

Introduction of Session 6
[AIM Activities: Past 20 Years and Next 20 Years]

Toshihiko Masui

National Institute for Environmental Studies

The 29th AIM International Workshop

Ohyama Memorial Hall, NIES

September 15, 2023

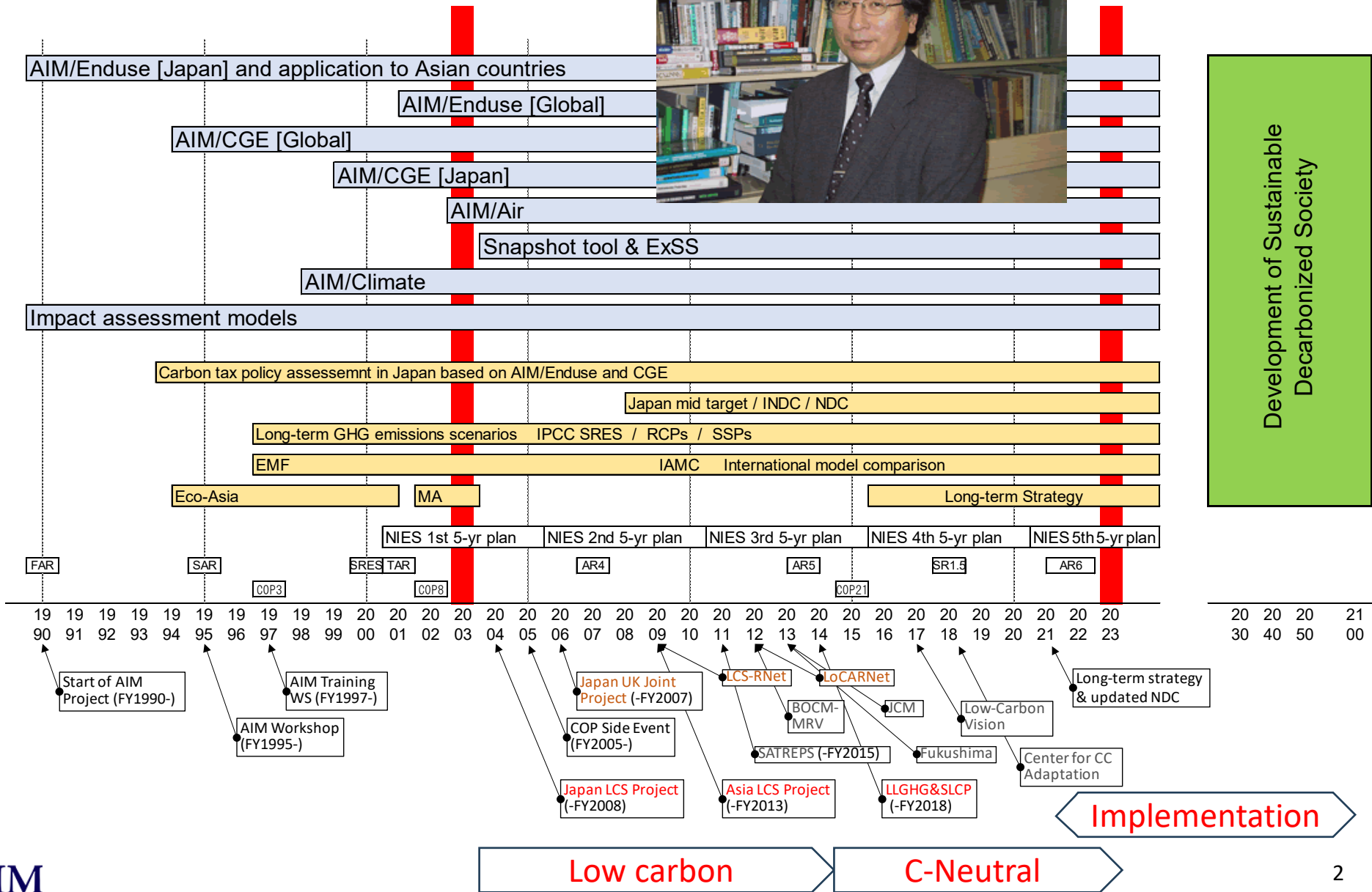


Asia-Pacific Integrated Model

<http://www-iam.nies.go.jp/aim/index.html>



Activities of AIM since 1990



Development of Sustainable Decarbonized Society

Low carbon → C-Neutral

Implementation

