



*Lifestyles and Sustainable  
Mobility*

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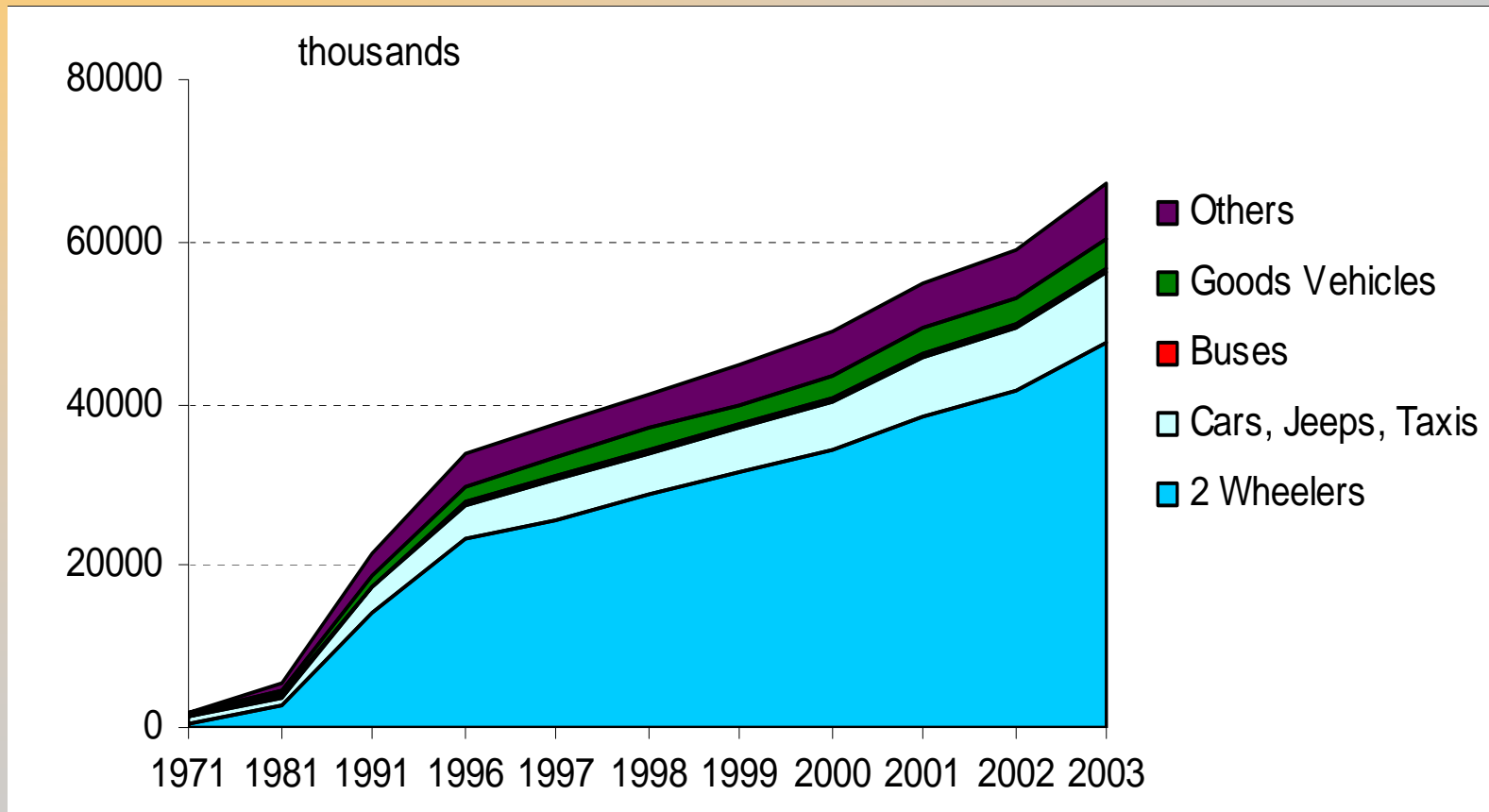
# *Increasing Incomes and Vehicle Ownership*



- ★ Rising incomes and growing aspirations
- ★ Liberalization of auto market and easy financing
- ★ Proliferation of personalized vehicles
  - 2 wheelers and cars: 90% of total vehicles – growing at an annual average rate of 14.5% and 9.5% over two decades.
  - In 2003, 45% of the cars and 30% of two-wheelers were in only 23 metropolises (all having million plus population).
  - Increase in higher segment passenger vehicles



