

The 8th AIM International Workshop
13-15 March 2003
NIES, Tsukuba, Japan

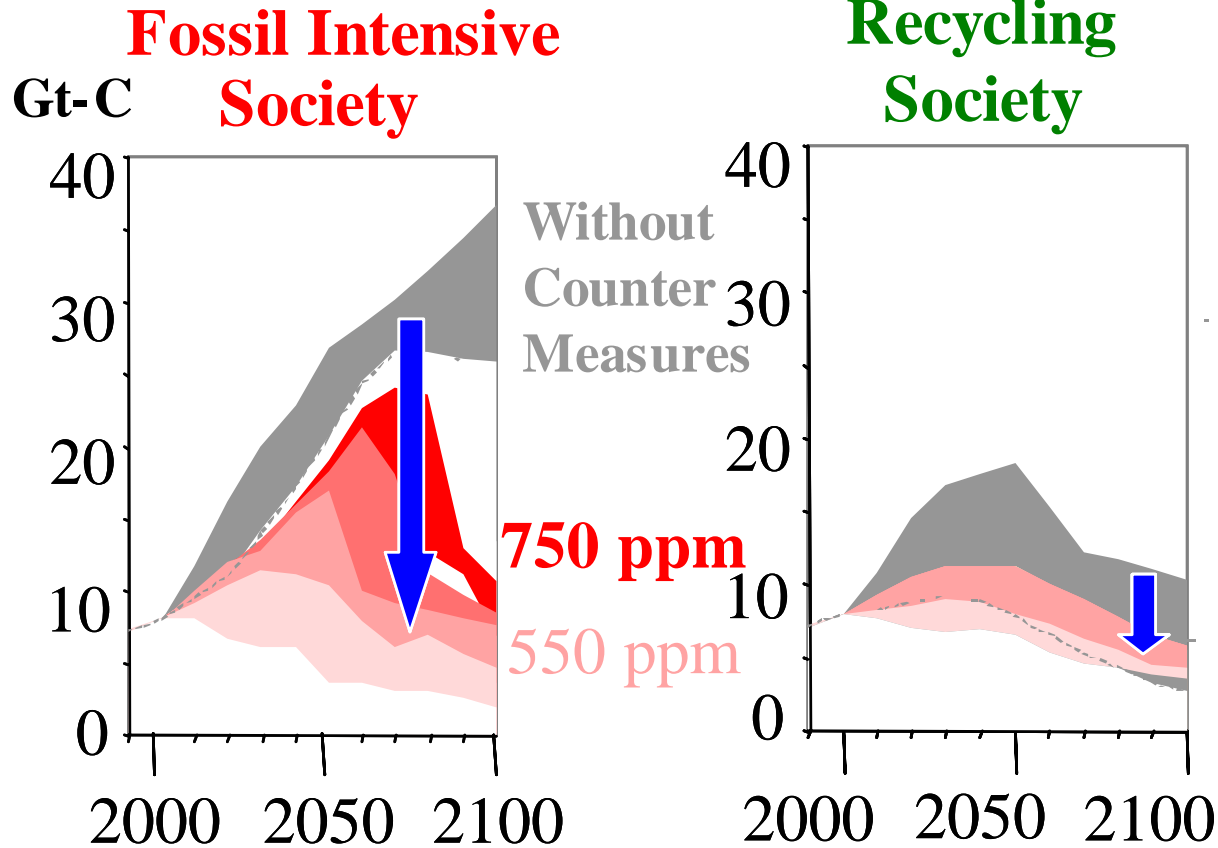
Recent Development of AIM Models

Mikiko Kainuma

National Institute for Environmental Studies

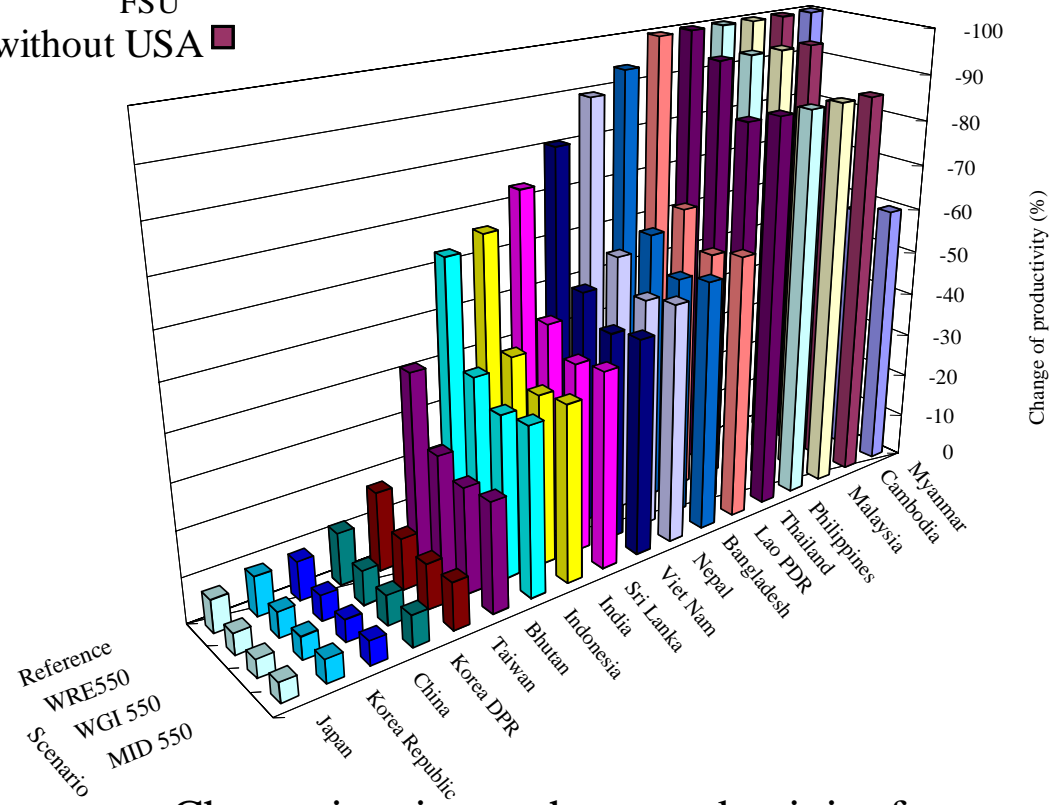
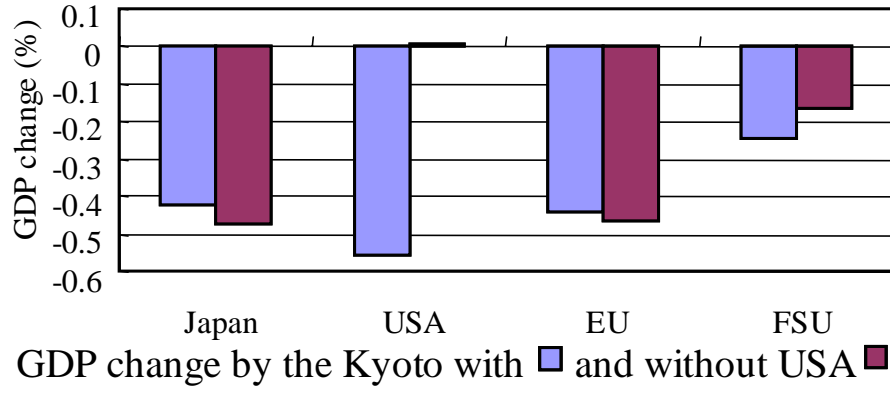
AIM/Emission-Linkage

AIM/Bottom-up, AIM/Energy-Economics,
AIM/Land-Equilibrium



Global CO₂ emissions and reduction for stabilization

AIM/CGE (Energy)

