PIMPRI-CHINCHWAD MUNICIPAL CORPORATION

SMART CITY PROPOSAL



SMART CITY CODE MH-01-PMP









Vision: "RE-defining Pimpri-Chinchwad"

Using the "Smart City" platform, the City now envisages to "Re-define" itself into an attractive, vibrant and liveable destination. Moving beyond providing basic facilities, the City aspires to invest in urban "software" - society, environment, community - to improve the quality of life of its citizens.

- [1] Good provision of CIVIC **INFRASTRUCTURE** and amenities
- [2] Culture of **LEVERAGING TECHNOLOGY** in governance
- [3] STRONG ECONOMIC BASE of automobile and IT industries
- [4] Legacy of URBAN PLANNING and DEVELOPMENT
- [5] ACTIVE CITIZENRY
- [6] Vibrant REAL ESTATE

municipal information systems





- [1] **GROWING REAL ESTATE DEMAND** fueled by IT and auto industries in the region
- [2] AVAILABILITY OF LAND for city expansion
- [3] IMPROVING regional and public TRANSPORT



OPPORTUNITIES

- [1] **CONVERSION** of industrial land to residential is leading to DEPLETION OF ECONOMIC BASE
- [2] UNMET ASPIRATIONS of the emerging creative population
- [3] Environmental POLLUTION





E-GOVERNANCE GOLD AWARD 2011

'SARATHI', PCMC'S MOBILE APPLICATION OFFERING, RECEIVED 1ST PRIZE UNDER RAJIV GANDHI PRASHSAKIYA GATIMANATA ABHIYAAN BY GOM IN 2015





SKOCH AWARD FOR CITIZENS SERVICE DELIVERY

Goals:

RE-CONNECTING NEIGHBOURHOODS

RE-ENERGIZING CITY GOVERNANCE



RE-LINKING MOBILITY NETWORKS



RE-THINKNG ENVIRONMENTAL SYSTEMS



RE-INVESTING IN SOCIAL DEVELOPMENT



RE-VITALIZING LOCAL ECONOMIC DEVELOPMENT







Citizen's engagement



The butterfly is a symbol of transformation – from egg to larva to pupa to the butterfly. It reflects PCMC's own vision to reinvent itself moving beyond the provision of basic facilities. Soaring on the wings of technology (represented by the WiFi wings) and leveraging the existing basic infrastructure (represented by the left half of the leaf), PCMC aims to transform itself into an attractive, vibrant and live-able destination (represented by the green and vibrant right half of the leaf which also resembles the letter 'P' for Pimpri Chinchwad)

PIMPRI-

CHINCHWAD

AWARENESS









ENVISIONING





PARTICIPATORY PLANNING

PRIORITIZATION OF AREA **BASED DEVELOPMENT**

WAKAD - PIMPLE SAUDAGAR

NIGDI-PRADHIKARAN

13% AKURDI RAILWAY

STATION

13% PIMPRI CHINCHWAD STATION AREA

8% SPINE ROAD

13%

5% MOSHI

PRIORITIZATION OF PAN CITY SOLUTIONS



SMART GOVERNANCE

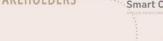
1% OTHER



SMART PARKING



LIST OF STAKEHOLDERS





CENTRAL INSTITUTE OF ROAD TRANSPORT



PIMPRI CHINCHWAD NEW TOWN **DEVELOPMENT AUTHORITY**



INSTITUTION OF ENGINEERS (INDIA)



SENIOR CITIZENS ASSOCIATIONS



JOURNALIST AND MEDIA

MAHRATTA CHAMBER OF COMMERCE

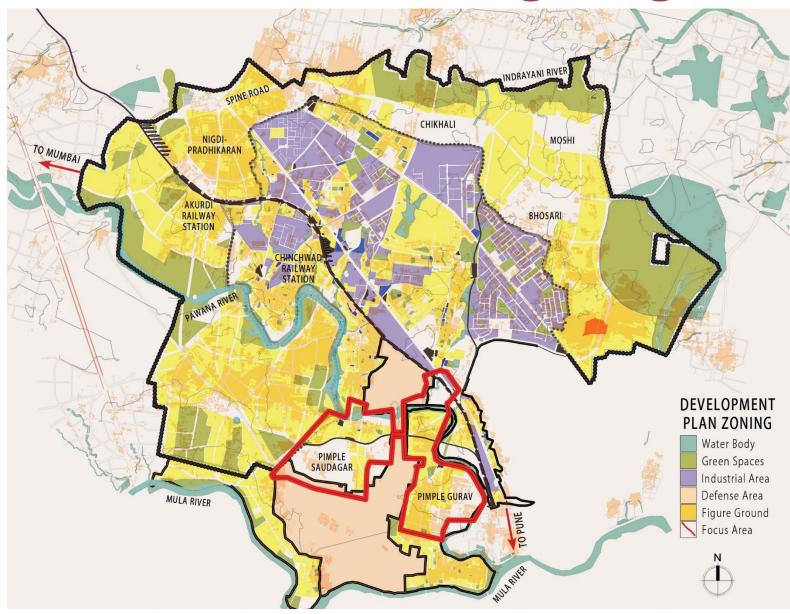
CREDAT CREDAT

COMMUNICATION & COLLABORATION





ABD: "RE-connecting Neighbourhoods"



