

मुंबई CLIMATE ACTION PLAN



Stakeholder Consultations

Transportation

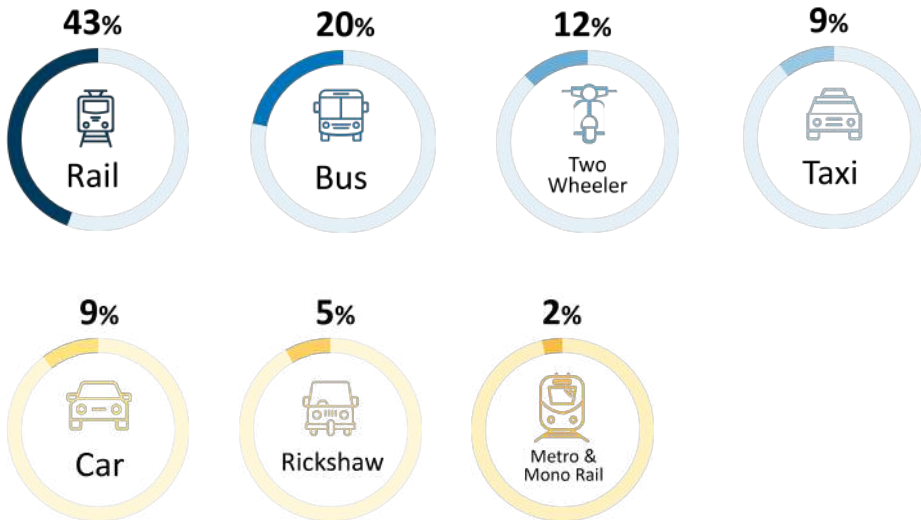
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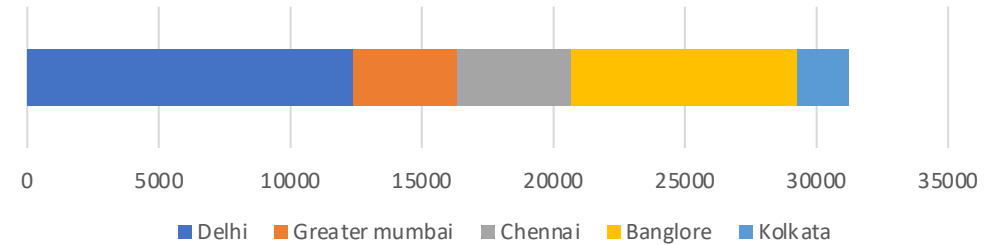