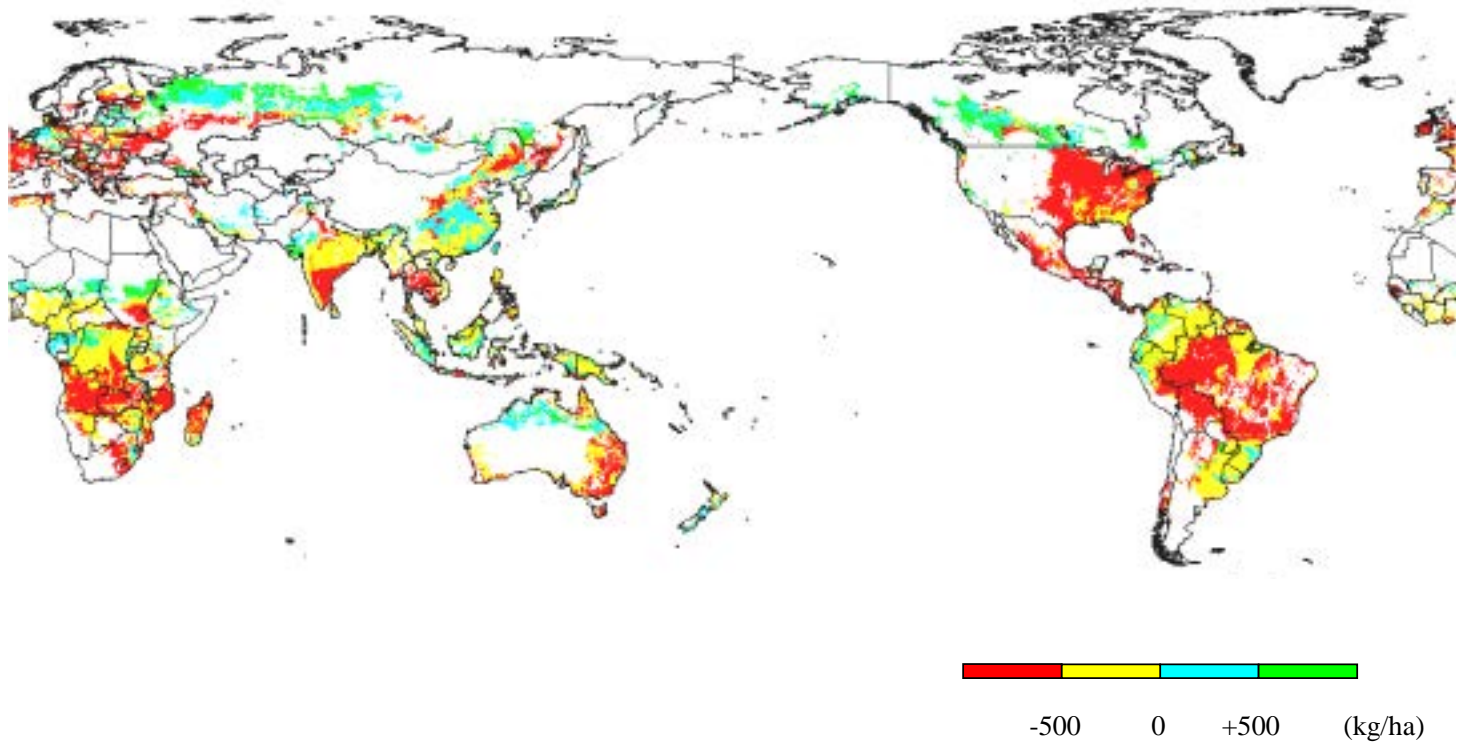


Change in winter wheat productivity from 1990 to 2100

AIM/Climate

Atmospheric model, UD Ocean model

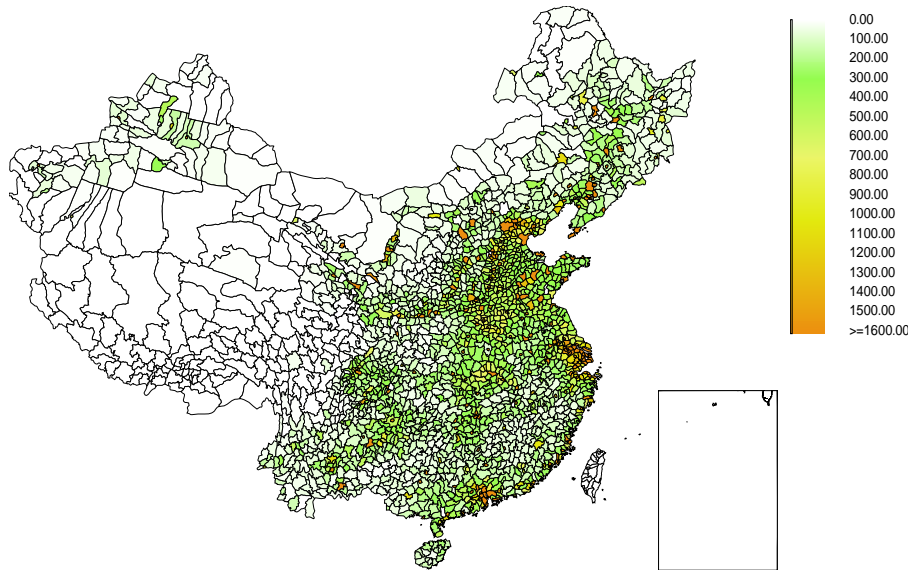
Radiative forcing model, GCM-RegCM interface



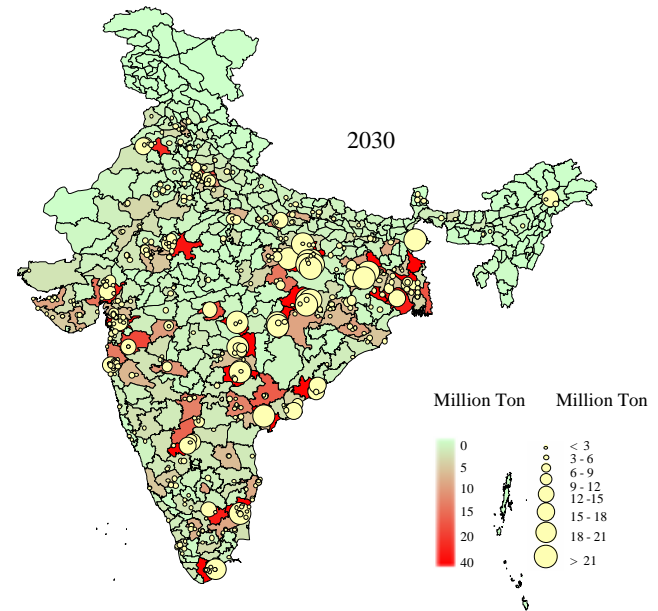
Changes in potential productivity of rice

