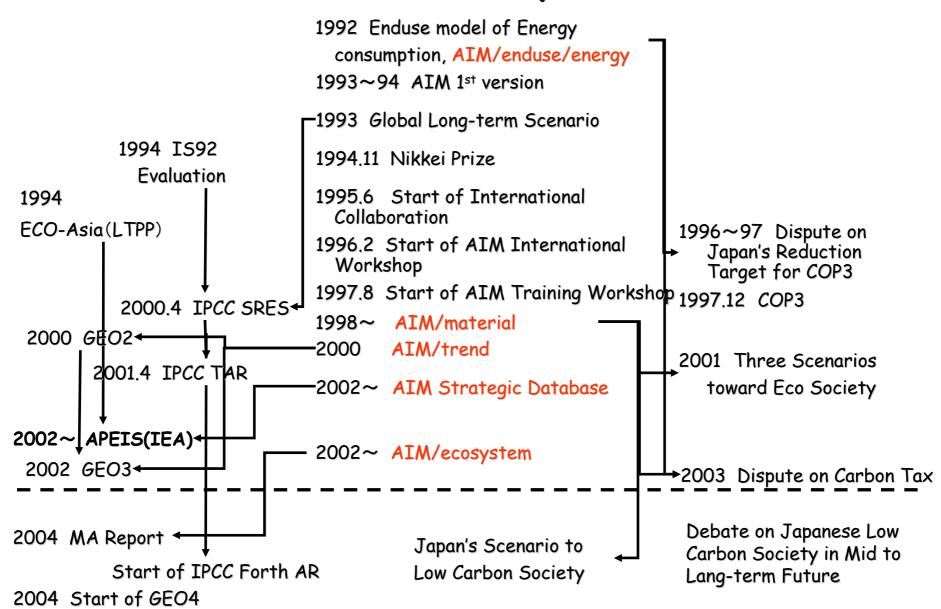
# Overview of AIM

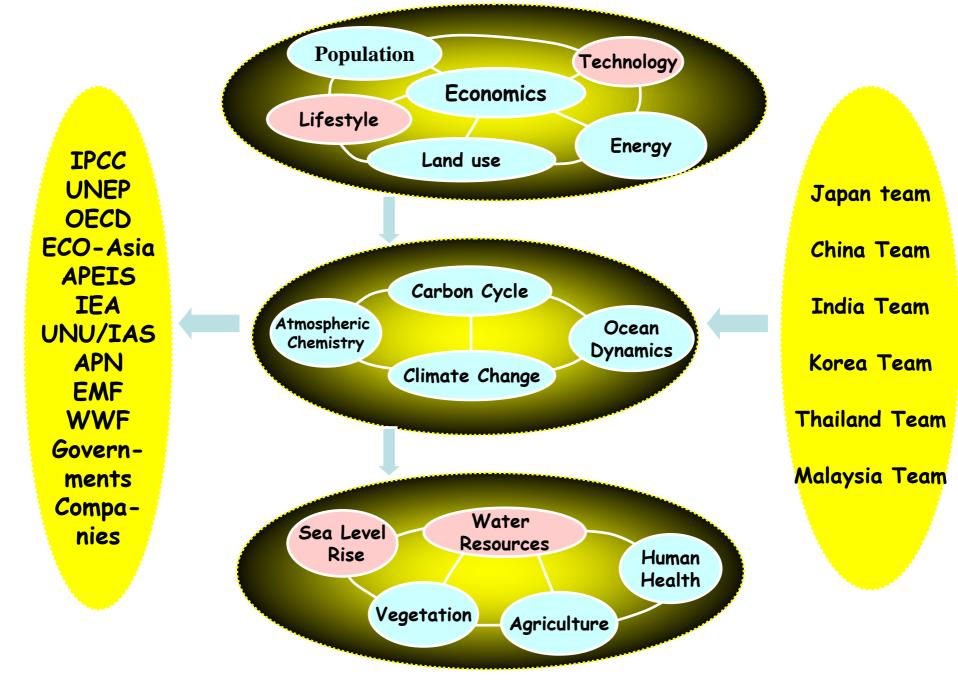
APEIS Training Workshop November 25, 2004 NIES, Tsukuba