SELECTED AREA

OTAL AREA

1390 AGRE

Selected area: Pimple Saudagar & Pimple Gurav

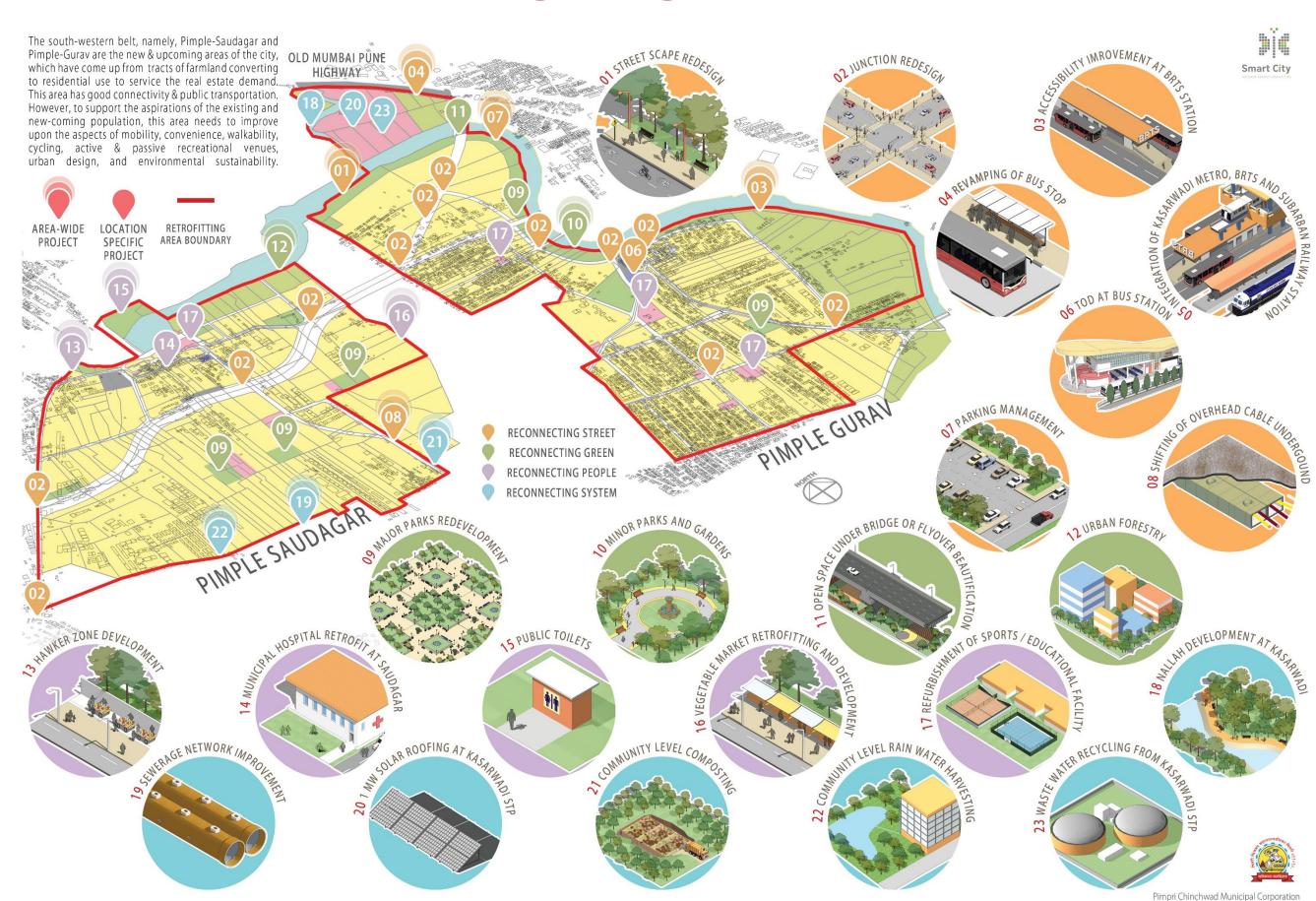


City-wide replication strategy

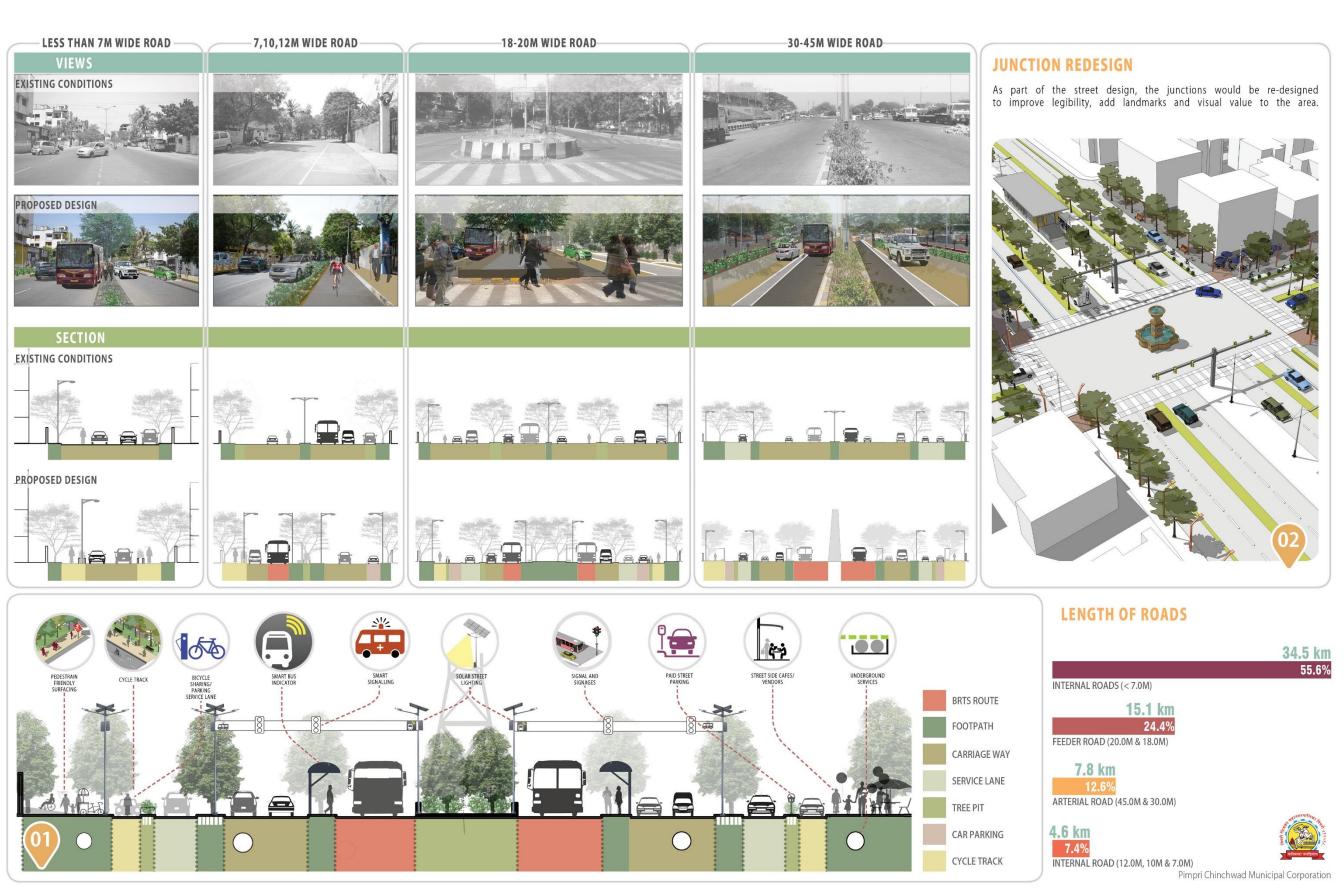


ABD Profile

ABD: "RE-connecting Neighbourhoods"



ABD: Connected Streets



ABD: Connected Streets

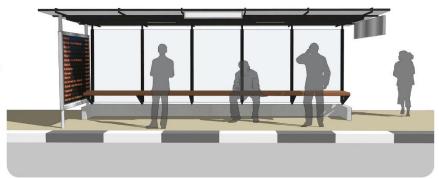


REVAMPING OF BUS STOPS

Similar focus would be given to the BRTS corridor and stations, whereby, the Bus stops would be revamped to make them more attractive and user-friendly.







TOD OF BUS STATION, PIMPLE GURAV

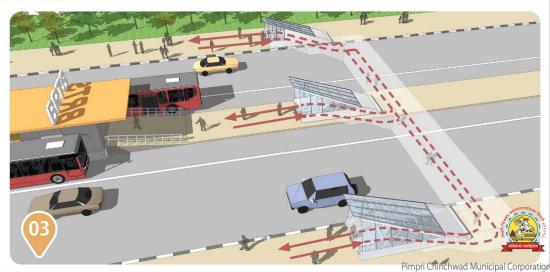
The Pimple Gurav bus station is located in an areas which is slowly become a vibrant neighborhood node. Surrounded by the Dinosaur Park and a growing retail presence, this node is proposed to be developed as an attractive activity hub for the area. This plot would be developed as an integrated TOD hub, with well-organized BRTS and local bus stands, as well as a shopping facilities and community activities.



ACCESSIBILITY IMPROVEMENT

AT BRTS STATION

The pedestrian access to the centrally placed BRTS stations would be redesigned and improved, such that there is smooth, unhindered and safe access to the bus stops.



