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**UNITED NATIONS
CENTRE FOR REGIONAL DEVELOPMENT**

In collaboration with

**Ministry of Public Works and Transport, the Government of Lao PDR,
Ministry of the Environment (MOE), Japan
Partnership on Sustainable, Low Carbon Transport,
United Nations Economic and Social Commission for Asia and the Pacific, and
United Nations Office for Sustainable Development**

**TENTH REGIONAL ENVIRONMENTALLY SUSTAINABLE TRANSPORT (EST)
FORUM IN ASIA,
14-16 MARCH 2016, VIENTIANE, LAO PDR**

**Country Presentation
(India)**

(Presentation for EST Plenary Session 6 of the Provisional Programme)

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10th Regional EST Forum in Asia, 14-16 March 2017, Vientiane, Lao-PDR

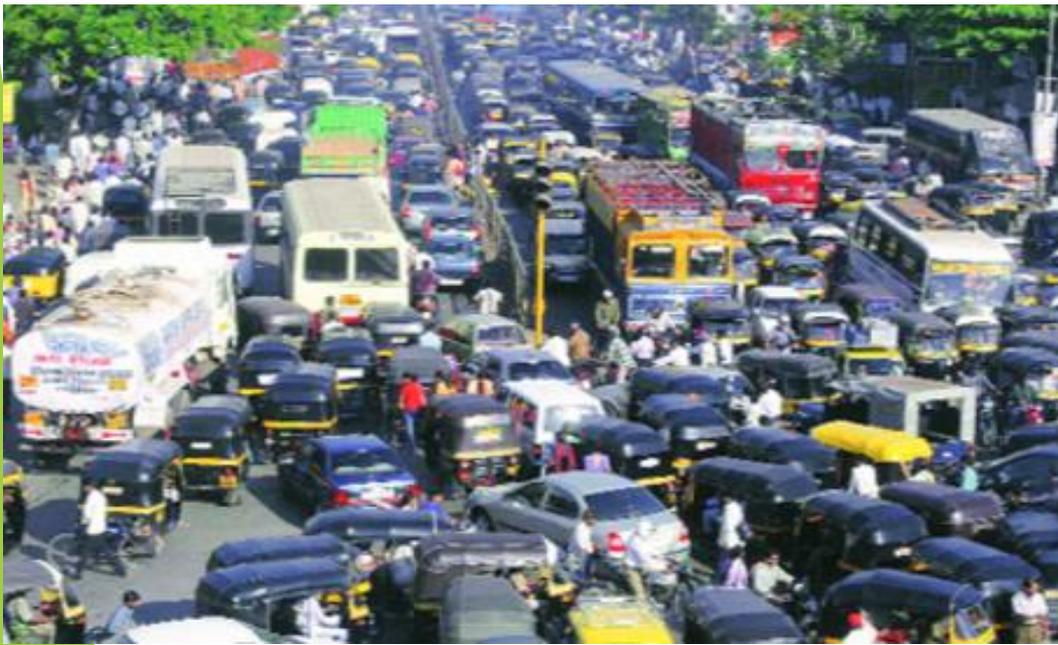
EST Plenary Session 6:

Progress towards Implementation of Bangkok 2020
Declaration on EST - India

India

Critical Challenges Encountered

- Where ever land use pattern is well defined, change in land use takes time
- Equitable allocation of space for all transport modes on existing roads
- Land acquisition & resettlement of effected persons takes time
- Improve public transport's existing demand from available resources
- Uncontrolled growth of vehicle population - resulted in high levels of air and noise pollution