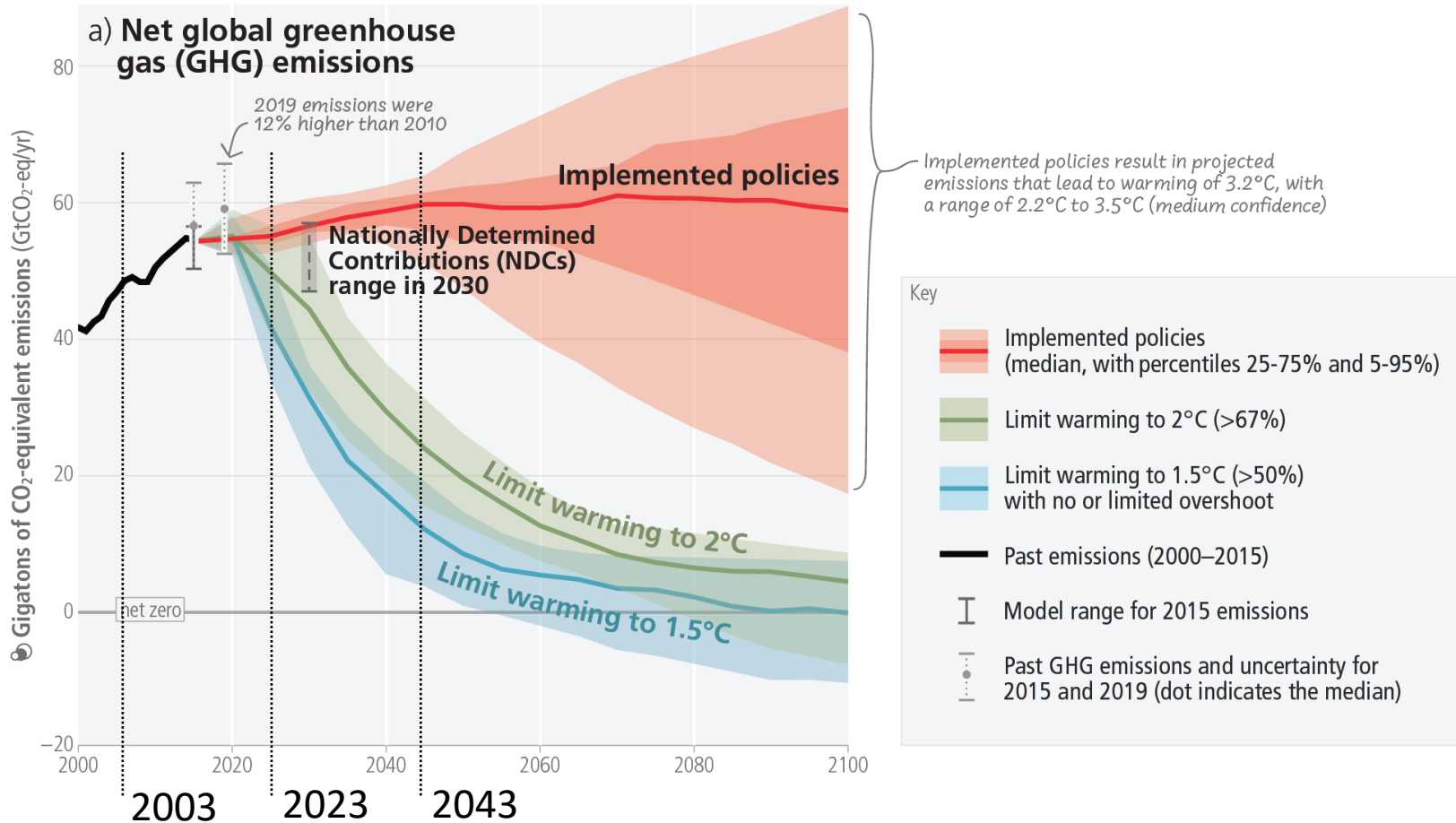
Toward Decarbonized Society

- Looking back over the past 20 years
 - ✓ Mitigation and adaptation policies and actions
 - ✓ Contribution of AIM
- Thinking about the next 20 years
 - ✓ How to achieve the net zero GHG emissions in the world and Asia?
 - ✓ What is role of AIM in Asia and the world?
- Global
- Japan:
 - ✓ Mitigation: National scale and Local scale
 - ✓ Impact & adaptation: Research and policy support
- Asia: China, India, Korea and ASEAN
- USA

