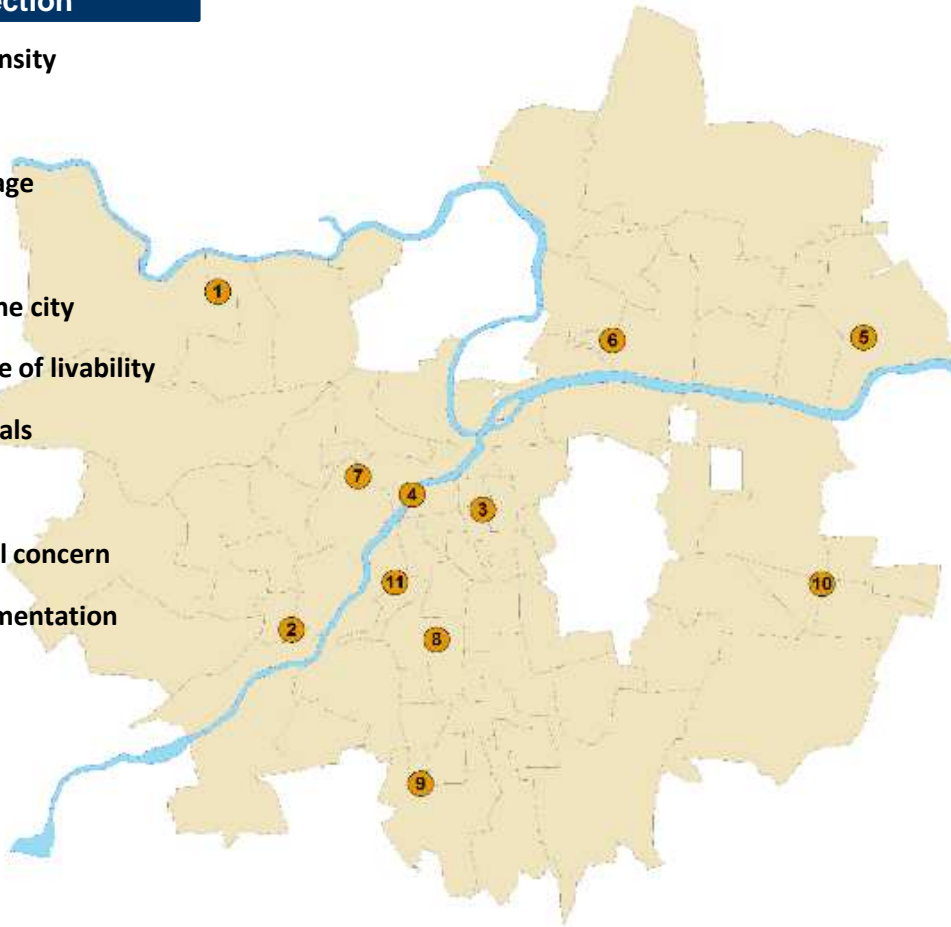
Sector	Metric	From	To	Benchmark
1 Transport and mobility 	• Public transport usage (% of trip share)	• 18%	• 30%	• >50%
	• Availability of buses (%)	• 68%	• 75%	• >90%
	• Non-motorized vehicles (NMT) usage (%)	• 33%	• 39%	• >50%
	• Average traffic speed (km/hr)	• 18	• 20-22	• -
2 Water and Sewage 	• Water deficient areas (%)	• 14%	• 0%	• 0%
	• Average consumption per capita (lpcd)	• 219	• 150	• -
	• Sewage discharged into the river without treatment (%)	• 30%	• 0%	• 0%
	• Leakage and Non-revenue Water (%)	• 30%	• 15%	• <15%

AREA DEVELOPMENT: Aundh-Baner-Balewadi (ABB)

Eleven areas across Pune were initially considered as potential options for local area development based on 10 assessment criteria

Criteria for selection

- Population density
- Mixed use
- Identity-heritage
- Slums
- Criticality to the city
- Existing degree of livability
- Future proposals
- Replicability
- Environmental concern
- Ease of implementation



Area options

- 1 Aundh-baner-Balewadi
- 2 Karve Nagar
- 3 Core city area
- 4 River bank (Lakadi Pul-Nava Pul)
- 5 Kharadi
- 6 Yerawada
- 7 College area (FC Road to Karve Road)
- 8 Sahakar Nagar
- 9 Dhanakvadi-Ambegaon
- 10 Hadapsar-market area
- 11 Sinhagad Road- Dandekar Pul

These were then evaluated on a set of criteria by citizens, experts as well as the elected representatives

Criteria for selection

- Job creation potential
- Potential for creating larger impact
- Potential to become identify of Pune
- Model area for future with mixed use
- Potential for socio-economic transformation
- Potential to replicate in the rest of Pune
- Feasibility of implementation