AIM/Enduse

China, India, Korea, Thailand, Malaysia,
Vietnam, Bangladesh

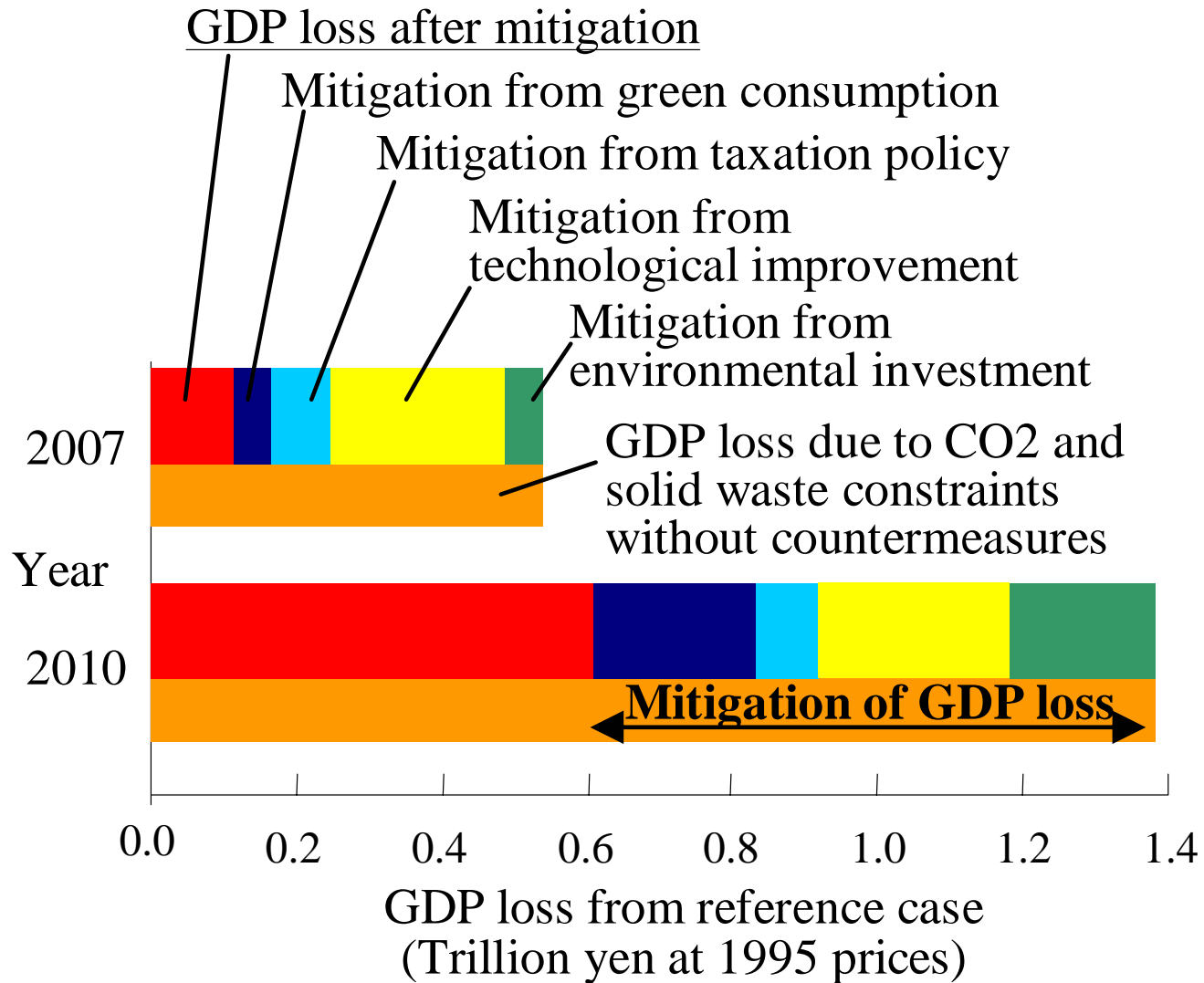


CO₂ emission intensity
for 2010 in China



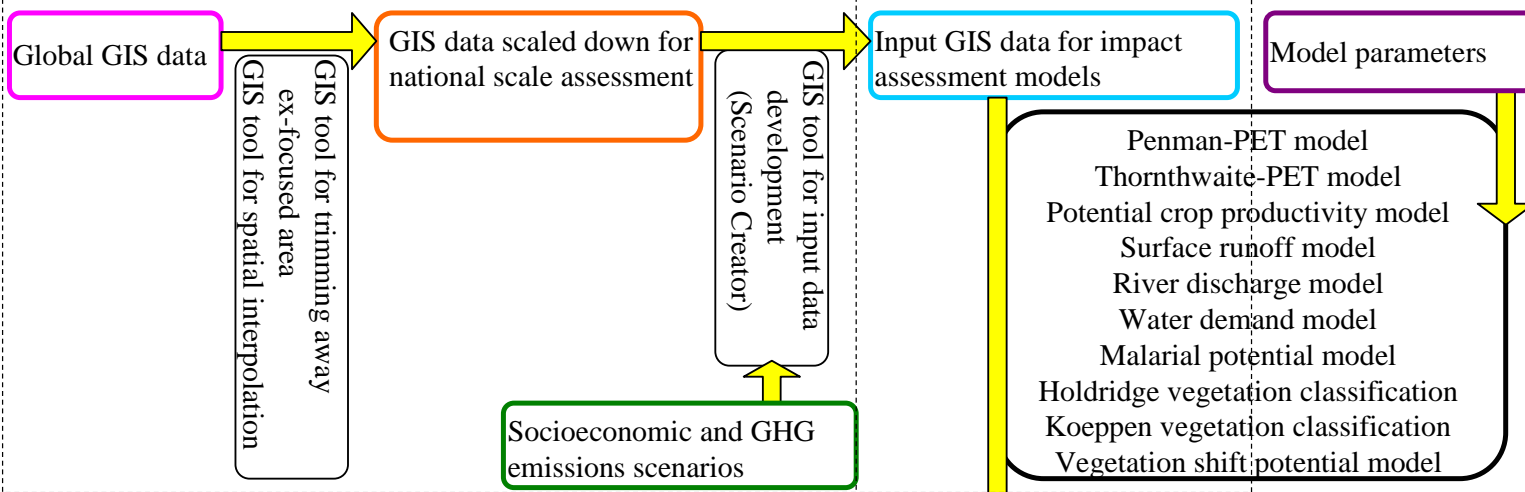
Regional distribution of CO₂
emissions in India for 2030 in
reference scenario

AIM/Material (Japan, India, China)



