

The Global Initiative on Transport Emissions

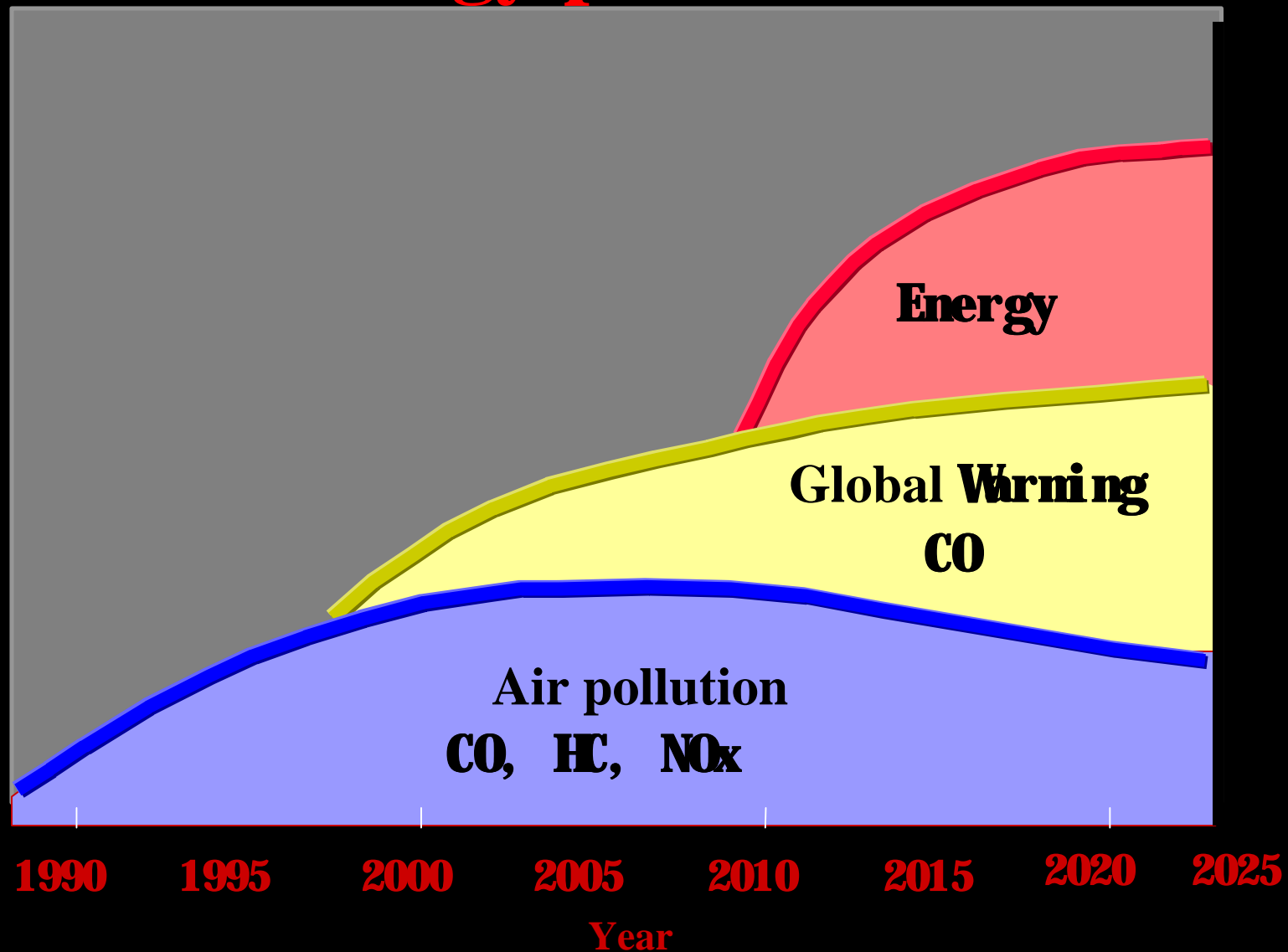
Environmental and Energy Policy in Asia
-Case studies of Thailand and Philippines-