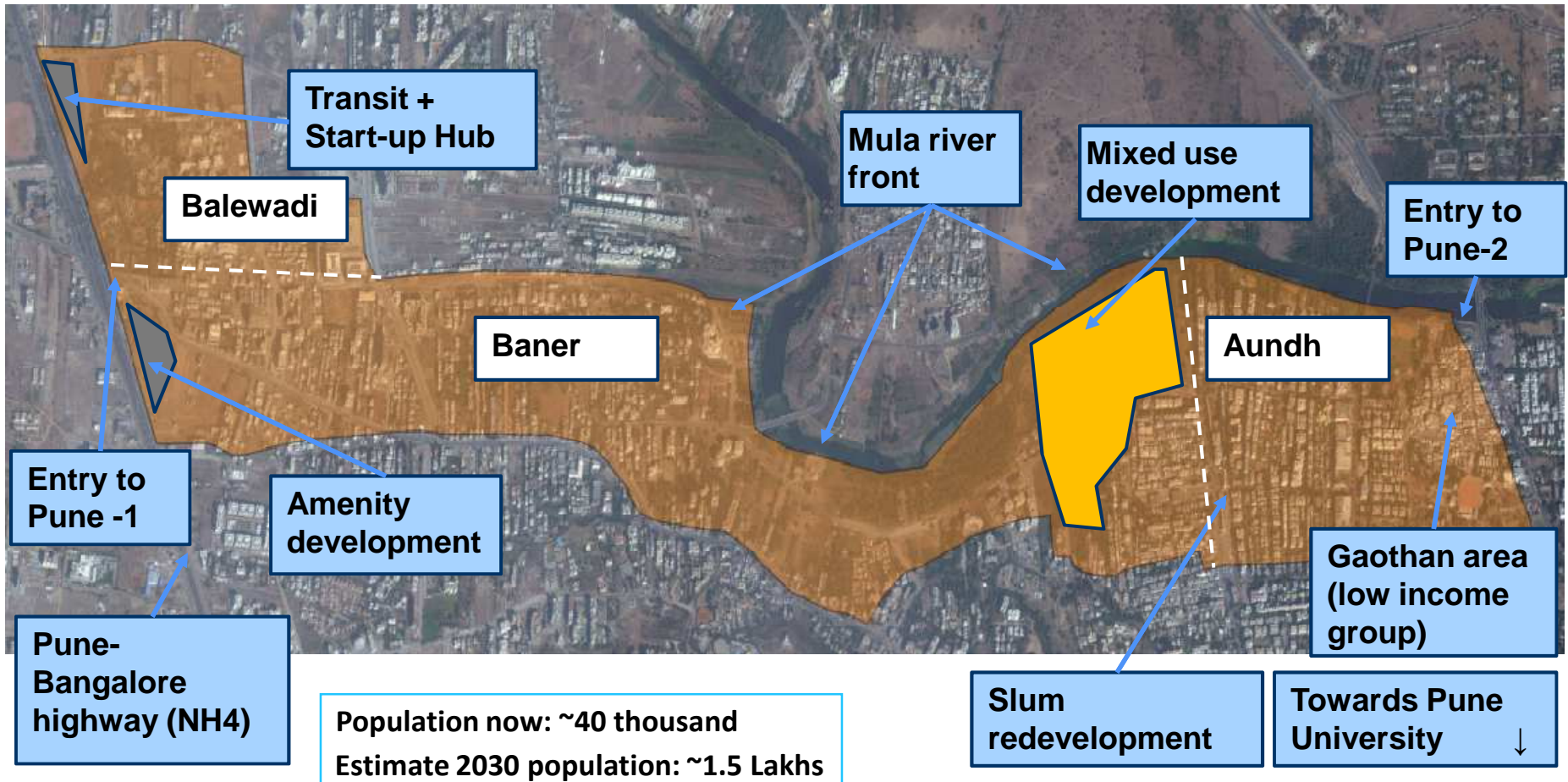
Citizen inputs

Inputs from elected representatives

Other inputs (urban planners, architects, etc.)

World class area development

900 acres of Aundh-Baner-Balewadi



Key initiatives in Area-based development (1/3)

Sector	Initiative	Capex + Opex for 5 years (INR cr)
<p>1</p> <p>Transport and mobility</p>	<ul style="list-style-type: none"> ▪ BRT corridor of 8 km length that benefit the ABB area and other areas of Pune ▪ Redesign 27 km streets, 60 km footpaths, 14 junctions ▪ Public bicycle sharing system with 1200 bicycles ▪ Smart Multi-level car park for 750 vehicles ▪ 100 electric buses, 100 e-rickshaws ▪ Development of 54 smart bus stops 	<ul style="list-style-type: none"> ▪ 1086 cr total
<p>2</p> <p>Water and sewage</p>	<ul style="list-style-type: none"> ▪ Smart bulk, domestic and commercial metering across entire ABB region ▪ Build key infrastructure (7 reservoirs, 50 km pipelines and pumping stations) to ensure 150 lpcd water in the region ▪ Rain-water harvesting by 3.75 l capacity sumps and reusing water for gardens etc for ~100 housing societies ▪ Storm water drainage system for ABB ▪ Clean 4 km of Ram Nadi stretch 	<ul style="list-style-type: none"> ▪ 292 cr total






Key initiatives in Area-based development (2/3)

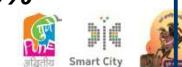
Sector	Initiative	Capex + Opex for 5 years (INR cr)
3 Waste and Sanitation	<ul style="list-style-type: none"> ▪ 100% segregation, transfer and transport ▪ SWAT team to manage cleanliness of ABB area ▪ Construction/ refurbishment of 74 public toilets ▪ 357 smart bins 	<ul style="list-style-type: none"> ▪ 39 cr
4 Smart Grid and Solar	<ul style="list-style-type: none"> ▪ Smart grid and smart metering in all households to ensure 24X7 electricity supply ▪ 15% solar energy in the area ▪ 3070 smart and energy efficient street lights 	<ul style="list-style-type: none"> ▪ 420 cr
5 Livability – riverfront development, open spaces, amenities, safety and security	<ul style="list-style-type: none"> ▪ 3.5 km of world class riverfront development ▪ 13 inter-connected gardens, parks and open spaces, accessible to any citizen within 5 minute walking ▪ Additional 4 schools and 3 hospitals ▪ 100% CCTV surveillance and dedicated 24X7 emergency control center and response team ▪ 2 additional fire-stations to make area 100% fire-safe 	<ul style="list-style-type: none"> ▪ 148 cr

Key initiatives in Area-based development (3/3)







Sector	Initiative	Capex + Opex for 5 years (INR cr)
6 Slum redevelopment	<ul style="list-style-type: none"> ▪ Redevelopment of 2.25 acre Dr. Babasaheb Ambedkar Vasti slum in the ABB region ▪ Skill development and educational initiatives to create livelihood for youth ▪ EWS/LIG housing in 15% of greenfield 70 acre area 	<ul style="list-style-type: none"> ▪ 60cr
7 E-governance, IT connectivity and citizen services	<ul style="list-style-type: none"> ▪ Integrated operations center to monitor and respond to citizen grievances and maintenance requirements ▪ Wi-Fi across the area and laying of fiber optical cable ▪ Single-window citizen desk for all grievances and public services 	<ul style="list-style-type: none"> ▪ 151 cr
8 Transit and start-up hub	<ul style="list-style-type: none"> ▪ Develop Transit and Start-up hub, including Multi-level car parking in the in the ABB area 	<ul style="list-style-type: none"> ▪ -

These initiatives will improve key metrics of livability in the ABB area (1/2)