ABD: Connected Greens

LINEAR PARK

The Nashik Phata Road is a key transportation corridor for this area, along which the BRTS corridor plys. The two green strips - 600 metre long and approximately 30 metre wide immediately abutting this Road, are proposed to be developed as linear city parks, with several attractive fitness, leisure, educational, cultural and entertainment activities planned within



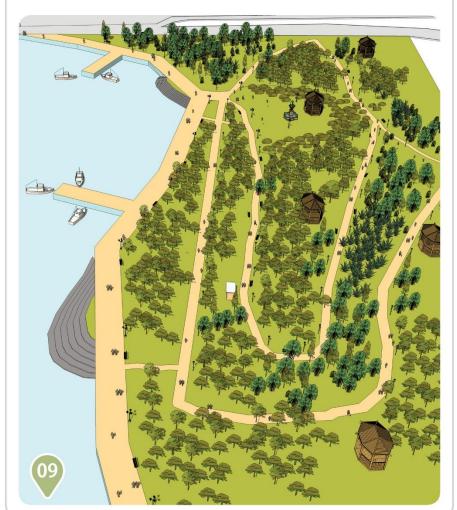
MAJOR AND MINOR PARKS

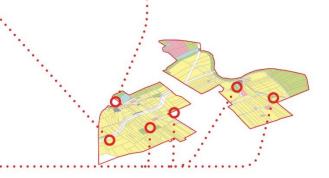
The major and minor garden and playground reservations in the area are proposed to be redesigned so as to add more activities and improve usage. This is proposed to be done through provision of additional facilities for all age groups, improving lighting, security, toilets, paving, landscaping & planting.



WATERFRONT PARK

The 3 acre reservation along Kate Pimple road, across the river from Pimple Saudagar is proposed to be developed as a waterfront park, with a lushly planted garden and offering information about the City's environmental systems.







ABD: Connected Systems

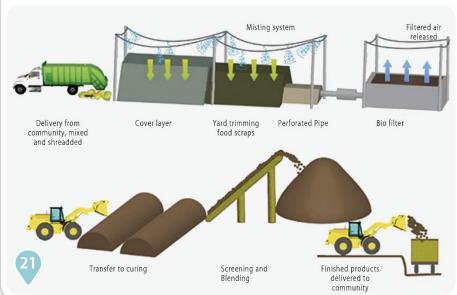
NALLAH DEVELOPMENT AT KASARWADI

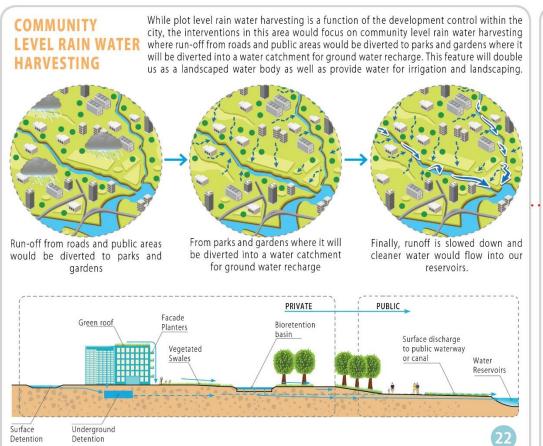
The Kasarwadi Nallah, currently an untrained natural stream, would be cleaned up, soft-lined with wetland vegetation, and developed as a linear recreational green.

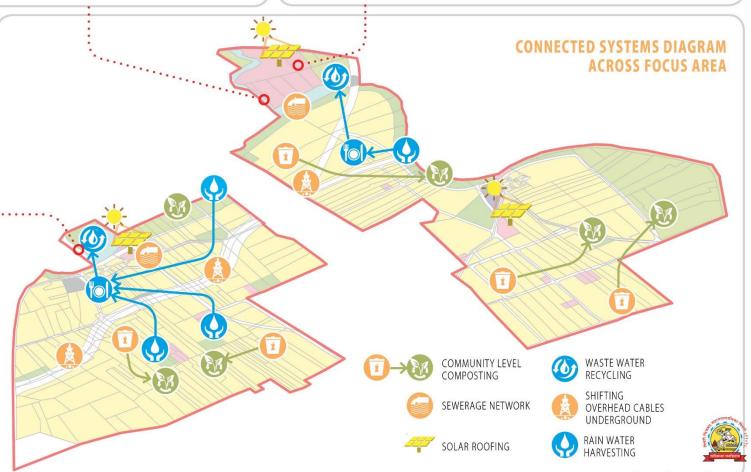


COMMUNITY LEVEL COMPOSTING

While waste management at plot level is currently being taken care of by the municipal services, attempts will be made to put in place community composting programmes, wherein organic waste from households is diverted in the parks and gardens for community composting. This will double up an a environmental education opportunity for the children and residents, as well as provide compost for local landscaping in the parks and gardens.







Smart City

ABD: Connected People

The people focus within the ABD project is two-pronged. Firstly, the social amenities would be revitalized in order to improve usage and access to these facilities. Secondly, the various citizens groups and RWAs would be continually engaged in the implementation of various project in the ABD. Citizens' participation would form the backbone supporting the "re-connecting neighborhoods" efforts.

REFURBISHMENT OF SPORTS / EDUCATIONAL FACILITIES

The reservation near Kate Puram chowk would be developed as a stateof-the-art sporting and active recreational facility.



MUNCIPAL HOSPITAL RETROFIT AT SAUDAGAR

The Municipal Hospital would be retrofitted to improve the quality of services.



