



PUNE
SMART CITY
DEVELOPMENT
CORPORATION LTD.



ACTIVE MOBILITY

- *Action on Urban Transport*
- Provisions of new walking & cycling infrastructure,
- Public transport measures, E-vehicles

- By
Mangesh Dighe
Environment Officer
Pune Municipal Corporation

The Changing Mobility Scenario in Pune City



Pune City 1970-80 (Cycle City)



Pune City 1980 -90 (Moped City)



Pune City 2017-18





1st
in **urban governance**
across 23 Indian cities in
ASCIS survey, 2018



1st
in **quality of life** in India
along with Hyderabad,
as per Mercer, 2014



2nd
largest varsity in India
with **811 colleges**



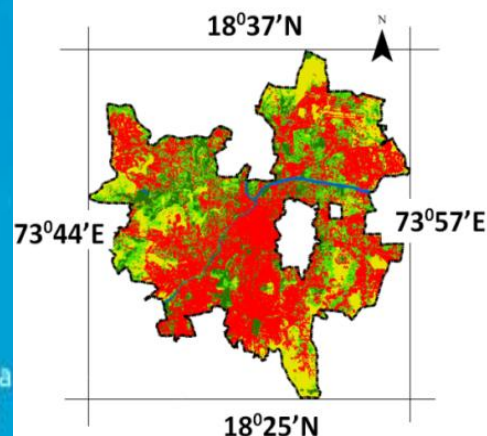
2nd
in India in
software exports



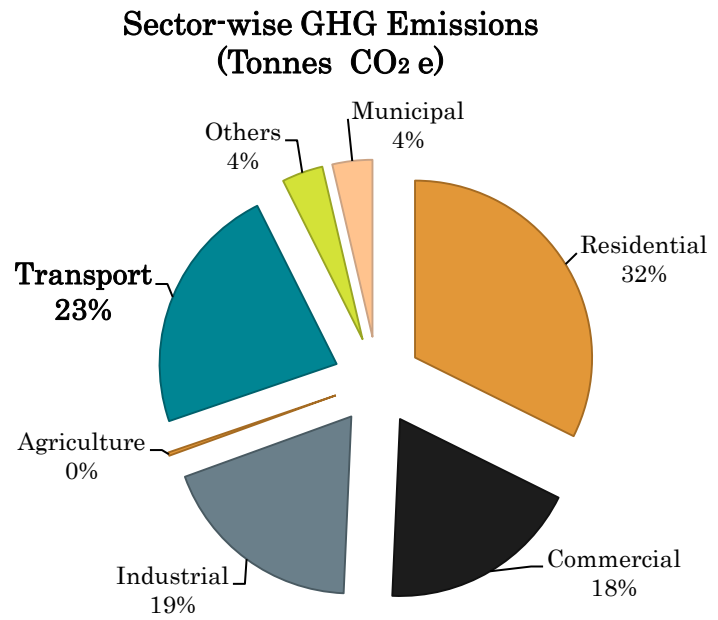
7th
highest **GDP** among Indian
cities at **\$69bn**, Brookings
Institute (2014)



