



Net-Zero and NDCs - Science-based climate policymaking and implementation in Asia -

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COP29 Side Event

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Japan's Assistance Package to Promote Investments for Global Actions Toward the Achievement of the Paris Agreement Goals

Sum of emissions reduction targets don't reach 1.5°C
① **"Ambition gap"**
Support for raising countries' ambitions and to identify pathways toward net zero



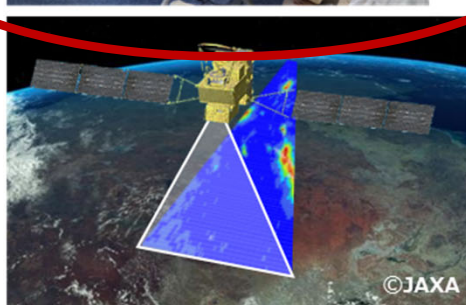
Adaptation measures are not keeping pace with increasing climate risks
② **"Adaptation gap"**

Accelerating sustainable adaptation through public-private partnership



Not enough investments for implementation
③ **"Implementation gap"**

Explore new areas and promote the use of private capital, aligning all financial flows with the Paris Agreement goals

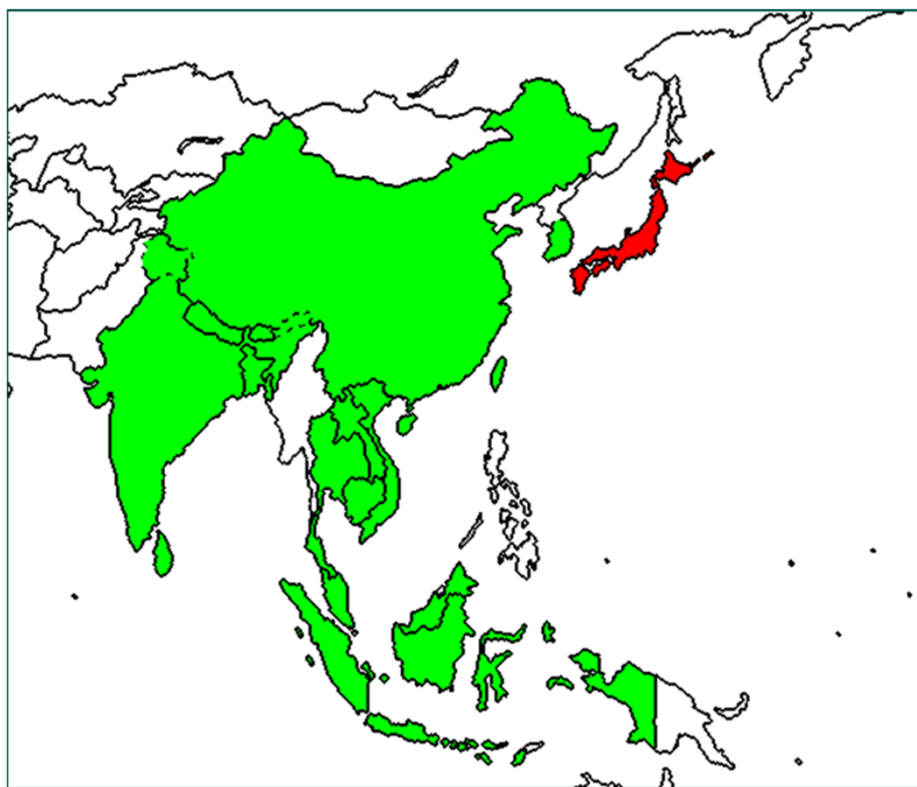


Increase the predictability of decarbonization for business

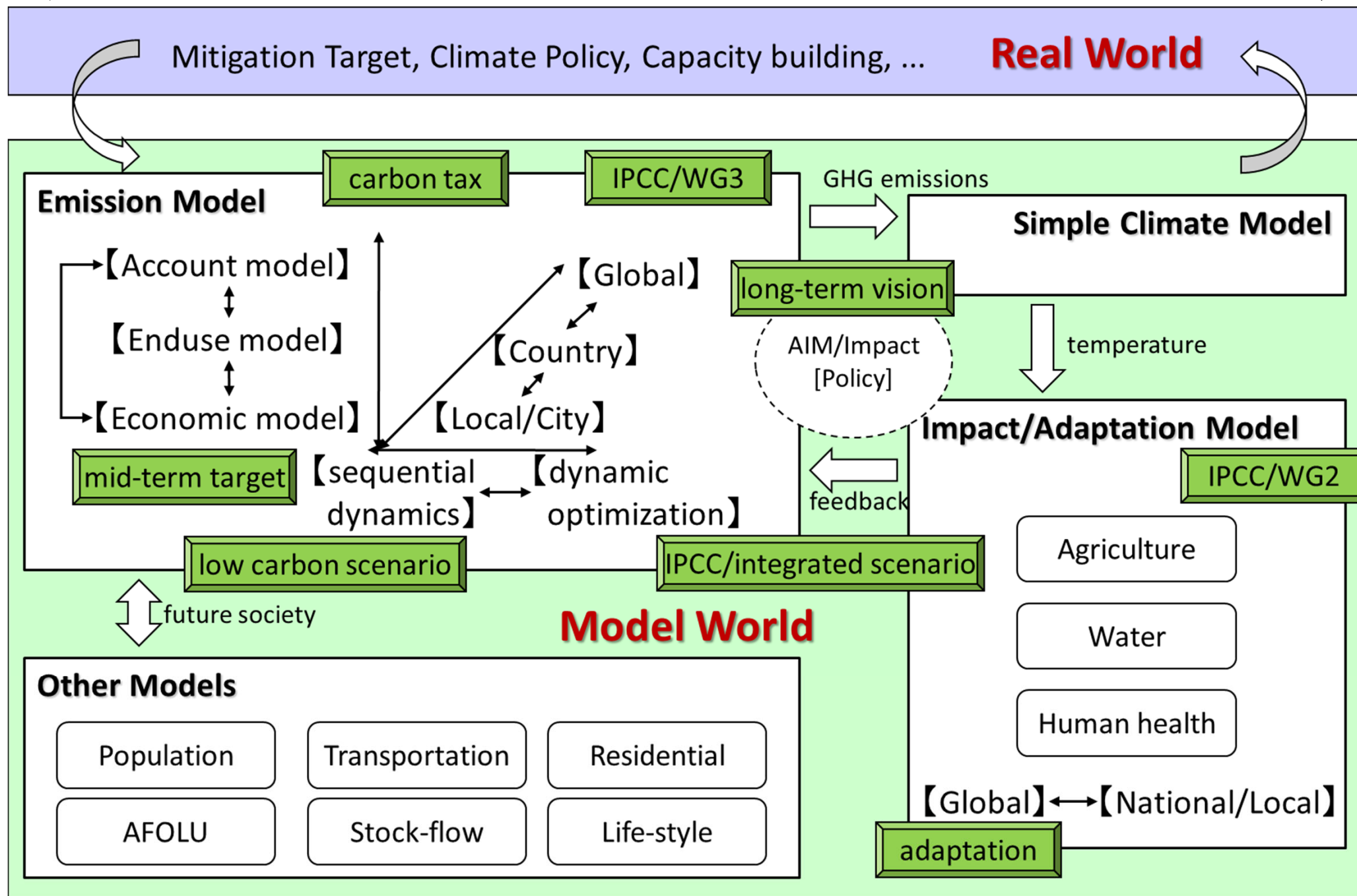
Mitigating economic damage caused by climate change

Asia-Pacific Integrated Model (AIM)

