

INDIA: Country Initiatives and Achievements on Bangkok Declaration -2020



7th Regional EST Forum in Asia – 24.04.2013

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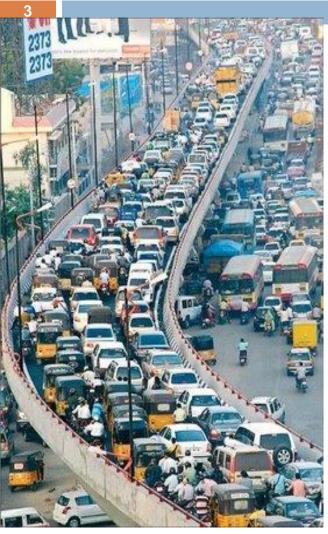
Urbanization challenges

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2nd Largest urban system

- 60% GDP generated from urban areas
- 7935 towns and cities as per 2011 Census
 9 megacities (4 million + population)
 53 cities with million plus population
- Urban Transport not listed in Constitution of India- Responsibilities distributed mode wise
- Motorization rates are high

Urban Transport Challenges



- Sprawling cities
- Environmental Degradation
- Declining PT & NMT
- Low Investments
- Supply Side Focus
- Poor Enforcement
- Multiple Institutions
- Education of People

In 6 Metro Cities, during 1981 to 2001 Population increased by 2 times BUT Motor vehicles increased by 8 times !!!





Urban Transport Challenges

Lack of institutional framework Multiple institutions
 No dedicated agency
 No comprehensive legislation

Gaps in capacity

No National centre for best practices
 Professionals not employed by cities
 Shortage of UT professionals

Low penetration of public transport(PT) Poor image of public transport, poor service
 Good Public transport needs subsidy
 Intermediate public transport not organized
 Private services unsafe
 Financing constraints for good quality PT

....contd.

Urban Transport Challenges

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No enabling environment for NMT Poor brand image of NMT
 NMT infrastructure inadequate
 Cycle rickshaw considered a nuisance

Poor road quality

Encroachment of existing roads
 Poor drainage & surface quality
 Utility agencies damage roads

Limited use of technology & innovation Unfamiliarity & lack of skills
 Innovations are not encouraged; Business as usual

Government of India's Response

POLICY RESPONSE

- I. National Urban Transport Policy-2006
- II. National Action Plan on Climate Change
- III. National Mission on Sustainable Habitat
- IV. National Transport Policy Development Committee Report

PROJECT RESPONSE

- I. JNURM- Sector Reform Linked Investments Bus, Rail and Related Infrastructure
- II. World bank UNDP GEF Sustainable Urban transport Project
- III. Promoting Cycling Public Bicycle Scheme
- IV. Human Resources and Capacity Enhancement

Government of India's Response contd...

STANDARDS AND REGULATIONS

- I. Urban Transport Parameters for Sustainable Habitat
- II. Service level Benchmarks for Urban Transport
- III. National Ambient Air Quality Standards for 12 Pollutants
- IV. Bharat Stage III to Bharat Stage IV auto fuel switch over



Jawaharlal Nehru National Urban Renewal Mission (JnNURM) <u>http://jnnurm.nic.in/</u>

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- A reform based mission for Central Financial Assistance (CFA) to Urban Local Bodies
- About 22% of the projects sanctioned under JnNURM for Urban transport (NUTP compliant)
- Reforms for better urban transport planning and management-made
 conditional to the

1. CMP 2. UMTA. **3.Dedicated UTF** 4.TOD Policy, Parking Policy and Advertisement Policy. 5.City specific SPV for PT. 6. Setting up of TIMC. 7.Use of ITS 8.Bus priority infrastructure

9. Periodic revision of



URBAN BUS TRANSPORT IS IMPORTANT AND HAS TO BE TRANSFORMED TO A LEVEL THAT IT CAN BE SOLD TO PUBLIC AS A "BRANDED PRODUCT"