8th
most **populous** Urban
Agglomerations in India

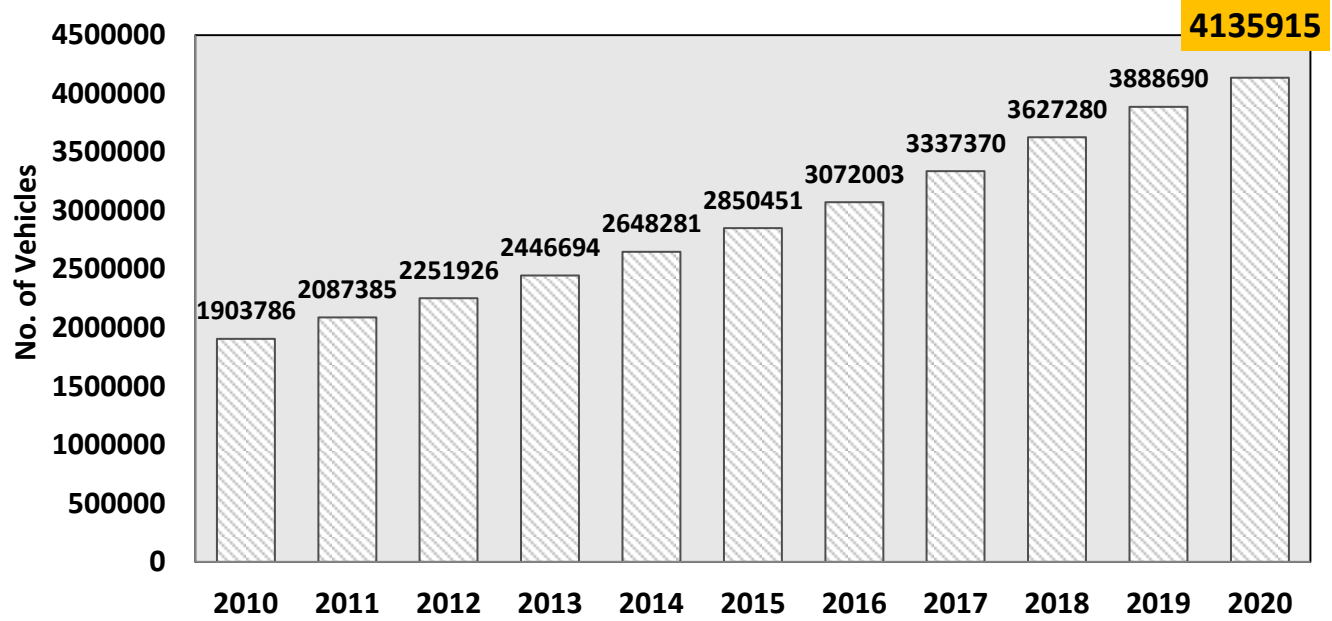


Area: 331.56 sqkm
Population: 3.4 million

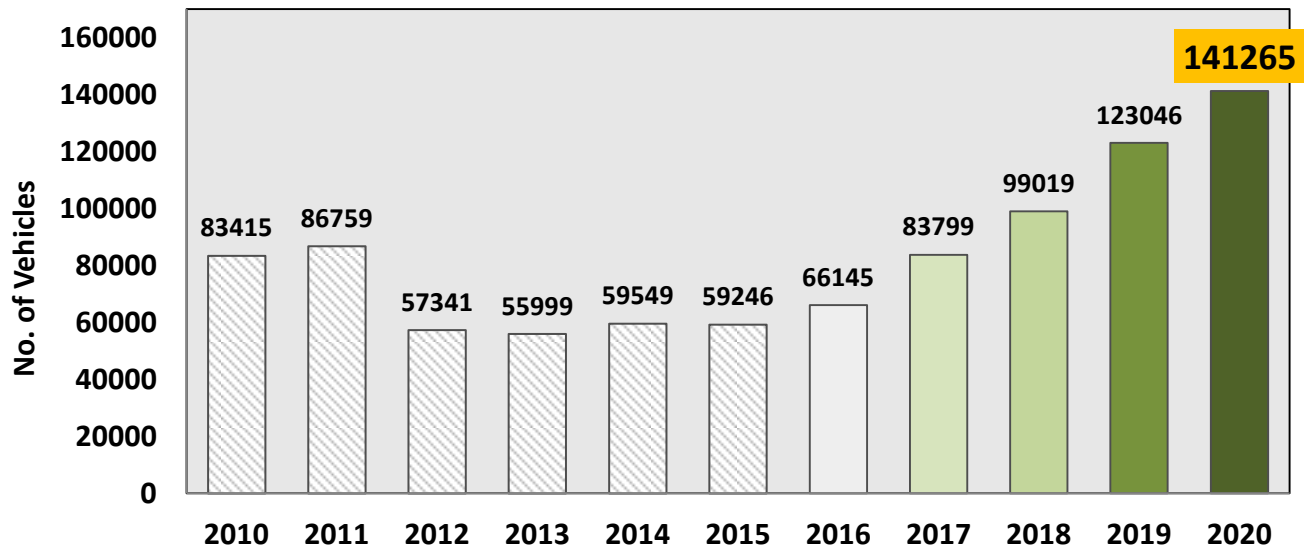


Source: ICLEI – Solar City Master Plan

Total Number of Vehicles



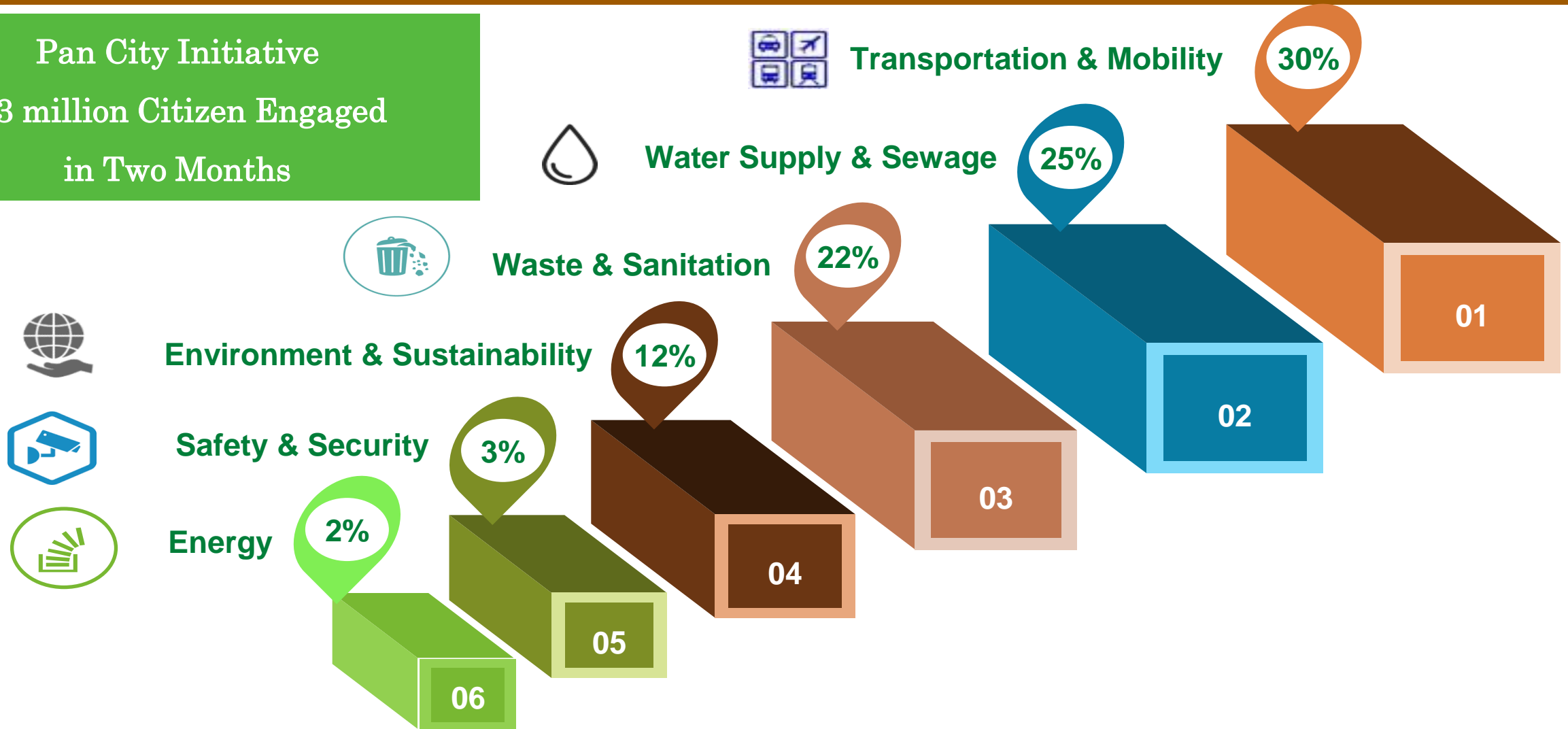
Number of Public Transport Vehicles (Auto-rickshaw, Taxi Cabs, Contract Carriages, School Buses)



Transportation & Mobility #1 concern of PUNEKARS'

Citizen engagement output - top concerns for citizens of Pune

Pan City Initiative
0.3 million Citizen Engaged
in Two Months



Pune created a vision that is
“future proof”



Pune aspires to become one of the most **liveable cities** in India, by solving its **core infrastructure issues** in a “**Future-Proof**” way, and by making its neighborhoods beautiful, clean, green and **liveable**



National Level Policies/Schemes



सत्यमेव जयते

National Urban Transport Policy (2014)

To Ensure Safe, Affordable, Quick, Comfortable, Reliable & Sustainable Access for The Growing Number of City Residents.

1

National Electric Mobility Mission Plan 2020 (2013)

To Achieve a Vehicle Population of About 6-7 Million Electric / Hybrid Vehicles in India by The Year 2020

2

Faster Adoption & Manufacturing of Hybrid & Electric Vehicles (Fame) (2015)

To Support The National Electric Mobility Mission Plan (NEMMP) 2020 with The Goal of Reaching 6-7 Million Electric/Hybrid Vehicles in India By 2020

3

Green Mobility Scheme

- To Address Infrastructure For Bus Based Transport To Bring In Private Entrepreneurial Spirit In Operations To Promote Non-motorized Transport (NMT) And Last Mile Connectivity
- To Promote Alternate Fuels And Electric Mobility And Address High Fatalities Of Pedestrians.

4



Transportation Initiatives – Based on National Level Policy

NMT TIMELINE

1 COMPREHENSIVE MOBILITY PLAN (CMP)

Envisions improving the modal share of non-motorised transport and public transport from 50% to 90% in 2031.

90%
of all trips using
sustainable
transport by 2031

2008

2 WALK SMART PEDESTRIAN POLICY

Drafted with the vision of making Pune a pedestrian-friendly city by prioritizing pedestrians and cyclists over vehicles.

2016

5 PUNE STREETS PROGRAMME (PSP)

Initiated a holistic approach in the design of streets under the USGD, with around 100 km of streets across the city to be redesigned with wide, safe, and continuous footpaths in coming years.

4 URBAN STREET DESIGN GUIDELINES

Defined the process for designing streets, provides design templates for streets of different right-of-way and highlights the standards for street elements.

3 PARKING POLICY

The first Indian city to adopt a progressive parking policy emphasising efficient parking management as a way to discourage private vehicle use and encourage citizens to use public transport.

6 COMPREHENSIVE BICYCLE PLAN

First city to create a City-wide Bicycle Plan, with a proposal to create 400 kms of cycle-friendly streets. Intended as the primary guidance document for the city to allocate resources, undertake projects and evaluate the outcomes towards achieving the goals set for improving cycling in Pune.

2017

7 PUBLIC BICYCLE SHARING SYSTEMS

Public Bicycle sharing systems 2017
4 P&S operators to serve as another mode of transport for commuters and provide efficient last-mile connectivity for public transit users.

8 URBAN 95 PROGRAMME

Focuses on walkable, mixed-use neighbourhoods that cater for the basic needs of Infants, Toddlers and Caregivers within 15 minutes on foot.

