

# Activities in FY 2021-2022

Toshihiko Masui

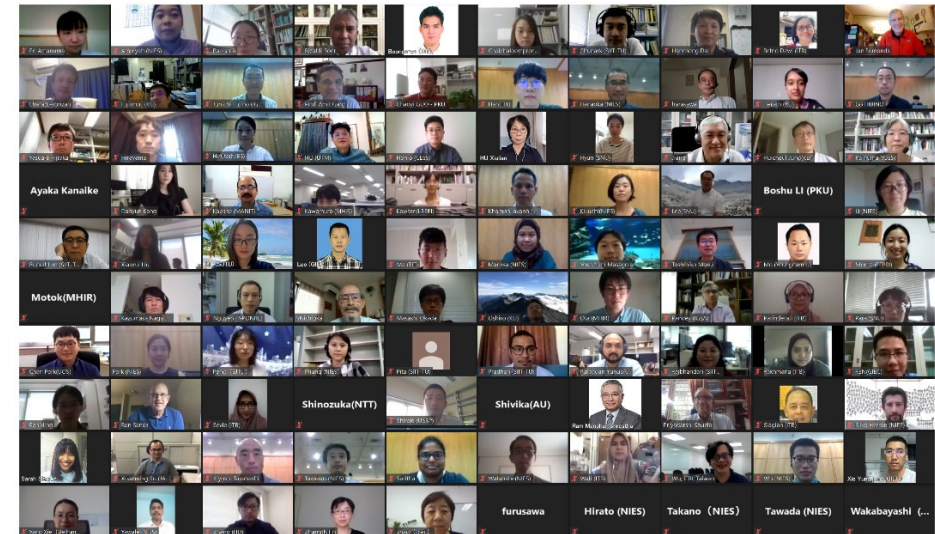
National Institute for Environmental Studies

The 28th AIM International Workshop  
Ohya Memorial Hall in NIES and Online  
September 13 & 14, 2022

"Welcome back to the AIM Workshop!" and  
"Good to meet you!"



AIM International Workshop 26th

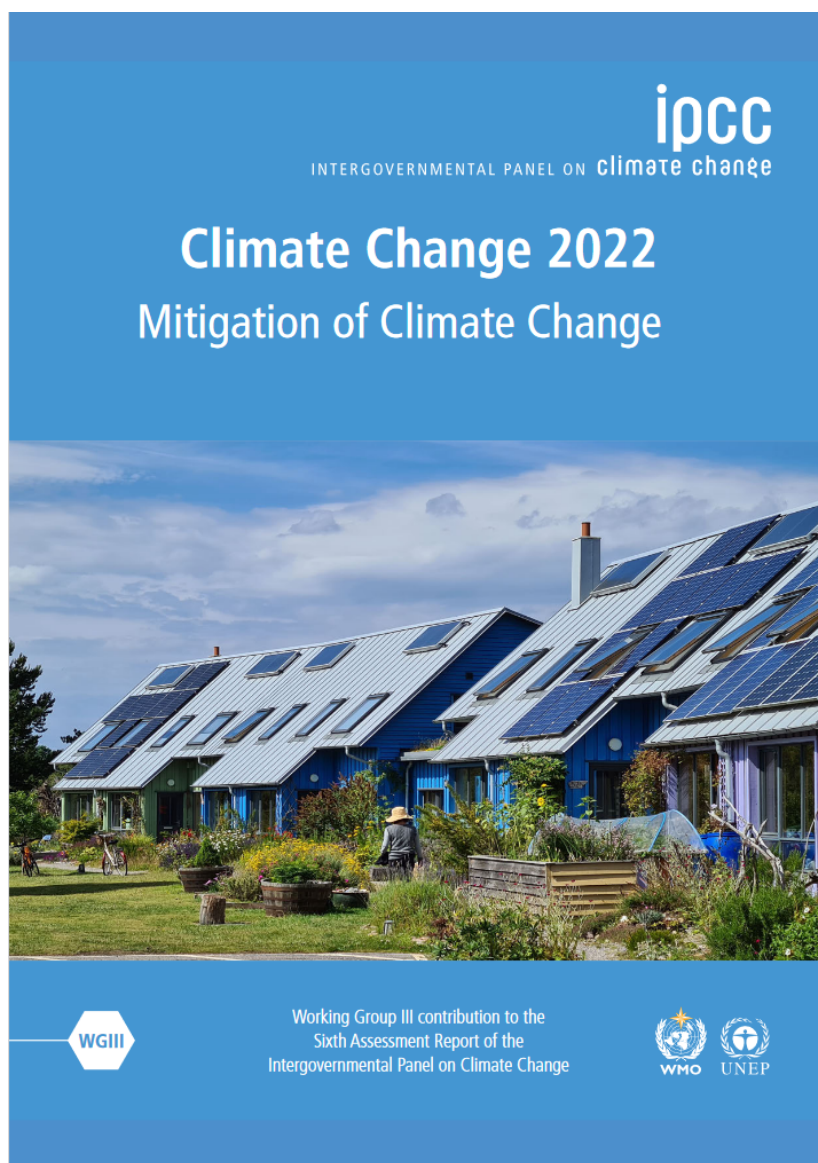


The 26th AIM International Workshop  
(Online), Sept. 3-4, 2020



The 27th AIM International Workshop  
(Online), Sept. 30-Oct. 1, 2021

# IPCC AR6 WG3 was released in April 2022



2010-2019: Average annual greenhouse gas emissions at highest levels in human history.