Global GHG emissions

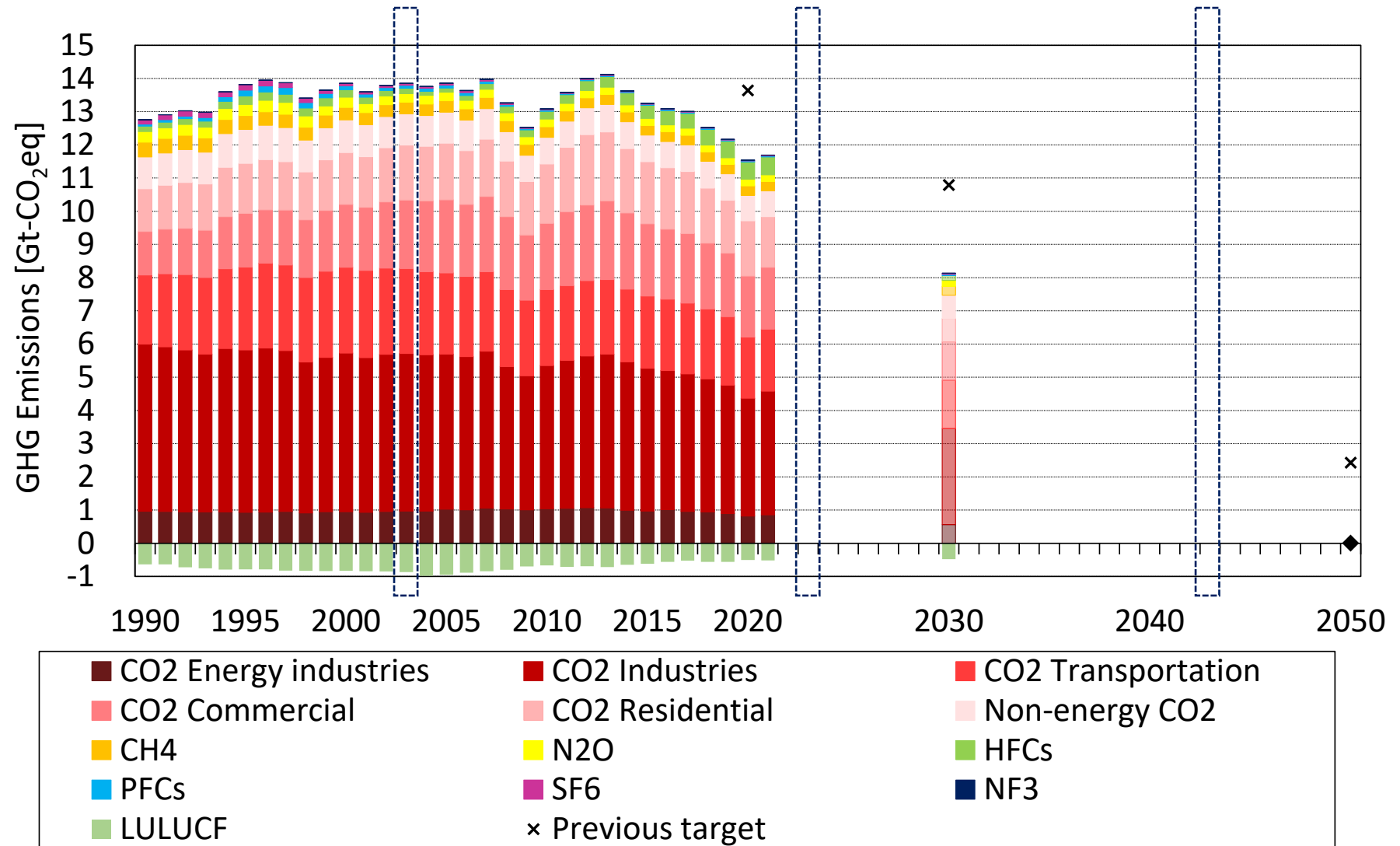
Limiting warming to **1.5°C** and **2°C** involves rapid, deep and in most cases immediate greenhouse gas emission reductions

Net zero CO₂ and net zero GHG emissions can be achieved through strong reductions across all sectors