Mikiko Kainuma

# AIM, Past and Future

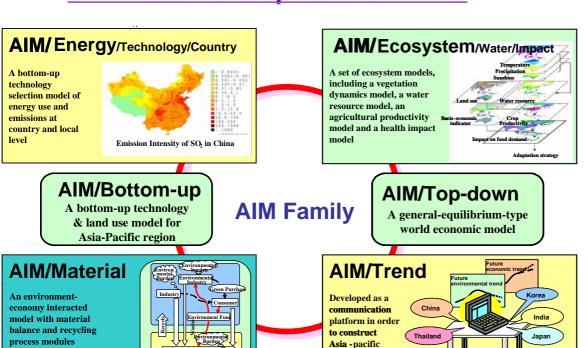
1990.7 Start of AIM Project





# Integrated Environmental Assessments (IEA)

#### AIM Model Development for APEIS



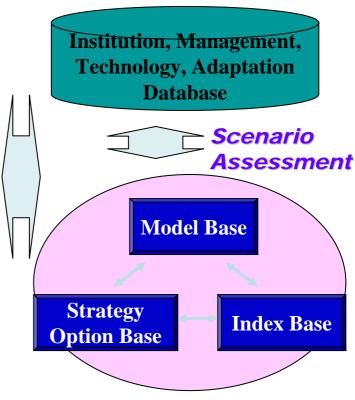
ent**T I** Technology n

regional environmental

outlook supported with

multi -regional environment -economic CGE model

Strategic database



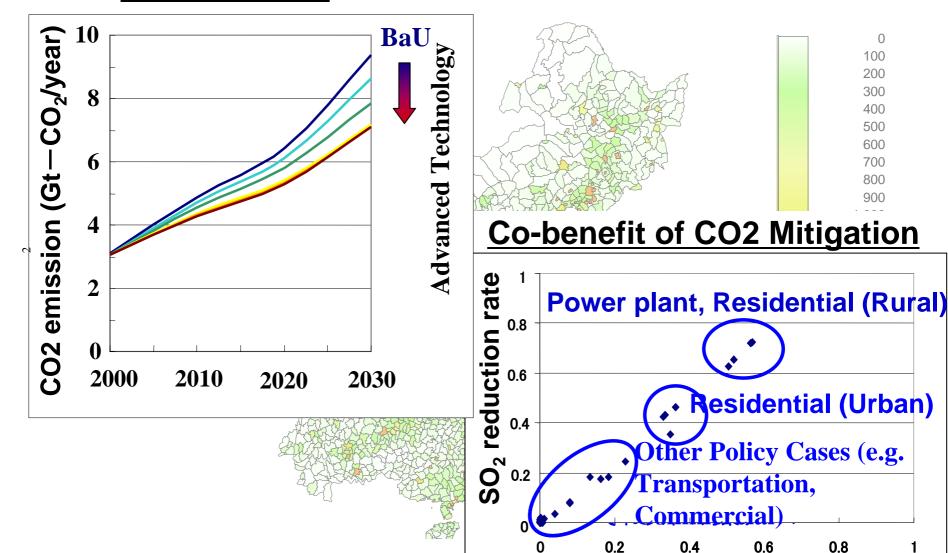
# Problems, IEA tools, Policy Instruments

Global Local **Transboundry Air pollution, Local Air pollution, Water** pollution, Solid wastes Oil-spill Short-AIM/Energy, Water, Top-down AIM/Energy, Water, Material term CDM, Technology transfer Recycling, **Ecosystem conservation** Trade (Agriculture, ..) Water stress, Deforestation Climate change, Ozone AIM/Ecosystem AIM/Energy, Top-down, SDB Long-**Environmental industry** Carbon-trading term **Adaptation fund** Insurance

(Examples)