Smart City

VEGETABLE MARKET RETROFITING AND DEVELOPMENT

The Vegetable market would be redeveloped to improve the quality of services.



PUBLIC TOILETS

In convergence with the Swachh Bharat Mission several public toilets, along key activity nodes in the areas, would be developed.



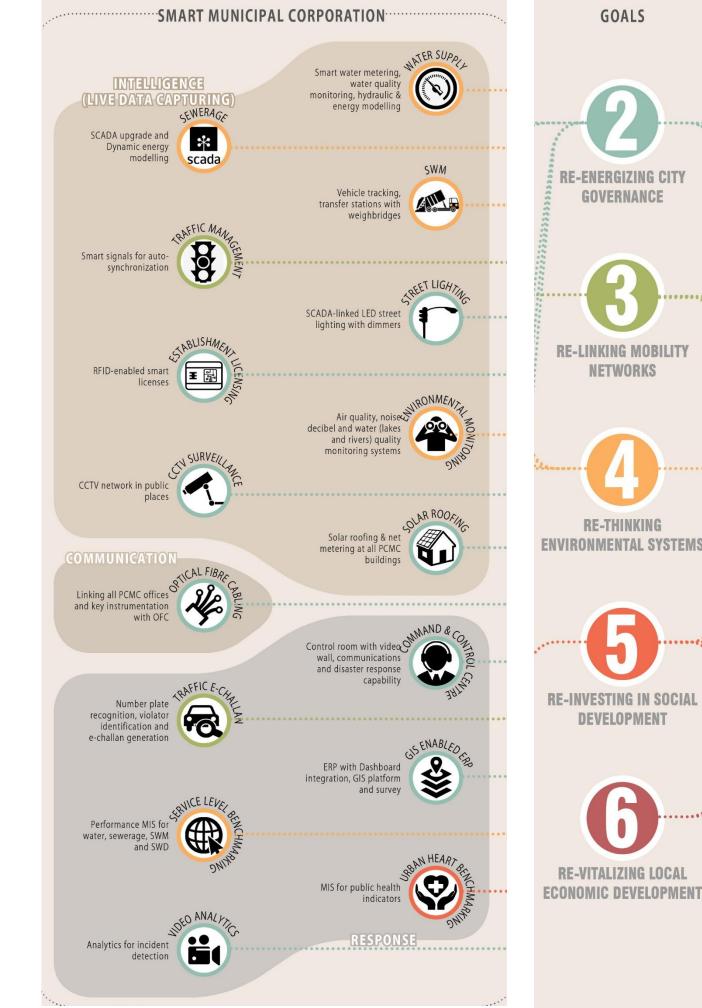


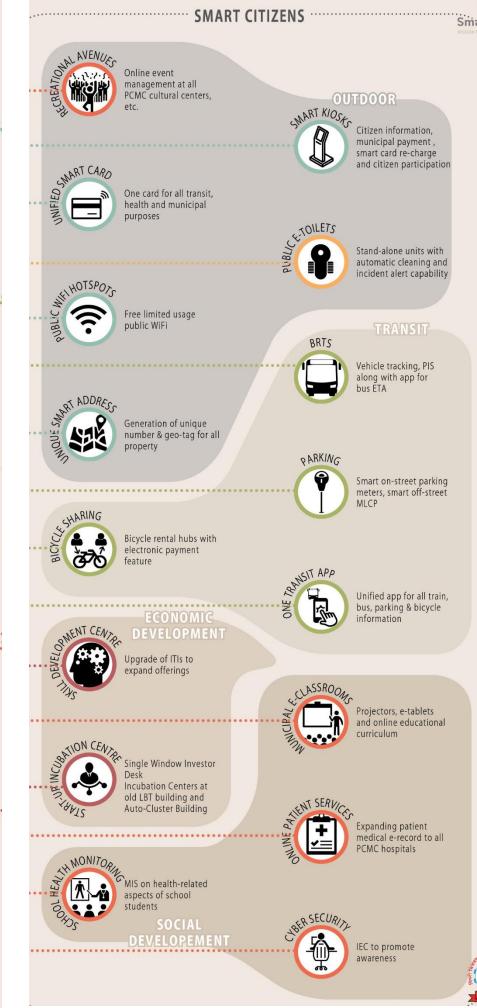
HAWKER ZONE DEVELOPMENT

The informal uses along the commercial streets in the area would be organized and regularized into vibrant hawking zones.