Sector	Metric	From	To	Benchmark
1 Transport and mobility 	• Public transport usage (% of trip share)	• 18%	• 40%	• >50%
	• Number of buses (# per Lakh population)	• 46	• 79	• >55
	• Non-motorized vehicles (NMT) usage (%)	• 33%	• 50%	• >50%
	• Average traffic speed (km/hr)	• 18	• 22-23	• -
2 Water and Sewage 	• Average water supplied (lpcd)	• 90-120	• 150	• >135
	• Water deficient areas (%)	• 60-70%	• 0%	• 0%
	• Sewage discharged into the river without treatment (%)	• 30%	• 0%	• 0%
	• Leakage and Non-revenue Water (%)	• 30%	• 15%	• <15%
	• Households with rain water harvesting	• 0%	• 100%	• 100%
3 Sanitation and waste 	• Door-to-door garbage collection coverage (%)	• 0%	• 100%	• 100%
	• Waste segregated at source (%)			
	• Public toilets (number per lakh of population)	• 55% • 23	• 100% • 50	• 100% • >50
4 Energy and Solar 	• Energy from renewable sources (0%)	• 0%	• 15-20%	• 20%
	• Energy efficient street-lights (% of total)	• 0%	• 100%	• 100%
5 Amenities 	• Open spaces (% of total area)	• 3%	• 15%	• 10%
	• Number of pedestrian roads	• 0	• 1	• -
	• Roads with adequate footpaths (>2 m footpath)	• 40%	• 0%	• 0%

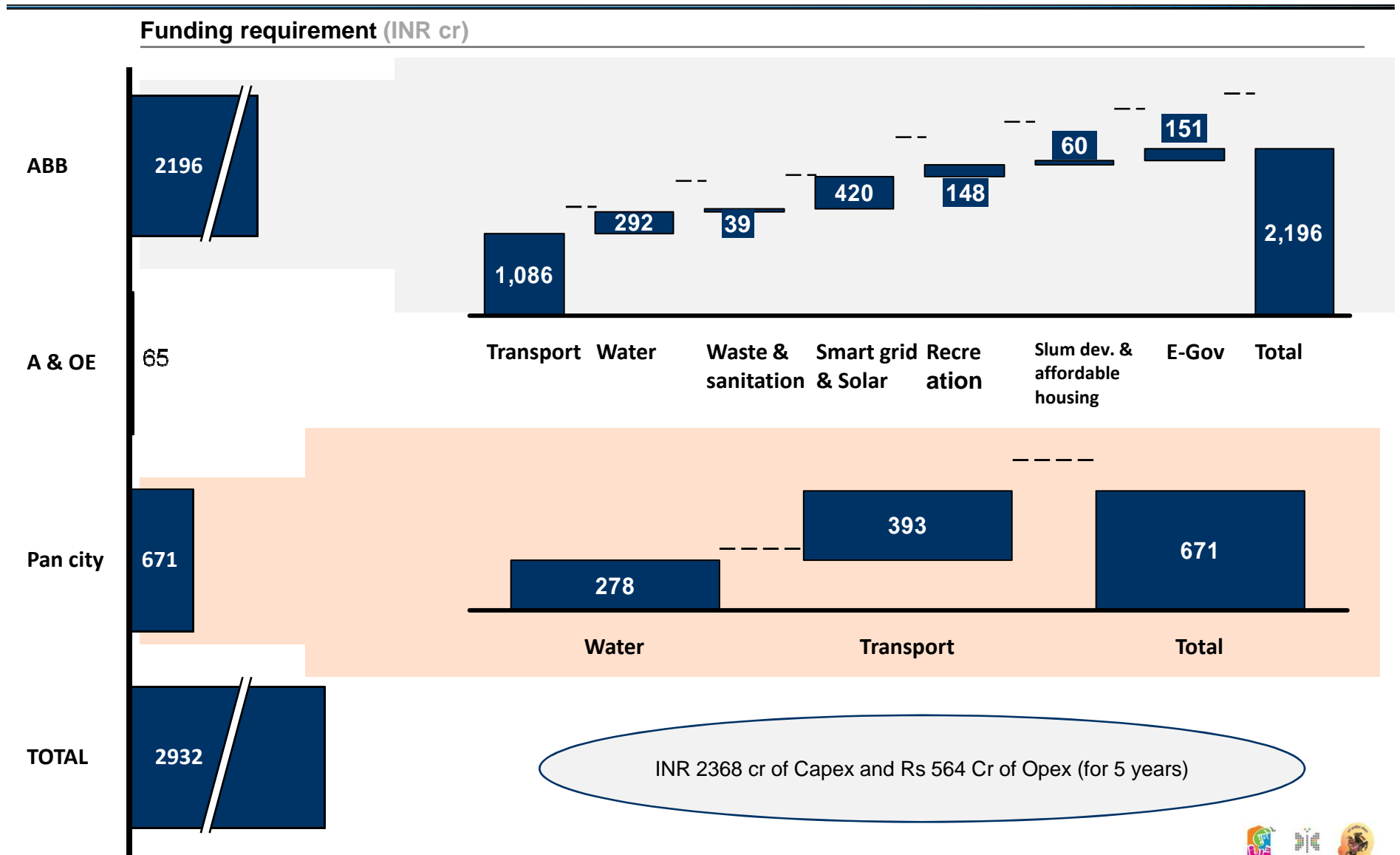


These initiatives will improve key metrics of livability in the ABB area (2/2)

Sector	Metric	From	To	Benchmark
6 Safety and security 	• CCTV security coverage	• 20%	• 100%	• 100%
	• Response time (minutes)	• 20-30	• <10	• <10
	• Number of security personnel per Lakh of population	• 60	• 120	• 136
7 E-governance and digital 	• Number of services provided via single window	• 0	• 20-25	• -
	• Public Wi-fi coverage	• 0%	• 100%	• 100%
	• Digital literacy	• 60-70%	• 100%	• 100%
8 Slum re-development 	• Number of HH living in slums	• 500	• 0	• 0
	• Unemployment (especially in slums, %)	• 6%	• 2%	• 2%
9 Affordable housing 	• # of affordable houses in the region	• 0	• 400-500	• 400-500
	• % of affordable houses in the region	• 0%	• 2%	• 10%
10 Health 	• Hospital beds per 10,000 population	• 104	• >40	• >40
11 Education 	• School area per student (sq ft of school area available per student)	• 29	• 35	• 35