Keiko Hirota Kiyoyuki Minato
Japan Automobile Research Institute

April 24th, 2001

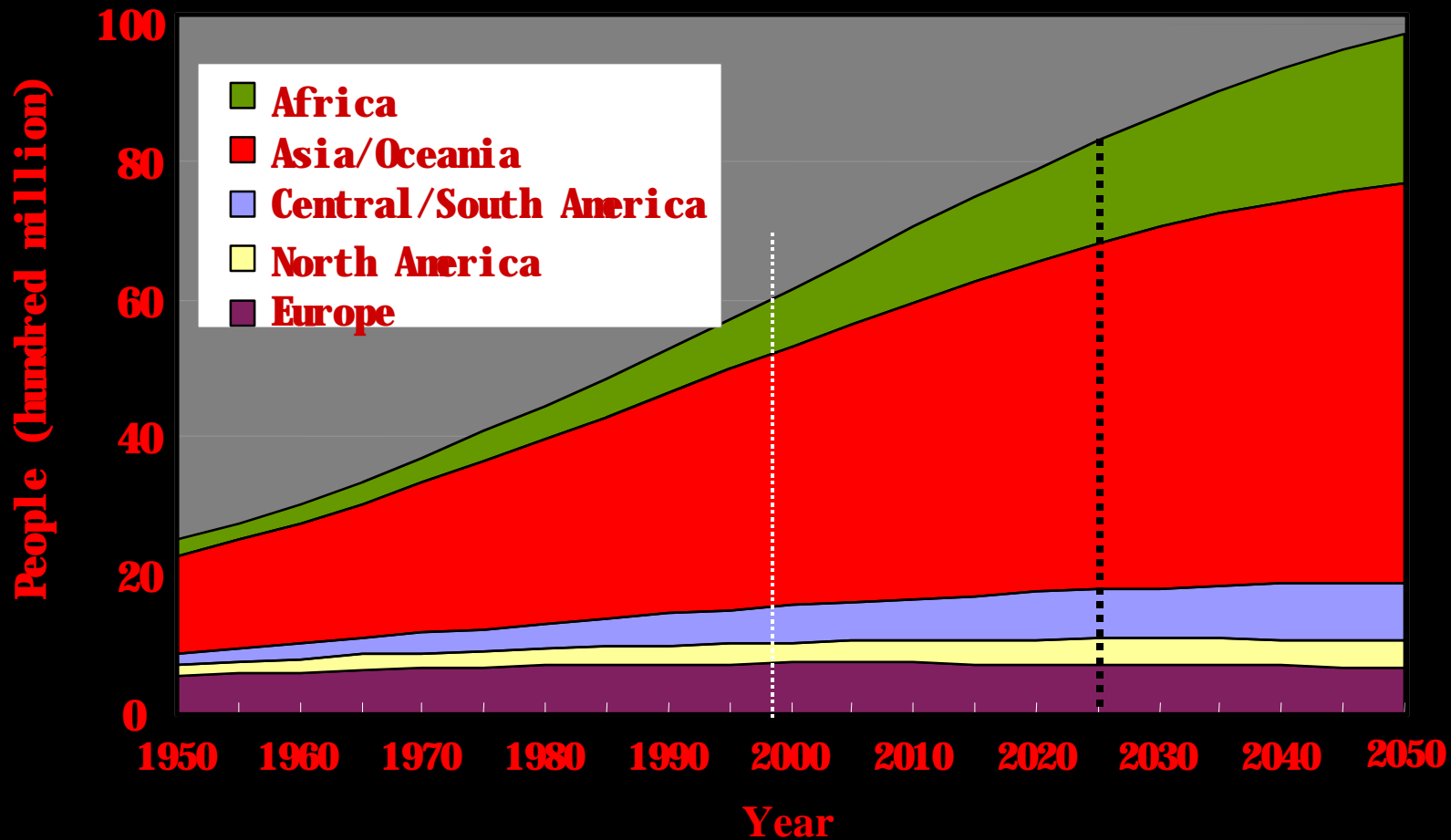
