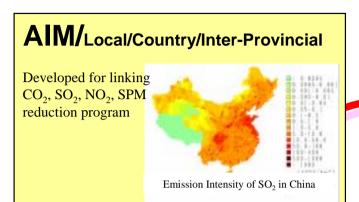
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Overview of AIM Modeling

AIM Project Team Mikiko Kainuma (NIES, Japan)

Recent Activities of AIM Team



Detailed process model for climate change impact assessment focused on surface water recycling, crop productivity and vegetation Temperature Precipitation Sunshine Land use Water resource Crop Productivity Impact on food demand Adaptation strategy

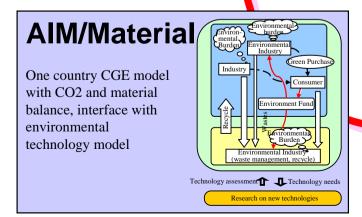
AIM/End-use

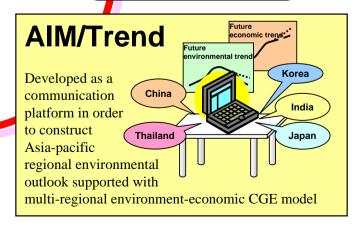
Country Based Technology Model

AIM Family

AIM/Top-down

World Economic Model





Recent Activities of AIM Team

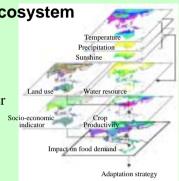
Develope CO_2 , SO_2 reduction

Assess impact of climate change

water, agriculture, vegetation, economy, ...

AIM/Impact/Ecosystem

Detailed process model for climate change impact assessment focused on surface water recycling, crop productivity and vegetation



AIM/End-use

Country Based Technology Model **AIM Family**

AIM/Top-down

World Economic Model

Focus on both supply side & demand side

Assess more efficient technologies

Technology assessment T. . It. Factorings needs (Instances a meeting managers)

Global CGE model

Assess cost of CO2
reduction and
benefit of mitigation
policies

multi-regional environment-economic CGE model

Recent Activities of AIM Team

Developed for linking CO₂, SO₂, NO₂, SPM reduction program Emission Intensity of SO₂ in China

City, county or country scale model
Database + end-use + GIS
Assess co-benefit of CO2 and air pollutant reduction

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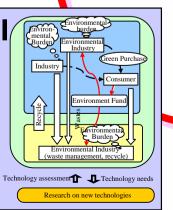
Country based CGE
Integration of CO2
reduction & material flow

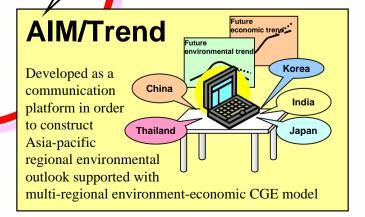
AIM Family

Communication tool for policy makers to assess environmental policies

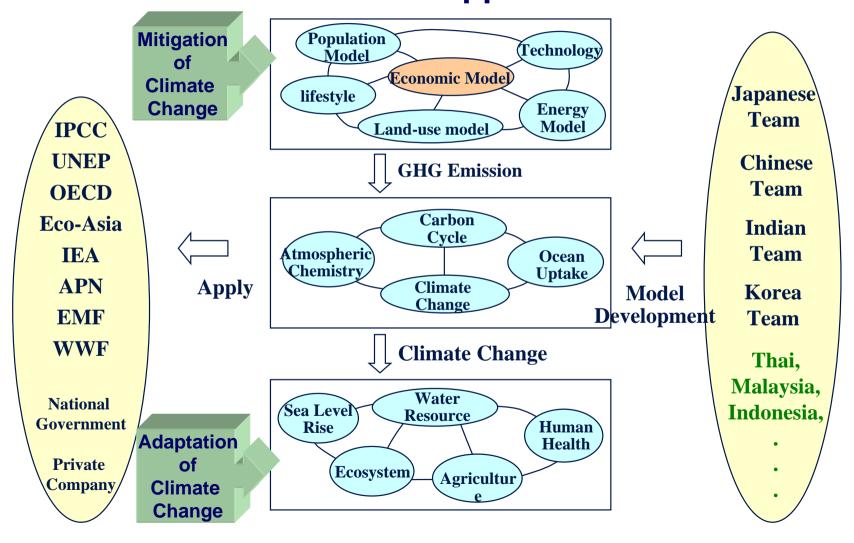
AIM/Material

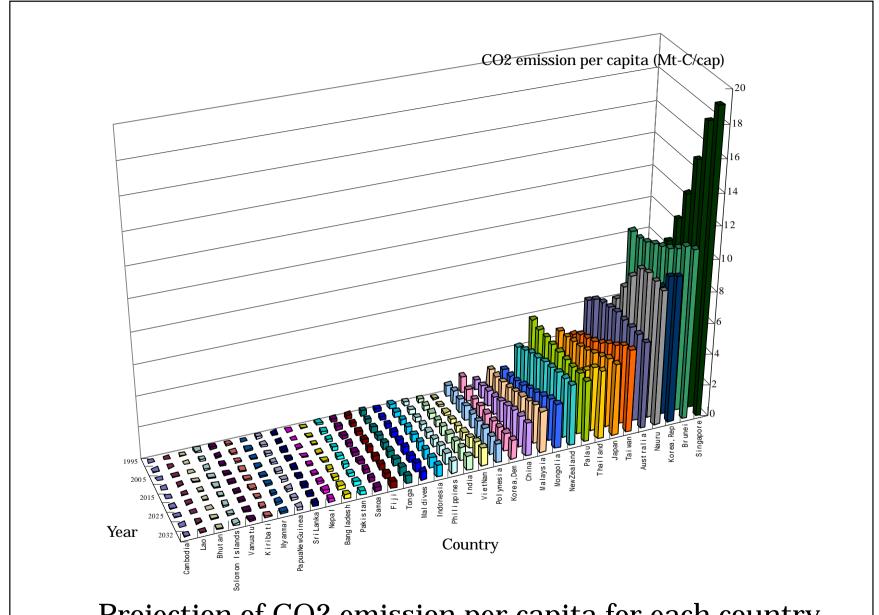
One country CGE model with CO2 and material balance, interface with environmental technology model