Sector Overview

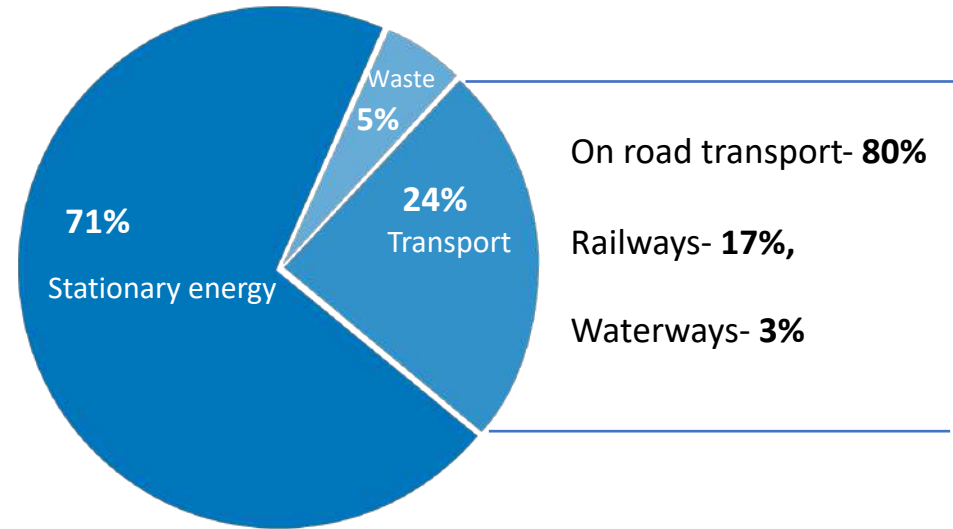
Motorized Modal Split 2016 CMP



CO2 eq emissions from transport (Gg) for 2015



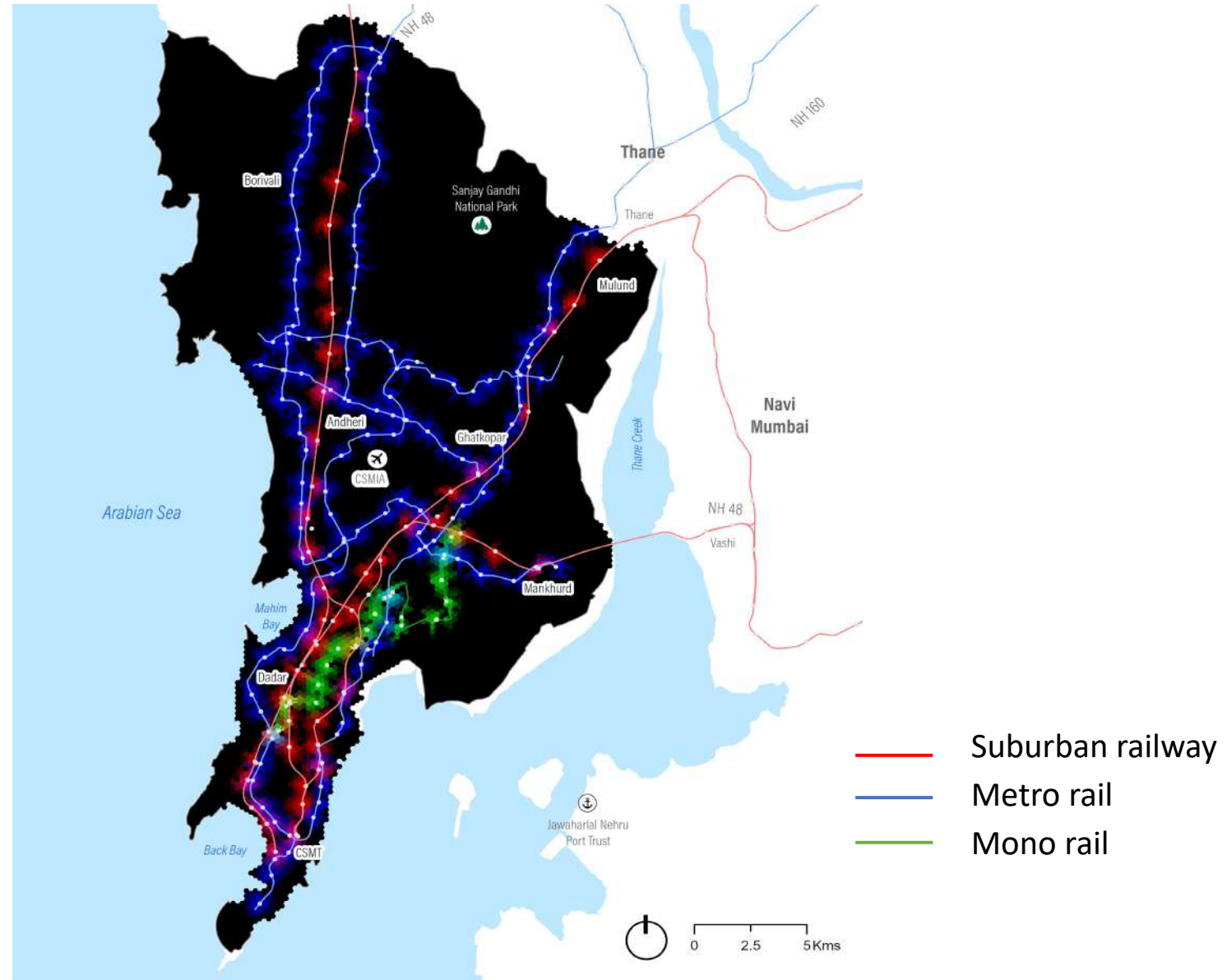
GHG Emissions from transport for Mumbai (2019)



60% of Mumbai

has access to public transport within 1km

- **60.5%** of Mumbai's population has access to a station within 1km of either of the three mass transit modes (monorail, metro or suburban rail), this is a huge opportunity for **multimodal integration**.