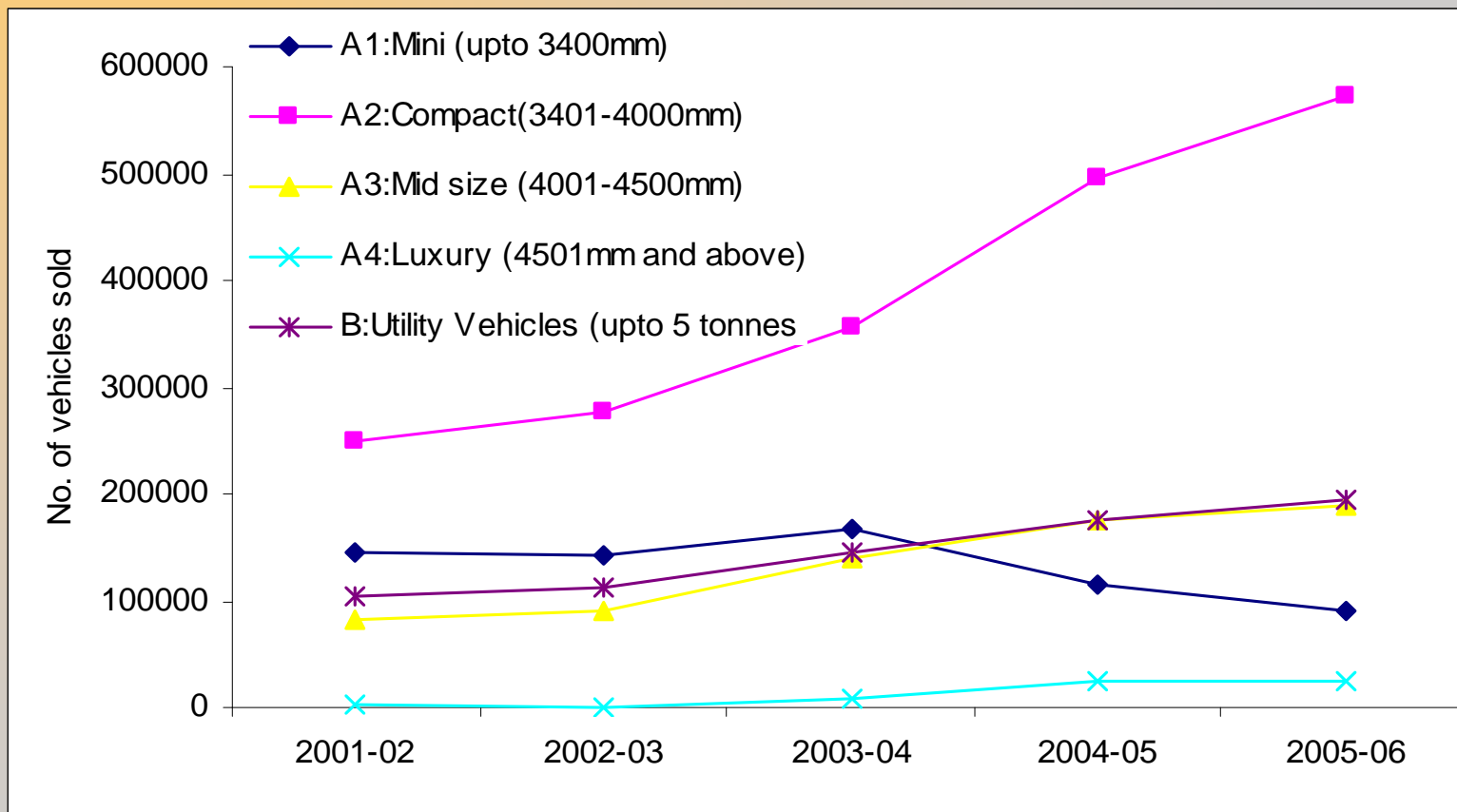
# *Vehicular Growth*



Source: Motor Statistics



# Sales Trend of Cars



Note: A4 – Executive, premier and luxury car segments combined



# Concerns

- ★ High rate of urbanization and inefficient land-use planning
  - Urban population: 28% of total
  - 40-50% population live in informal settlements in million plus cities
  - Increased travel- number of trips and trip lengths
  - Increased use of personal vehicles
- ★ Diminishing share of public transportation
  - Public Buses in less than 15 of 35 million+ cities
  - Unsafe and unregulated para-transit in the others
- ★ Investments largely on road space for vehicles and not on pathways for pedestrians , NMT –
- ★ Inequitable allocation of road space and inadequate accessibility for the poor