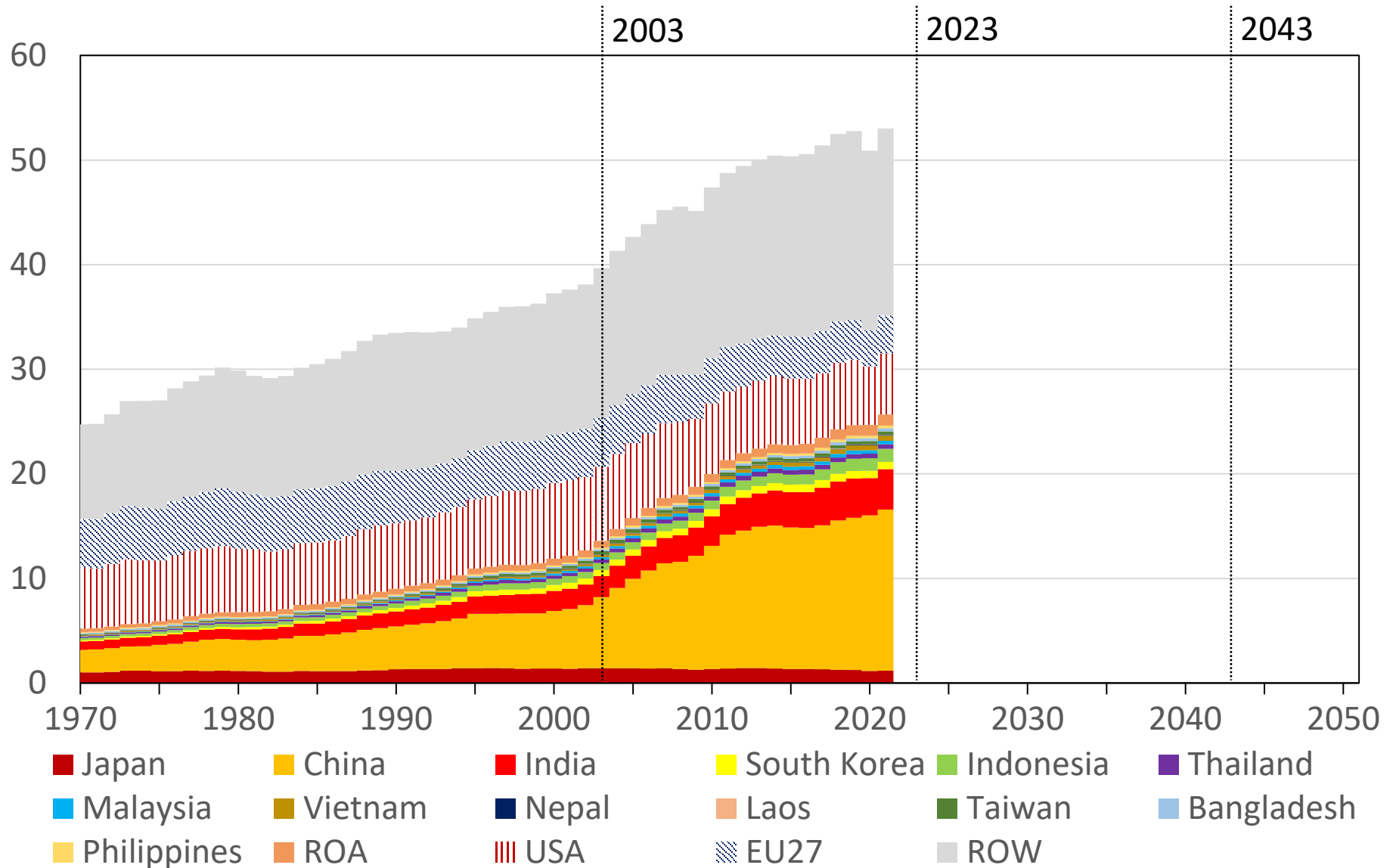
Source: Figure SPM.5, IPCC AR6 Synthesis Report

