



Promoting Livable Communities in Asia and the Pacific

APEC Workshop

**Transportation Energy
Efficiency Improvement Potential**

May 2010





A Crisis in Asian Urban Transport

- **A crisis in Asian transport caused by a combination of events:**

- **Urban population increase**
- **Rapid motorization**
- **Demand for travel increasing (people and freight)**
- **Trip patterns changing (mostly getting longer)**

Resulting in:

- **Congestion: a serious problem, impacting the economy, environment and social concerns**
- **Fuel security: a major concern for oil importers**
- **Climate change: fastest growing CO2 emitter**
- **Local air quality: rapidly deteriorating (although there are some notable success stories)**

Predict and Provide

The city of today



and tomorrow!

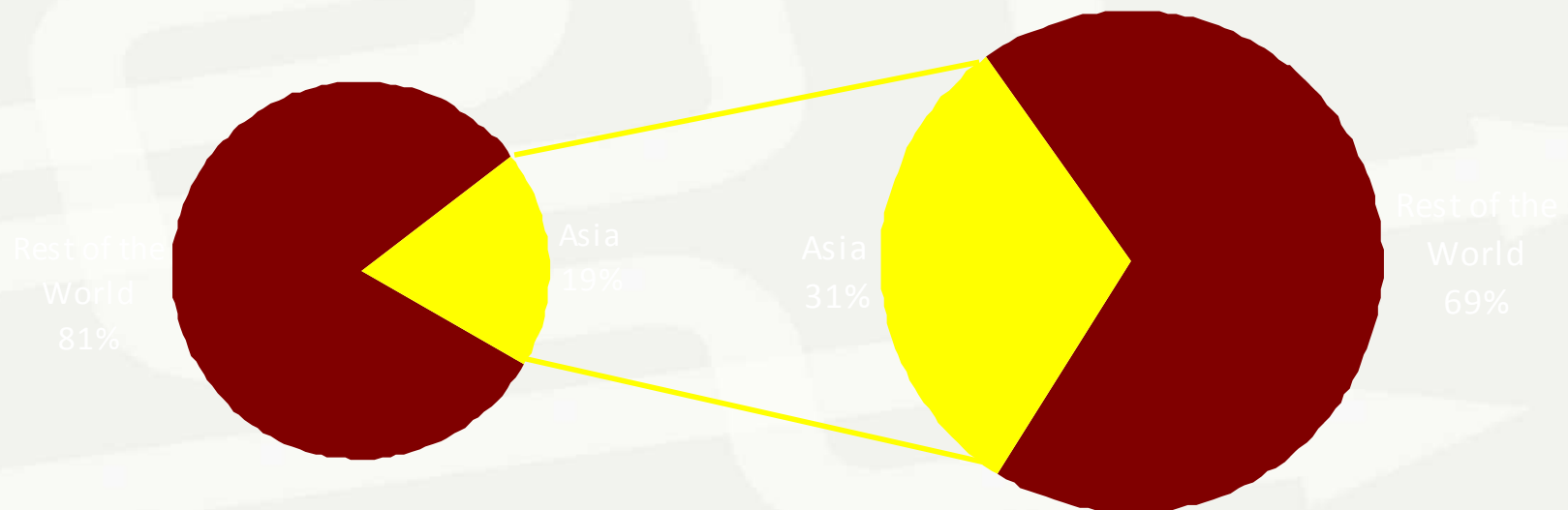
ADB

Transport CO₂ Emissions

38% increase Worldwide

2006
5,465 mil tons

2030
7,555 mil tons



Asian transport growth is 1.1 billion tons



Source: IEA, World Energy Outlook 2008

Note: Total emissions excludes international marine bunkers and international aviation

Fuel Security



ADB

Local Air Quality

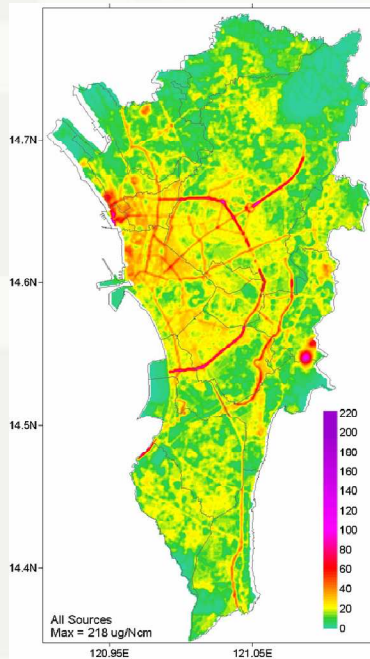
Disappearing skyline



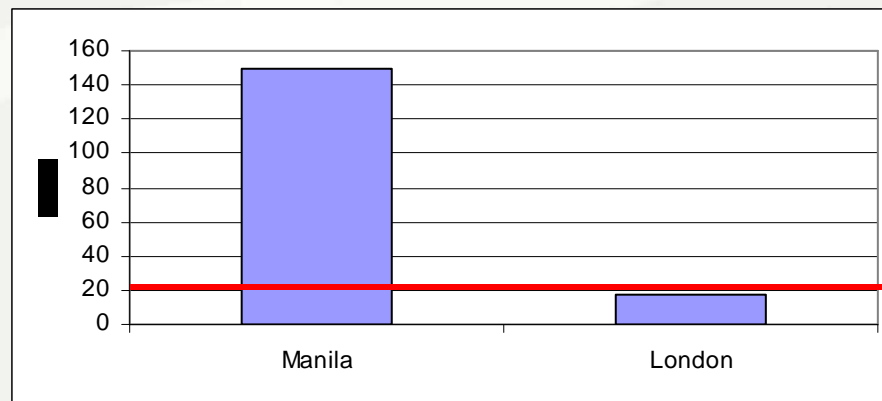
Sunday morning (June 24, 2007)