2018

Pune City – Sustainable Transport Planning

PUNE

RESILIENCE

STRATEGY

PIONEERED BY THE
ROCKEFELLER FOUNDATION

100

RESILIENT

CITIES



HOW?

ACTION 1.2.1

Enhance institutional capacity and coordination for mobility planning at PMC and for the Pune Urban Agglomeration (UA)

ACTION 1.2.2

Improve bus-based public transit

ACTION 1.2.3

Integrate and improve para-transit and shuttle operations for last mile and local area shared mobility

ACTION 1.2.4

Improve facilities for pedestrians and cyclists

ACTION 1.2.5

Institute a comprehensive public engagement program on sustainable mobility

GOAL 1.2

Strengthen low carbon & shared mobility services in Pune urban region

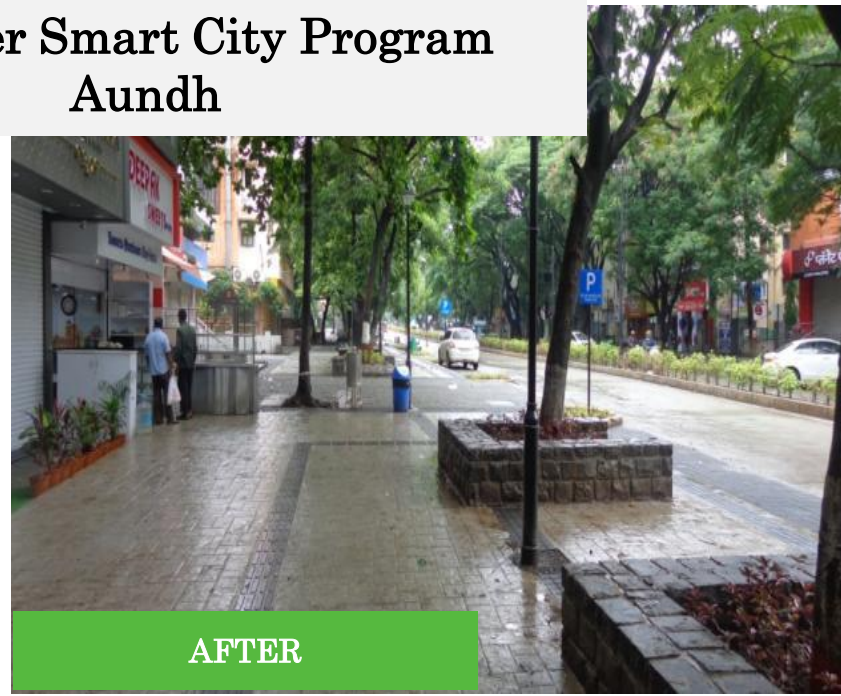
GOAL ENDORSED BY



Pilot Stretch under Smart City Program Aundh



BEFORE



AFTER

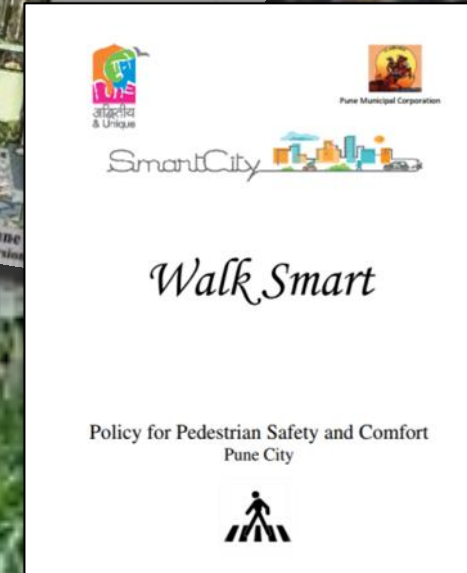


BEFORE



AFTER

Creating Streets For People



First Indian City to adopt Street Design Guidelines
Informing National And State Guidelines

DP road, Aundh



Walk the Talk

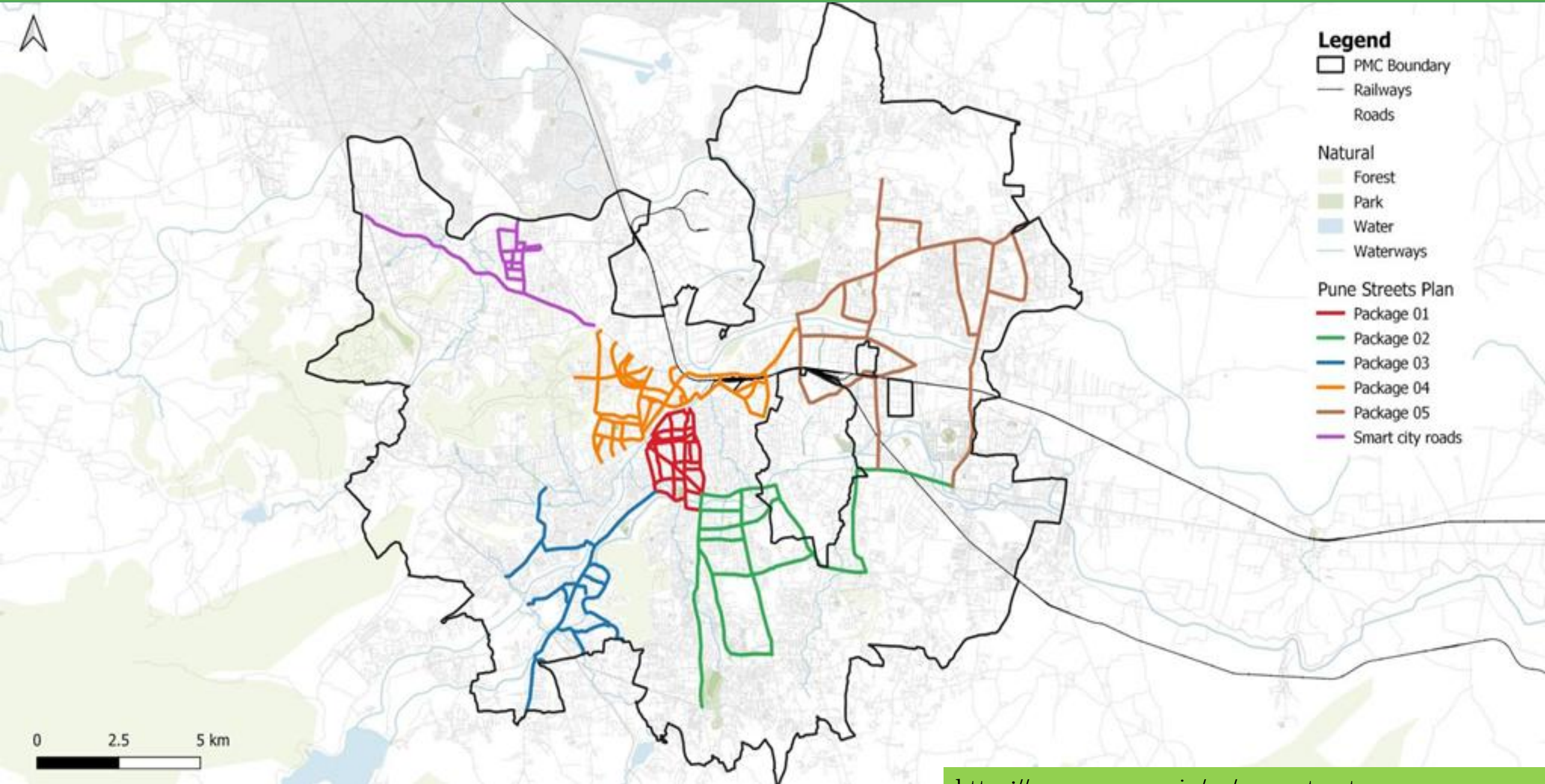
Successful implementation of
“Pune Street Programme
(PSP)”