On-Going Projects

Public transport augmentation

- Expansion of metro, bus and suburban rail
- 257km exclusive bus corridors (2034)
- Proposed ropeways, RORO services on 4 routes, water taxis on 12 routes by December 2021

NMT infrastructure

- Multi modal Integration Plans (MMI)
- Refurbishment of arterial roads with footpath improvement
- Complete street in lower parel, bellasis road redesign
- 240 km cycle lanes by 2024 (CMP)

Clean fuel adoption

- BEST: Electrifying 45% of fleet by 2023
- Metro mitigation potential:166,000 tons CO₂/year

Key Challenges for Mumbai

1. 46% of trips are by walk

Unsafe, inaccessible pedestrian infrastructure

2. Well established public transport network

Seamless trip integration, information technology

3. 4th congested city in the world (2018, 19), increasing parking demand

Transport demand management measures

4. 80% emissions from on road transport

Need to transition to alternative fuels

5. Upward trend of EV uptake

Need to be coupled with RE transition (4.5% now)

Towards Sustainable Transport- 4 Pronged Approach



Clean

Promoting alternate fuels as well as fuel efficiency improvements



Manage

Transport demand management to discourage private vehicle usage and shifting towards low carbon modes



Integrate

Integrating across multiple transport modes and improved last mile access



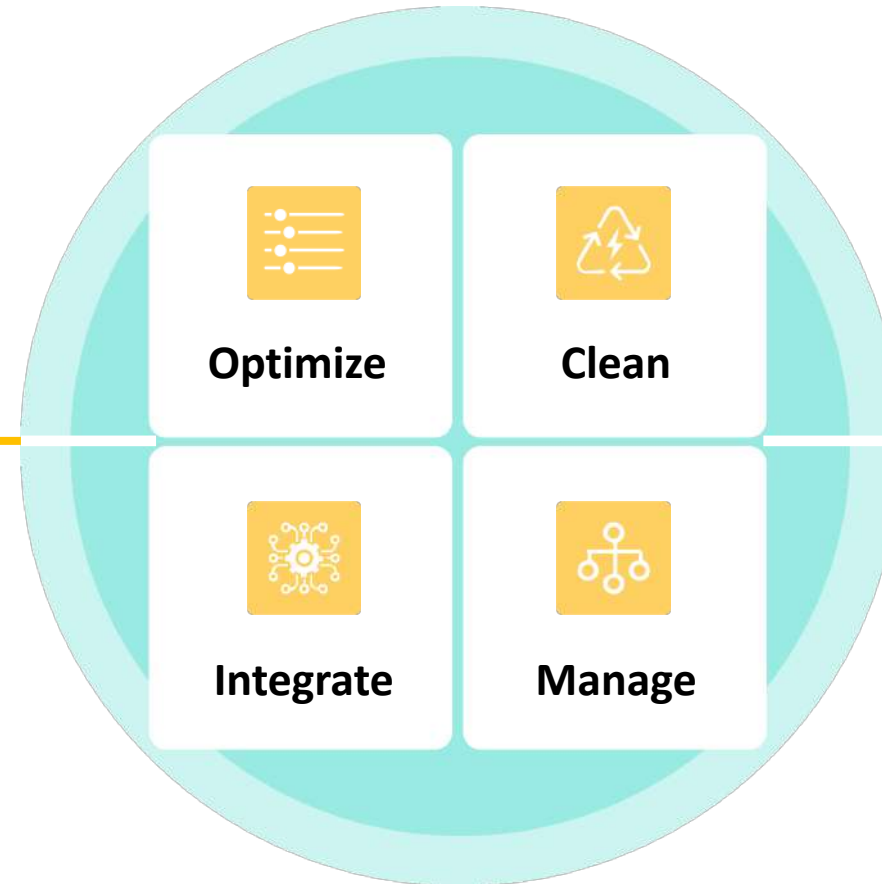
Optimize

Optimizing existing transport capacities through intelligent transport systems

Potential Actions

- Monitoring freight and shared vehicles
- Route rationalization

- Fare integration, passenger information services
- Inclusive NMT infrastructure



- EV cell
- Targets for electric freight

- Planning, maintenance and operation of buses
- Disincentives- parking levy, policies



Thank you —————