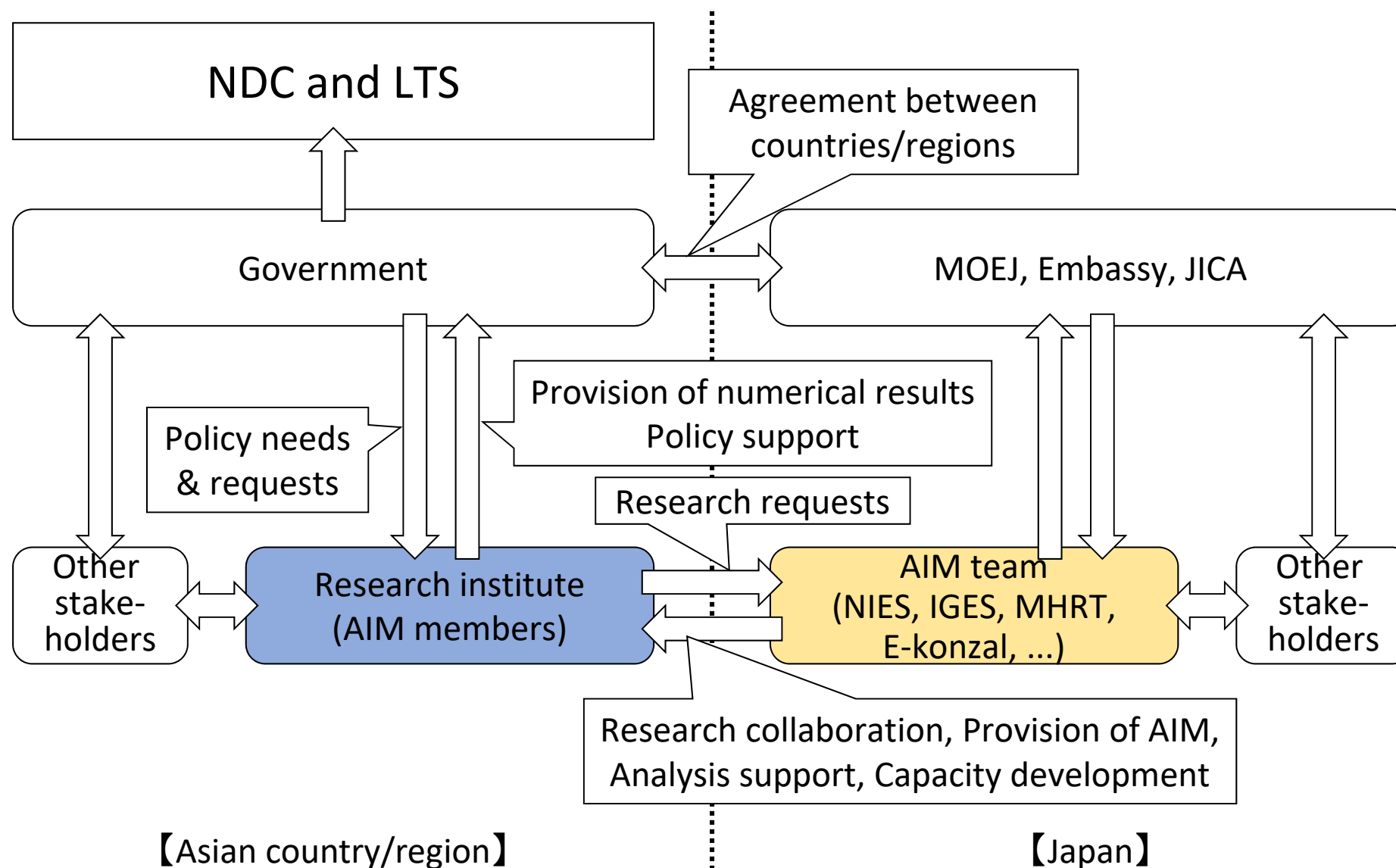
- Asia-Pacific Integrated Model (AIM) is a large-scale computer simulation model which can assess policy options for stabilizing the global climate, with the objectives of reducing greenhouse gas emissions and avoiding the impacts of climate change.
- AIM was developed in 1990 by Japanese institutions, in collaboration with Asian researchers. It is widely used in Asian countries.