65 kms of streets completed by 2019

Natraj Junction



Pune City – Street Plan to retrofit 100km of Street



Pune City – Urban Street Design Guidelines

STREET ELEMENTS

All people should be able to move safely, smoothly and conveniently



- Footpath - clear walkway
- Cycle Track - NMT Lane
- Bus stops
- BRT lanes
- Carriage way - MV lane
- Shoulders
- Parking

Make streets safe, clean, attractive and comfortable for people to walk and drive



- Pedestrian Crossings
- Traffic calming measures
- Speed breakers
- Traffic Signals
- Central Medians
- Railings
- Bollards
- Street lights
- Street furniture
- Signage, markings

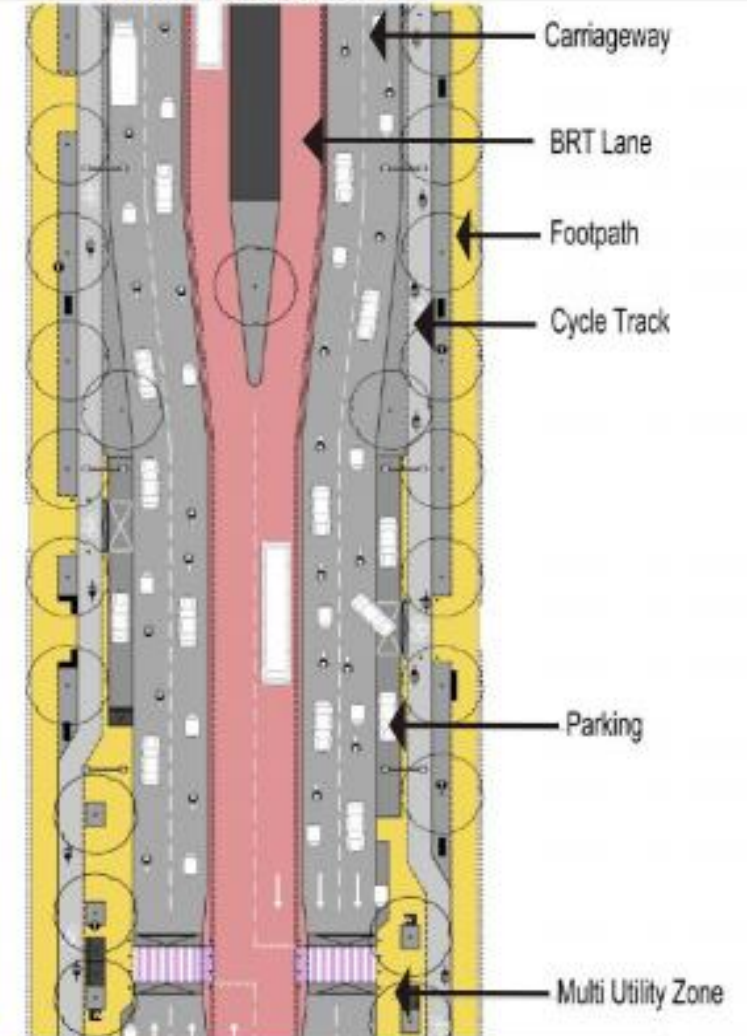
Streets to reduce impact on natural and built environment. To have green streets in the city.



- Plantation
- Utility and services
- Storm water management
- Garbage containers
- Public toilet



STREET CROSS SECTION



The sketch is only an illustration indicating various street elements and not its technical design'.





Bulb outs

Bollards

Lighting

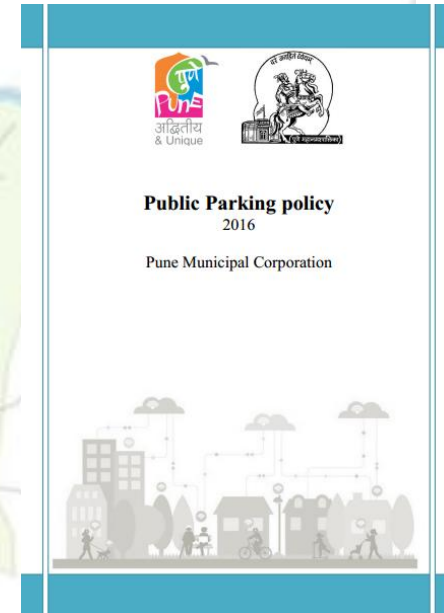
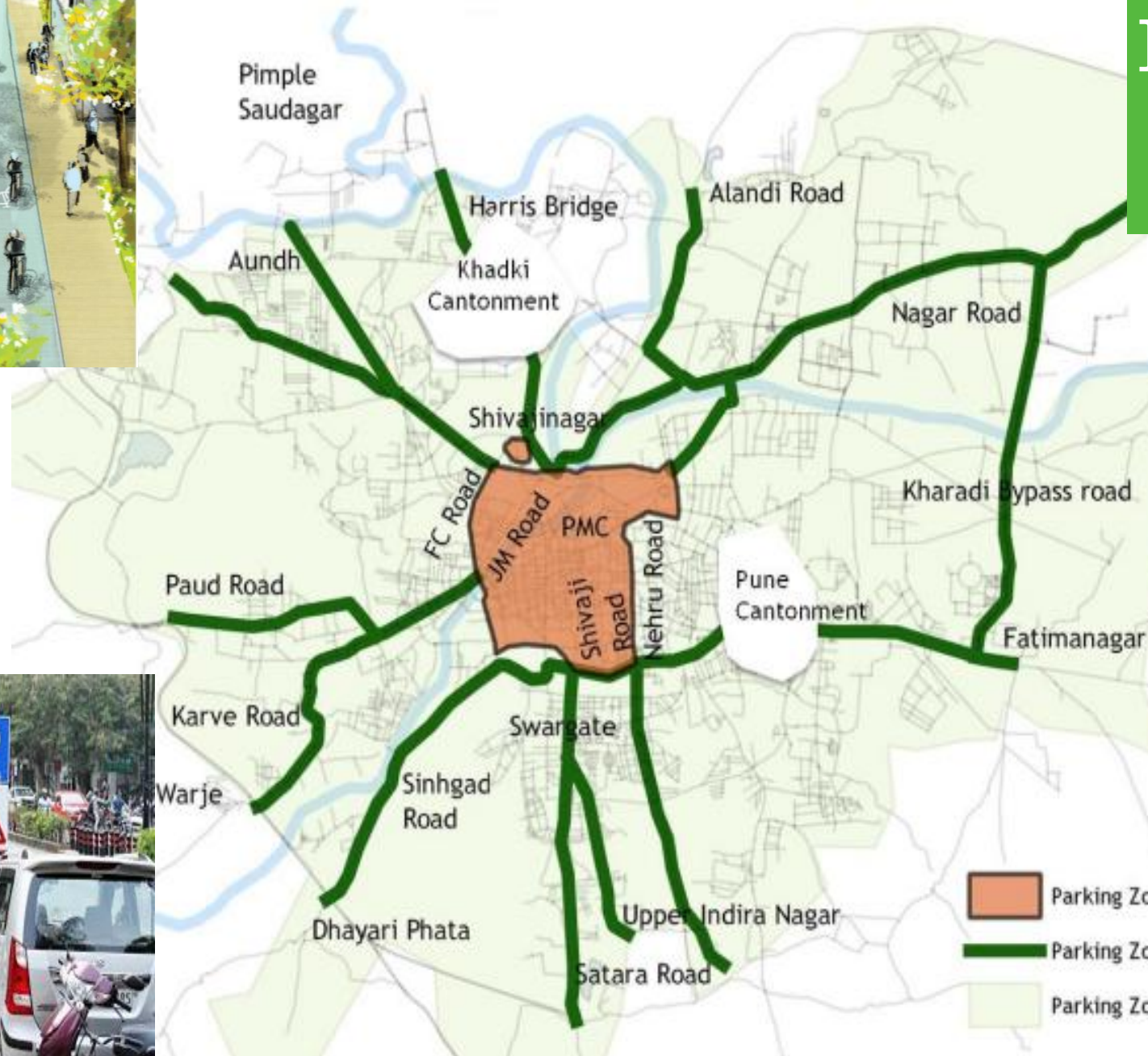
Table top crossings

Refuge islands

Traffic calming

Creating safer for all, universally accessible streets

Pune Parks it Right...



