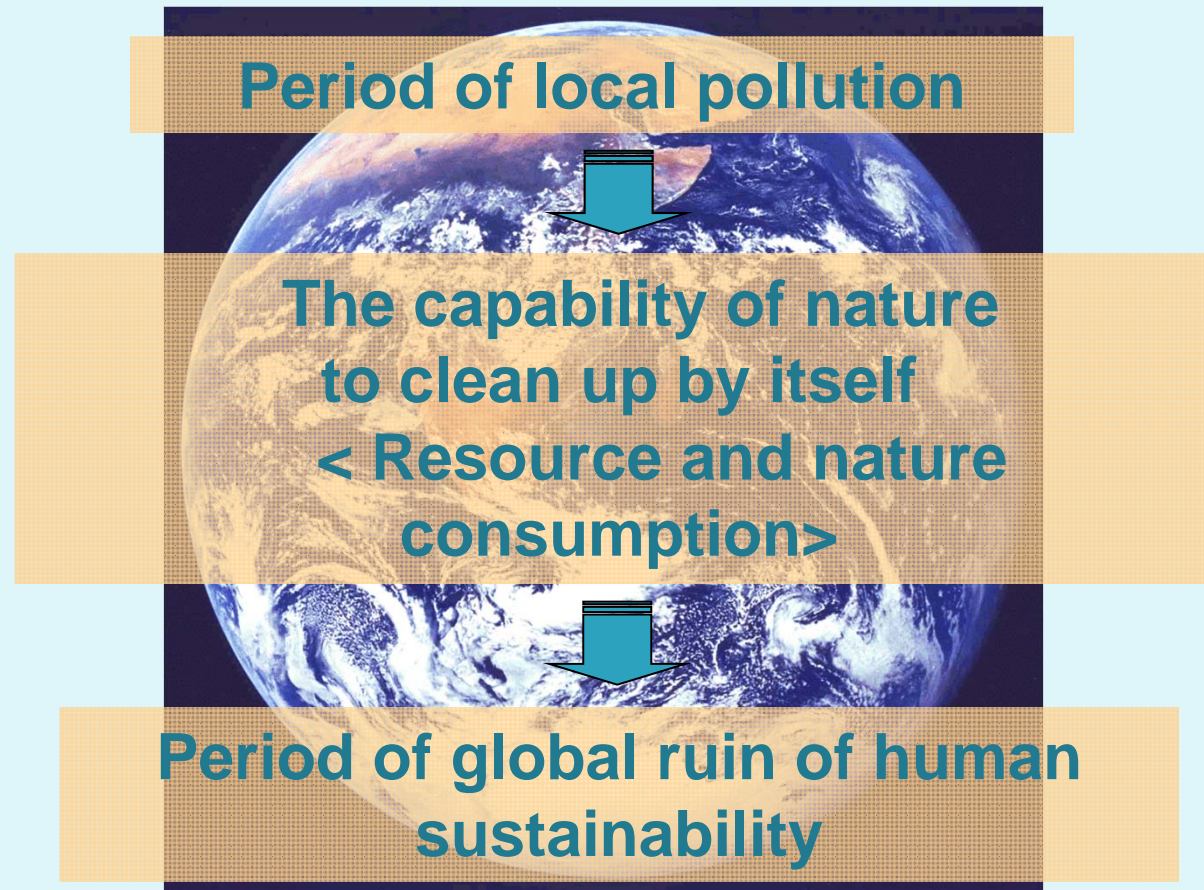


“Spaceship Earth”: Boulding, Kenneth E.(1966)