FINANCIAL PLAN

Smart city needs total funding of Rs. 2932 cr



Identified funding sources of INR 2932 cr equaling funding requirement

Funding source	Amount (INR cr)
<ul style="list-style-type: none"> ▪ Smart city initiative <ul style="list-style-type: none"> – Government of India (50%) – Government of Maharashtra (25%) – PMC contribution 	<ul style="list-style-type: none"> ▪ 1000 cr
<ul style="list-style-type: none"> ▪ Central government scheme / Other State utilities <ul style="list-style-type: none"> – Ministry of Power's IPDS scheme for Smart Grid – FAME scheme to procure electric buses – MWRD funding for water supply 	<ul style="list-style-type: none"> ▪ 700 cr
<ul style="list-style-type: none"> ▪ Land monetization of PMC land in the ABB area 	<ul style="list-style-type: none"> ▪ 1000 cr
<ul style="list-style-type: none"> ▪ Additional Revenue 	<ul style="list-style-type: none"> ▪ 208 cr
<ul style="list-style-type: none"> ▪ CSR funding 	<ul style="list-style-type: none"> ▪ 200 cr
<ul style="list-style-type: none"> ▪ Total 	<ul style="list-style-type: none"> ▪ 3108 cr

Special Purpose Vehicle (SPV)

Implementation framework - MoUD guidelines

- **The Guidelines provide that the Mission at the city level will be implemented by a SPV, created for the purpose**
- **Flexibility to plan, appraise, approve, release funds, implement, manage, operate, monitor and evaluate the Smart City development projects**
- **The SPV is being formed to strengthen the Pune Municipal Corporation (PMC), increase operational efficiency and bring in innovation in it's functioning.**
- **SPV will be a public limited company with State and the ULB being promoters and majority owners and 50:50 joint ownership**

Framework and Principles of SPV (1/3)

- 1. The local area development projects under the Mission in the SPV Area including their technical appraisal.**
- 2. The pan city projects approved for Pune under the Mission including their technical appraisal.**
- 3. Coordinate with different agencies like PMPML and City Traffic Police for the local area based and Pan city projects**
- 4. Project development activities for implementation of the smart cities projects**
- 5. Identify and develop projects**
- 6. To examine and appraise proposals and monitor the above projects after due diligence and analyze**
- 7. Drive O&M activities after project execution for both local-area development projects and pan-city projects**



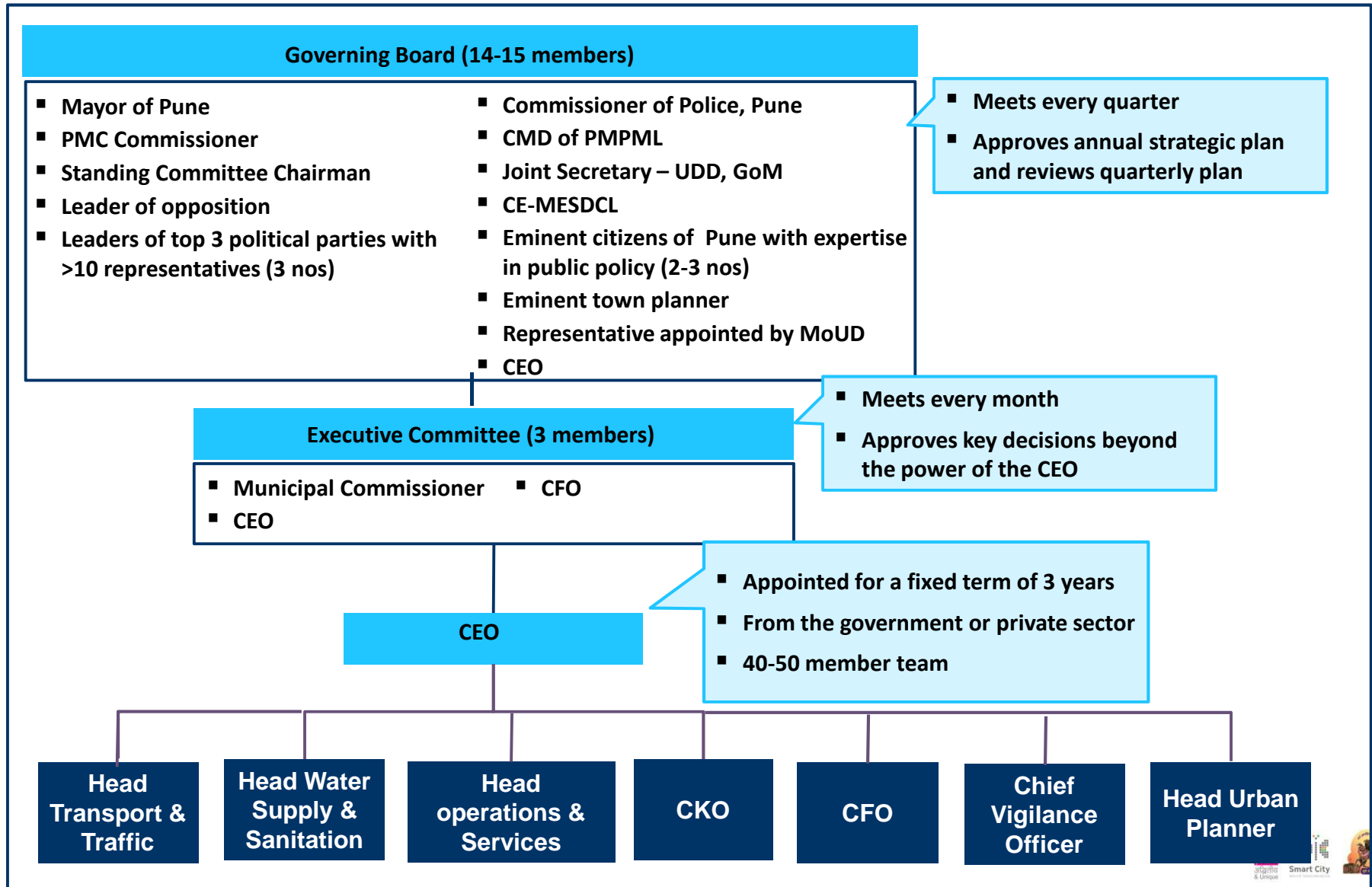
Framework and Principles of SPV (2/3)

- 8. Earn its revenues also from the impact fee and issue PIF based bonds.**
- 9. Right to develop land parcels within SPV Area by land pooling under the Town Planning Scheme mechanism**
- 10. Work as developer for slum rehabilitation in SPV Area**
- 11. Get into Service Level Agreements (SLAs) with concerned PMC departments like Solid Waste Management, Water and other municipal services and the ability to outsource these functions within the SPV Area**
- 12. The SPV Area may be expanded anytime to include more areas with due approval of PMC.**
- 13. Develop amenity spaces and PMC land in SPV Area for citizens. PMC will transfer such lands at no cost to the SPV.**
- 14. Can accept deposits, issue bonds, raise loans from external sources, for the purpose of company subject to the provisions of the relevant acts**