Pune City – Bringing Back Cycling Story



First city to create a City-wide Bicycle Plan
With a proposal to create 400 kms of cycle-friendly streets



Green Buffer

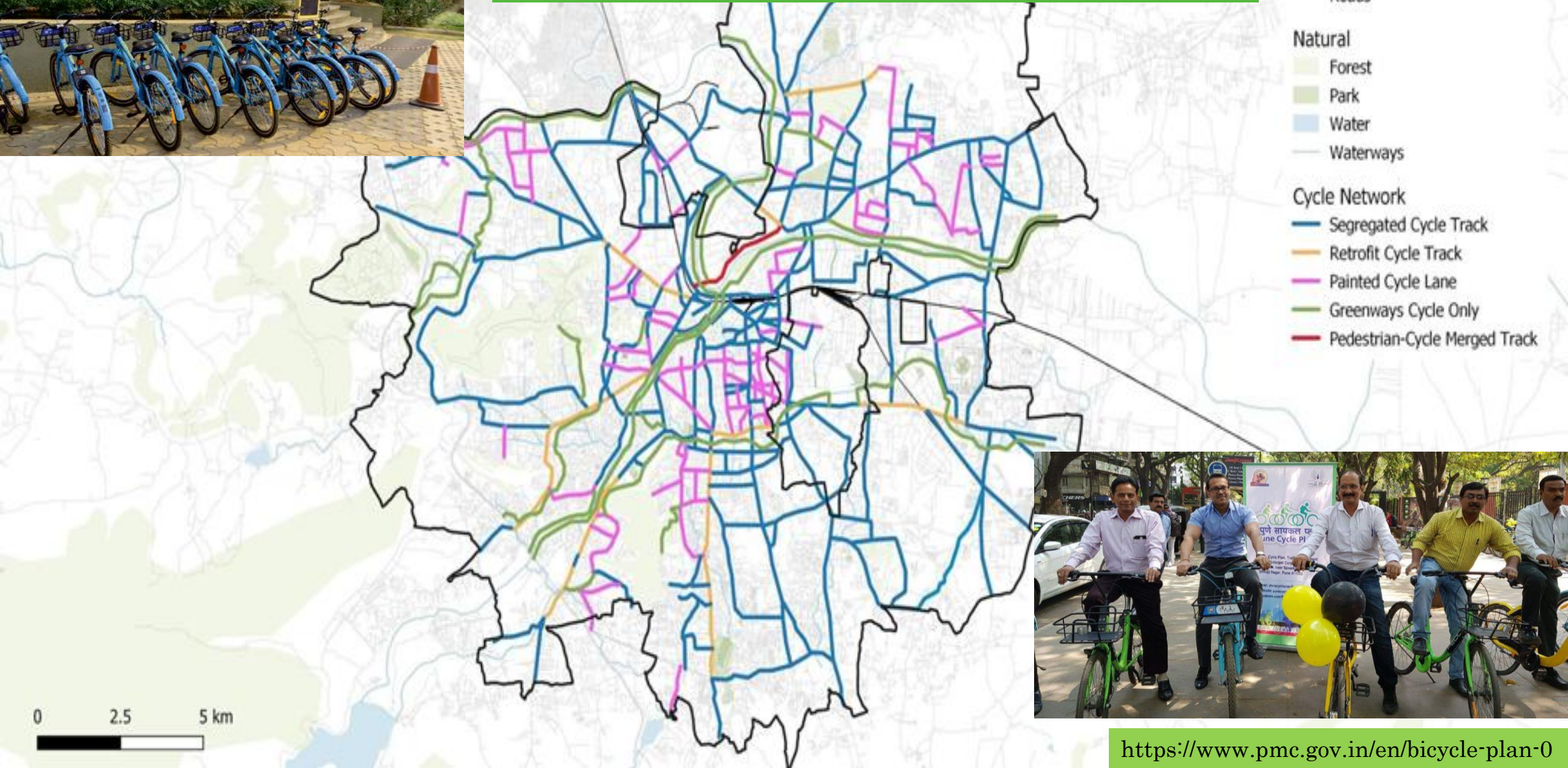
Dedicated
Cycle tracks

Shaded
walkways and
cycle tracks

Shaded
Sitouts



Last mile Connectivity: Public Bicycle Sharing Program



Satara Road



URBAN95

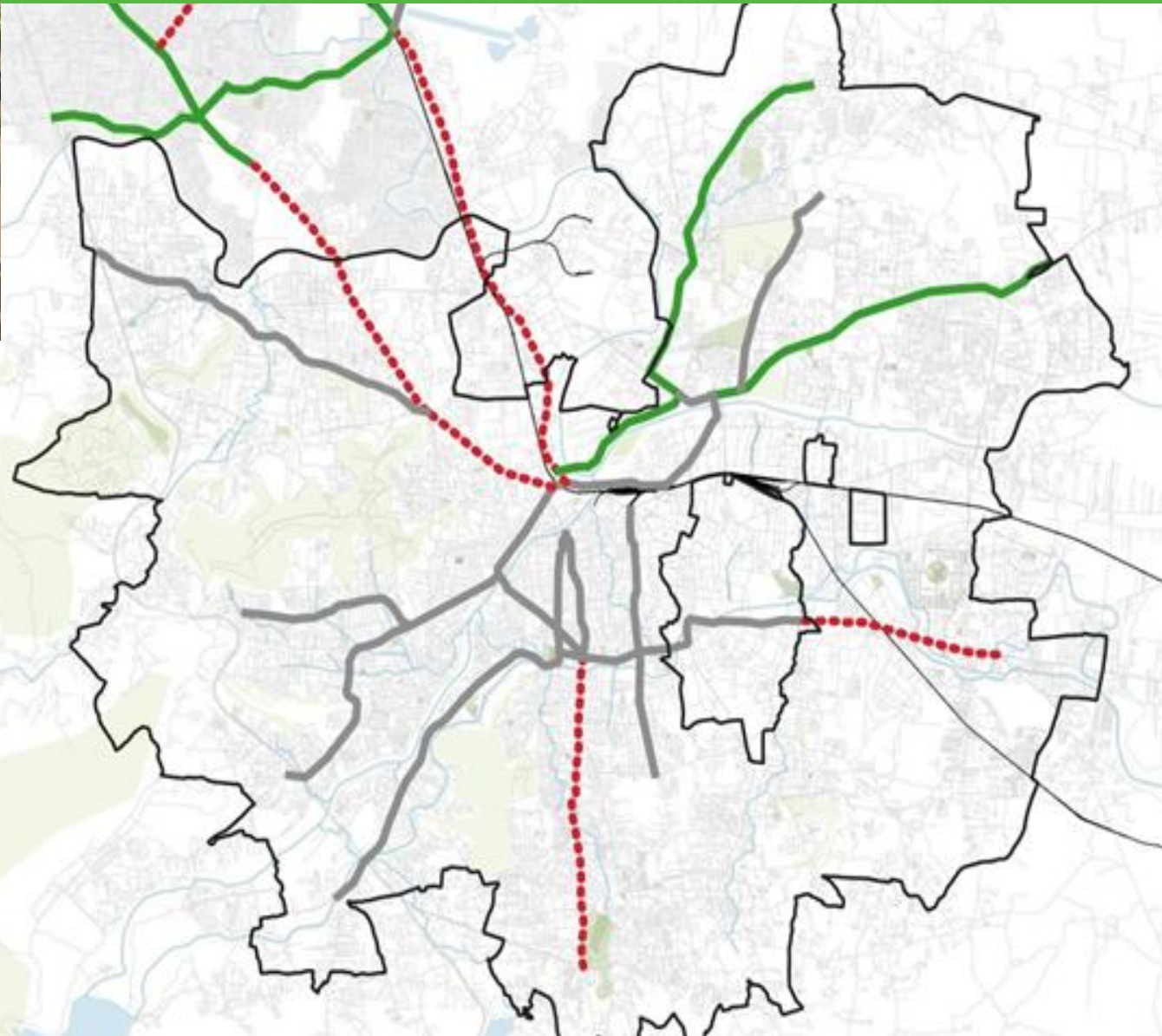
Eat Play Socialize

Urban 95 Programme
Child Friendly
Streets



ITI Road

Pune pilots a '*Rainbow*' Bus Rapid Transit System (BRT)



- Legend**
- PMC Boundary
 - Railways
 - Roads
 - Natural
 - Forest
 - Park
 - Water
 - Waterways
 - BRTS Corridor
 - Operational BRT corridors
 - BRT corridors under construction/redesign
 - Planned BRT corridors



0 2.5 5 km

<https://www.pmc.gov.in/en/bus-rapid-transit-route-brt>

PUNE METRO

HELPS YOU BREATHE
CLEANER AIR BECAUSE
OF POLLUTION
CONTROL

CO₂

30533
THOUSAND TONS
PER YEAR

NO_x

276
THOUSAND TONS
PER YEAR

SO₂

2
THOUSAND TONS
PER YEAR

PARTICULATE
MATTER

36
THOUSAND TONS
PER YEAR

HC

490
THOUSAND TONS
PER YEAR

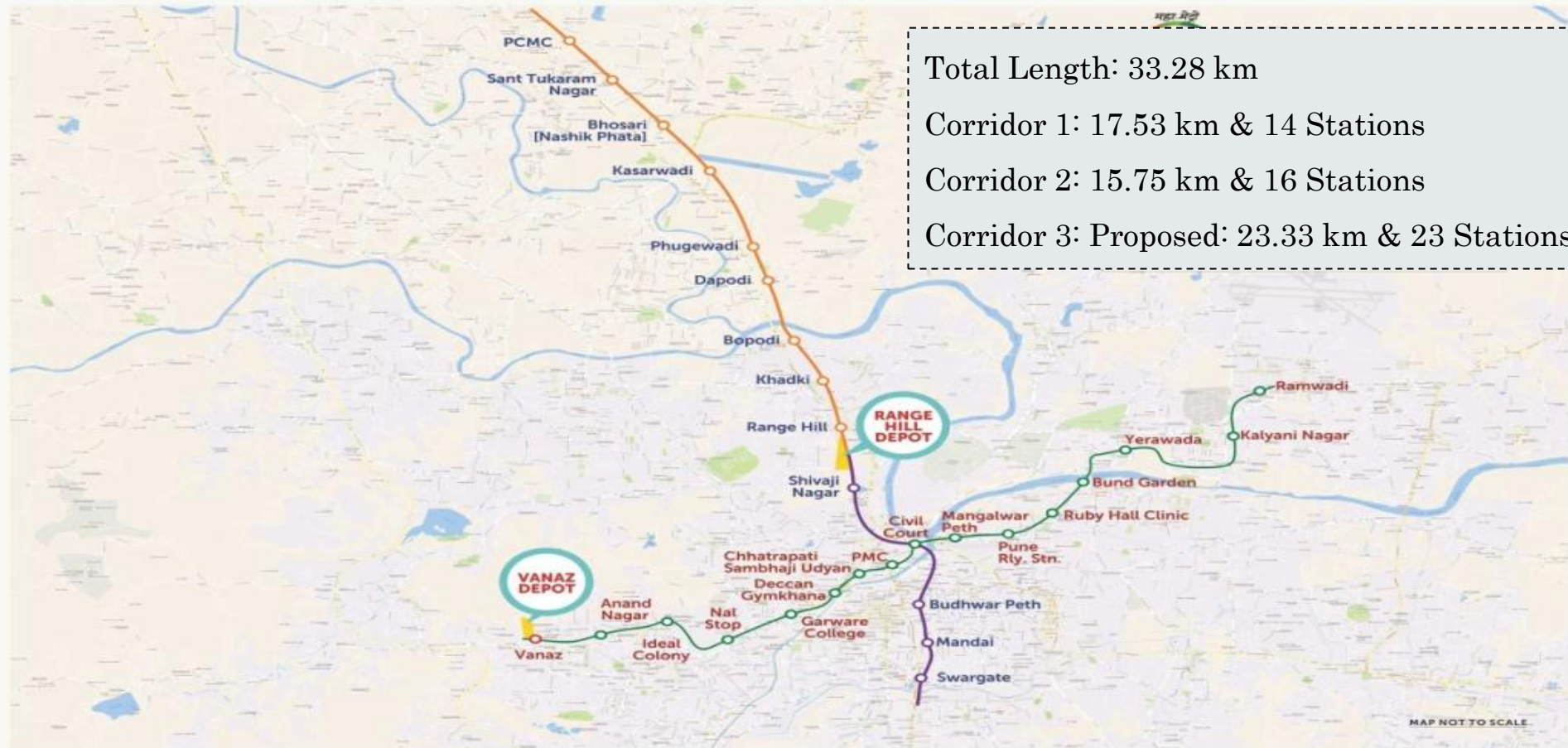
CO

1069
THOUSAND TONS
PER YEAR

Mass Transit System: METRO