Rapid Growth in Asian Developing Countries

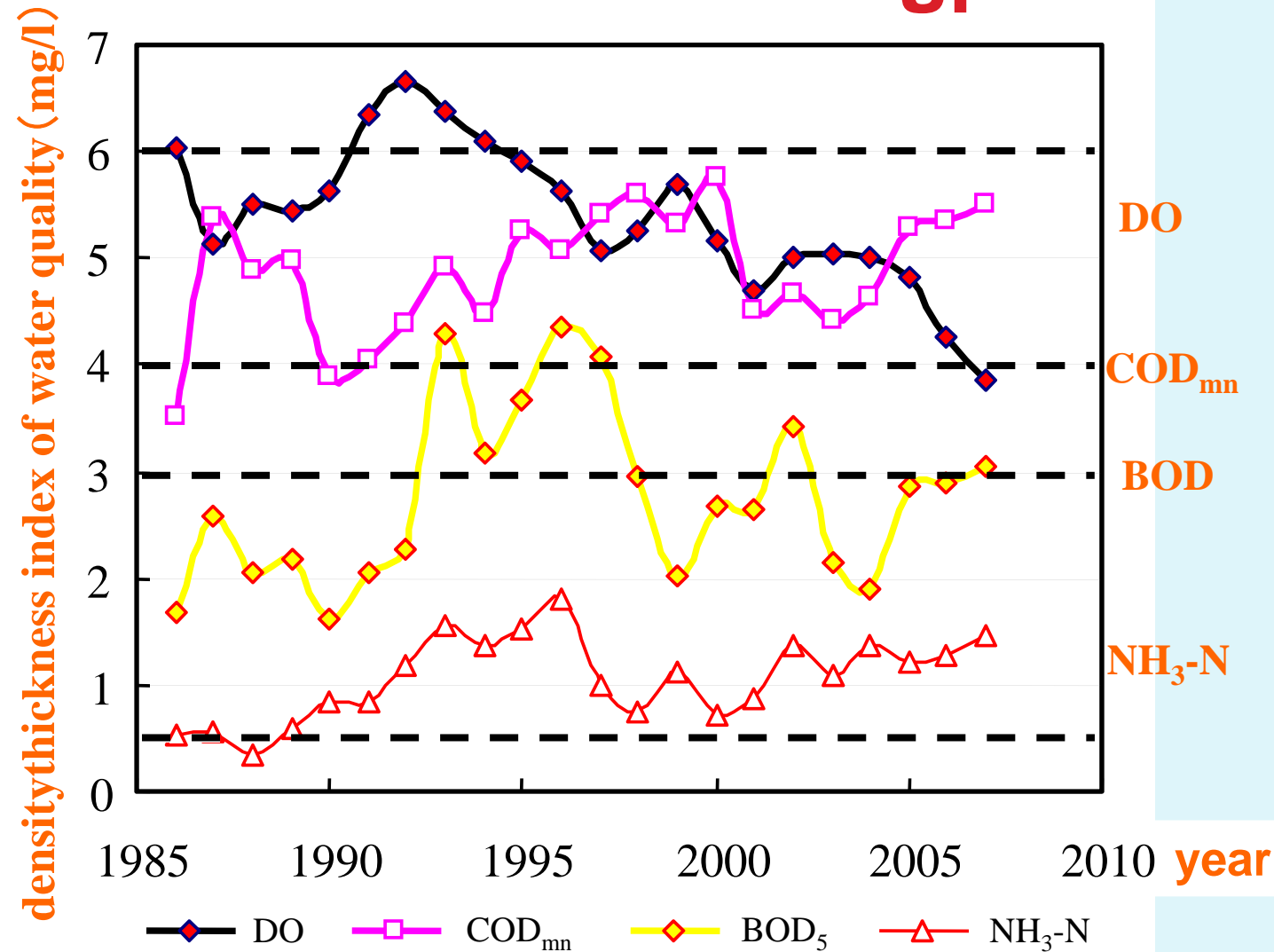
- Skyrocketing Increase in Car Ownership (20 times in 2050)
- Less Power to Self-finance Railways in Mega-cities
- Increasing Mega-cities (50 or more in 2050) without Railway Systems
 - Another many Catastrophic Congestion like Bangkok in 90's
- Unacceptable Increase in CO₂ from Urban Transport

What do the Changes of Economic, Geographic and Demographic Factors Mean ?

- Rapid Growth in Asian (Current) Developing Countries
 - Rich people with poor infrastructure
- Westernization of Society in Asian Developing Countries
 - Aging, Recession & Unemployment, Nuclear Family
- Vulnerability of Society → Difficulty in Adaptation
 - Poverty
 - Aging → Less Potential Economic Power