## *Concerns....*

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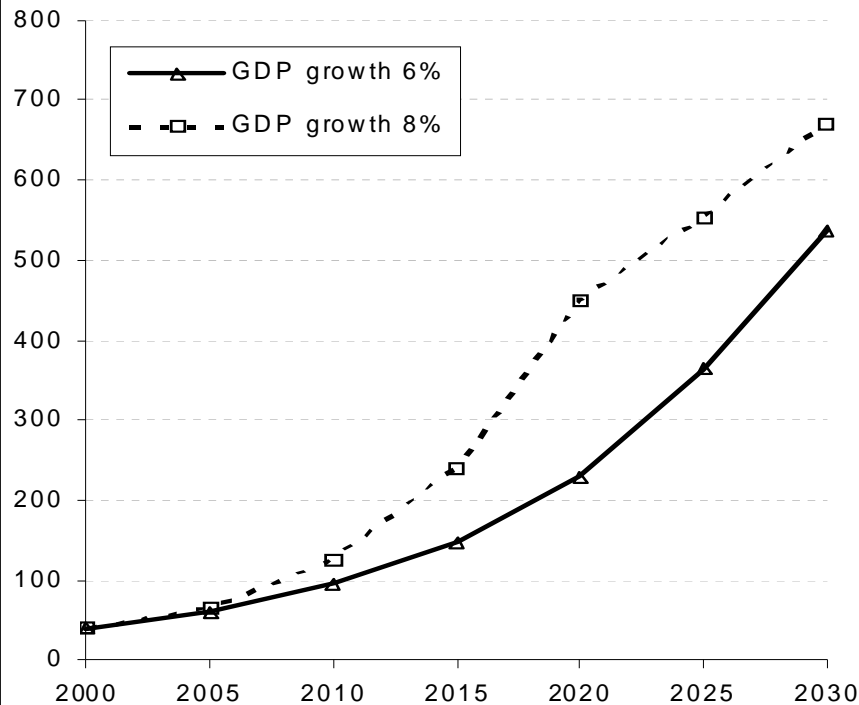
- ★ Growing dependence on fossil fuels
  - Transport second largest consumer of commercial energy
  - No standards for fuel efficiency
  - Increasing emissions
- ★ Safety concerns
  - Irresponsible driving and increasing road rage
  - Poor enforcement and corruption
  - Increasing morbidity and mortality on Indian roads
- ★ No demand management –urban congestion, pollution and wastage of fuel & productivity
- ★ No Urban Transport Policy in the states
- ★ Diffused institutional arrangements and responsibilities
  - Fragmented among central, state and local authorities