Overview of AIM (Asia-Pacific Integrated Model)

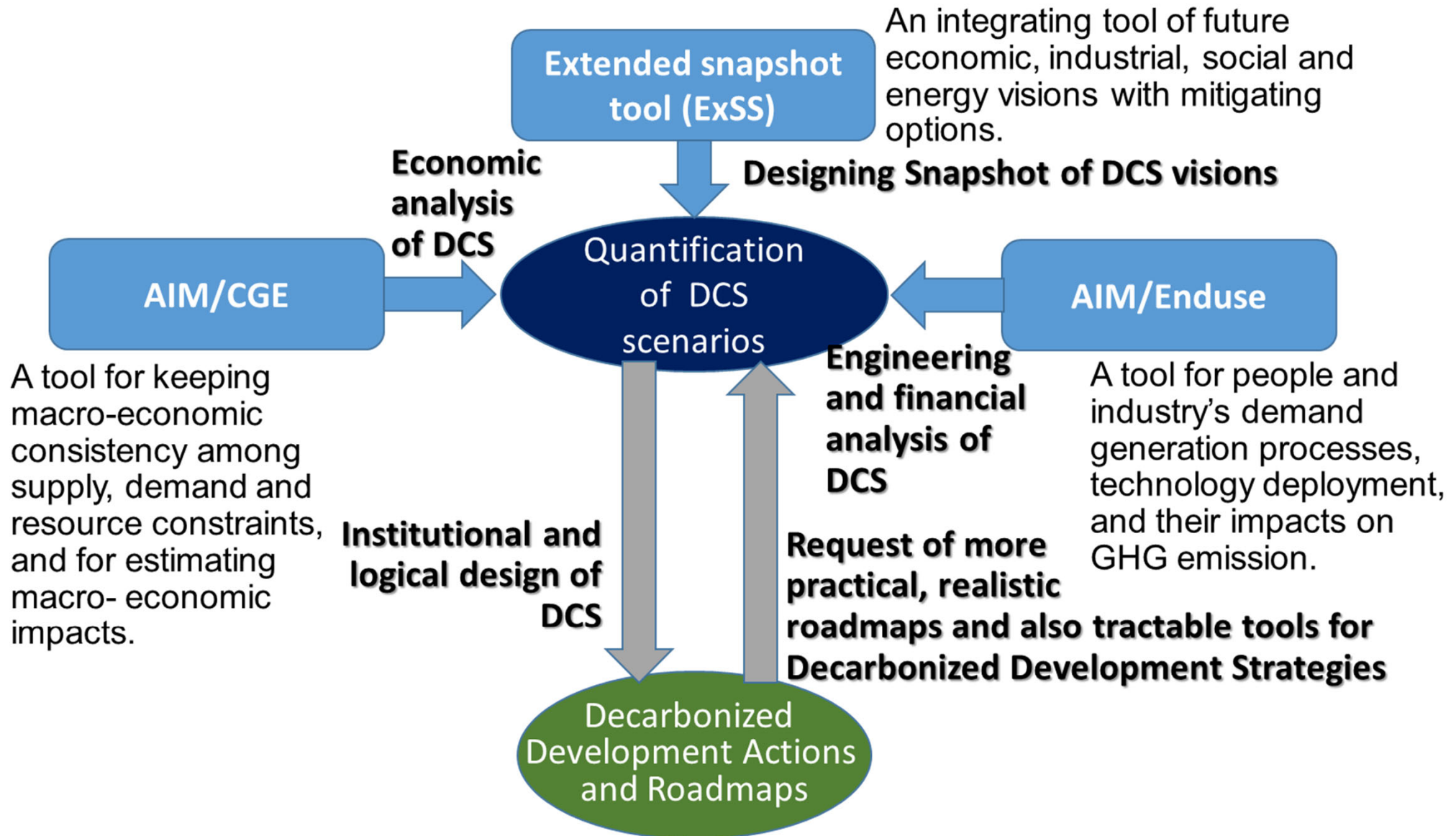


Expected structure to support climate policy in Asian countries/regions



NIES: National Institute for Environmental Studies
 IGES: Institute for Global Environmental Strategies
 MHRT: Mizuho Research & Technologies