Prescription

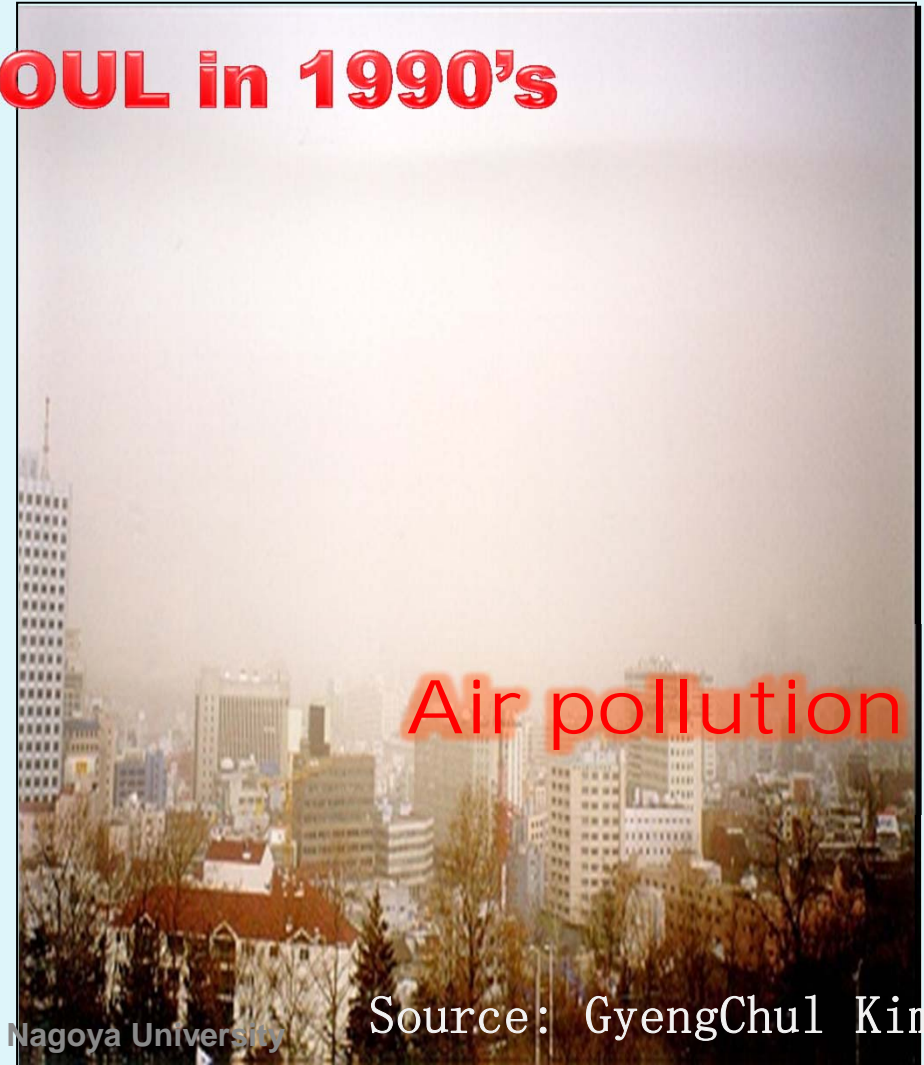
Changing Quality of Water in source area of Huangpu River