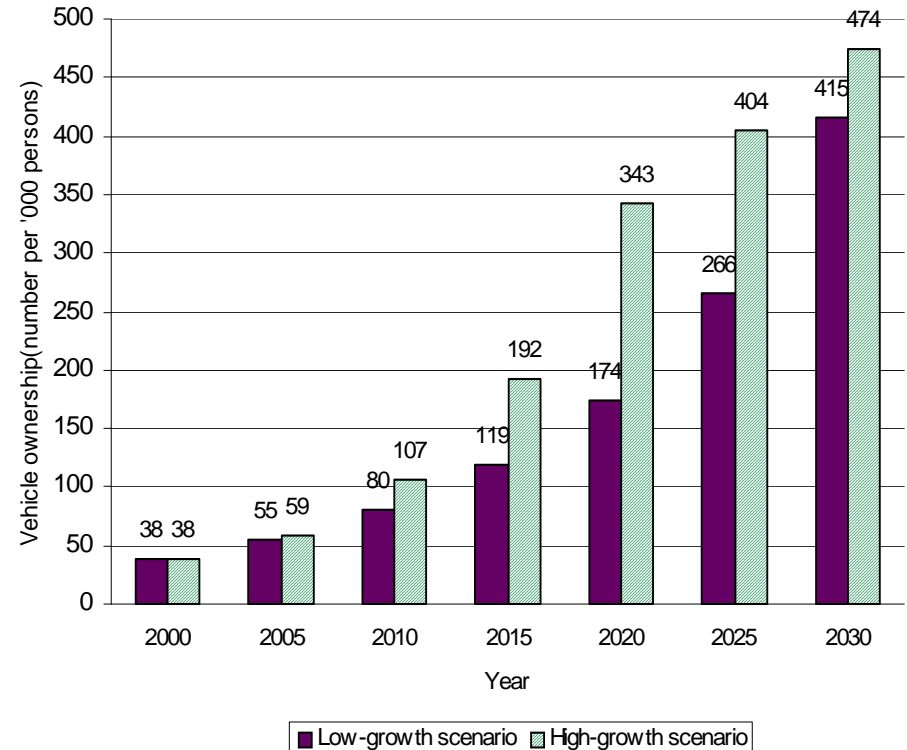
# Growth in GDP and Vehicles

Total number of on road vehicles

million

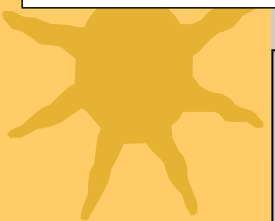


Vehicle Ownership and GDP Growth - Different Scenarios



From 60 million vehicles in 2000

- 537 million in 2030 (6% annual growth)
- 671 million in 2030 (8% annual growth)





# *Next Steps: Make Urban Transport Sustainable*

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## ★ Restrain travel demand

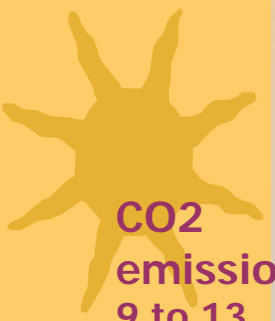
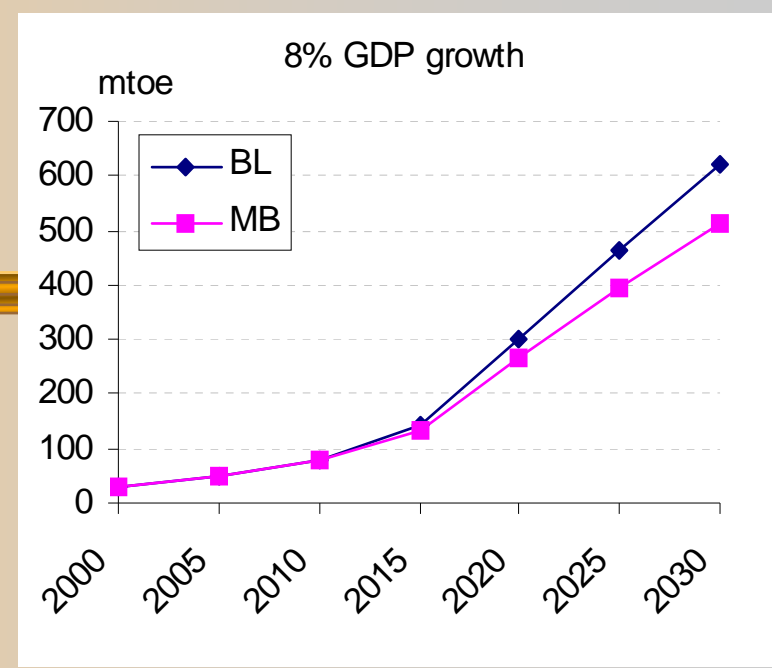
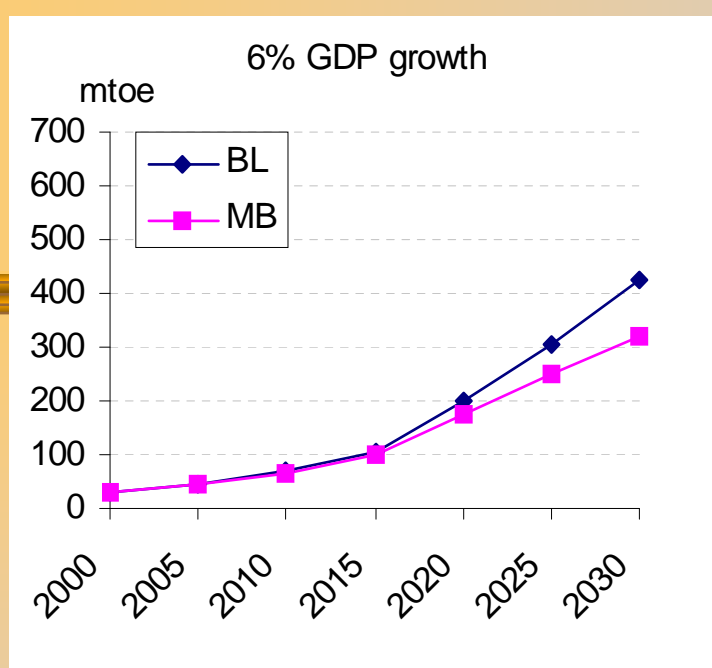
- Increase share of public transport through a package of measures
- \_ Restrict usage of personal vehicles