New York

Current of Environmental Energy problem



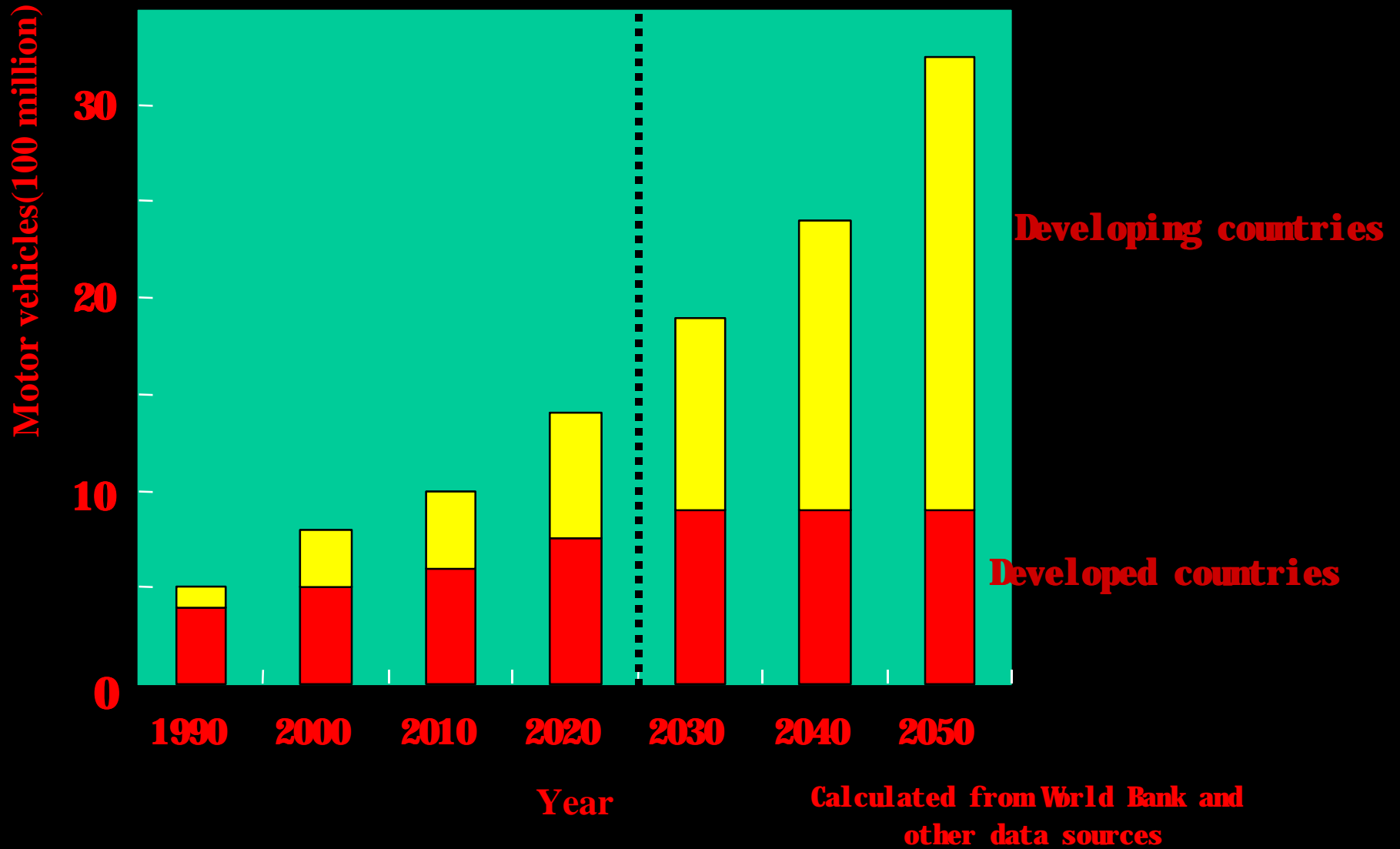