Challenges for Low-carbon Transport Sector

Failure of Urban Transport System

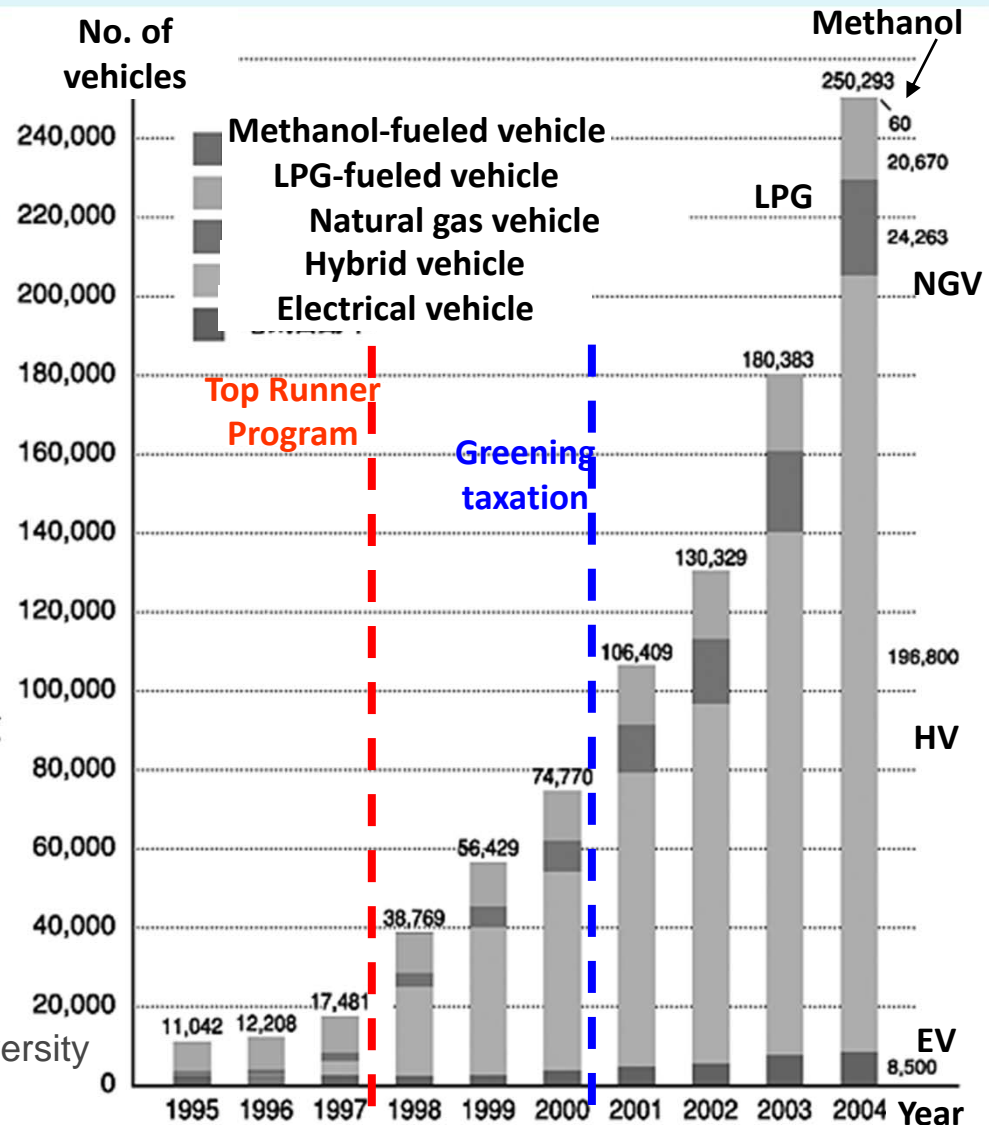
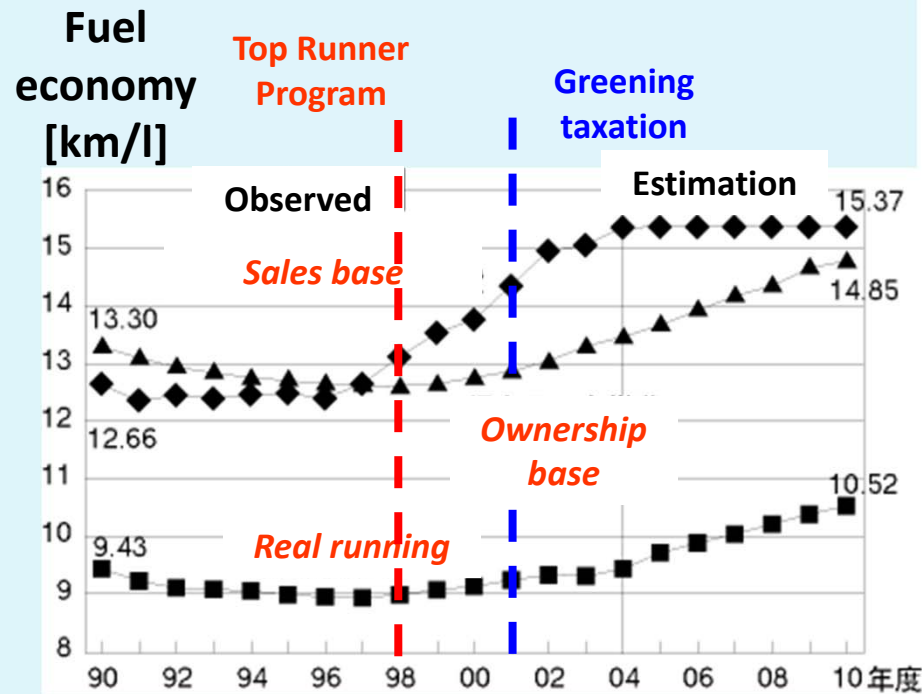
Gridlock of SEOUL in 1990's