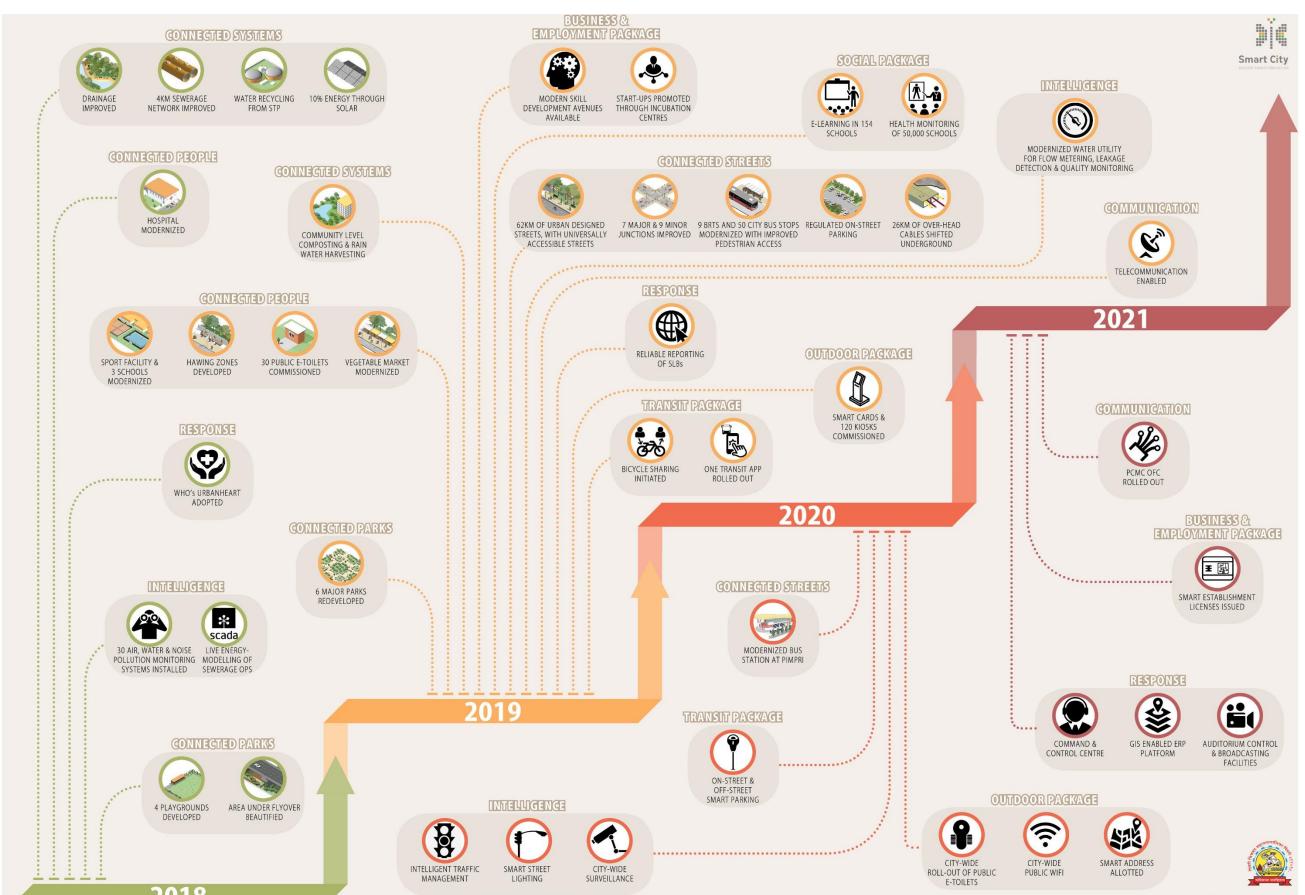


Packages City Solutions





SCP Implementation Plan



Structure of SPV

Smart City

SMART CITY SPV FOR PCMC
State Government has passed G.R. No. SmartC-2016/CR1503/UD-23 issued on 9th January, 2017 approved the formation of the Smart City SPV for PCMC with 15 directors and a 50:50 share-holding structure between State and PCMC

BOARD OF DIRECTORS

CHAIRMAN

MR. NITIN KAREER **PRINCIPAL SECRETARY** (UDD, GOVERNMENT OF MAHARASHTRA)









