ACTIVE MOBILITY – Bringing People Together

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  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
Area: 331.56 sqkm
Population: 3.4 million

Sector-wise GHG Emissions (Tonnes CO₂ e)
- Transport: 23%
- Residential: 32%
- Commercial: 18%
- Industrial: 19%
- Agriculture: 0%
- Municipal: 4%
- Others: 4%

Source: ICLEI – Solar City Master Plan

Total Number of Vehicles

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

Source: ICLEI – Solar City Master Plan
Citizen engagement output - top concerns for citizens of Pune

Pan City Initiative
0.3 million Citizen Engaged in Two Months

Transportation & Mobility #1 concern of PUNEKARS’

- Transportation & Mobility: 30%
- Water Supply & Sewage: 25%
- Waste & Sanitation: 22%
- Environment & Sustainability: 12%
- Safety & Security: 3%
- Energy: 2%

Pan City Initiative
0.3 million Citizen Engaged in Two Months
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

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<tr>
<th><strong>National Urban Transport Policy (2014)</strong></th>
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<tr>
<td>To Ensure Safe, Affordable, Quick, Comfortable, Reliable &amp; Sustainable Access for the Growing Number of City Residents.</td>
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<th><strong>National Electric Mobility Mission Plan 2020 (2013)</strong></th>
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<td>To Achieve a Vehicle Population of About 6-7 Million Electric / Hybrid Vehicles in India by The Year 2020</td>
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<th><strong>Faster Adoption &amp; Manufacturing of Hybrid &amp; Electric Vehicles (Fame) (2015)</strong></th>
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<td>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</td>
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<th><strong>Green Mobility Scheme</strong></th>
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<td>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</td>
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<tr>
<td>To Promote Alternate Fuels And Electric Mobility And Address High Fatalities Of Pedestrians.</td>
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Discussion with stakeholders of Mobility Ecosystem in the city

PUNE: "Private vehicles have changed rapidly but there is no change in public transport buses. Due to this, more people prefer private vehicles over public vehicles," said state Transport secretary Ashish Narain Singh on Friday. He added that considering this, State government is planning to purchase 10,000 buses on the lines of PMPML, for the State Transport.

Int'l transport policy body calculates accessibility across Pune by homes, offices

Outlining the reasons why Metro will not be a hit in the city and why PMPML is still struggling to extend efficient services and draw a Development Policy (ITDP) has presented the results of its study as (PNT) and how this will help the city to go a long way in terms of pui. The report was prepared by the international organisation after studying the PNT in terms of percentage of people living within a walking distance. Three tools were used for compiling the study, which included data and calculation of ward-wise built up density.
Transportation Initiatives – Based on National Level Policy

NMT TIMELINE

2008

3. 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.

2016

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.

2017

5. 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.

2018

6. PUBLIC BICYCLE SHARING SYSTEMS
Public Bicycle sharing systems 2017
4 PBS operators to serve as another mode of transport for commuters and provide efficient last-mile connectivity for public transit users.

7. URBAN 9S PROGRAMME
Focuses on walkable, mixed-use neighbourhoods that cater for the basic needs of Infants, Toddlers and Caregivers within 15 minutes on foot.

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

9. WALK SMART PEDESTRIAN POLICY
Drafted with the vision of making Pune a pedestrian-friendly city by prioritizing pedestrians and cyclists over vehicles.
Pilot Stretch under Smart City Program: Aundh
Creating Streets For People

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

Successful implementation of “Pune Street Programme (PSP)”

65 kms of streets completed by 2019
Pune City – Street Plan to retrofit 100km of Street

Creating Streets for People

- Bulb outs
- Bollards
- Lighting
- Table top crossings
- Refuge islands
- Traffic calming

Creating safer for all, universally accessible streets
Pune City – Urban Street Design Guidelines

STREET ELEMENTS

- All people should be able to move safely, smoothly and conveniently
- Make streets safe, clean, attractive and comfortable for people to walk and drive
- Streets to reduce impact on natural and built environment. To have green streets in the city.

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

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

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

Street Cross Section
- Carriageway
- BRT Lane
- Footpath
- Cycle Track
- Parking
- Multi Utility Zone

https://www.pmc.gov.in/en/urban-street-design-guidelines-usdg
First city to create a City-wide Bicycle Plan
With a proposal to create 400 kms of cycle-friendly streets
Last mile Connectivity: Public Bicycle Sharing Program

https://www.pmc.gov.in/en/bicycle-plan-0
Urban 95 Programme
Child Friendly Streets
Mass Transit System: METRO

ROUTE MAP
PUNE METRO RAIL PROJECT

Total Length: 33.28 km
Corridor 1: 17.53 km & 14 Stations
Corridor 2: 15.75 km & 16 Stations
Corridor 3: Proposed: 23.33 km & 23 Stations
Pune pilots a ‘Rainbow’ Bus Rapid Transit System (BRT)

https://www.pmc.gov.in/en/bus-rapid-transit-route-brt
Pioneer in Electric Buses
142 E-buses plying..

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
Preparation of Air Quality Action Plan of Pune City under National Clean Air Program (NCAP)
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
Covid-19 Lockdown - Reduction in Air Pollution

Particulate Matter - PM$_{10}$ & PM$_{2.5}$

- **PM$_{10}$** (NAAQ Standard - 60µg/m$^3$)
  - Before Lockdown Avg (1-21 Mar): 83.09 µg/m$^3$
  - After Lockdown Avg (23 Mar - 14 Apr): 50.18 µg/m$^3$

- **PM$_{2.5}$** (NAAQ Standard - 40µg/m$^3$)
  - Before Lockdown Avg (1-21 Mar): 60.60 µg/m$^3$
  - After Lockdown Avg (23 Mar - 14 Apr): 37.19 µg/m$^3$

NO$_2$ Concentration

- **NO$_2$** (NAAQ Standard - 40ppb)
  - Before Lockdown Avg (1-21 Mar): 14.50 ppb
  - After Lockdown Avg (23 Mar - 14 Apr): 6.20 ppb
SDG 13 – Climate Action

Take Urgent Action to Combat Climate Change & it’s Impacts
Inspiring other Cities..
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.
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