ALLOCATION OF FUNDS / FINANCING

1. The Central Government proposes to give financial support to the extent on an average Rs. 100 crores per city per year
2. The funds provided by the Central Government, State Government and PMC to the SPV will be in the form of tied grant and kept in a separate Grant Fund and will be utilized only for the purposes for which the grants have been given and subject to the conditions laid down.
3. SPV to have the ability to undertake development of greenfield private land in the ABB region through a TP land pooling scheme

Structure of the SPV



Glimpses of Envisioned Development

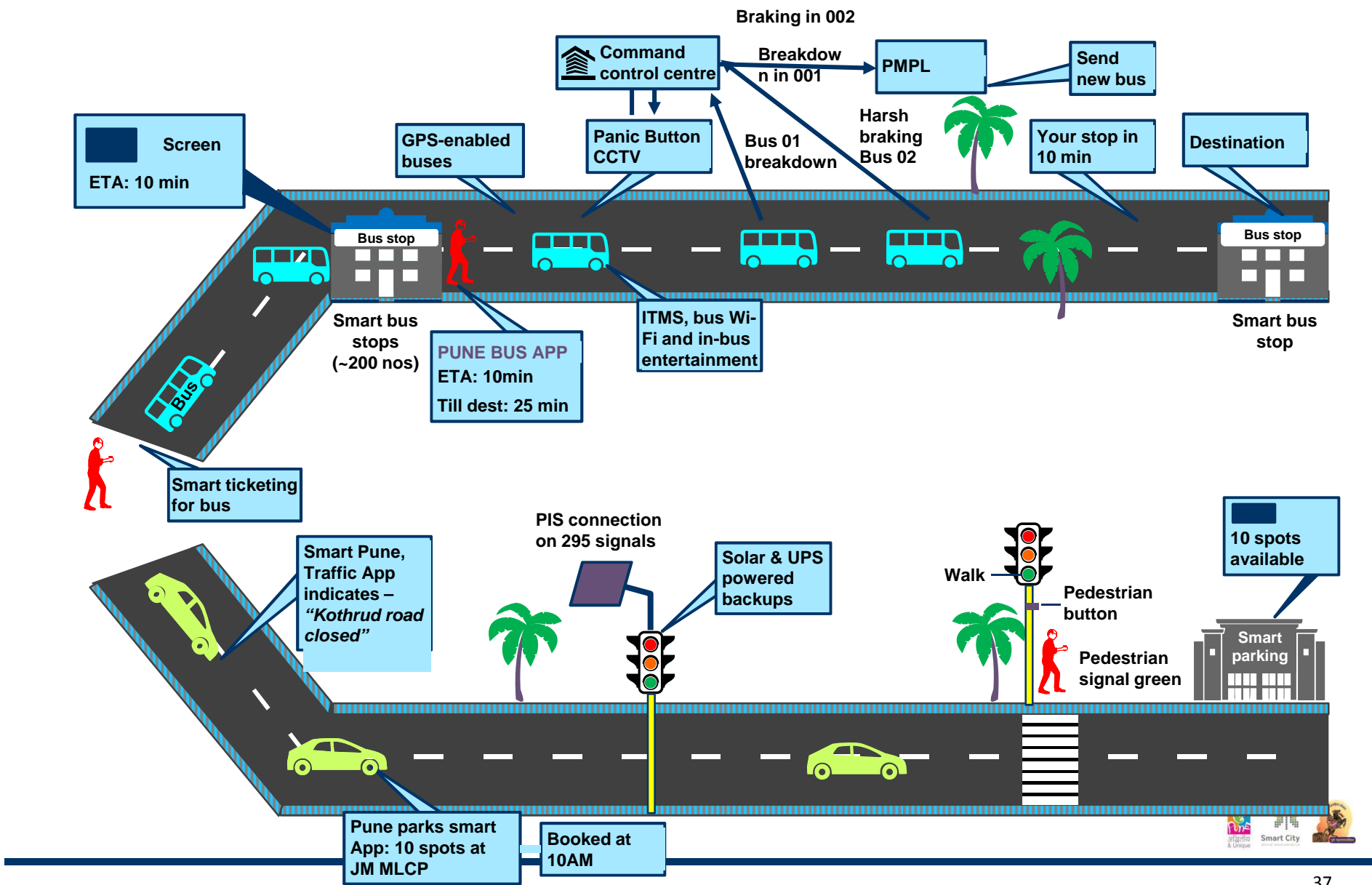
How to transform Pune from this...



'आला बास!' - लोकमत आणि पुणेकरांची संयुक्त चळवळ !

To this...?