INDEPENDENT

DIRECTORS



FULL-TIME

CEO





B





GOVERNMENT

OF INDIA







G

EXECUTIVE COMMITTEE

ADVISORY COMMITTEE











DEPUTY MAYOR

CHAIRMAN OF STANDING COMMITTEE

LEADER OF HOUSE

LEADER OF OPPOSITION

2 CORPORATORS

COMMISSIONER, PCMC



DIVISIONAL

COMMISSIONER, PUNE

POLICE

COMMISSIONER, PUNE

GM OF PMPML (BUS

SERVICE

PCMC



GOVERNMENT

OF

MAHARASHTRA



NOMINEE



2 NOS. FROM **MINISTRY OF CORPORATE AFFAIRS' DATABASE**



CHIEF FINANCIAL OFFICER

COMPANY SECRETARY

CHIEF INFORMATION & OPERATIONS OFFICER

PUBLIC RELATIONS OFFICER

CHIEF ENGINEER

CHIEF PLANNER

CHAIRMAN

CEO

CFO



EXPERTS

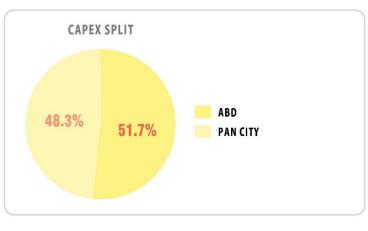
NGOS

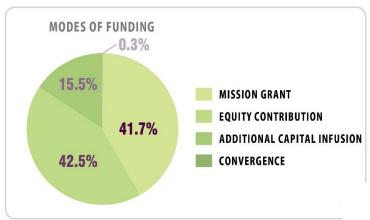
ACADEMICIANS

SPV Finance

		CAPEX PHASING				CONVERGENCE		
PROJECT	TOTAL COST	2018-19	2019-20	2020-21	2021-22	2022-23	SCHEME	AMT.
A1 Connected Streets	361.6	178.3	178.3	5.0	0.0	0.0	-	0.0
A2 Connected Parks	92.8	66.4	26.4	0.0	0.0	0.0	-	0.0
A3 Connected Systems	58.0	48.8	9.3	0.0	0.0	0.0	-	0.0
A4 Connected People	53.0	27.5	25.5	0.0	0.0	0.0	-	0.0
TOTAL ABD CAPEX	565.4	321.0	239.5	5.0	0.0	0.0		0.0
P1 Intelligence (Live Data Capture)	194.1	82.4	64.4	47.3	0.0	0.0	-	0.0
P2 Communication	40.0	7.5	17.5	7.5	7.5	0.0	-	0.0
P3 Response	148.0	29.3	32.9	42.9	42.9	0.0	-	0.0
P4 Outdoor Package	54.0	20.0	20.0	14.0	0.0	0.0	-	3.2
P5 Transit Package	67.0	24.2	26.2	16.7	0.0	0.0	-	0.0
P6 Business & Employment Package	12.0	5.0	5.7	0.7	0.7	0.0	-	0.0
P7 Social Package	14.0	5.0	9.0	0.0	0.0	0.0	-	0.0
TOTAL PAN-CITY CAPEX	529.1	173.3	175.6	129.1	51.1	0.0		3.2
Consulting	54.7	21.9	13.7	8.2	5.5	5.5	_	0.0
GRAND TOTAL	1149.2	516.1	428.8	142.3	56.6	5.5		3.2

CASH FLOW STATEMENT - SPV	2018-19	2019-20	2020-21	2021-22	2022-23	Total
INFLOWS						
Mission Grant - Gol	196.0	98.0	98.0	98.0	0.0	490.0
Equity contribution - GoM	75.0	75.0	50.0	50.0	0.0	250.0
Equity contribution - PCMC	75.0	75.0	50.0	50.0	0.0	250.0
Additional Capital infusion - PCMC	91.1	91.1	0.0	0.0	0.0	182.2
Soft Loan - PCMC	84.0	91.8	0.0	0.0	0.0	175.8
Convergence - AMRUT	0.0	3.2	0.0	0.0	0.0	3.2
Total	521.1	434.1	198.0	198.0	0.0	1351.2
OUTFLOWS						
Capital Expenditure	494.3	415.1	134.1	51.1	0.0	1094.5
Establishment Expenditure	2.0	2.1	2.1	2.1	2.1	10.5
Administrative Expenditure	3.0	3.2	3.2	3.2	3.2	15.7
Consultancy fees	21.9	13.7	8.2	5.5	5.5	54.7
Loan repayment	0.0	0.0	50.4	125.4	0.0	175.8
Total	521.1	434.1	198.0	187.2	10.8	1351.2
CLOSING CASH BALANCE	0.0	0.0	0.0	10.8	0.0	0.0
NET CASH FLOW	0.0	0.0	0.0	10.8	-10.8	0.0





ABD Capex

		CAPEX PHASING				CONVERGENCE		
PROJECT	TOTAL COST	2018-19	2019-20	2020-21	2021-22	2022-23	SCHEME	AMT.
A1 Connected Streets	361.6	178.3	178.3	5.0	0.0	0.0	-	0.0
- Street-scaping	265.3	132.7	132.7	0.0	0.0	0.0	-	0.0
- Junction Improvement	5.3	2.7	2.7	0.0	0.0	0.0	-	0.0
Accessibility Improvements to BRTS stations	10.0	5.0	5.0	0.0	0.0	0.0	-	0.0
BRTS stops and Bus stops Improvement	20.0	10.0	10.0	0.0	0.0	0.0	-	0.0
Multi-modal integration at Kasarvadi Railway, BRTS and Mero Stations	30.0	15.0	15.0	0.0	0.0	0.0	-	0.0
TOD at Pimple Gurav Bus Station	15.0	5.0	5.0	5.0	0.0	0.0	-	0.0
- Parking management	1.0	0.5	0.5	0.0	0.0	0.0	-	0.0
- Shifting electric cables underground	15.0	7.5	7.5	0.0	0.0	0.0	-	0.0
A2 Connected Parks	92.8	66.4	26.4	0.0	0.0	0.0	-	0.0
- Major Parks Redevelopment	52.8	26.4	26.4	0.0	0.0	0.0	-	0.0
- Playground Improvement	25.0	25.0	0.0	0.0	0.0	0.0	-	0.0
- Urban forestry	10.0	10.0	0.0	0.0	0.0	0.0	-	0.0
- Beautification of space under flyover	5.0	5.0	0.0	0.0	0.0	0.0	-	0.0
A3 Connected Systems	58.0	48.8	9.3	0.0	0.0	0.0	-	0.0
- Storm water drainage development	10.0	10.0	0.0	0.0	0.0	0.0	-	0.0
- Sewerage network improvement	10.0	10.0	0.0	0.0	0.0	0.0	-	0.0
- Recycling of waste water	5.0	5.0	0.0	0.0	0.0	0.0	-	0.0
- Solar power generation	15.0	15.0	0.0	0.0	0.0	0.0	-	0.0
- Community level composting	0.5	0.0	0.5	0.0	0.0	0.0	-	0.0
- Community level rainwater harvesting	17.5	8.8	8.8	0.0	0.0	0.0	-	0.0
A4 Connected People	53.0	27.5	25.5	0.0	0.0	0.0	-	0.0
- Refurbishment of sports and educational facilities	25.0	12.5	12.5	0.0	0.0	0.0	-	0.0
- Hawking zone development	10.0	5.0	5.0	0.0	0.0	0.0	-	0.0
- Retrofitting municipal hospital	10.0	10.0	0.0	0.0	0.0	0.0	-	0.0
- Installation of public e-toilets (30 no's)	3.0	0.0	3.0	0.0	0.0	0.0	-	0.0
- Development of vegetable market	5.0	0.0	5.0	0.0	0.0	0.0	-	0.0
TOTAL ABD CAPEX	565.4	321.0	239.5	5.0	0.0	0.0		0.0