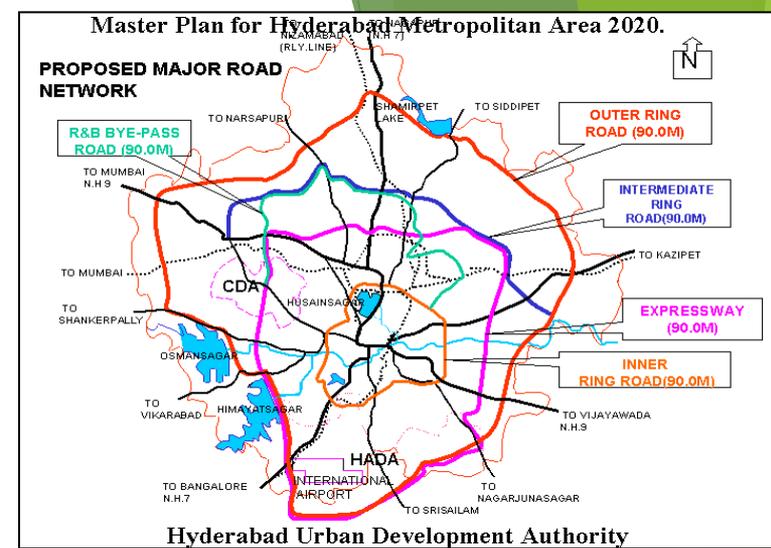


Major initiatives taken by Government of India

Policies	Plans	Schemes/ Missions	Guidelines/code	Acts/Laws
<ul style="list-style-type: none">• National Urban Transport Policy• National TOD Policy• Sugamya Bharat Abhiyan (Accessible India)• Metro Rail Policy• Auto Fuel Vision and Policy- 2025• National Road Safety Policy, 2010	<ul style="list-style-type: none">• 12th Five Year Plan• Comprehensive Mobility Planning• Service Level Benchmarks• National Electric Mobility Mission Plan 2020• National Action Plan on climate change	<ul style="list-style-type: none">• Green Urban Mobility• Smart City• AMRUT mission• JnNURM• FAME• “zero-accident” scheme for Railways• National Air Quality Monitoring Programme (NAMP).• National Ambient Noise Monitoring Network Programme (NANMP) 2010• SUTP	<ul style="list-style-type: none">• UDPFI Guidelines• TOD Guiding document• Code of Practice for Urban Roads• Revised IRC codes• PBS Guidelines• UBS• Introduction of BS VI fuel standards• Developing fuel economy standards• National Air Quality Index (NAQI)	<ul style="list-style-type: none">• Rights of Persons with Disabilities Act, 2014• Motor Vehicle (Amendment) Bill 2016• The Noise Pollution Rules amended in 2010• Road Transport and Safety Act, 2014

Ground Achievements

- **Plans: 100+ CMPs and 90+ master plans** have already been prepared by various cities
- **Reforms**
 - Rajasthan, Madhya Pradesh, Andhra Pradesh, and Karnataka implemented UMTA with focus on landuse-transport integration
 - Parking Policy developed by several cities like Delhi, Pune, Bhopal, etc
- Delhi experimented with **Odd- Even Scheme**
- Implemented new national permit system across the country to facilitate inter-state movement of goods carriages
- **NMT:**
 - Prioritizing pedestrians and cyclists - Chennai Corporation
 - Development of Cycle Tracks – cities of Uttar Pradesh, Chandigarh, Gujarat, etc
 - Promotion of pedestrian facilities – Raahgiri in many cities



Ground Achievements

➤ Public Transport:

- **City Bus Service:** 25,000+ buses sanctioned to 170+ cities
- **BRTS:** Approx. 620 km of BRT is under various stages of development across 16 cities.
- **Metro:** 326 km operational in cities like Delhi, Kolkata, Mumbai, Bangalore, Gurgaon, Jaipur and Chennai.

➤ ITS:

- introduced in cities like Bangalore, Mysore, Mumbai, etc
- Buses/BRTS provided by Gol are equipped with ITS.
- Electronic toll collection implemented by NHAI across India.
- MoRTH has been facilitating computerization of more than 1000 Road Transport Offices across the country
- Driving License data is available on Sarthi web portal



Surat BRTS



PIS Delhi Metro



Electronic Toll Plaza



ITS enabled Bus



Delhi Cluster Buses - Control Centre



VMS - Bangalore

Ground Achievements

➤ Fuel & Environment:

- Fuel taxes levied and congestion pricing is being considered in cities like Jaipur, Shimla, Delhi and Aizwal
- BS IV Auto Fuels Coverage to all Cities by 2017.
- Introduction of BS VI fuel standards by leap frogging BSV.
- Monitoring ambient air quality in the country at 332 operating stations
- Promoting Low Carbon Transport in India in collaboration with The United Nations Environment Programme (UNEP)

➤ Initiated SUTP with Support from World Bank - GEF - UNDP:

- Pimpri-Chinchwad BRTS
- Naya Raipur BRTS & NMT
- Hubli - Dharwad BRTS
- Indore - ITS for BRTS
- Mysore - ITS for City Bus Services
- Mysore - Public Bike Sharing (PBS)

➤ Capacity building through IUT, SUTP and Centre of excellences.



Air Quality Monitoring Device



Pimpri Chinchwad BRTS Station



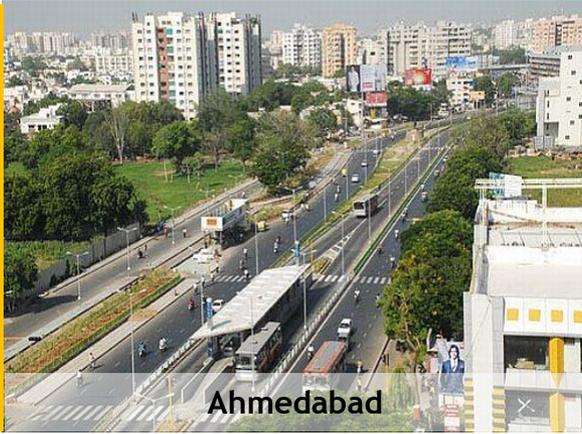
PBS Mysore



Capacity Building Programme

Ground Achievements - TOD

STATION LEVEL



Ahmedabad



Kochi



AREA LEVEL



Delhi

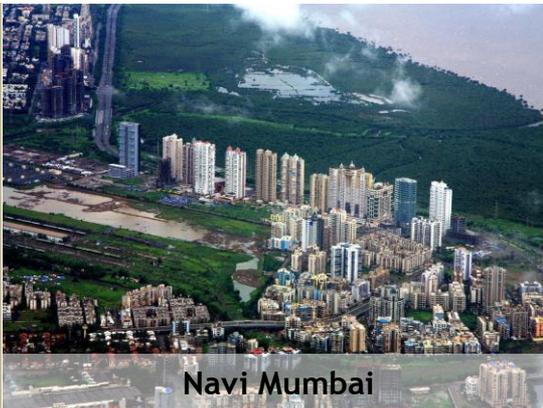


Mumbai



Bhopal

CITY LEVEL



Navi Mumbai



Naya Raipur

TOD Policy framework has been formulated for Delhi, Naya Raipur and the State of Madhya Pradesh

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Thank You...!!!

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