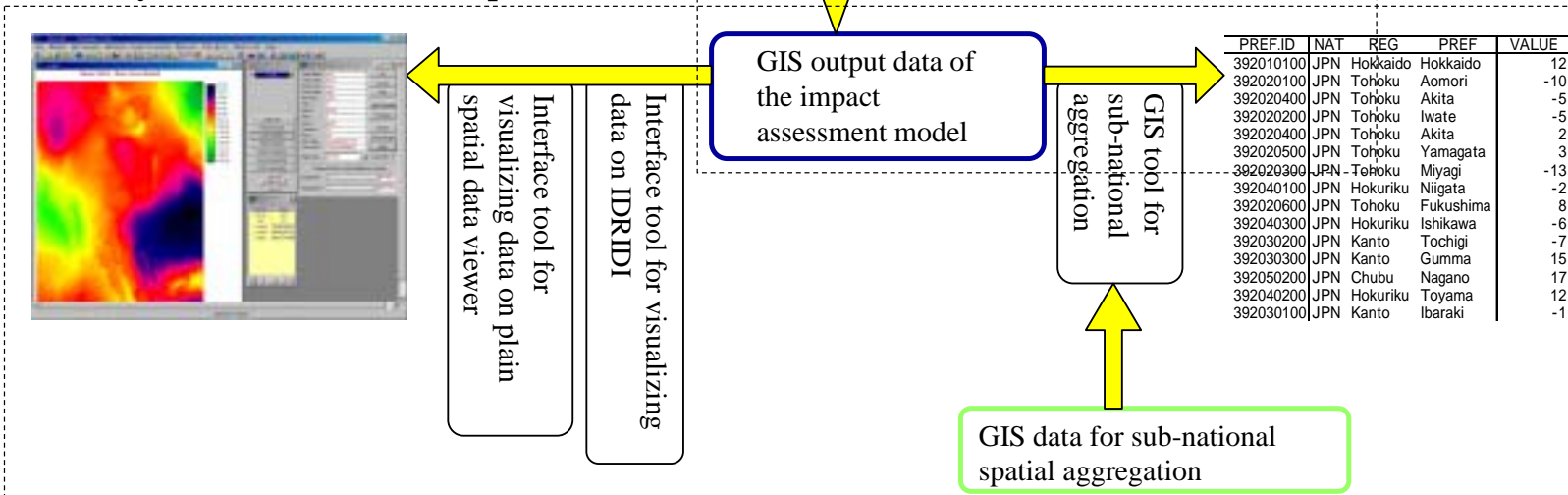
AIM/Impact [Country]