Framework to assess DCS (decarbonized society) actions and socio-economic policies using AIM



Training workshops in Asia for capacity development



Training workshop on
AIM/Enduse at SIIT,
Thammasat Univ. from
June 11 to 15, 2018 (10
Participants from 2
countries)



Training workshop on
AIM/CGE at SIIT,
Thammasat Univ.
from June 26 to July 5,
2018 (7 participants from
3 countries)

Training Workshop to introduce AIM

AIM Training WS at SIIT,
Thammasat Univ. from
Jan. 30 to Feb. 1 2017
(Researchers and
policymakers from 9
countries)



Hands-on Training on
AIM at JICA Tokyo Center
on Oct. 23-24 2023 (17
government staff from
Thailand)

AIM and LoCARNet Peer-to-Peer Meeting for Sharing Experience and Lessons



27 August 2024 at Tsukuba
8 countries (Bangladesh,
Indonesia, Lao PDR, Malaysia,
Philippines, Thailand, Viet Nam
and Japan) and UNFCCC

Recent applications of AIM - 1

Indonesia: Long-term strategy for Low Carbon and Climate Resilience 2050



4.1. Scenario Development

4.1.1. Models for Mitigation Pathways

Indonesia used a set of models in developing the emission pathways with two stages of analysis. In the first stage, separate models were developed for modelling agriculture, forestry and other land uses (AFOLU), and energy. The AFOLU sector used AFOLU Dashboard (a spreadsheet model), meanwhile energy sector used AIM-EndUse and the AIM-ExSS (Extended Snapshot). In both models, economic and population growth are the key drivers for changes in food and energy demand. In the second stage, the economic and economic impact of both AFOLU and energy sector mitigation are analysed by utilizing the Asia Pacific Integrated Model/Computable General Equilibrium (AIM/CGE)-Indonesia (see Figure 3).

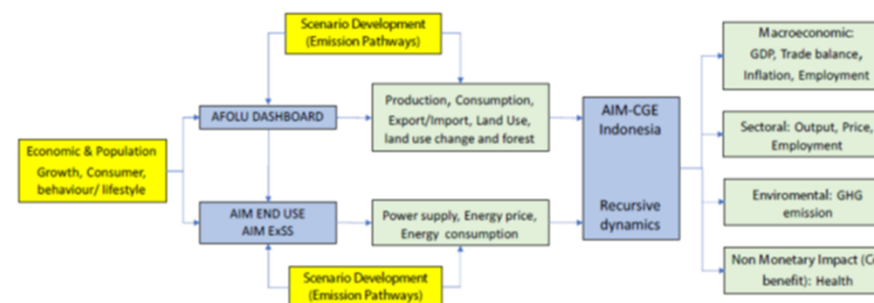


Figure 3. Models for developing emission pathways in Indonesia

Recent applications of AIM - 2

Thailand: Mid-century, Long-term Low Greenhouse Gas Emission Development Strategy (Revised Version)