GHG emissions in Japan



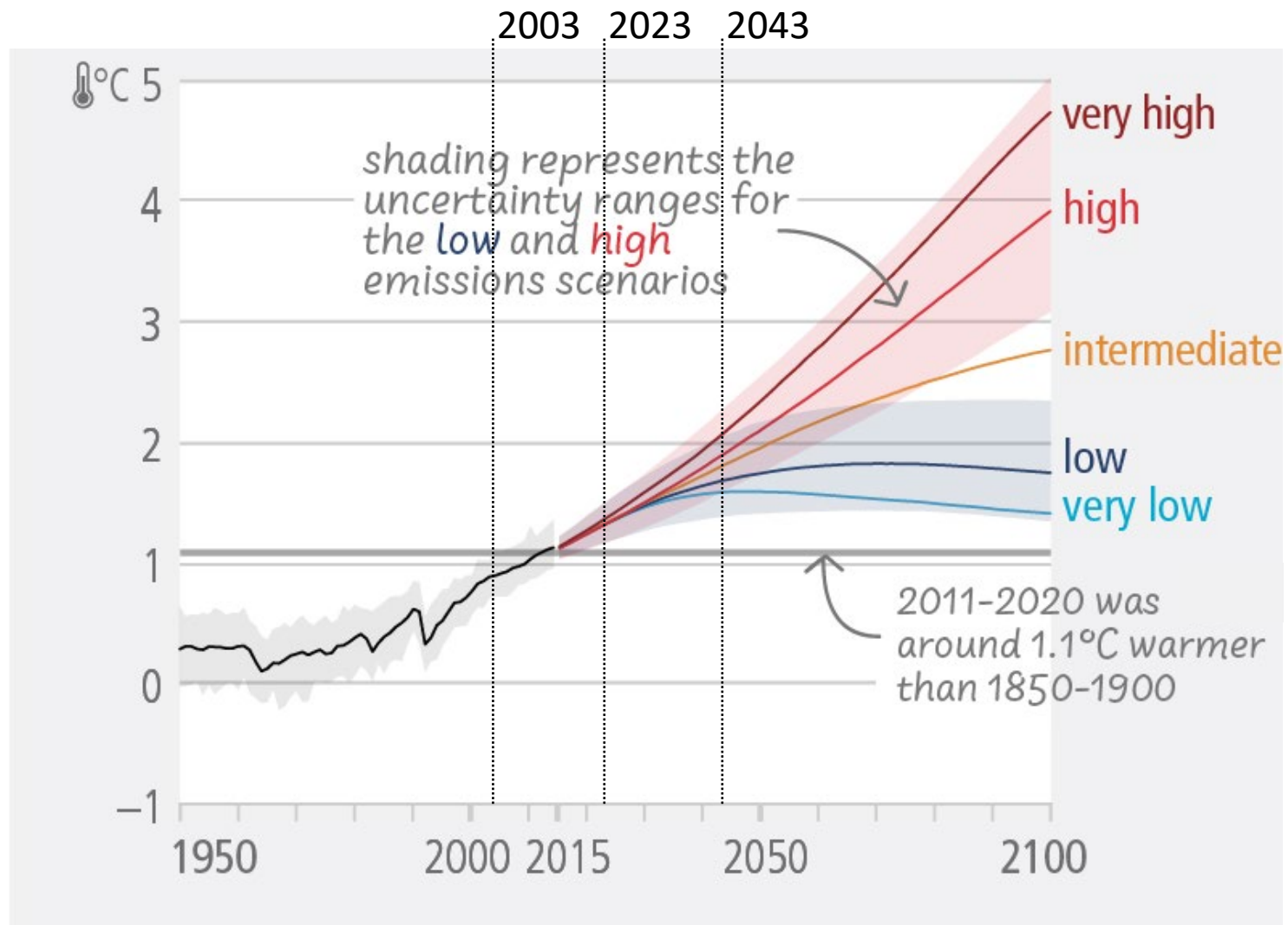
Source: GIO, NIES

GHG emissions in Asia



Source: EDGAR v7.0

Global surface temperature change relative to 1850–1900



Source: Figure SPM.4, IPCC AR6 Synthesis Report

Toward Decarbonized Society

- Looking back over the past 20 years
 - ✓ Mitigation and adaptation policies and actions
 - ✓ Contribution of AIM
- Thinking about the next 20 years
 - ✓ How to achieve the net zero GHG emissions in the world and Asia?
 - ✓ What is role of AIM in Asia and the world?
- Global
- Japan: National mitigation, local mitigation, Impact & adaptation study, and Impact & adaptation policy support
- Asia: China, India, Korea and ASEAN
- USA