(1) Development of input GIS data for model

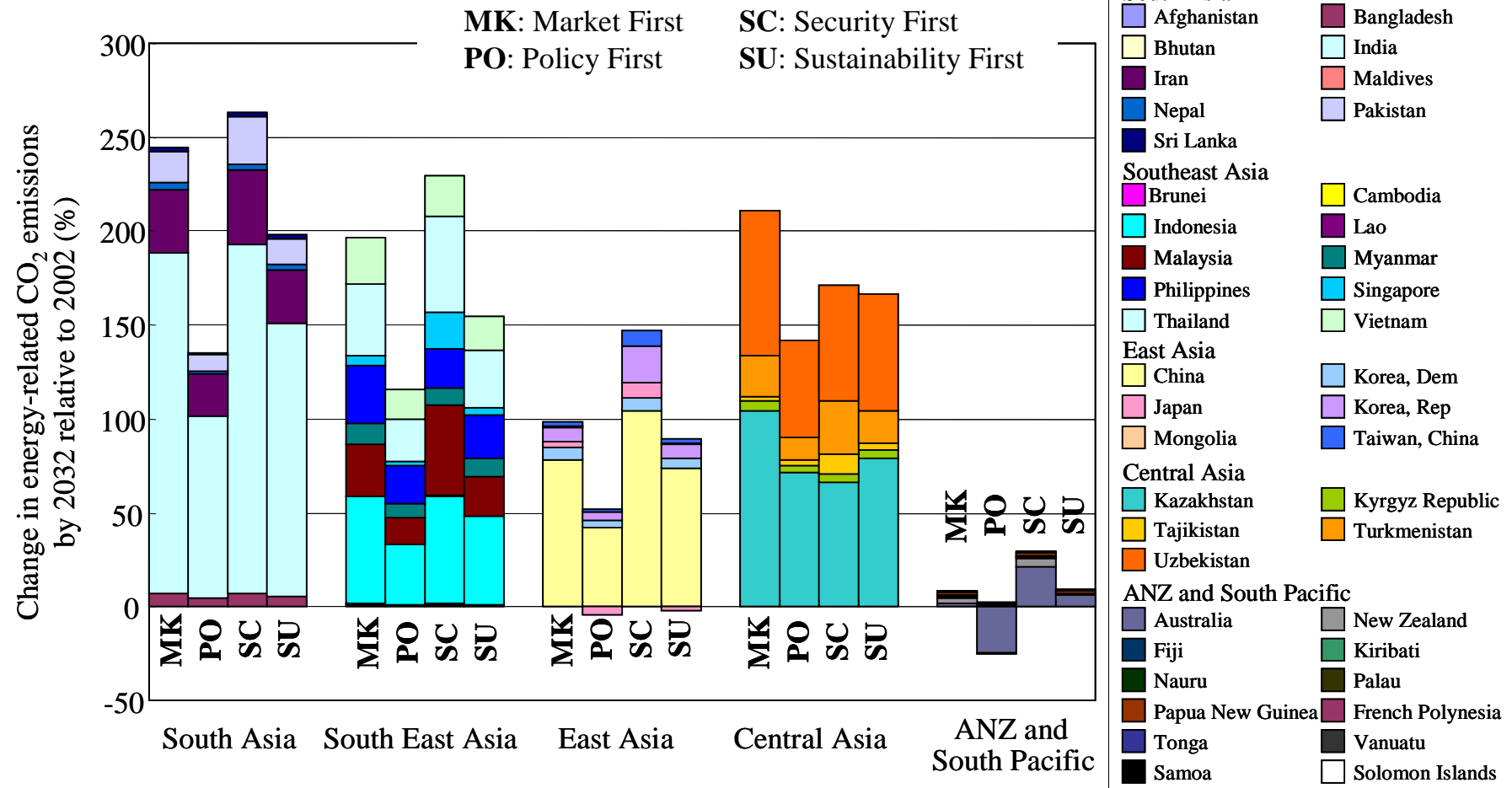


(2) Impact/Adaptation assessment

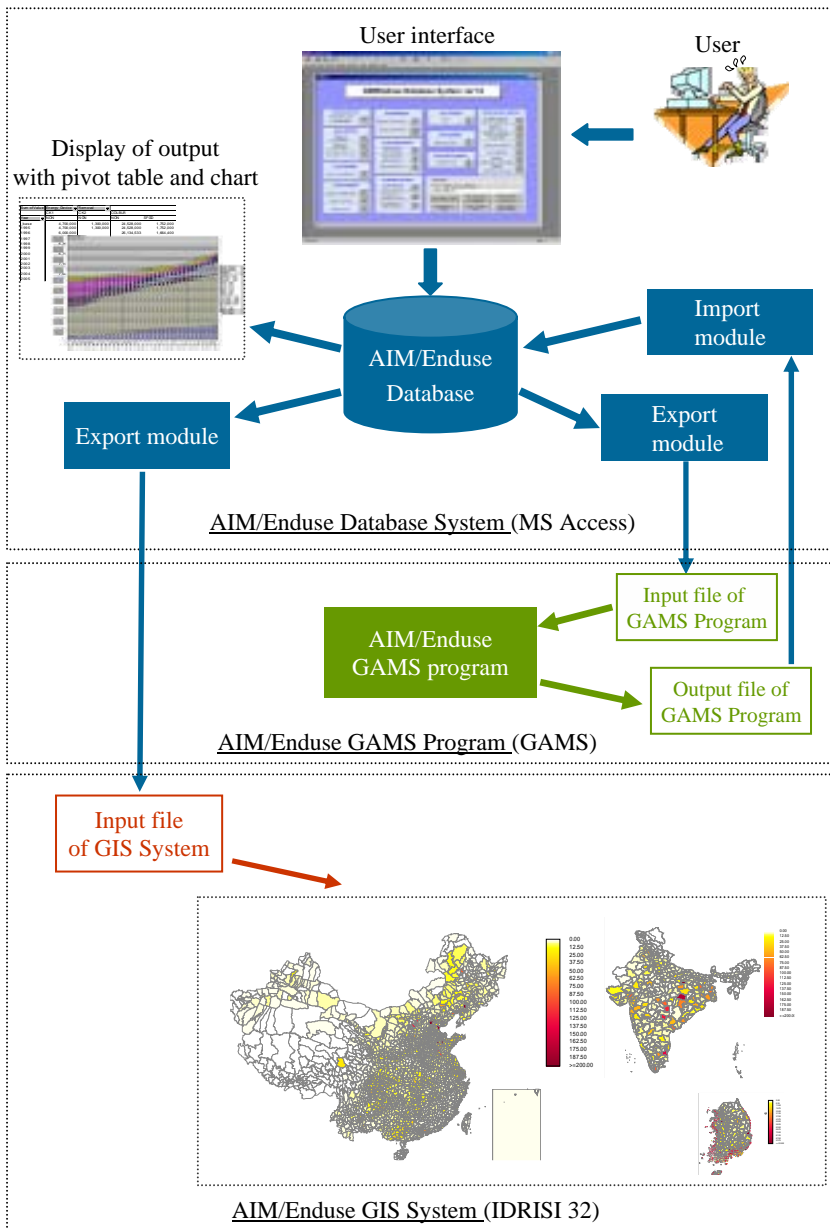
(3) Analysis of GIS data and outputs



AIM/Trend



Energy related CO₂ emissions in sub-regions of the Asia-Pacific region



AIM/Enduse database system, optimization system and GIS

Other Model Development

- Local Air Pollution Modelling

Prof. Fujiwara, Kyoto University

- Non-CO₂ Gas Emission Modelling

- Impact Assessment in China and Korea

- Models for APEIS and MA

Water, Health, ...

Activities

- AIM Training Workshop
5-6 September 2002, NIES
- APEIS Capacity Building Workshop
24-26 October 2002, New Delhi
- COP8 Side Event
25 October 2002, New Delhi
- AIM International Workshop
13-15 March 2003, NIES

Asian-Pacific Integrated Model - Microsoft Internet Explorer

アドレス http://www.nies.go.jp/social/aim/

Asian-Pacific Integrated Model

Last updated : March 7, 2003



Information
Team
Workshop
Reports
Data Library
Library

The Asian Pacific Integrated Model (AIM) is a large-scale computer simulation model developed by the National Institute for Environmental Studies in collaboration with Professor Matsumoto, Kyoto University and several research institutes in the Asian-Pacific region. The AIM assesses policy options for stabilizing the global climate, particularly in the Asian-Pacific region, with the objectives of reducing greenhouse gas emissions and avoiding the impacts of climate change.