ROUTE MAP PUNE METRO RAIL PROJECT



/MetroRailPune



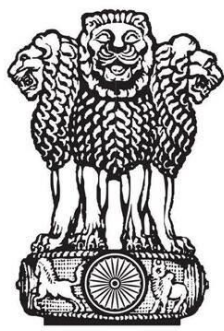
@metrorailpune



metrorailpune



www.punemetrorail.org



सत्यमेव जयते

Preparation of Air Quality Action Plan of Pune City under National Clean Air Programme (NCAP)



NCAP

NATIONAL CLEAN AIR PROGRAMME



Ministry of Environment,
Forest & Climate Change
Government of India



TENURE

Mid-term five (5) years action plan to begin with keeping 2019 as base year. Further extendable to 20-25 years in long-term after mid-term review of the outcomes.

OBJECTIVES

- Stringent implementation of mitigation measures for prevention, control and abatement of air pollution.
- Augment and strengthen air quality monitoring network across the country.
- Augment public awareness and capacity building measures.



TARGET

National level target of 20-30% reduction of PM_{2.5} and PM₁₀ concentration by 2024.

APPROACH

- Multi-sectoral & Collaborative.
- Mainstreaming and integration into the existing policies and programmes of GoI including NAPCC.
- Use Smart Cities framework to launch NCAP in the 43 smart cities falling in the list of 102 non-attainment cities.