Public transportation for those who need



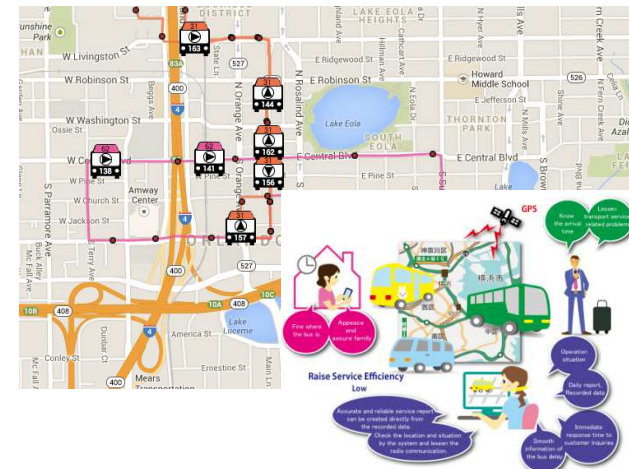
Smart Pune Public Transport System

Improve availability, reliability and passenger comfort

Vehicle health monitoring system



Real-time tracking of 100% buses



CCTV surveillance and panic buttons



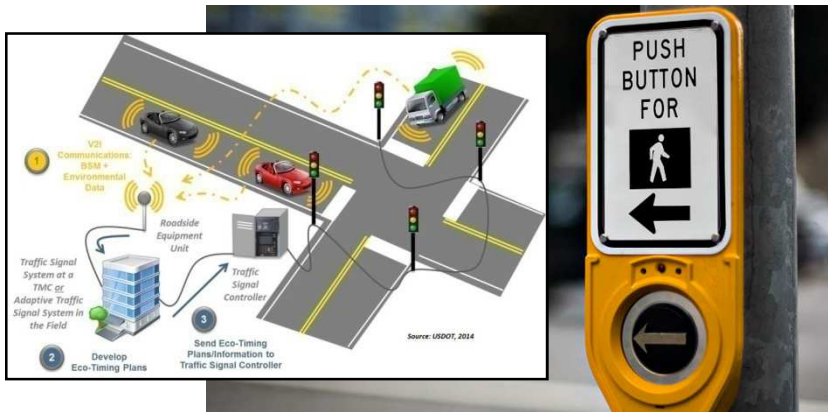
Public information system



Smart Pune Traffic Management System

Reduce congestion through adaptive traffic control and modal shift to NMT

Adaptive traffic signals



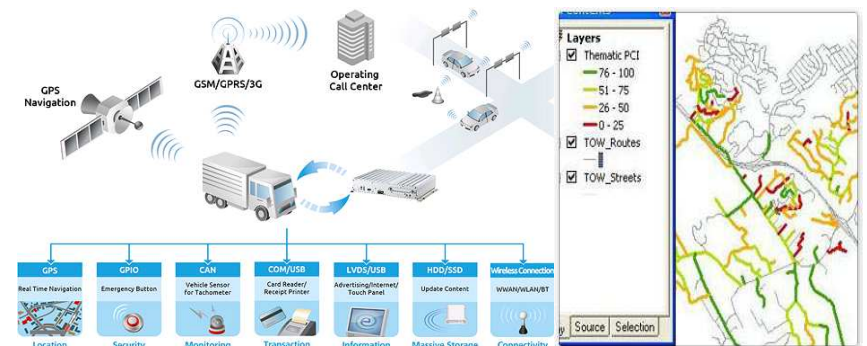
Traffic analysis



Private bus aggregators



Intelligent road asset management



Smart Pune Traffic Management System

Reduce congestion through adaptive traffic control and modal shift to NMT (cont.)

Traffic mobile apps and online portal



Smart parking



Smart Water' solutions

Ensure equitable 150 lpcd water to 100% citizens on 24x7

Smart bulk metering



Helium leak identification



"Give up water subsidy" campaign



100% smart metering



Smart Water' solutions

Ensure equitable 150 lpcd water to 100% citizens on 24x7 (cont.)

24x7 water supply to the city



Comprehensive GIS-based customer survey



Grievances redressal



energy sustainable STP



To this...?

Iconic riverfronts across Pune

SCULPTURAL BUILT MASS AS ANCHOR POINTS
Viewing decks/ rooftop for solar energy harnessing

LANDSCAPED PARKS AND PATHWAYS
FOR PEDESTRIAN COMFORT



HARDSCAPING IN SEMI PERMEABLE MATERIALS
(to allow ground water percolation)

STEPPED PLAZA FOR CASUAL SEATING
(creation of Amphitheater for cultural purposes)

Iconic riverfront development for Pune



RIVER FRONT DEVELOPMENT



FLOOD BED -
URBAN FARMING

Performance Gallery &
Public Zone



RIVER FRONT DEVELOPMENT

River Promenade & General Development

SENIORS OPEN AIR GYMS



RELAXING MULTI USE PAVILIONS



VIEWING DECKS



HIGH ENERGY PLAY AREAS



RIVER FRONT DEVELOPMENT

Exhibition Retail Area

**PEDESTRIAN
COMFORT
AMENITIES**

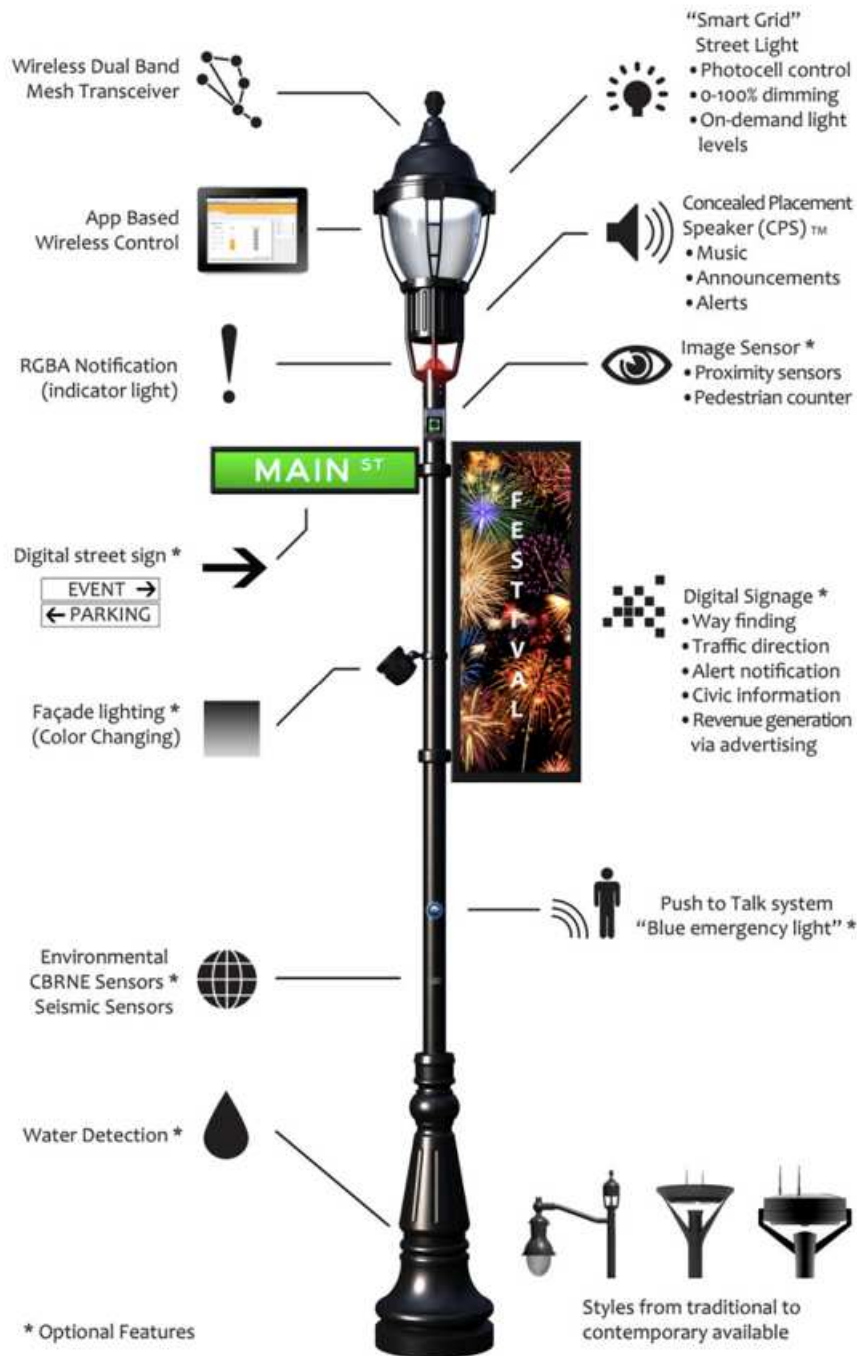
**UTILITIES LANDSCAPING
UNOBSTRUCTED
WALKING ZONE**