## ★ Reduce emissions per km

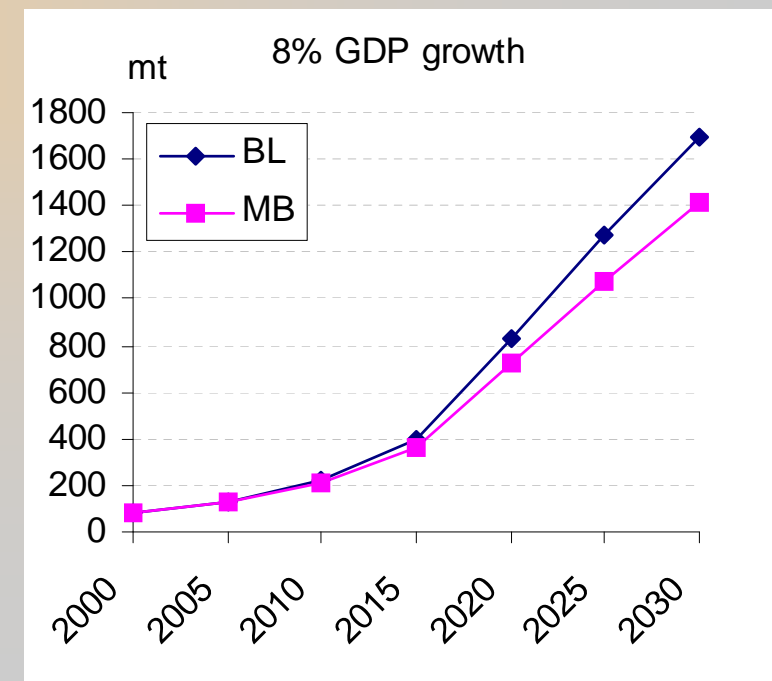
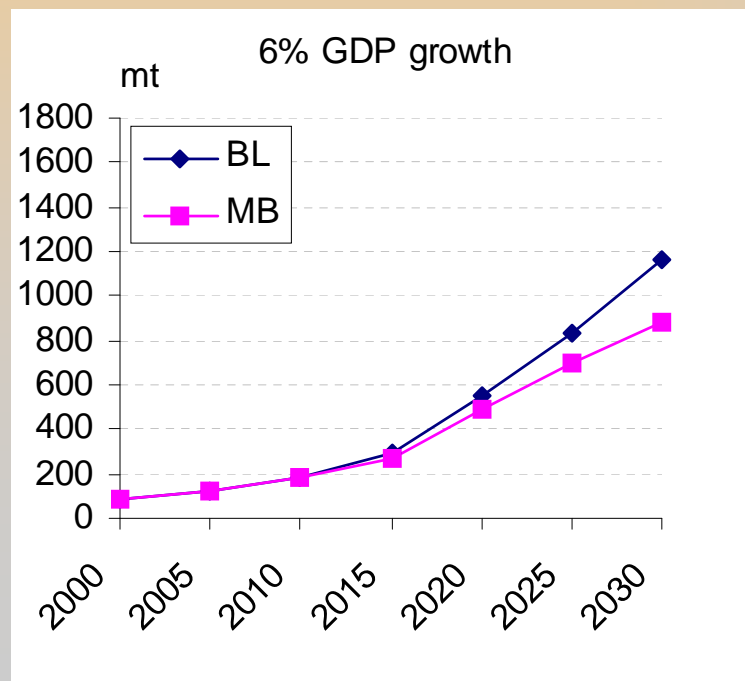
- Improved technologies & fuels
- Alternative fuel options



Energy demand:  
9 to 13  
times  
increase  
(2000-30)



CO2 emissions:  
9 to 13  
times  
increase  
(2000-30)





*Thank You*

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