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Agency for Development
and Cooperation SDC

PAUL SCHERRER INSTITUT
PSI



International Institute for
Applied Systems Analysis
IIASA www.iiasa.ac.at

MoEFCC



EPFL

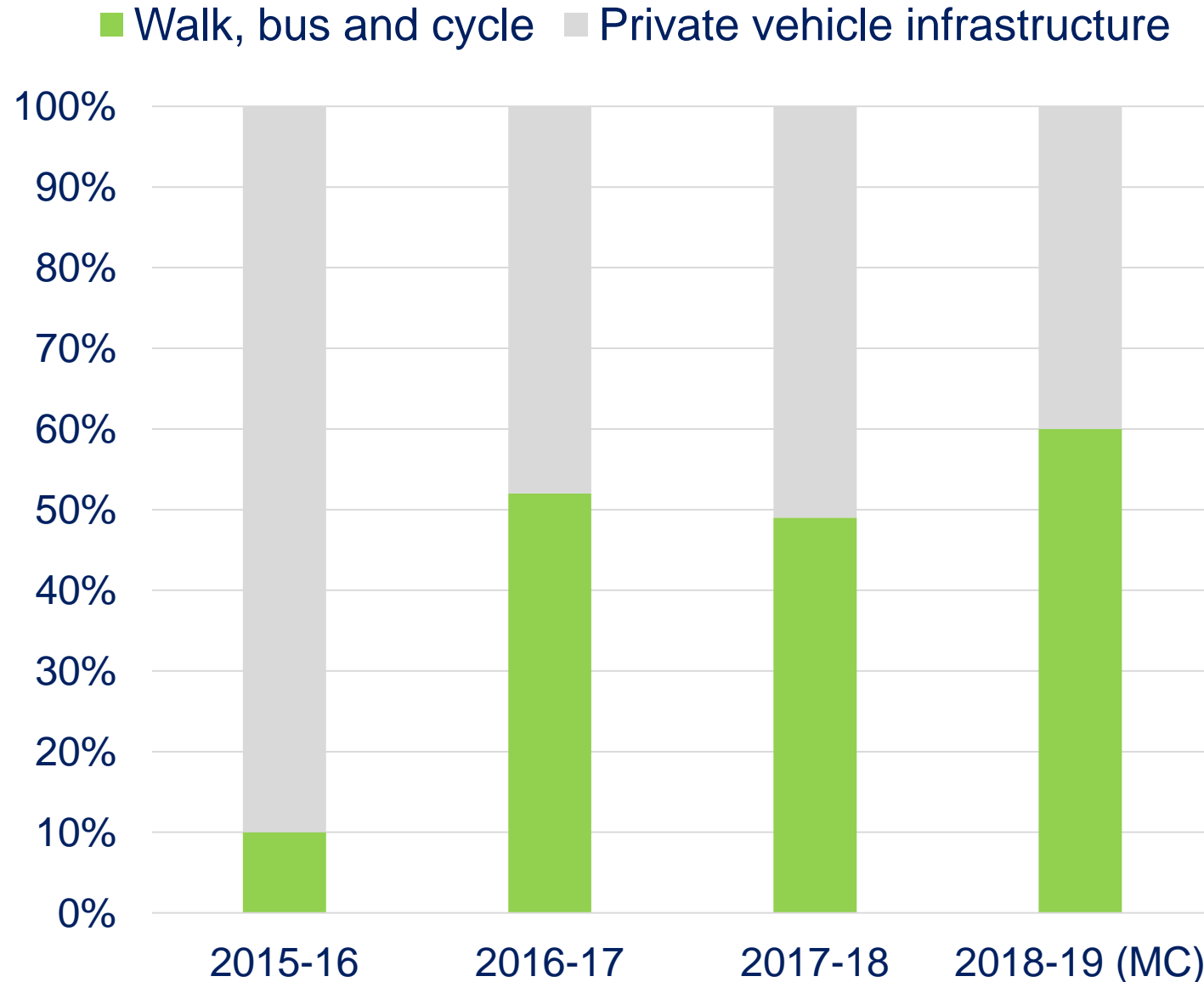
teri

The Energy and Resources Institute

ARAI[®]
Progress through Research

नैरी
NEERI

Prioritizing People in Budgets & Governance



Since 2011, the 3wheeler Auto-rickshaws running on petrol & diesel are given a subsidy of Rs. 12,000/- to convert to CNG

Auto-rickshaws taken benefit : 16,836

Pioneer in Electric Buses

Out of Total Bus-fleet
70% CNG buses..



City with the Largest E-bus fleet in India...

India's first E-Bus depot built in Pune

E-buses plying - 150

Order Placed for - 150 more

Target to Reach 500 Buses..



2019.08.10 16:19

Bhekrai Nagar bus depot is India's first e-depot

SUSHANT RANJAN
@SusRanjan

PUNE: Pune has become the first city in the country to have an exclusive bus depot for electric buses, paving the way for the city to become a frontrunner in electric mobility.

**SAKAL TIMES
SPECIAL**

The Pune Mahanagar Parivahan Mahamandal Limited (PMPML) has converted Bhekrai Nagar depot into an e-depot where only electric buses will be parked. All CNG and diesel buses have been removed from the depot and only e-buses



are being given space there Thursday onwards. There are 78 e-buses at the depot.

Soon, Nigdi bus depot will be converted into an e-bus depot.

The PMPML has more than 100 e-buses in its fleet.

IN A NUTSHELL

- At present there are over 100 e-buses in the PMPML fleet
- 25 new e-buses were added in February. Out of these 15 were sent to Bhekrai Nagar depot and 10 to Nigdi depot.
- PMPML is set to add 125 more e-buses in the fleet soon.
- 75 will be added to Bhekrai Nagar depot and 50 in Nigdi depot.

"The PMPML has installed charging points only at these two depots. Three days ago Bhekrai Nagar depot had diesel, CNG and e-buses. Now, it has only e-buses," said a senior officer of PMPML.

"Out of the 150 e-buses, PMPML had added 25 in February this year of which 15 were sent to Bhekrai Nagar depot and 10 to Nigdi. The transport body is going to add 125 e-buses which will be 12 metres long. Out of this 75 buses will be added in Bhekrai Nagar and 50 at Nigdi. After that 90 and 60 e-buses will be added to both depots," said a senior PMPML officer.

At present, there are 78 buses at Bhekrai Nagar depot and 28 at Nigdi. The department is also planning to add 500 e-buses over the next few years. A few months ago the Central government decided to grant 150 e-buses to Pune. Due to this reason, the PMPML has decided to convert both depots to e-depots.

CITIZEN EXPERIENCE *"YEHI HAI RIGHT CHOICE "*

43.19 LACS
Kms Run

Unmatched
Performance
From Feb. 19 to
10th Nov. 19

14.39 L
FUEL AVOIDED

Save
Nature

Reduced Co2

Save Nature
Compare to
Diesel Buses

No.1
In India

Highest no. of e-
Buses

**Inter
national**
Standard

Better
Customer
Experience

CUSTOMERS EXPERIENCE *"YEH DIL MANGE MORE"*

Air Condition

Maintain temp.
Comfort

Mono
coque chassis

Less Vibration
Comfort

No maint.
burden

GCC Model
Comfort

Low Noise Level

74dB
Comfort

Zero
Pollution

Clean Air
Comfort

Safe
Travel

Disc Brakes
Comfort

DEPARTMENT EXPERIENCE *"SUPER HIT "*

No Driver
burden

GCC Model
Comfort

No fuel Burden

GCC Model
Comfort

More income

Increase Traffic
**Excellent
Economy**

Excellent Brand
Image

Electric Bus
**Performance &
Reliability**

No.1
MAHA
STATE

Electric Bus
**Performance &
Reliability**

E- Bike renting project approved by Standing Committee of Pune Municipal Corporation

PuneMirror

Tue ,Dec 22, 2020 MUMBAI MIRROR | BANGALORE MIRROR | AHMEDABAD MIRROR

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[HOME](#) / [PUNE](#) / [CIVIC](#) / E-BIKE RENTING PROJECT GETS A NOD IN THE CITY

WATCH ▶ Take a look at today's horoscope!