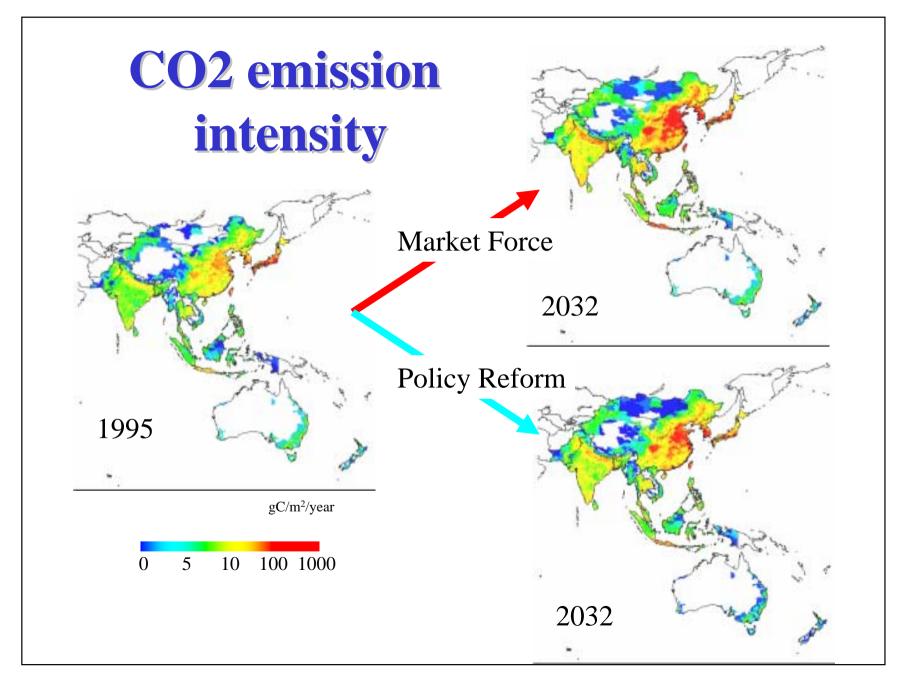


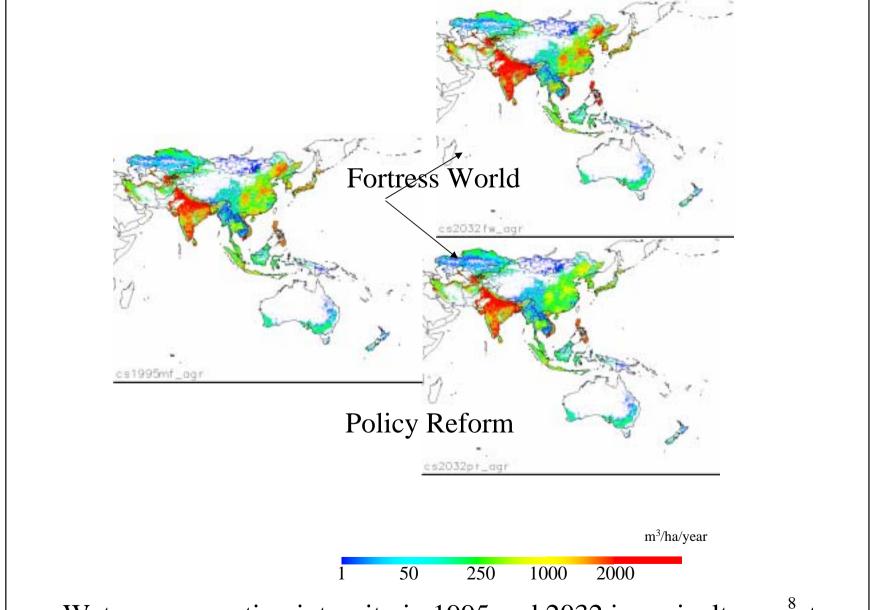
Integrated Assessment Model of Climate Change: The AIM Approach





Projection of CO2 emission per capita for each country





Water consumption intensity in 1995 and 2032 in agriculture sector

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Session I: Opening

Session II: Emission Inventory and Modelling

- AIM/Trend
- Emission Inventory and Modelling in China
- Emission Inventory and Modelling in India

Session III: Emission Inventory and Climate Change

- Emission Inventory in Malaysia
- CO₂ Reduction Policy in Selected Asian Countries
- Russia's Climate Policy

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Session IV: Impact Modelling

- Recent Development of AIM/Impact Model
- Database for AIM (Impact Model)/ China
- Impact Assessment of Forest Influenced by Changing Global Climate

Session V: Land Use and Impact Modeling

- Impact Model Development
- AIM/Water
- Modeling Agriculture and Land Use

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Session VI: Modelling in the Asia and Pacific Region

- AIM/Country
- AIM/Provincial and Inter Provincial
- AIM/Database

Session VII: Environmental Innovation Strategies in the Asia-Pacific Region

Session VIII: Modelling of CO2 Emission, Wastes and Material

- Application to Korea
- Modeling of Household Waste Generation Treatment by Bottom-up Approach
- AIM/Material
- Agriculture and Land Use

Session IX: Future Direction of AIM Modeling

Thank you