Pan City Capex

			САР	CONVERGENCE				
PROJECT	TOTAL COST	2018-19	2019-20	2020-21	2021-22	2022-23	SCHEME	AMT.
P1 Intelligence (Live Data Capture)	194.1	82.4	64.4	47.3	0.0	0.0	-	0.0
- Smart Water Supply	34.1	17.1	17.1	0.0	0.0	0.0	-	0.0
- Smart Sewerage	3.0	3.0	0.0	0.0	0.0	0.0	-	0.0
- Smart Traffic Management	42.0	14.0	14.0	14.0	0.0	0.0	-	0.0
- Smart Street-lighting	50.0	16.7	16.7	16.7	0.0	0.0	-	0.0
- Environmental Monitoring	15.0	15.0	0.0	0.0	0.0	0.0	-	0.0
- City Surveillance	50.0	16.7	16.7	16.7	0.0	0.0	-	0.0
P2 Communication	40.0	7.5	17.5	7.5	7.5	0.0	-	0.0
- Optical Fiber Cabling	30.0	7.5	7.5	7.5	7.5	0.0	-	0.0
- Telecommunication systems	10.0	0.0	10.0	0.0	0.0	0.0	-	0.0
P3 Response	148.0	29.3	32.9	42.9	42.9	0.0	-	0.0
- Command & Control Center	25.0	0.0	0.0	12.5	12.5	0.0	-	0.0
- GIS-enabled Enterprise Resource Planning	95.0	23.8	23.8	23.8	23.8	0.0	-	0.0
- Municipal Service Level Benchmarking	5.0	2.5	2.5	0.0	0.0	0.0	-	0.0
- UrbanHEART Benchmarking	3.0	3.0	0.0	0.0	0.0	0.0	-	0.0
-Auditorium Control and Broadcasting Facility	20.0	0.0	6.7	6.7	6.7	0.0	-	0.0
P4 Outdoor Package	54.0	20.0	20.0	14.0	0.0	0.0	-	3.2
- Smart Kiosks	12.0	6.0	6.0	0.0	0.0	0.0	-	0.0
- Public E-toilets	10.0	3.3	3.3	3.3	0.0	0.0	SBM	3.2
- Public WiFi Hotspots	27.0	9.0	9.0	9.0	0.0	0.0	-	0.0
- Unique Smart Addressing	5.0	1.7	1.7	1.7	0.0	0.0	-	0.0
P5 Transit Package	67.0	24.2	26.2	16.7	0.0	0.0	-	0.0
- Smart Parking including multi level car parks	50.0	16.7	16.7	16.7	0.0	0.0	-	0.0
- Bicycle Sharing	15.0	7.5	7.5	0.0	0.0	0.0	-	0.0
- One Transit App	2.0	0.0	2.0	0.0	0.0	0.0	-	0.0
P6 Business & Employment Package	12.0	5.0	5.7	0.7	0.7	0.0	-	0.0
- Skill Development Centers	5.0	2.5	2.5	0.0	0.0	0.0	-	0.0
- Start-Up Incubation Centers	5.0	2.5	2.5	0.0	0.0	0.0	-	0.0
- Establishment Licensing	2.0	0.0	0.7	0.7	0.7	0.0	-	0.0
P7 Social Package	14.0	5.0	9.0	0.0	0.0	0.0	-	0.0
- Municipal E-Classrooms	4.0	0.0	4.0	0.0	0.0	0.0	-	0.0
- School Health Monitoring	10.0	5.0	5.0	0.0	0.0	0.0	-	0.0
TOTAL PAN-CITY CAPEX	529.1	173.3	175.6	129.1	51.1	0.0		3.2

Thank You!