World Population Outlook

8 billion people in 2025

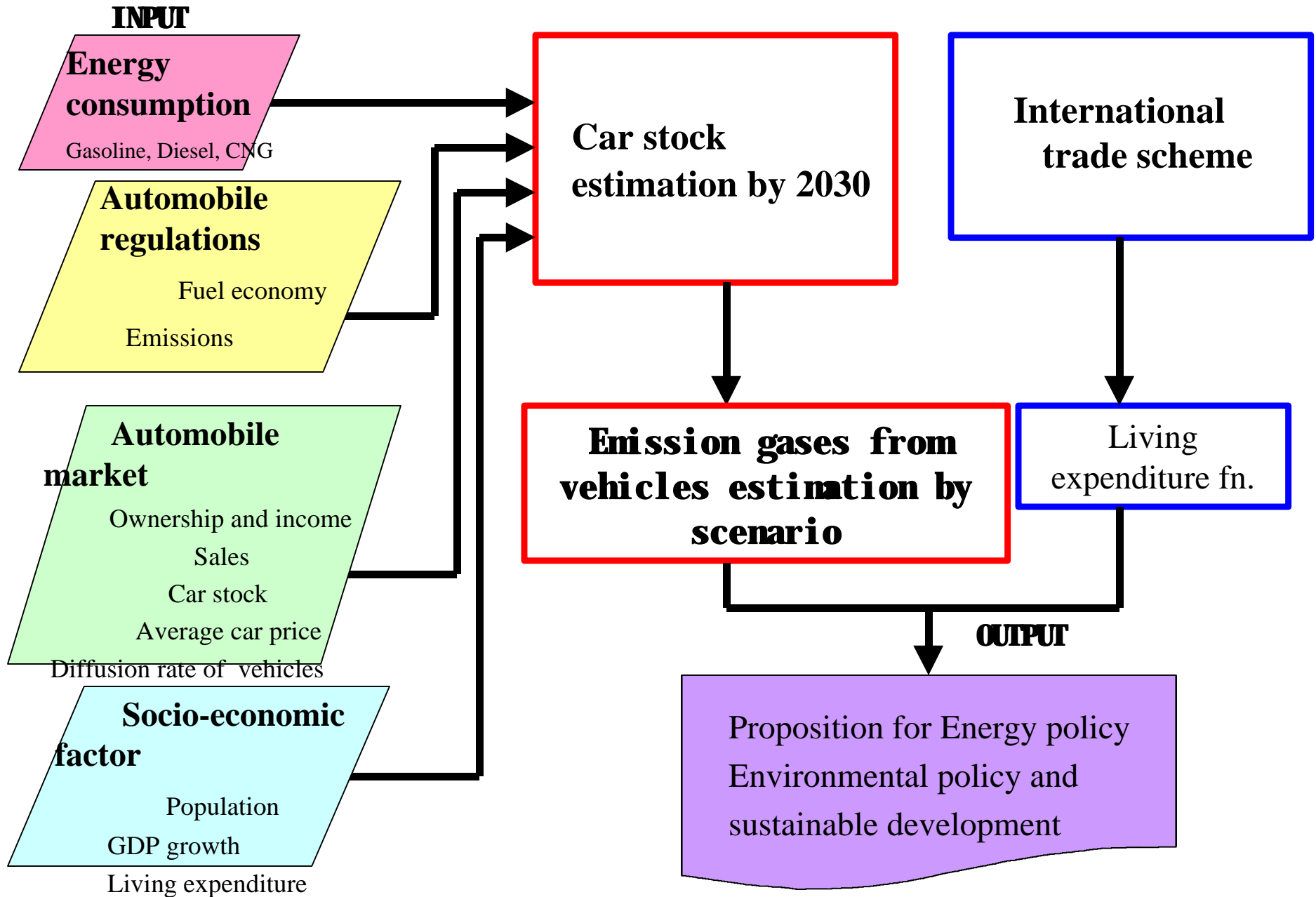


Motor vehicles in Use Outlook