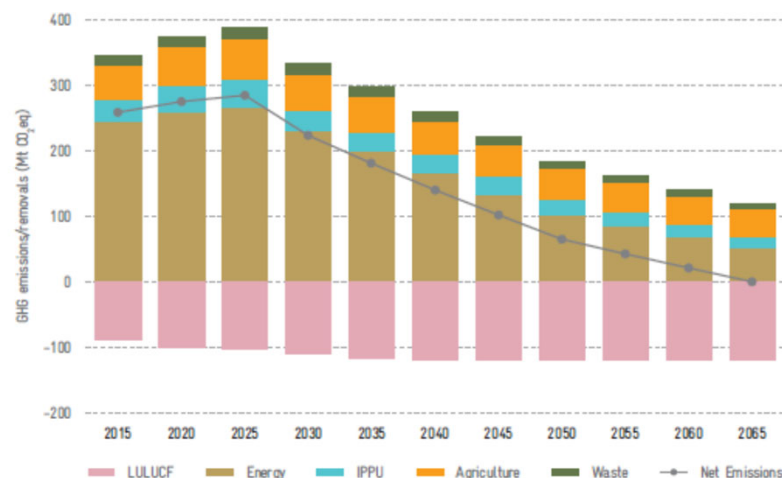


Figure 3-3 Thailand's 2065 Net Zero GHG Emission Pathway

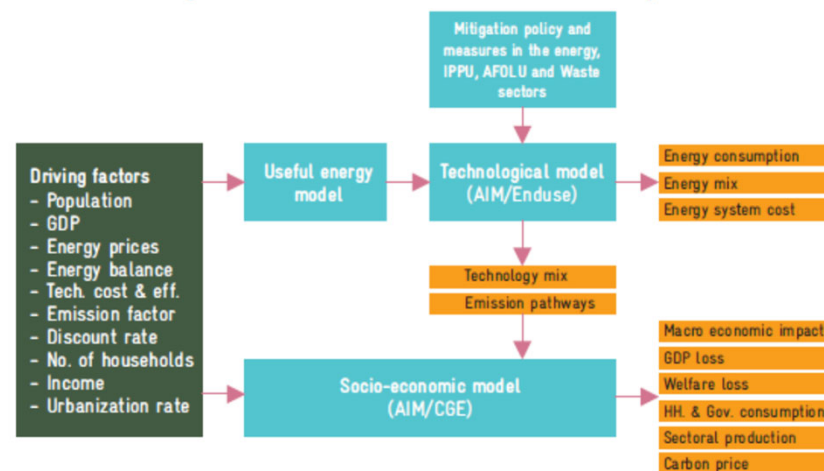


Figure 3-1 Framework of Thailand's LT-LEDs

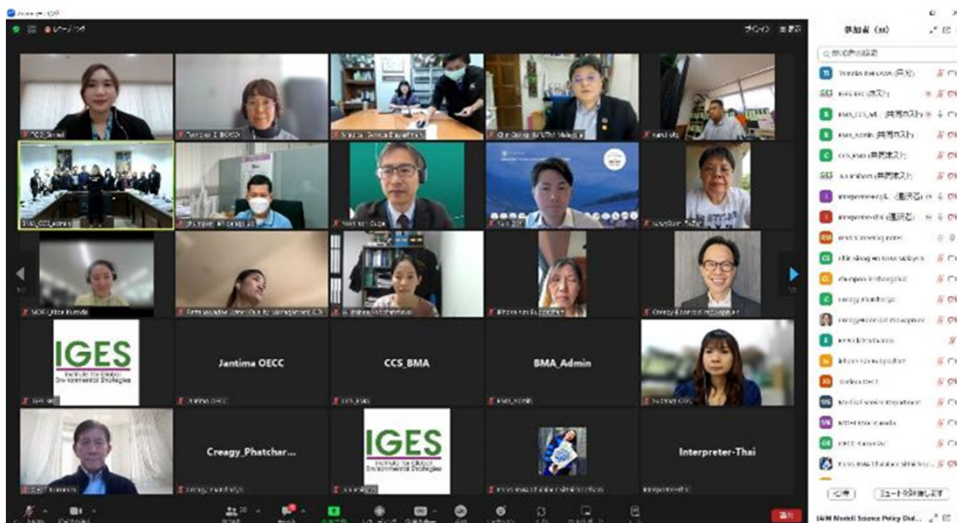
New progress



Meeting with CCC, Philippines
(June 2023)



Science-Policy Dialogue with Bangladesh
(February 2024)



Science-Policy Dialogue with
Bangkok Metropolitan Administration
(March 2024)



Meeting with Lao MONRE and potential AIM
researchers (May 2024)