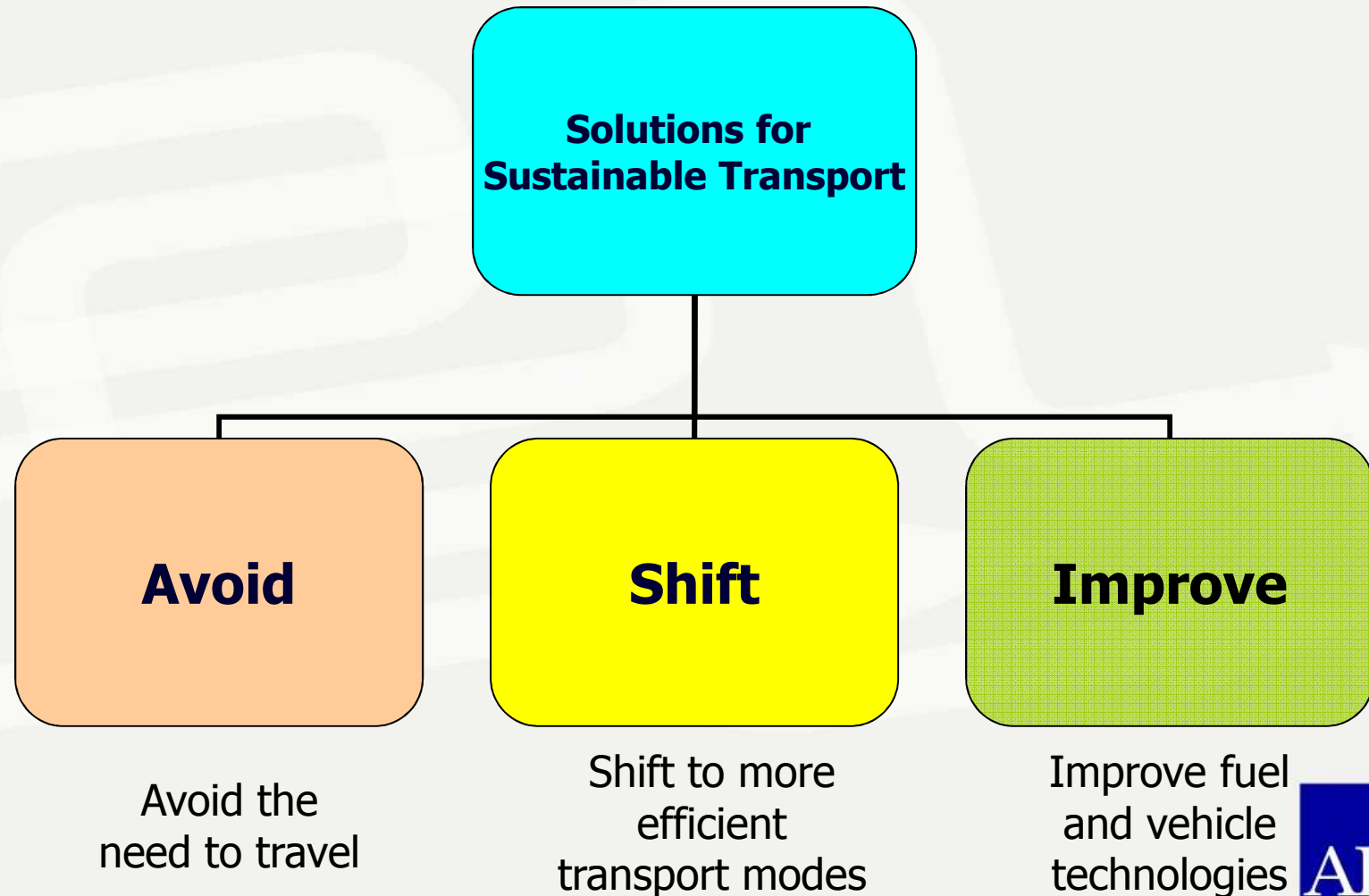
Monday morning (June 25, 2007)



Particulate Matter concentrations (PM₁₀)



A Sustainable Transport Solution



Same Principles, Different Requirements

Principles	Developed Countries	Developing Countries
Avoid	Reduce travel through traffic demand management (TDM)	Avoid unnecessary generation of travel through integrated land use planning and traffic management
Shift	Shift from private vehicles to non-motorized transport and public transport	Shift investment focus to non-motorized transport and public transport
Improve	Clean up existing vehicles and fuels	Ensure that future vehicles are as clean as possible and improve attractiveness of public transport

Project Development





“Our Sustainable Transport Initiative will make more cities more ‘people-friendly’ and advance climate change mitigation objectives.”

Haruhiko Kuroda
President, Asian Development Bank
2009 Delhi Sustainable Development Summit



Partnership on Sustainable
Low Carbon Transport

Thank you

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