E-bike renting project gets a nod in the city

By Supriya Dedgaonkar / Updated: Jun 27, 2020, 06:00 IST

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In order to minimise the use of petrol and diesel vehicles that emit harmful gases and pollute the environment, Pune Municipal Corporation (PMC) and Pune Smart City Development Corporation Limited (PSCDCL) have given a nod for an electric bike renting project, which is expected to hit the road in a couple of months. The venture has been approved under the Green Pune initiative, wherein a company called V-Tro Motors Pvt Ltd will be taking charge of all the operations.



THE TIMES OF INDIA
CITY

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Standing committee's nod to e-bike renting project

TNN | Dec 9, 2020, 04:01 IST

[✉](#) [🖨](#) [A-](#) [A+](#)



Pune: The standing committee of the Pune Municipal Corporation (PMC) on Tuesday approved e-bike renting project, under which 3,000 to 5,000 electric bikes would be made available by a private agency on rental basis in the city.

"The PMC will not bear any cost for the project. It will be

executed for six months on a trial basis after getting necessary permissions,"

E-vehicles registered in Pune RTO till Dec 2020

- E- Buses : 156
- E- 4 Wheelers : 398
- E- 3 Wheelers : 239
- E- 2 Wheelers : 3264

E-bike shops are getting popular in Pune

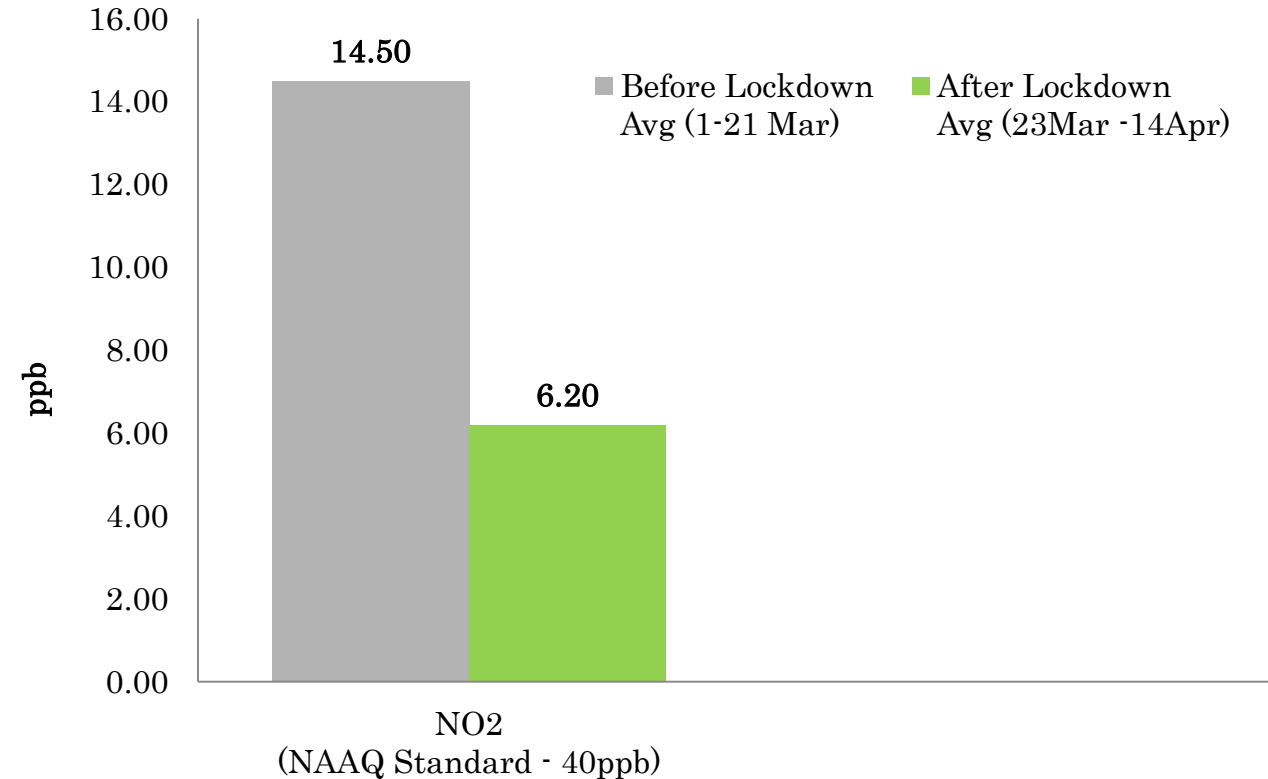


Covid -19 Lockdown - Reduction in Air Pollution

Particulate Matter - PM₁₀ & PM_{2.5}



NO₂ Concentration





SDG 13 – Climate Action

Take Urgent Action
to Combat
Climate Change
&
it's Impacts

Inspiring other Cities..





2016: Yichang, China

2017: Santiago, Chile

2018: Dar es Salaam, Tanzania

2019: Fortaleza, Brazil

Pune wins Sustainable Transport Award 2020!

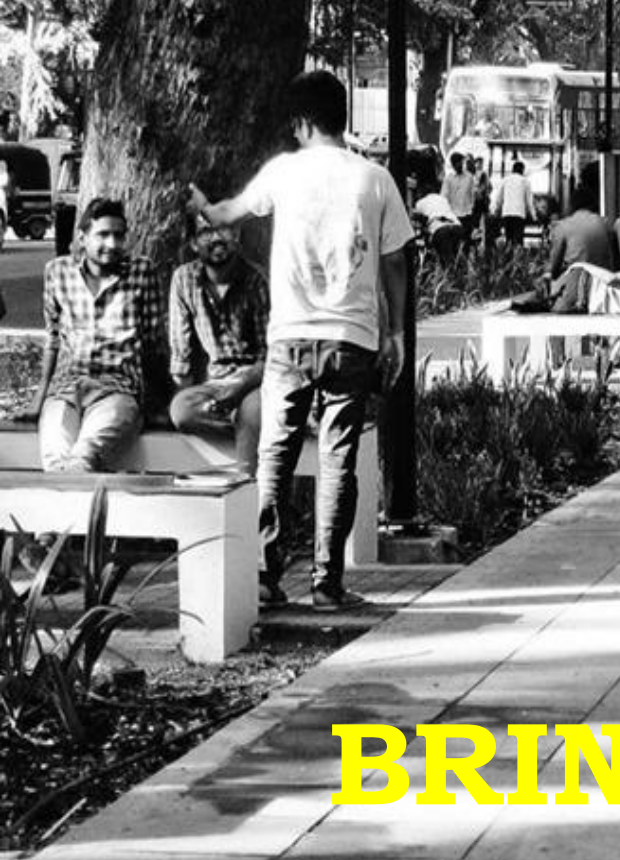


Shreya Gadepalli, ITDP South Asia Director, accepted the **Sustainable Transport Award** on the behalf of the city of Pune, India from the First Lady of the city of Fortaleza, Brazil, Carolina Cunha Bezerra.





पुणे महानगरपालिका सायकल क्लब



**ACTIVE MOBILITY –
BRINGING PEOPLE TOGETHER**



सायकल वापर, जपू पर्यावरण.

प्रदूषणाचे विसरु टेन्शन.