**VISUALLY
ENGAGING
STREET EDGE**



Street Lights



Temperature
Ambient light
Power monitoring
Motion
Audio & Video
O₂ & CO₂
UVA/UVB
Radiation
Wind & Rainfall
Particulate matter
Pressure
Humidity

Parking
Car counting
Vehicle Speed
Surveillance
Unattended objects
Street activity
Movement details
Queue length
Dwell time
Event counting
Street amenity

Local Area Development solutions

Smart Transport

Features of Smart Transport to be developed



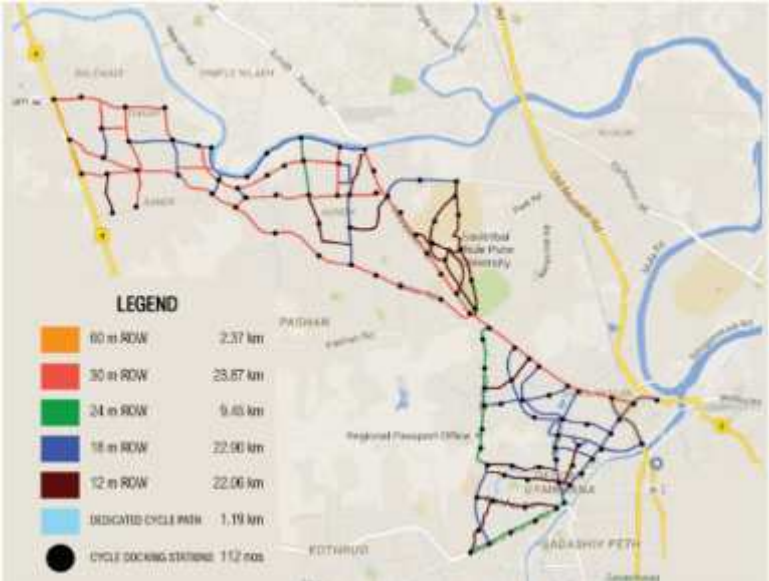
- Smart Transport
 - BRT
 - Feeder Network
 - E buses
 - E Rickshaws

Visual model of Smart Transport

Feeder Bus Service

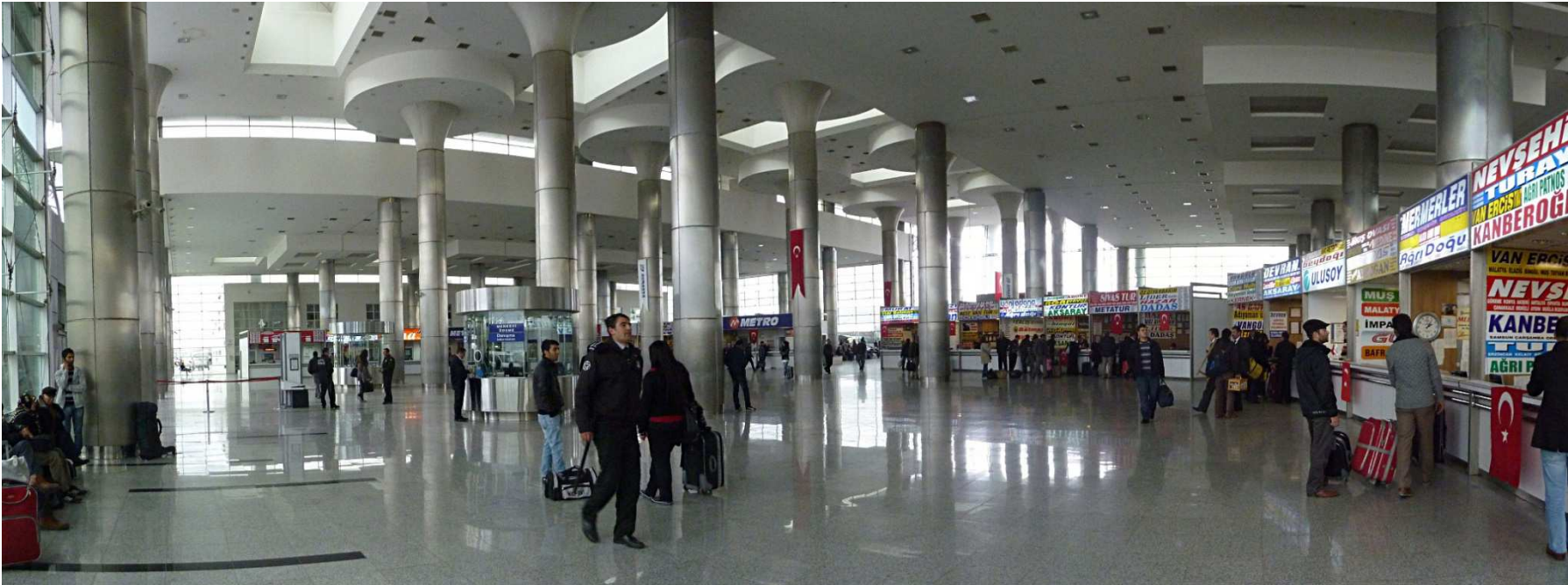


PBS: Station Locations, Components



TRANSIT HUB AND STARTUP COMPLEX

SUGGESTIVE IMAGERY



Local Area Development solutions

Socio-economic Development of Slums

Visual model of Socio economic development

Socio economic of slum areas



Slum area (~500 HH)