1.5-2 billion vehicles in 2050

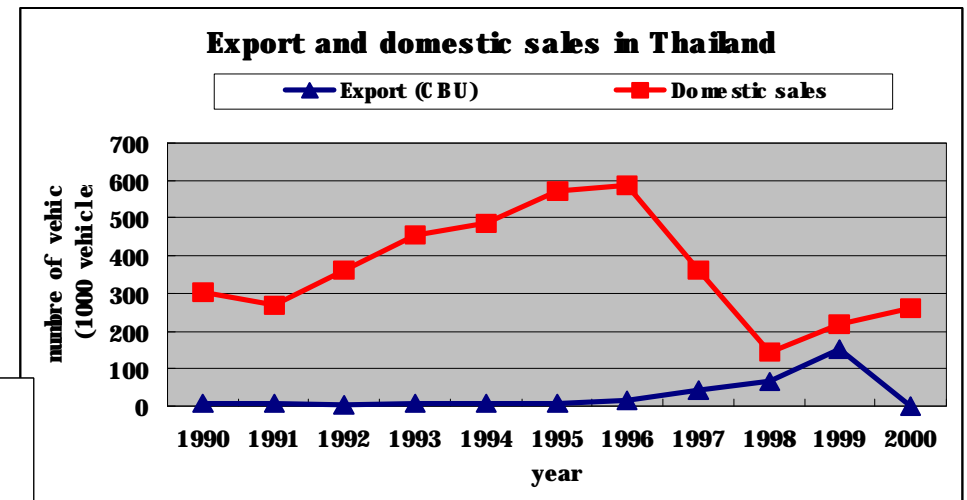
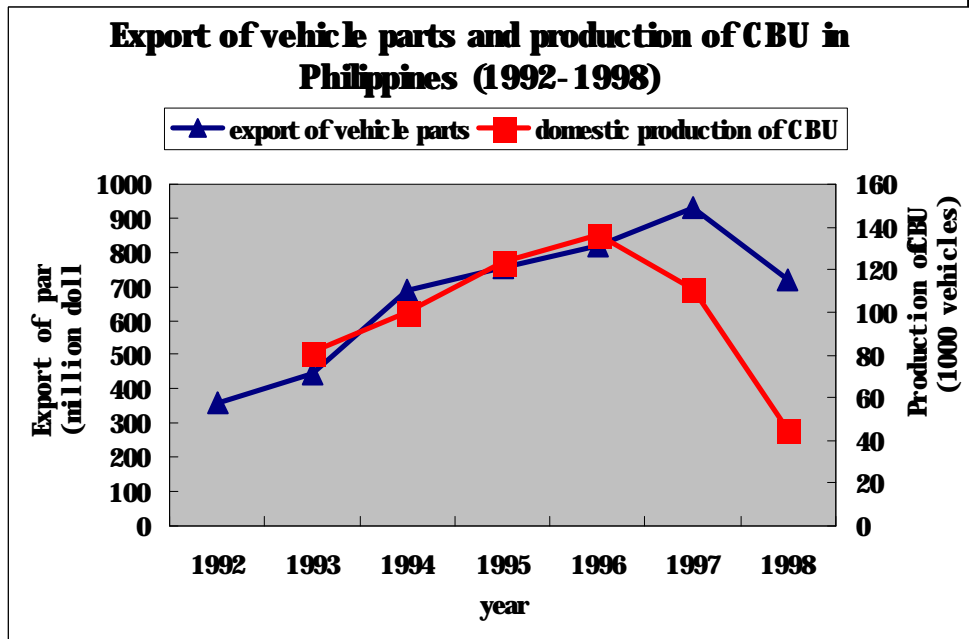