What's new

March 5, 2003 [Presentations at the past AIM workshops can be downloaded now \(from each workshop's agenda\).](#)

October 24-26, 2002 [APEIS Capacity building workshop was held in Doha as the side event of COP8.](#)

July 1, 2002 [APEIS-IEA\(Integrated Environment Assessment\) homepage has been released.](#)

スタート | コーヒー | 3.0 GB | マイ プログラム | G4M 2002 watch... | 郵便受け - All-Mail | Asian-Pacific Intne... | 9:22

- お気に入り
- 追加 整理
- Def
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Workshop

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APFIS Capacity Building Workshop on Integrated Environment Assessment in Asia-Pacific Region
 (October 24-26, 2002, Delhi, India)

A capacity building workshop on integrated environment in the Asia-Pacific Region with an objective to provide exposure to the state-of-the-art knowledge about model structures, applications and hands-on experience with the important Integrated Environment Assessment (IEA) models used in the Asia-Pacific context.



The AIM Training Workshop 2002
 (September 5-6, 2002, Trukuba, Japan)



The 7th AIM International Workshop
 (March 15-16, 2002, Trukuba, Japan)





The 7th AIM International Workshop

15-16, March 2002
At Ohyama Memorial Hall
National Institute for Environmental Studies, 305-8506, Tsukuba, Japan

March 15

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§I Opening
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- 9:30-9:40 **Welcome Address**
 Dr. S. Nishioaka (Executive Director (Research), NIES)
- 9:40-10:00 **Studies on Climate Change and Related Activities**
 Dr. T. Morita (Director of Social and Environmental Systems Division, NIES)
- 10:00-10:30 **Coffee Break**

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§II Emission Inventory and Modelling
.....

- 10:20-10:30 **Overview of AIM Modelling**
 Dr. M. Kamama (NIES, Japan)
- 10:30-10:50 **AIM Trend Model**
 Dr. J. Fujino (NIES, Japan)
- 10:50-11:20 **Emission Inventory and Modelling in China**
 Prof. X. Hu, Dr. K. Jang and Dr. H. Yang (ERI, China)
- 11:20-12:30 **Emission Inventory and Modelling in India**
 Prof. P. K. Shukla (IIM, India)
- 12:50-12:10 **Discussions**
- 12:10-13:40 **Lunch Break**

Program: The 8th AIM International Workshop

March 13 (Thursday)

9:30-10:00 Session I

Opening

(Chairperson Prof. P. R. Shukla)

- 9:30-9:35 Welcome Address
Dr. S. Nishioka (NIES, Japan)
- 9:35-9:45 Welcome Address
Dr. T. Morita (NIES, Japan)
- 9:45-10:00 Recent Development of AIM Models
Dr. M. Kainuma (NIES, Japan)

10:00-10:50 Session II

Emission Inventory and Modelling

(Chairperson Dr. M. Kainuma)

- 10:00-10:20 Emission Inventory and Modelling in China
Prof. X. Hu, Dr. K. Jiang and Dr. H. Yang (ERI, China)
- 10:20-10:40 Emission Inventory and Modelling in India
Prof. P. R. Shukla (IIM, India)
- 10:40-10:50 Discussions

11:10-12:10 Session II

Emission Inventory and Modelling (Continued)

- 11:10-11:30 Country Model in Korea
Dr. T. Jung (IGES, Japan) and Prof. S. JO (Andong University)
- 11:30-11:50 AIM/Enduse Model for Thailand: Effects of CO₂ Emission

Constraints

- Prof. R. Shrestha (AIT, Thailand)
- 11:50-12:10 Discussions

(Chairperson Dr. K. Jiang)

13:40-14:00 Local Air Pollution Modelling

Prof. T. Fujiwara

14:00-14:20 Advanced Electric Generating Technologies in a Computable
General Equilibrium Model

Dr. R. Sands (PNNL, USA)

14:20-14:40 Non-CO2 Gas Emissions Modelling

Dr. J. Fujino (NIES, Japan)

14:40-15:00 Discussions

15:20-16:30 Session IV

Impact Modelling

(Chairperson Dr. H. Harasawa)

15:20-15:40 Recent Development of the AIM/Impact Model

Dr. H. Harasawa (NIES, Japan)

15:40-16:00 Impact Assessment of Forest Influenced by Changing Global Climate

Dr. S. Jeon and Mr. H.C. Jung (KEI, Korea)

16:00-16:20 Database for AIM (Impact Model) /China

Prof. J. Sun and Prof. Z. Li (IGSNRR, China)

16:20-16:30 Discussions

16:50-18:00 Session IV

Impact Modelling (Continued)

16:50-17:05 Water Saving Measures for Policy Design

Dr. S. You (IGSNRR, China)

17:05-17:25 Impact Model

Dr. Y. Hijioka (NIES, Japan)

17:25-17:45 AIM Country Model

Mr. K. Takahashi (NIES, Japan)

March 14 (Friday)

9:10-10:20 Session V AIM/Enduse Modelling

(Chairperson Dr. R. San

9:10-9:30 Emission Inventory and Modelling in Malaysia

Prof. A.Z. Abidin (Universiti Putra, Malaysia)

9:30-9:50 AIM/Country Model in South Asia

Prof. R. Pandey (NIES, Japan; IIM, Lucknow, India)

9:50-10:10 The latest version of AIM/Enduse Model

Mr. G. Hibino (Fuji Research Institute, Japan)

10:10-10:20 Discussions

10:30-12:00 Session VI New Direction of Integrated Modelling

(Chairperson Prof. P. R. Sh

10:30-11:15 New Integrated Modelling with Special Reference to AIM/Ecosystem Model

Prof. Y. Matsuoka (Kyoto University, Japan)

11:15- 11:30 AIM/Trend and AIM/CGE

Dr. J. Fujino (NIES, Japan)

11:30- 11:45 Integration of Emission, Climate Change and Impacts

Dr. T. Masui and Mr. K. Takahashi (NIES, Japan),

11:45-12:00 Discussions

**13:30-15:25 Session VII APEIS (Asian Pacific Environmental Innovation Strategies)
and MA (Millennium Ecosystem Assessment)**

(Chairperson Prof. Y.

