









PLANNING LOW EMISSION ZONE IN THE CORE AREAS OF INDIAN CITIES













CONTEXT OF INDIAN CITIES

10%

Yearly Increase

Exponential growth of personalised vehicles

Dependency on private and intermediate public transport 42 Indian cities

Among top 50 polluted cities in world

India ranking 3rd in World's most polluted countries in 2023

Rising proportion of fatalities in road crashes

25-27
Kmph
Yearly Increase

Worsening congestion

87%

Transport sector

Rising GHG Emission from Transport (222 million tonnes CO2)

Deteriorating quality of life

Source: Road Transport Yearbook (2020).; Tomtom Index; https://www.iqair.com/us/world-most-polluted-countries; Our World in Data. (2023). Retrieved from https://ourworldindata.org/emissions-by-sector; ICCT, FACT SHEET INDIA – Health Impacts of Air Pollution From Transportation Sources in Delhi (2010 – 2015)



CONCEPT OF LOW EMISSION ZONE

Low Emission Zone is a regulatory measure to tackle air quality challenges, in which access is restricted in a defined area for polluting vehicles.

Vehicles with higher emissions

- cannot enter the area, or
- must pay higher charges for access.



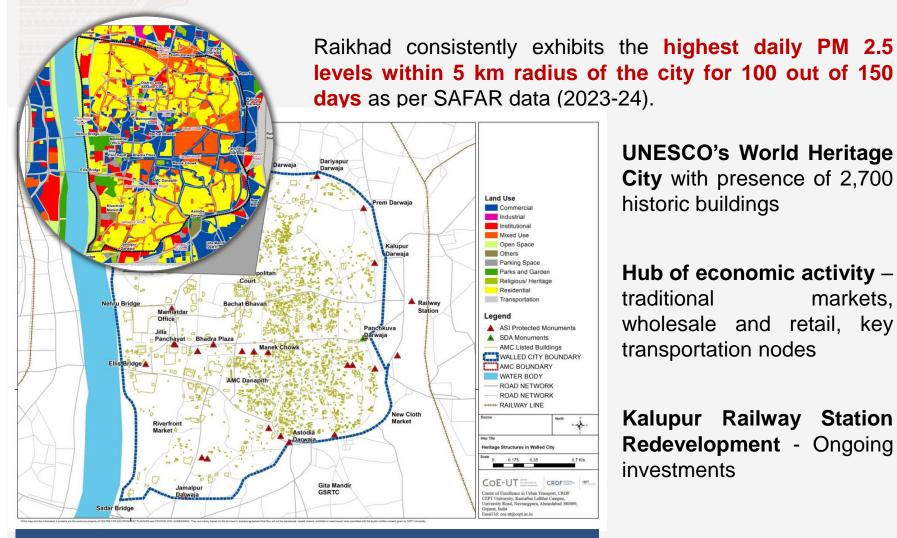
Kevadia

Restrict polluting vehicles to protect environment



Source: SLOCAT Quick Wins on Transport, Sustainable Development and Climate Change ITDP. (2023). The Opportunity of Low Emission Zones: A Taming Traffic Deep Dive

LEZ IN INDIAN CITIES - CASE OF AHMEDABAD



UNESCO's World Heritage City with presence of 2,700 historic buildings

Hub of economic activity – traditional markets. wholesale and retail, key transportation nodes

Kalupur Railway Station **Redevelopment** - Ongoing investments

How do we make core city attractive and liveable?



CHARACTERISTICS OF WALLED CITY



Walk trips account for 64% of internal trips with average trip length of 1.2 km





Mode Share of PT and IPT, for Walled city trips is 24% while in AMC 16%



Two-wheelers accounting for 42% of trips in the walled city



Three-wheeler goods vehicles dominate the freight operations by 60% of incoming trips during 11 a.m. to 5 p.m

POSSIBLE INTERVENTIONS

Avoid



Managing Freight Movements

 Plan efficient routes and timings

Shift

of



Mobility Management

- Improving walkability
- Management vehicular movement
- Parking management



Enhancement of Public Transportation

- Enhancing service quality and quality
- Integration of PT, IPT and NMT
- Improving last mile connectivity

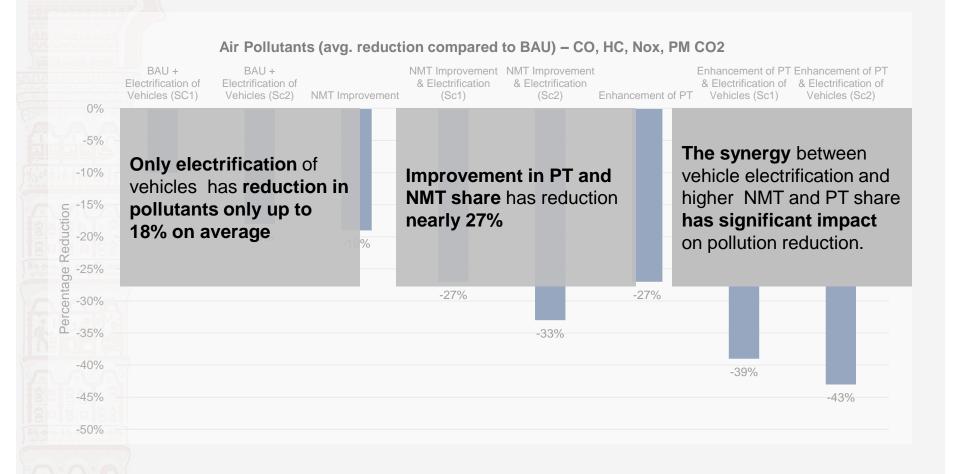
Improve



Vehicle Technology Intervention

- Phasing out highly polluting vehicles
- Electrification of two-wheelers, passenger and goods threewheelers and LCVs.
- Awareness creation
- Infrastructure development

IMPACT OF INTERVENTIONS



KEY QUESTIONS

Q1. How should **LEZ be defined in the context of Indian cities**? Should it include vehicle technology improvements and entry regulations only?

Q2. What will be the role of technology in LEZ implementation and regulation

Q3. What should be the **first steps towards LEZ implementation**?



Thank you