#### **CO2 Emissions Projection in China**

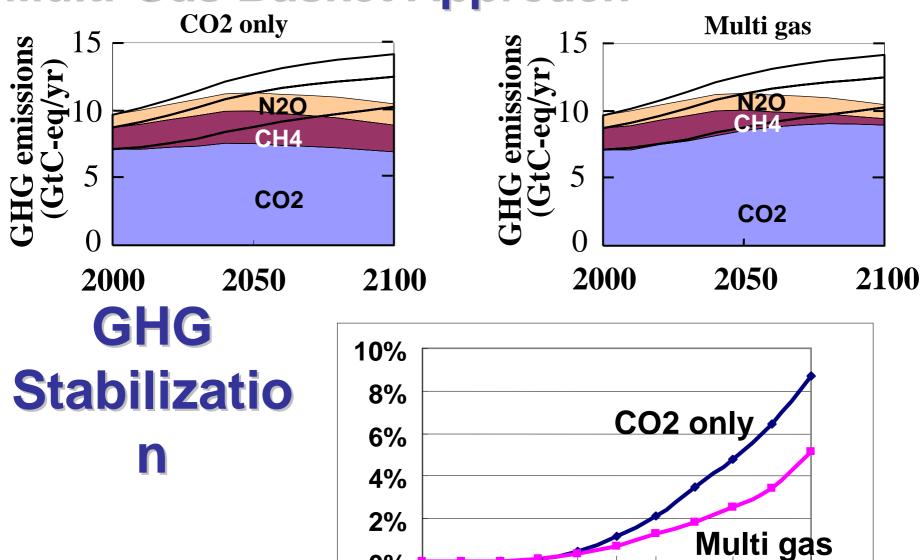
#### **CO2** Emissions



CO<sub>2</sub> reduction rate

CO2 emission intensity in 2010

# **Multi-Gas Basket Approach**



0%

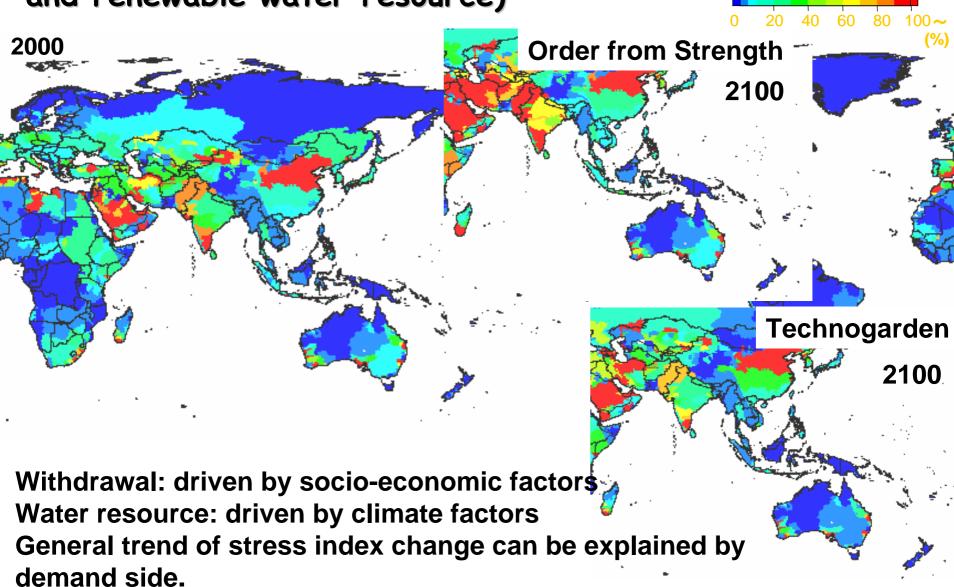
2000

2050

**GDP Loss** 

2100

Water Stress Index (ratio between total withdrawal and renewable water resource)



## Technology Innovation

Japanese companies have started to invest in about 400 technologies in the environmental field

Technology transfer to developing countries (Leapfrogging)

- Zero-emission technologies
- Information technologies
- Bio-technologies
- Nano-technologies, etc.

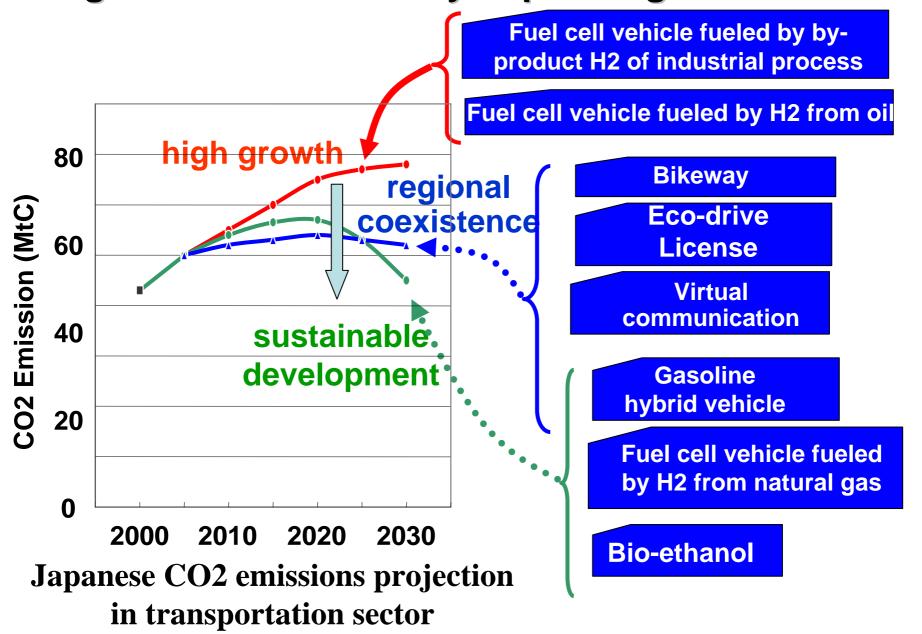
- Hybrid Vehicle
- Bio-Ethanol
- Water treatment
- Photovoltaic

#### **Institutional Innovation**

Managed and unmanaged areas in Rajasthan



### Mitigation measures vary depending on scenarios



# AIM as Interactive Participatory Tool