Flowchart of Asia JARI model



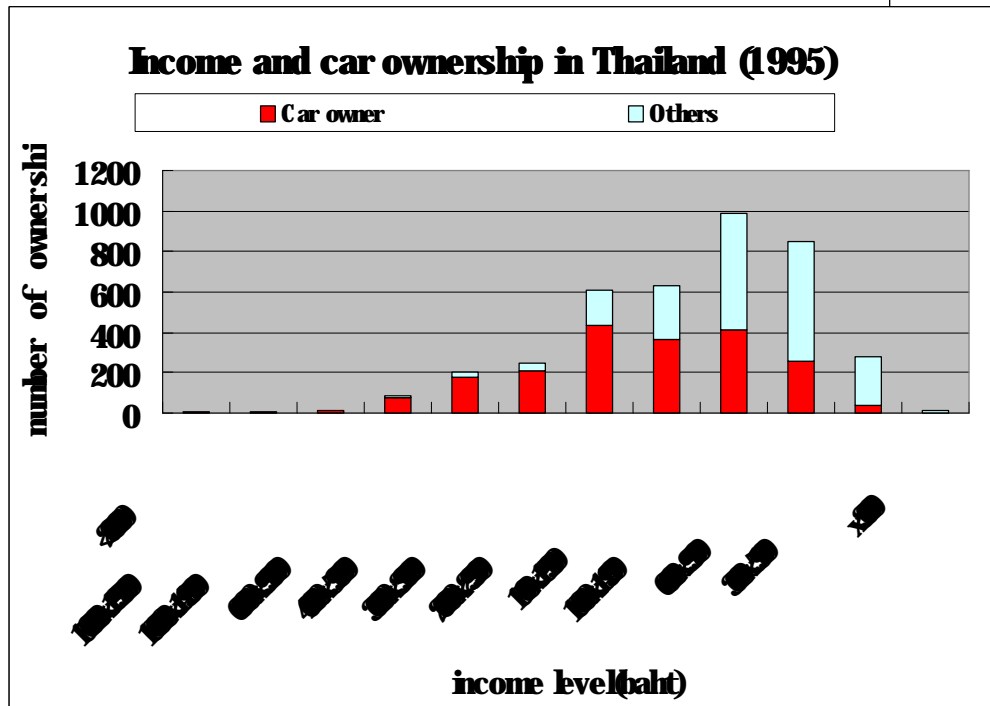
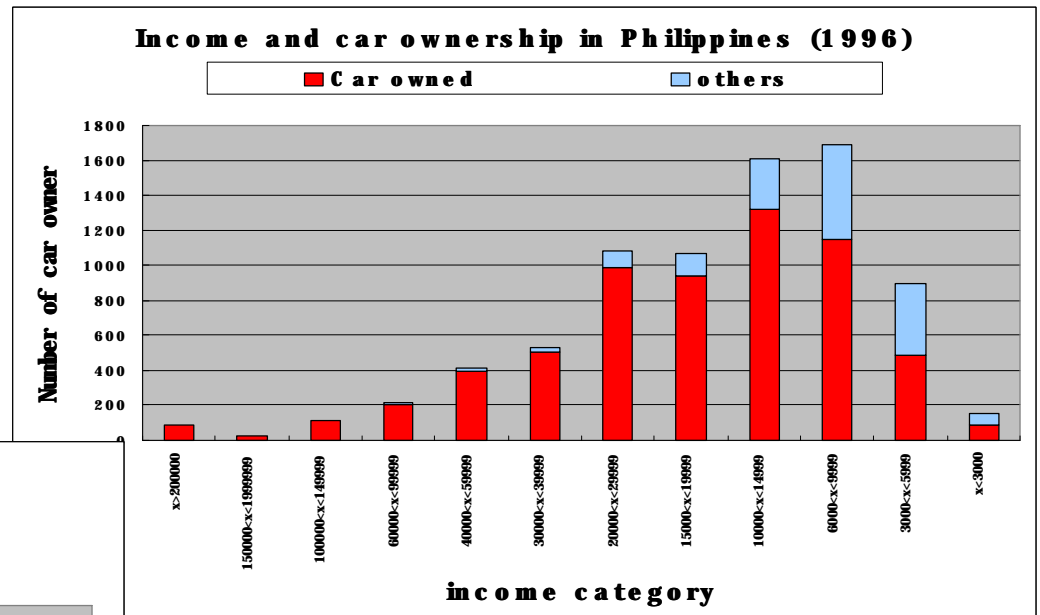
Socio-economic factor of automobile sector in the case of Thailand and Philippines

