



# Impact of Urbanisation on Air Pollution in Hyderabad City

Dr Prasad Dasari  
Environmental Scientist, Air Section



Telangana State Pollution Control Board

# Presentation outline

- Demographic details
- Air Pollution
- Action Plan
- Review of Action points
- Conclusions



Telangana State Pollution Control Board

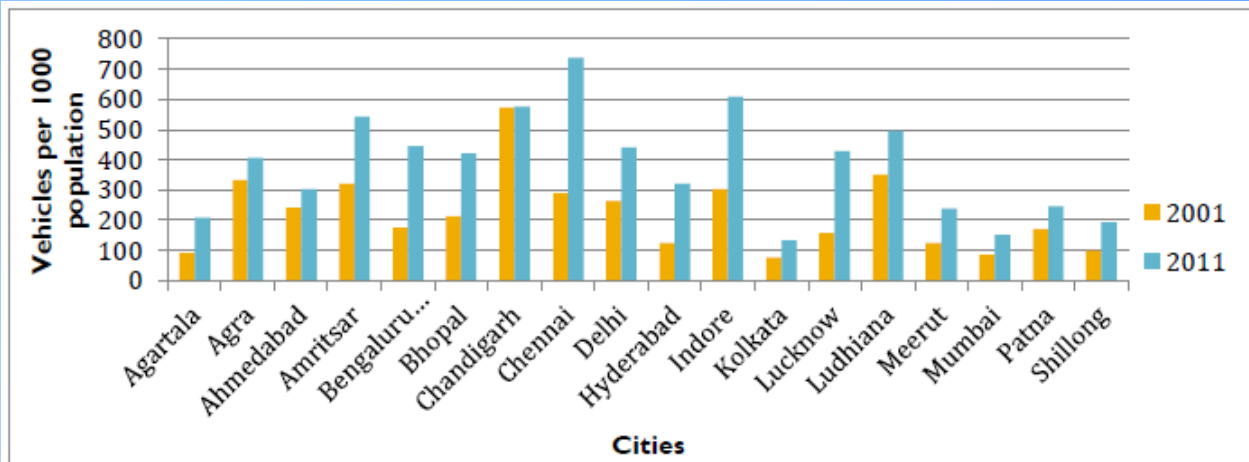
## Hyderabad – Demographic details

- Population near 10 million with density of 18,480/km<sup>2</sup>
- Vehicle fleet near 5 million
- Growth Engines:
  - Industry and IT sector
  - Pharmaceutical Capital of India
- Urban built-up area is increasing by 2507 ha/yr
- UN report on World Urbanization Prospects (2014)- Hyderabad at 38th rank in the world and will be 28<sup>th</sup> by 2030

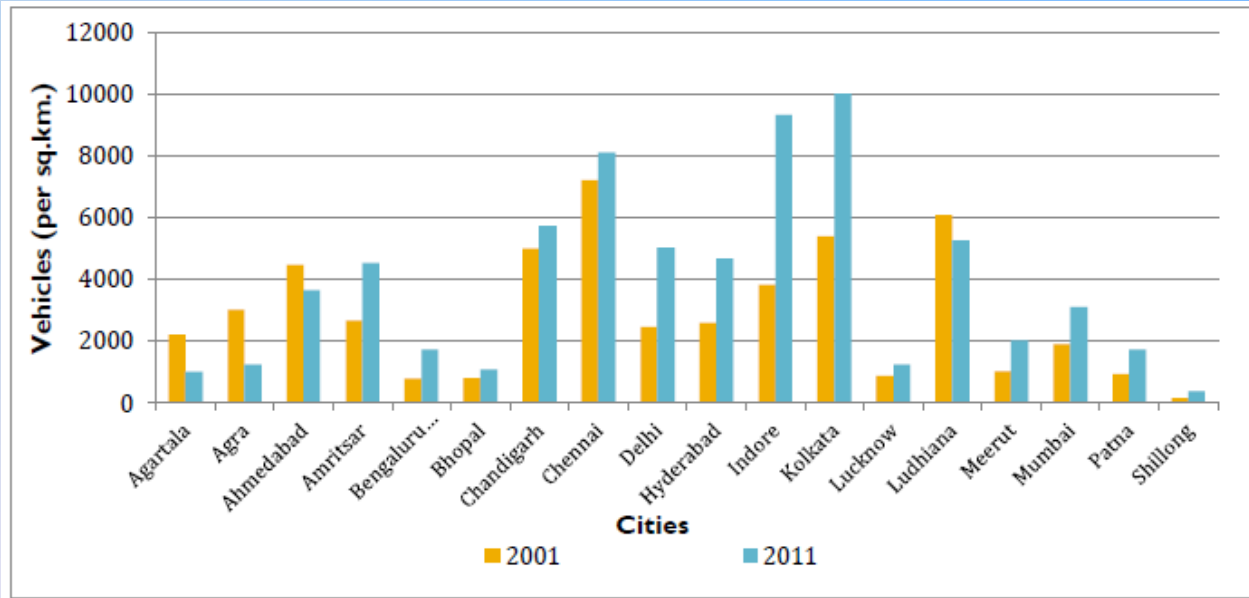
Period	Population	Two wheelers	Three wheelers	Four wheelers	Public transport	% of road area
2000-01	45,20,000	8,11,000	33,000	1,62,000	1560	7
2016-17	93,00,000	36,00,000	120,000	8,90,000	7000	12