AIM TO REPLICATE METRO EXPERIENCE ON THE URBAN BUSES



Bus Rapid Transit System (BRTS)

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- Buses contribute as the most important mode of Public transport
- BRTS Projects for 488 Kms sanctioned for 11 mission cities at a total cost of US \$ 1085 million (@US \$ 2.4 million per km)

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- Pune
- Pimpri Chinchwad 42.22 km
- Indore
- Bhopal
- Ahmedabad
- Jaipur
- Vijaywada
- Vizag
- Rajkot
- Surat
- Kolkata



15.00 Km

- # Delhi is implementing BRTS with its own funds
- * Ahmedabad is the first city under JnNURM to have successfully launched a complete BRT system. It has won national and

Buses for City Transport

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• Urban Bus Specifications

- Low floor (400mm), semi low floor (650mm) and standard buses (900mm) as against prevailing1100mm floor height (truck chassis)
- All ITS features

Economic stimulus package

- Funding procurement of buses for UT under JnNURM.
- 15260 modern buses sanctioned under economic stimulus package in 2009-10 at a cost of US\$ 1020 Mn
- 61 mission cities Covered; about 14,000 buses are on road – 31st March'13
- City buses planned for 500 more cities with 50 thousand+ population in 2013-14
- Delhi has largest CNG Bus fleet in the world



40 new cities got organised city bus service in Phase 1 of bus funding!



Urban Transport-Metro Rail Projects

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- Metro Rail supported on high demand corridors
- ♦ Reforms in urban transport made conditional to sanction
 ♦ Delhi
 ► Citv
 ► Kms
 ▲ Ann
 - ✤ 190 kms running.
 - Phase III 136 kms sanctioned
- Bangalore- 7 kms operational
- Joint ownership with state governments in Delhi, Bangalore, Kolkata, Chennai, Kochi and Mumbai
- 20% Viability Gap Funding for Urban transport projects on PPP
 - ✤ Mumbai
 - Hyderabad
- More Finding resources! Innovative Financing million USD in pipeling

City Cost	Kn	ns A	pp.
		(U	S\$
Million)	100.00	0201	
Delhi	136.00	8391	
Mumbai	76.77	7040	
Bangalore	42.30	2580	
Kolkata		14.67	1037
Chennai	46.05	3106	
Hyderabad	71.00	2638	
Jaipur	29.00	1777	
Cochin		25.30	1111



World Bank – UNDP – GEF Sustainable Urban Transport Project (SUTP)

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- Unique project for taking up Demonstration projects in select cities and Capacity Building across India
- SUTP Many Firsts in India
 - Multilateral Agencies in Transport Sector (World Bank and UNDP)
 - Multi-City Program
 - Moving Train Concept
 - Specifically Aims at Addressing Objectives of NUTP
- Massive Capacity Building Effort in Urban Transport Sector
 - Training, Experience Sharing, Manual & Toolkit Development, Dissemination Program
 - Reforms in Urban transport made conditional
 - World Bank loan, Govt of India as well as State Govt/ Urban local funding, GEF grant pooled together

Promotion of Cycling in Indian Cities – Public Bike Sharing Scheme (ongoing)

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Developing

- A National Cycling Policy
- A Toolkit for Public Bicycle Scheme projects
- Product design and Specifications for the Public Bike Schemes in India
- Proposed Financing Mechanisms for Public Bicycle Schemes

A new scheme in 2013-14 to promote PBS with 100% funding from Govt of India for Pilot cities.



Bike share scheme proposed in 40 cities!

