

Towards Carfree Cities IX

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Can Technology Save Us?



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Will vehicle and fuel efficiency improvements help if...?

1. Population and economic growth remain strong
2. CO₂ emissions standards are weak or not met
3. Disposable incomes rise faster than the cost of car use
4. Motoring remains cheaper than the alternatives
5. Car usage costs fall through rebound effects
 - Vehicle ownership increases
 - Consumers prefer larger, more polluting vehicles
 - Occupancy rates decrease
 - Distance driven continues to increase
6. The need to travel increases
7. The liking for 'excess' automobility remains strong
8. Infrastructure provision favours car use
9. New technologies lead to additional travel
10. Intelligent transport systems make driving easier



Intelligent Speed Adaptation

- Speed management has multiple benefits
 - Safety
 - Climate change
 - Urban liveability
 - Distance driven
- Vehicles 'know' the speed limit
- Three levels
 - Advisory
 - Voluntary
 - Mandatory
- Barriers to implementation are not technical...
- Will technology be used to help or hinder car use?