Telangana State Pollution Control Board





Source: Road Transport Year Book, 2012 (MoRTH, Gol, 2013) and Census of India

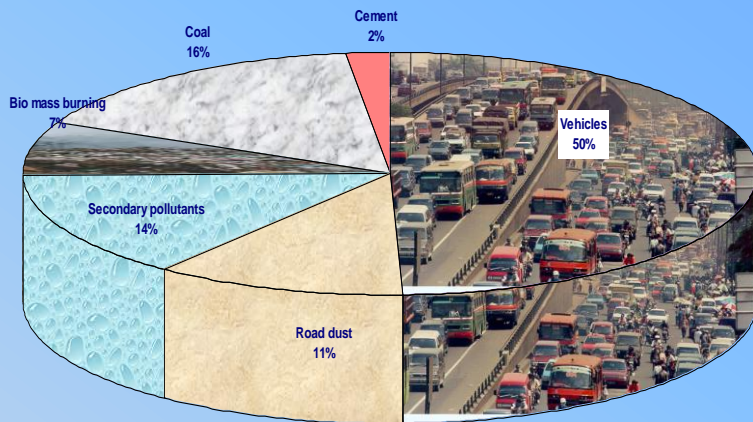
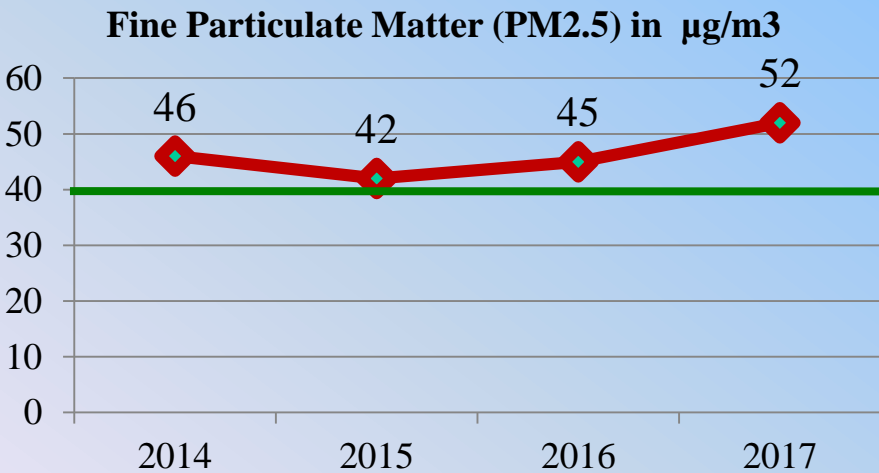
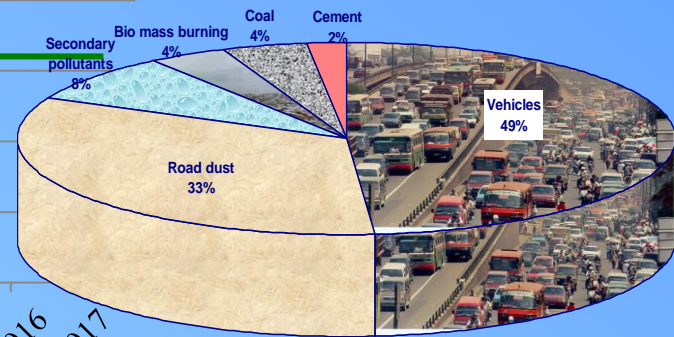
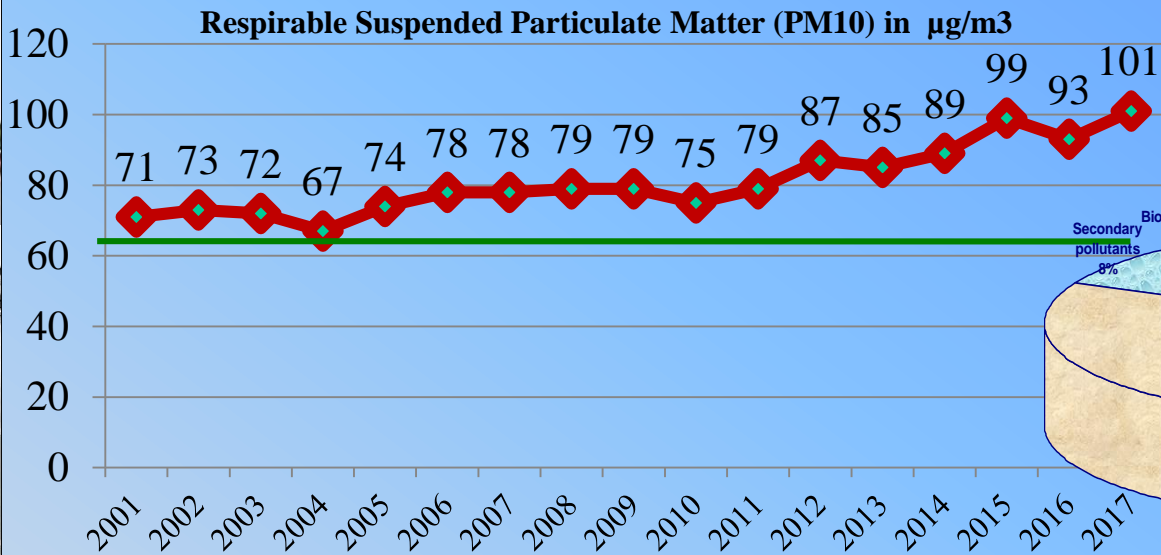