Human Resource and Capacity Building Initiatives

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To promote better practices:

- Central Financial Assistance up to 80% of the cost for preparation of CMP, awareness campaign and Developing CDM etc…
- For Detailed Project Reports (DPR) upto 50% of cost
- Training of trainers and practitioners
- Annual Conference and Exhibition on Urban Mobility India in December (this year from 3rd Dec to 6th Dec)
- Institute of Urban Transport to support ministry in capacity building initiatives

4 Centres of Excellence in Urban Transport

- CEPT University, Ahmedabad- Leaders in Urban Transport prog
- IIT, Delhi
- IIT, Madras
- NIT, Warangal



Toolkits and Modules under finalisation-

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S.N o	TOOL KITS	MODULES		
1.	Land use transport Integration	Sensitization Module		
2.	Demand Modelling	Demand Assessment Module		
3.	Transport demand management	Urban Transport Planning Module		
4.	ITS for Traffic Management	Environment Module		
5.	Public Transport Accessibility	Financing and Fare fixation Module		
6.	Road Safety & Safety Audits	Public Transport Modal Integration Module		
7.	Urban traffic system design evaluation	Institutional Development Module		
8.	Environmental Analysis	Integrated Planning of Infrastructure Module		
9.	SIA and R&R plan	Traffic Engineering and Traffic Management Module		

Standard Service level benchmarks in Urban Transport

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- Benchmarking to identify the gaps in service delivery and effect in improvement through the sharing of information and best practices.
- Common minimum framework for monitoring and reporting
- Guidelines on how to operationalize in phased manner.

SSLBs in Urban Transport (total-10)

- Public transport facilities
- Pedestrian facilities
- Non motorized transport facilities
- ITS facilities
- Congestion level
- Parking
- Road safety
- Pollution levels
- Integration of land use and transport
- Sustainability of public transport

Overall LOS 1 to 4 Fach LOS computed based on number

Other Initiatives Relating to Urban Transport

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Policy and Planning

- National Environment Policy 2006
- National policy for public transport sensitive to climate change
- National policy for metro rail projects
- Advisories/Circulars to State Govts for guiding city development and redevelopment

Management

- National public transport helpline
- National Common mobility card across India-"More"
- Control centre based management of all Auto-rickshaws and Taxis
- Task Force on UMTA
- National Core Group on ITS
- National Consultant for CDM
- Partial Funding for Urban Transport cell at ULB and UMTA in cities

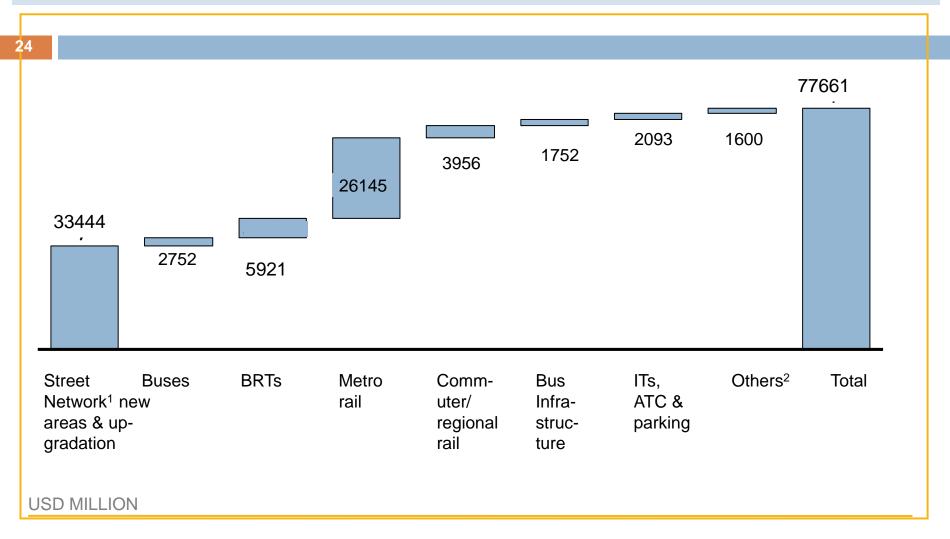
Investment

- Innovative PPP to attract private financing.
- Dedicated Urban transport fund so as to catch up with investment requirements given the pace of urbanization and increase in the travel demand.