Innovation of Transport System

Effects of Tax and Subsidy Policies

Yoshitsugu Hayashi,
Nagoya University

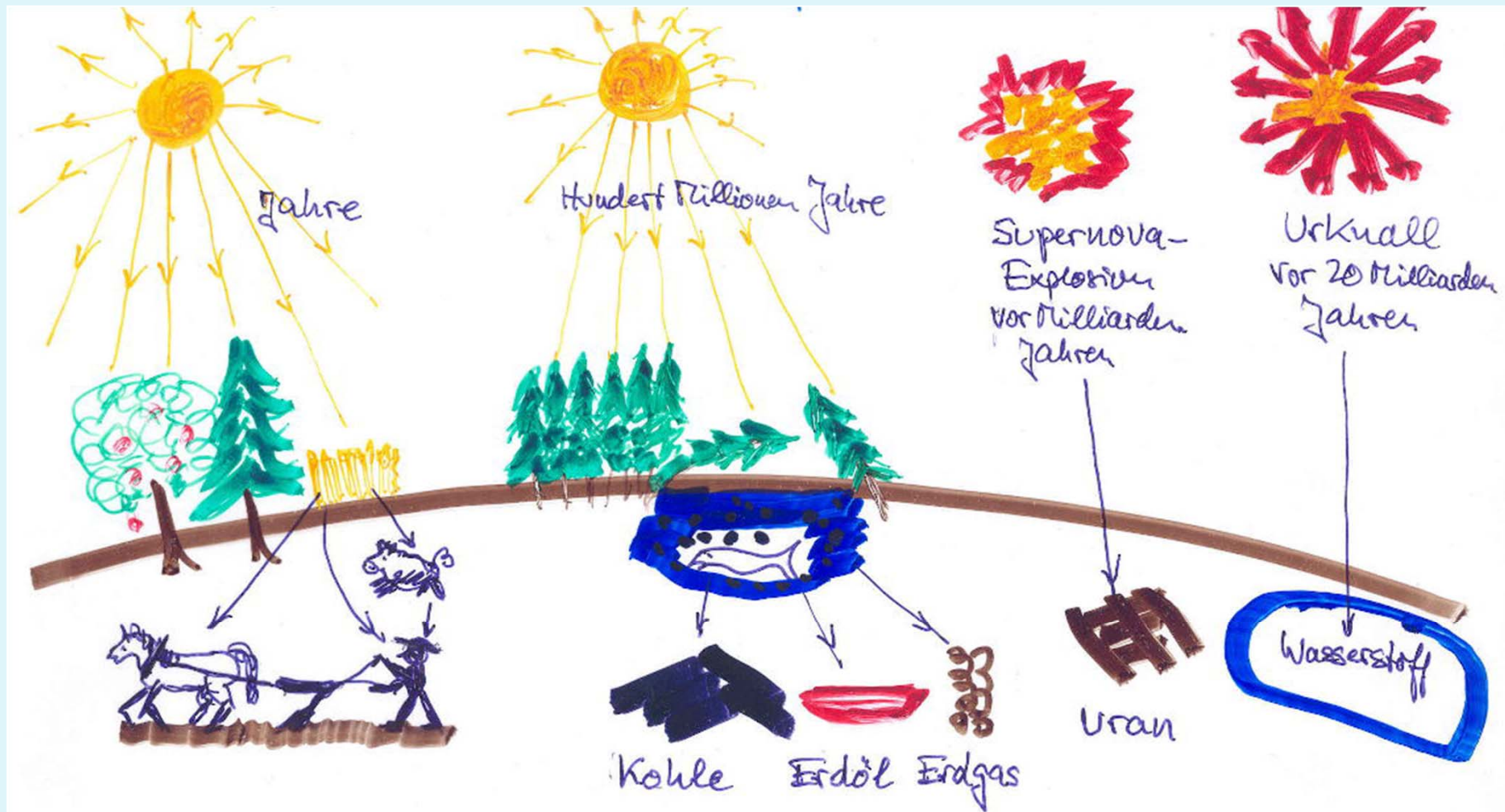


Yoshitsugu Hayashi, Nagoya University

Review of Effects of Past Prescription

Hans-Peter Duerr's Theory of Eco-balance and Sustainability

Islands of high Syntropy on Earth



Plants-Animals-Human Beings

Fossile Fuels

Nuclear Energy

Yoshitsugu Hayashi, Nagoya University

60

Source: Hans-Peter Duerr