Integrated Approaches for Sustainable Transport in Delhi, India

A Presentation
by
Ashok Bhattacharjee
Director, UTTIPEC, DDA

02 September 2013
CURRENT SITUATION: DELHI AT PRESENT
TRAFFIC CONGESTION
Car Oriented Infrastructure - Safety of Pedestrians, Cyclists at risk
Polluted Rivers/Drains, Pollution from Power Plants & Vehicles
Road Safety for Pedestrians is Compromised by ‘Signal-free corridors’

- There are more than **2100 accidents** occurred during 2010.
- The maximum casualty in the fatal accidents are pedestrians & 2 wheelers.
- The maximum accidents have occurred during the **lean hours** both in the Morning & night.

- The reasons for all accidents are:
  1. Signal free high speed corridors.
  2. Insufficient/ No pedestrian Crossing facilities.
  3. Central verge without grills.
  4. No speed breakers/ rumble strips on long stretches.
  5. **Absence of dedicated lanes for slow moving vehicles.**
  6. Heavy volume of traffic.
  7. Glaring during night etc.

Source: Delhi Traffic Police
VISION: MASTER PLAN-DELHI
About Delhi

- 19 Million Population
- 1483 Sq.Km of Area
- More than 28,500 Km of Road Length
- More than 230 Lakh Trips by 2021
- 62.88 Lacs Registered Vehicles till 2009
- 7516 Accidents in 2009
- 11.2 Km of Av. Daily Trips Length
VISION

• To recognize that **people occupy center-stage in our cities** and all plans would be for their common benefit and well being

• To **make our cities the most livable** in the world and enable them to become the “engines of economic growth” that power India’s development in the 21st century

• To allow our **cities to evolve into an urban form that is best suited** for the unique geography of their locations and is best placed to support the main social and economic activities that take place in the city.
Visions: As per Transport chapter of MPD 2021

- Sustainable Transport- 80: 20 Modal Split (Set 5-year targets)
- Women safety
- Zero fatality
- Environment Friendly (Air/Water quality targets)
- Equity and Affordability
- Energy Efficiency
STRATEGY/ APPROACH
Existing & Proposed Metro - Delhi

173 Km of Metro Network till 2011.
Carries 18 Lakhs commuters every day.
Traverses 69,000 Km across NCR making 2,400 trips daily.

Existing & Proposed BRT - Delhi

14.5 Km of Existing BRT Corridor.
39 Km of BRT Network by 2011.
Total 360 Km of BRT Network Proposed
Short Trips (4-10 KM) need to move back to Buses. So that car users can shift to Metro!!
CONNECTIVITY & LINKAGES
NEED OF FINER NETWORK FOR PEDESTRIAN & NMT

Create dense networks of streets and paths for all modes.
Pedestrian is highest priority

Multi-Modal Interchange at Metro Stations
Station Area Planning to follow above Standards

Private Car
Shuttle Service  Pick Up/Drop off
IPT Parking  Bus Stop  Pedestrian-Walkway
PROJECTS INITIATED
1. BICYCLE SHARING PROJECT - Rohini, Delhi

(Sustainable Eco-Mobility Project - 1)

Source – Delhi Cycles Pvt. Ltd

ECOMOBILITY 2013 Congress (01-04 September) Suwon, Republic of Korea
Parking Situation at Rohini West Metro Station
Parking Situation at Rohini West Metro Station
Parking Situation at Rohini West Metro Station
Parking Situation at Rohini West Metro Station
Commuters using Cycle Feeder Service of Delhi Cycles