

LOW-CARBON MOBILITY PLANS IN INDIA

Technical Session 8: Sustainable Urban Mobility Planning: Lessons Learned

10th November, 2016

Seminar Hall 3

Issues & Challenges of Cities



Cities are Sprawling	Environmental Degradation
Supply Side Focus	Poor Enforcement
Declining PT & NMT	Low Investments

- From 2001 to 2011, the annual growth of population 1.6%, but motor vehicles increased by almost 10%
- Focus on improving mobility for car users

This is Leading to-



Transport too often implemented and operated in pieces with too little objective decision support information



Need for Improved Mobility

 Improved economic potential of the city
 Improved Quality of Life
 Livable Cities

Targets

- Improvement in operational effectiveness of para-transit and public transport systems
- Completion of the network
- Retain the pedestrian characteristics of the city

Mass Transport (%)

30 - 40

40 - 50

50 - 60

- Prevent Urban Sprawl
- Prevent environmental degradation

Desirable Modal Split

City population (in

millions)

0.1 - 0.5

0.5 - 1.0

1.0 - 2.0



15 - 25

Major Component of Sustainable Transport

Priority to Non Support Public **Motorized** Transport Transport Parking Landuse Transport Integration Management Freight Safety Management





Vision of CMP

What is CMP?

Long term strategic document which provides the vision and goals to achieve the desirable mobility pattern for the city's populace in a sustainable and cost effective manner



Includes –

- Changing behavior and travel habits
- Priority to Public
 Transport, IPT, NMT and
 pedestrians
- •Land use Transport Integration



Strategies :

- Congestion relief
- Improved safety
- •Improved air quality
- Improved quality of life
- Improved opportunities
- for economic development



------ Planning Mobility for City's Sustainability

Sustainable Urban Transport Scenarios - Key Strategies





Implementation Program

Phasing of the Projects

Identification and Prioritization of Projects

Funding of the projects

Monitoring CMP implementation



9th Urban Mobility India 2016



Agra INtro



Mobility Corridors

Radial Roads

Orbital Roads











Mobility Corridors

Public Transport Network

Public Transport Infrastructure



Bus Terminals Sub terminals Workshop





Mobility Corridors

Public Transport Network

Public Transport Infrastructure

NMT Network

NMT Network





Mobility Corridors

Public Transport Network

Public Transport Infrastructure

NMT Network

Pedestrian Signal

Grade Separated Pedestrian Crossings





Mobility Corridors

Public Transport Network

Public Transport Infrastructure

NMT Network

Pedestrian Signal

Grade Separated Pedestrian Crossings

Freight Infrastructure







Mobility Corridors

Public Transport Network

Public Transport Infrastructure

NMT Network

Pedestrian Signal

Grade Separated Pedestrian Crossings

ROBs

Widening of existing ROBs

New ROBs



Travel Characteristics

Scenario	PV share(%)	IPT share(%)	PT share(%)	Average network speed (kmph)	Per Capita Trip Rate (PCTR)
Base year	52	42	6	< 16	0.55
Do Nothing-2031	54	40	5	16	
With Proposed Interventions	51	24	26	29	



Outcomes

	Indicators	LOS - Existing	LOS - Improved
А	Overall Public Transport facilities City wide	3	2
В	Overall Pedestrian Infrastructure Facilities	3	2
С	Overall NMT Facilities	4	1
D	Level of usage of ITS facilities	4	2
E	Travel Speed along major corridors	3	2
F	Availability of Parking Spaces	4	2
G	Road Safety	4	2
н	Pollution Levels	2	1
I	Integrated Land-use Transport Integration	3	2
J	Financial Sustainability of Public transport	3	2



THANK YOU