Estimating Future Investments in Urban Transport

In order to improve the Urban Transport Infrastructure and provide the gaps, the investment requirement is estimated as about USD 78 billion over next 5 years and USD 506 Billion in next 20 years .

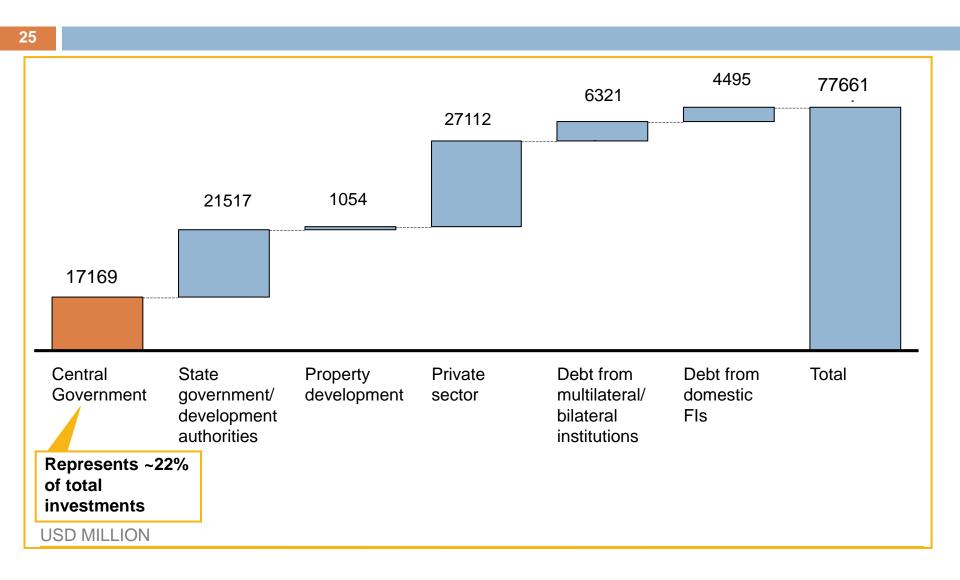
Investments by components



1 Includes pedestrian, NMV, road & streetscape investments

2 Includes public bicycle scheme, innovation & R&D, institutions & capability building

Investments by source of funding



Intervention Recommendations

	Set up MPC/DPC	Recognise UT in the concurrent list in constitution	
nal	Set up UMTA UT Authority control all	Set up a commission for UT safety	
natio	funds	Set up NURTA & corporatise suburban rail services	
form	Set up the National	Iresearch, design & standardization authority for rail transit	
Transformationa	UTF with green cess	knowledge mgt. cell & data center state level & in large cities	
	Set dept of UT in MoUD & respective	□jobs at the state level to absorb UT professionals	
	state ministries	Interpretended for the support of	
		UTF based on land monetization, property tax etc.	
Incremental	hierarchical road network integrated with PT	 Re-organise citywide roads for pedestrians and cycle paths Re-open missing links, dead-ends; Create bye-passes & goods terminals outside the city 	
	Free up road capacity	Fix street furniture, signages & lighting	
	Regulate & coordinate work of utility agencies	 Itraffic signal phasing cycle Ensure multi-departmental action for safety/security Inew federal schemes for innovation, indigenization 	
	Improve maintenance	 multimodal integration, enforcement & traffic management road pricing e.g., electronic road pricing, congestion pricing 	

High

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Opportunities for Collaboration

- PPP in urban transport Systems- construction, operation and maintenance
- Modern Bus system operations
- Metros, Monorail, Trams
- Integrated transport using ITS
- Inland Waterway Transportation
- Public Bicycle Schemes
- Automated parking complexes- development and operation
- Pedestrianizing core-city areas
- Urban Planning, TOD planning
- Participation in Urban Mobility India (UMI) Conference and exhibition from 3rd to 6th December 2013 in Delhi

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Have a Great Day!!