- From import substitution to export led economy



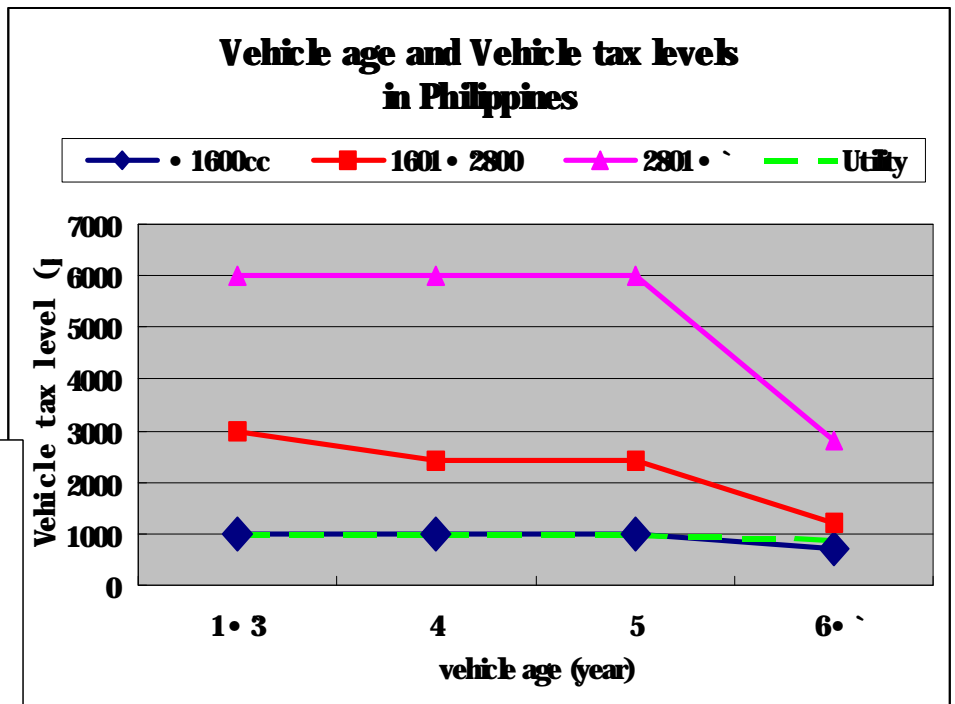
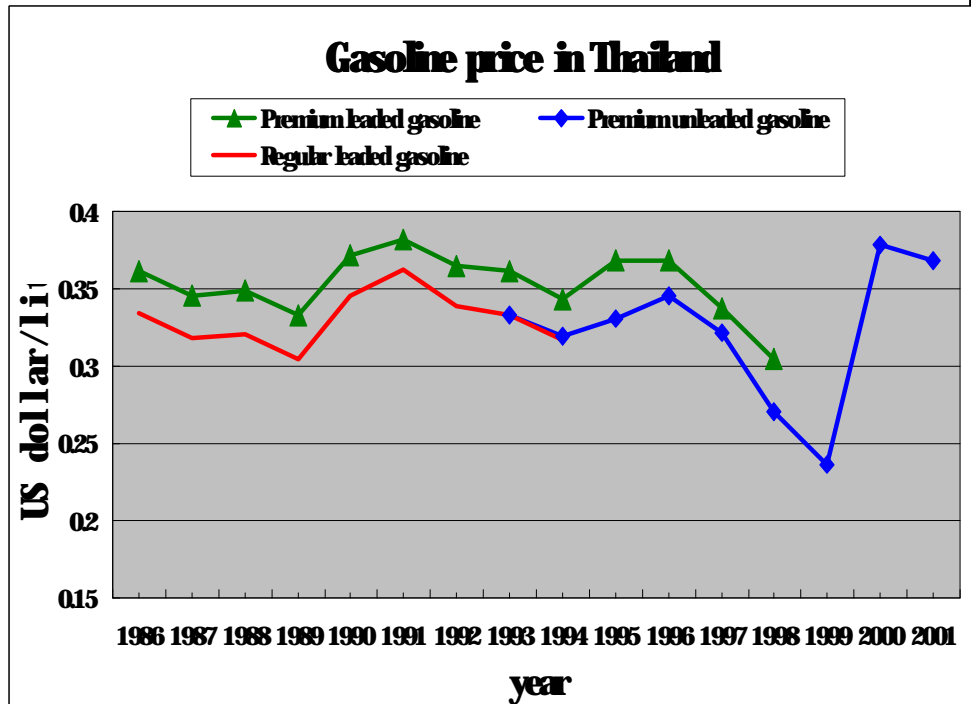
Socio-economic factor of automobile sector in the case of Thailand and Philippines