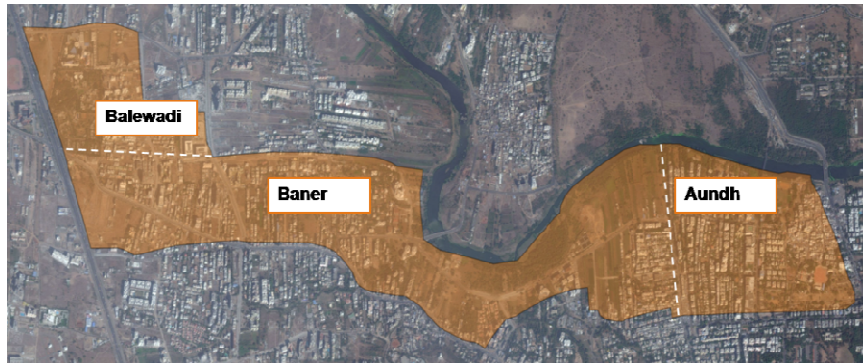
- Socio – Economic Transformation



Local Area Development solutions

Energy Sustainable

Energy Sustainable Features



- Develop the Smart grid in the ABB Area
 - Solar energy/ roof top
 - Smart metering
 - LED lighting

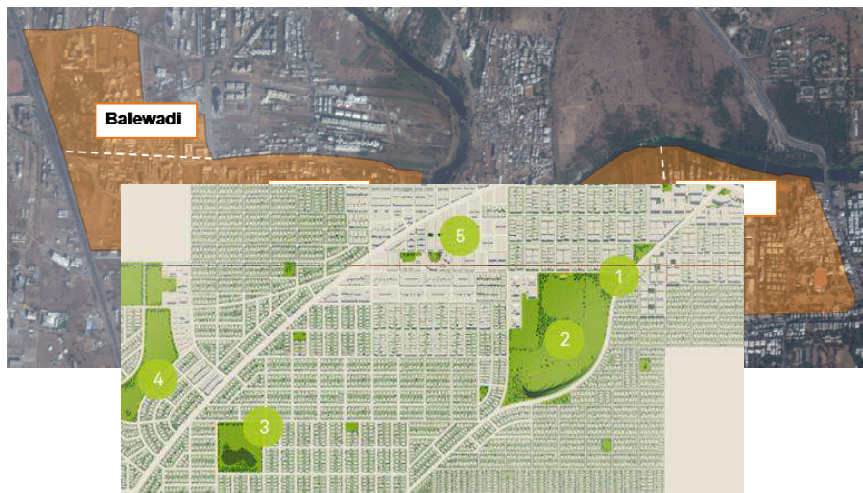
Visual model of Smart – Energy Sustainable



Local Area Development solutions

Development of Amenity Spaces into open spaces

Open spaces to be developed

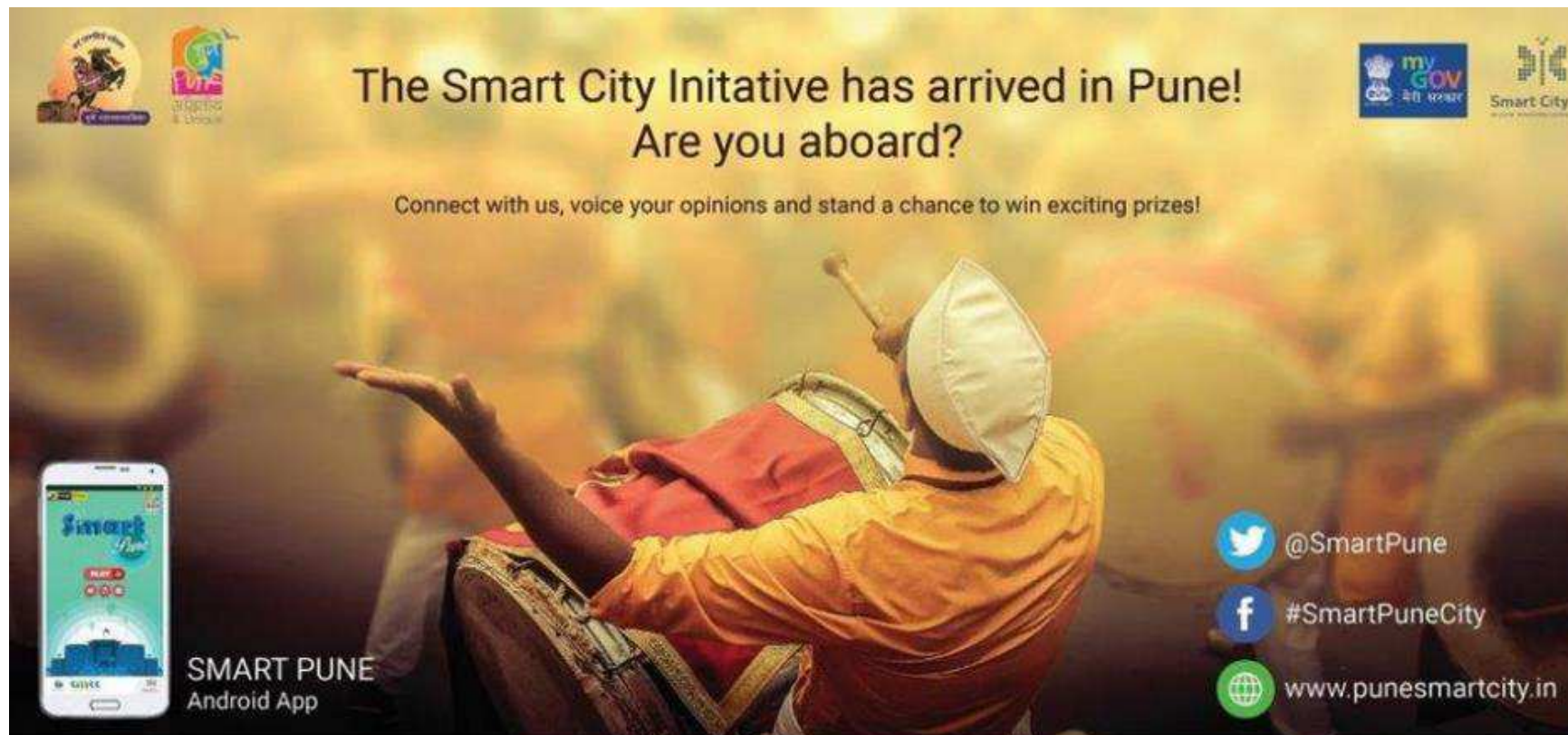


- Open spaces to be created
 - Recreational zones promoting walkability
 - Wi-fi zones
 - School
 - Hospitals
 - Fire stations

Visual model of Open Spaces



Together we can make it happen for Pune!



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Thank You