Source: Road Transport Year Book, 2012 (MoRTH, Gol, 2013)



# Telangana State Pollution Control Board





# Telangana State Pollution Control Board



Implementation of Bharat stage-III & IV norms, Phasing out vehicles (3 & 4 wheelers) of age more than 15 years, PUC computerised I&M, financial incentives to the public transport system and battery operated vehicles

Construction of fly overs, road widening, outer ring road, BRT, MMTS, MRTS, Parking facilities.



**Vehicles**



**Infrastructure**



## Action Plan for Lowering of Air Pollution



**Fuel**



Low sulphur fuels, LPG,CNG, Low benzene petrol, Bio-diesel and checking fuel adulteration

**Traffic management**



Synchronisation of the signals, removing of intercepts, providing timers, foot over bridges for pedestrians



**Telangana State Pollution Control Board**

# Are we moving in the right direction..

- Increasing road area?
- Are the policies /actions more friendly to motorised transport?
- Issues in Public Transport
  - Efficiency
  - Multimodal compliant
- Commuters preference to personal transport instead of public transport
- Government policies are more revenue oriented
- Are our actions sustainable?

*Urban Transportation Systems are more than the roads, bridges and rails*



**Telangana State Pollution Control Board**

## Planning need to take care of.....

- Location efficiency and transportation choices
- Demographic factors impacting future transportation needs
- Travel Time Index
  - Time lost in traffic;
  - Economic costs of congestion rel. to GDP;
  - Proximity to rapid transport nodes
- VMT & fuel costs
- Morbidity and Mortality on account of increased air pollution
- Public Awareness



**Telangana State Pollution Control Board**



# Gaps in the action plan

- A time frame action for achieving the National Ambient Air Quality Standards.
- Regular Review and monitoring at the highest level
- The implementation of the action plans and the improvement in air quality has to be correlated at regular intervals,
- Lack of micro planning, co-ordination among different departments of the government.
- Most of the planning is centered around profit and loss of individual organisations at local scale rather than at national scale.



**Telangana State Pollution Control Board**



# Thank you



Telangana State Pollution Control Board