- Car stock increases by income growth

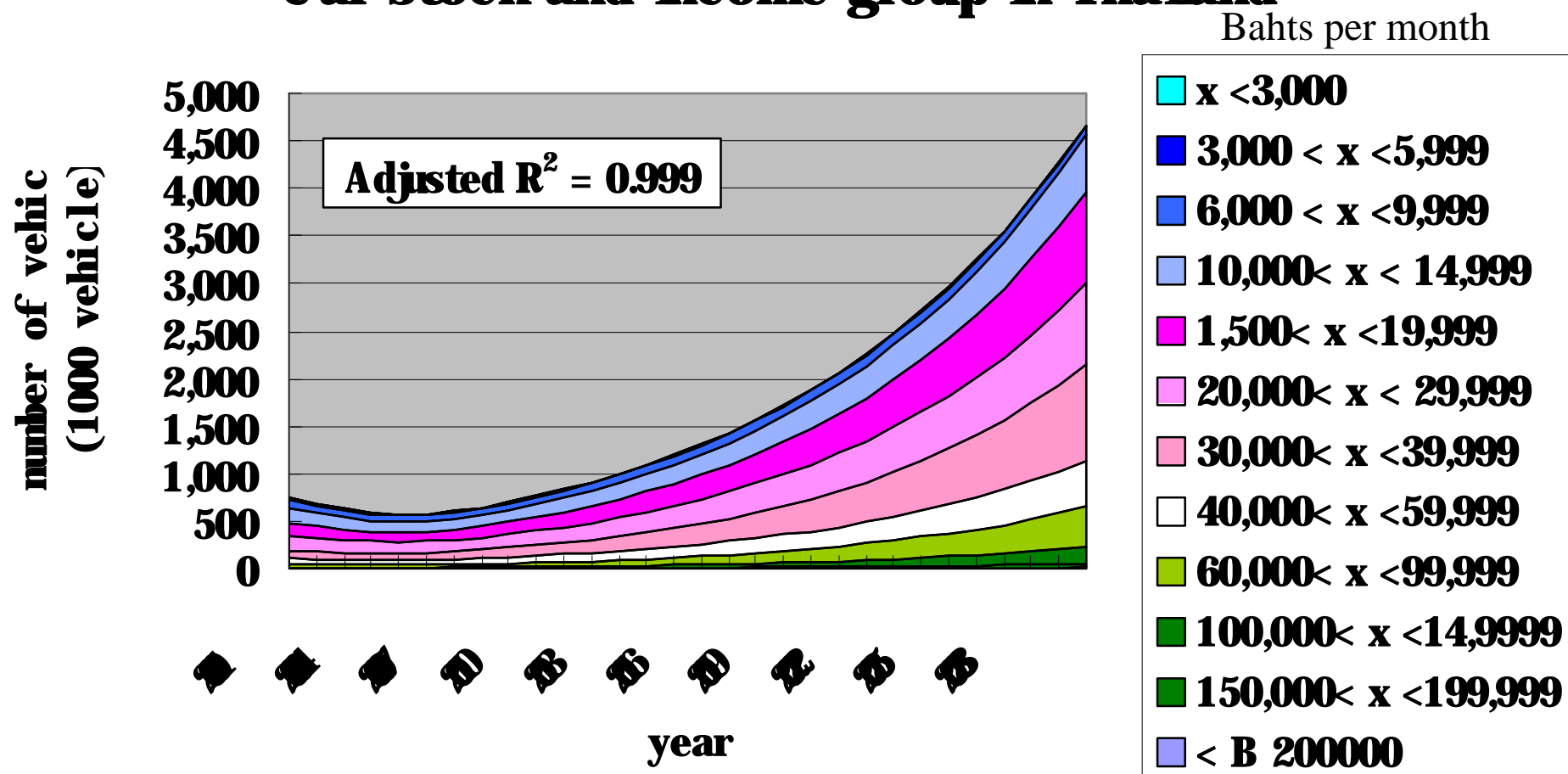


Socio-economic factor of automobile sector in the case of Thailand and Philippines

- Vehicle and fuel taxes reform are needed towards emission reductions



Car stock and income group in Thailand



Conclusion:

What we learn from the case of Thailand and Philippines?

- Vehicle tax reform (Philippines)

Newer car, lower tax level

=>shorter vehicle age

- Fuel tax differentiation (Thailand)

Unleaded gasoline price < Leaded gasoline price

=>penetration of unleaded gasoline

Introduction of MBI

in accordance with income growth