Matsuoka)

13:30-13:50 Overview of APEIS-IEA (Integrated Environmental Assessment) and MA
Dr. T. Morita (NIES, Japan)

13:50-14:10 Preliminary Results for MA
Dr. H. Harasawa (NIES, Japan)

14:10-14:25 AIM/Material Japan
Dr. T. Masui (NIES, Japan) and Ms. M. Miyashita (TIT, Japan)

14:25-14:40 AIM/Material India
Dr. A. Rana (NIES, Japan)

14:40-14:55 AIM/Material China
Dr. H. Yang (ERI, China)

14:55-15:10 AIM/Material India with Natural Resources
Dr. T. Masui and Dr. A. Rana (NIES, Japan)

15:10-15:25 Discussions

15:45-16:25 Session VII APEIS and MA (Continued)
(Chairperson Dr. T. Morita)

15:45-16:05 Comparison Study of Innovation
Dr. A. Rana (NIES, Japan), Prof. P.K. Shukla (IIM, India),
Dr. K. Jiang (ERI, China), Prof. R. Shrestha (AIT, Thailand)

16:05-16:25 Strategic Database and Indicators
Mr. G. Hibino (Fuji Research Institute, Japan)

16:25-17:55 Session VIII Discussion
(Chairperson Dr. Morita)

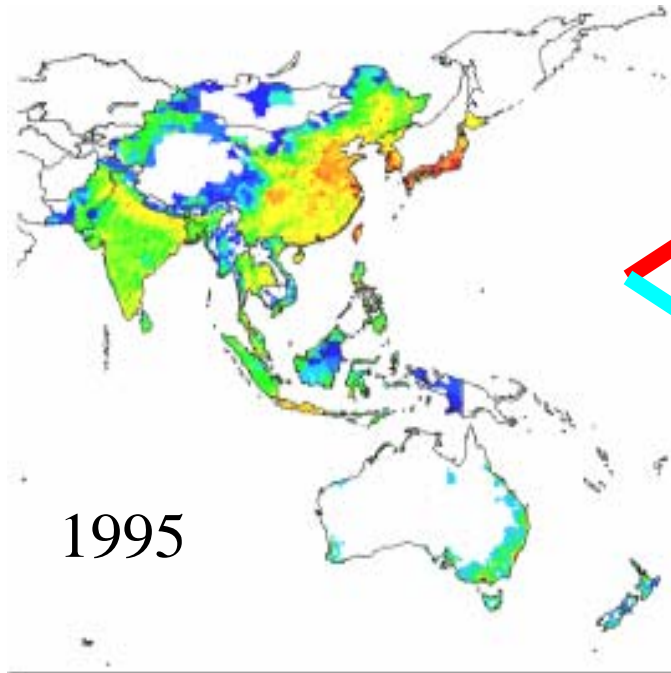
16:25-17:25 Discussions on APEIS and MA
17:25-17:55 Open Discussions

17:55-18:00 Session IX Closing
(Chairperson Dr. Morita)

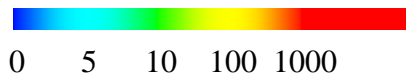
17:55-18:00 Closing Address
Dr. H. Harasawa (NIES, Japan)

Thank you for your collaboration!

Application: Scenario Analysis for UNEP/GEO 3

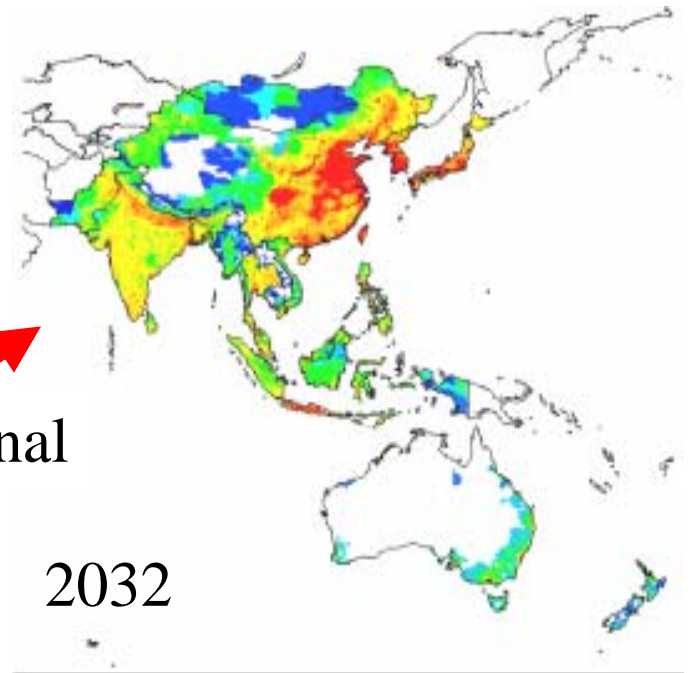


gC/m²/year



CO2 emission intensity

Conventional



Policy