We are not on track to limit warming to 1.5 ° C.  
But there is increased evidence of climate action.

Unless there are immediate and deep emissions reductions across all sectors, 1.5° C is beyond reach.

There are options available now in every sector that can at least halve emissions by 2030.

Accelerated climate action is critical to sustainable development.

The evidence is clear: The time for action is now.

[https://report.ipcc.ch/ar6wg3/pdf/IPCC\\_AR6\\_WGIII\\_PressConferenceSlides.pdf](https://report.ipcc.ch/ar6wg3/pdf/IPCC_AR6_WGIII_PressConferenceSlides.pdf)

<https://www.ipcc.ch/report/sixth-assessment-report-working-group-3/>

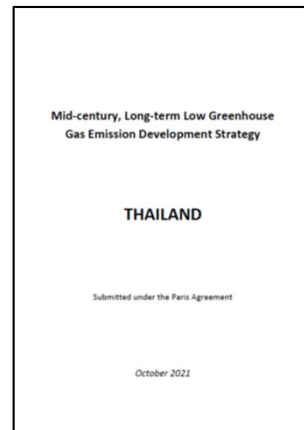
# Contribution of AIM to develop long-term strategies in Asia

## Thailand:

Prof. Bundit Limmeechokchai (Sirindhorn International Institute of Technology, Thammasat University)



<https://unfccc.int/documents/181765>

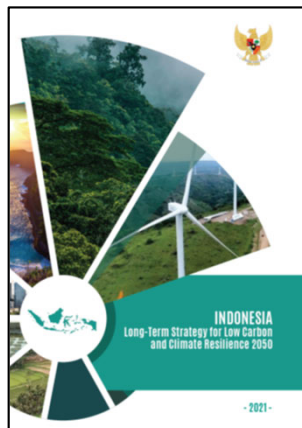


[https://unfccc.int/sites/default/files/resource/Thailand\\_LTS1.pdf](https://unfccc.int/sites/default/files/resource/Thailand_LTS1.pdf)

## Indonesia:

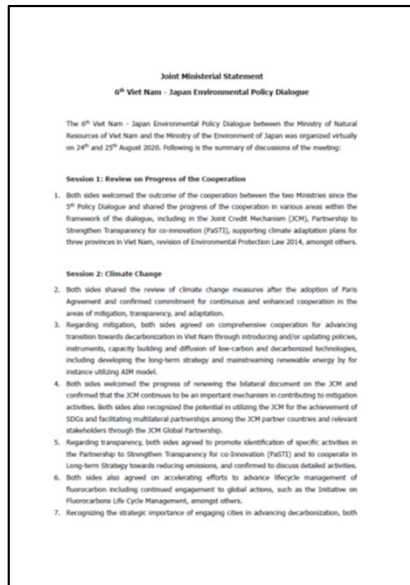
Prof. Rizaldi Boer (Bogor Agricultural University)

Prof. Retno Gumilang Dewi and Dr. Ucok WR. Siagian (Bandung Institute of Technology)



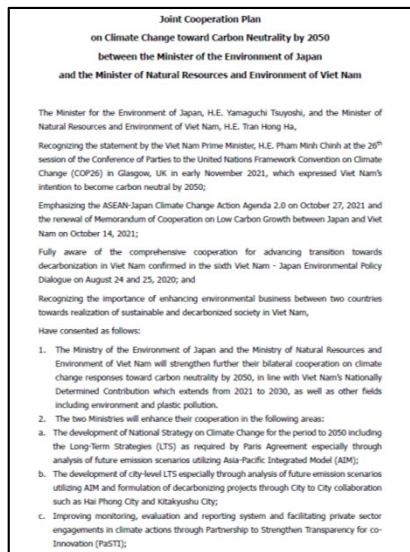
[https://unfccc.int/sites/default/files/resource/Indonesia\\_LTS-LCCR\\_2021.pdf](https://unfccc.int/sites/default/files/resource/Indonesia_LTS-LCCR_2021.pdf)

# Contribution of AIM to develop long-term strategies in Vietnam



## Joint Ministerial Statement: 6th Viet Nam - Japan Environmental Policy Dialogue (August 25, 2020)

<https://www.env.go.jp/press/files/jp/114598.pdf>



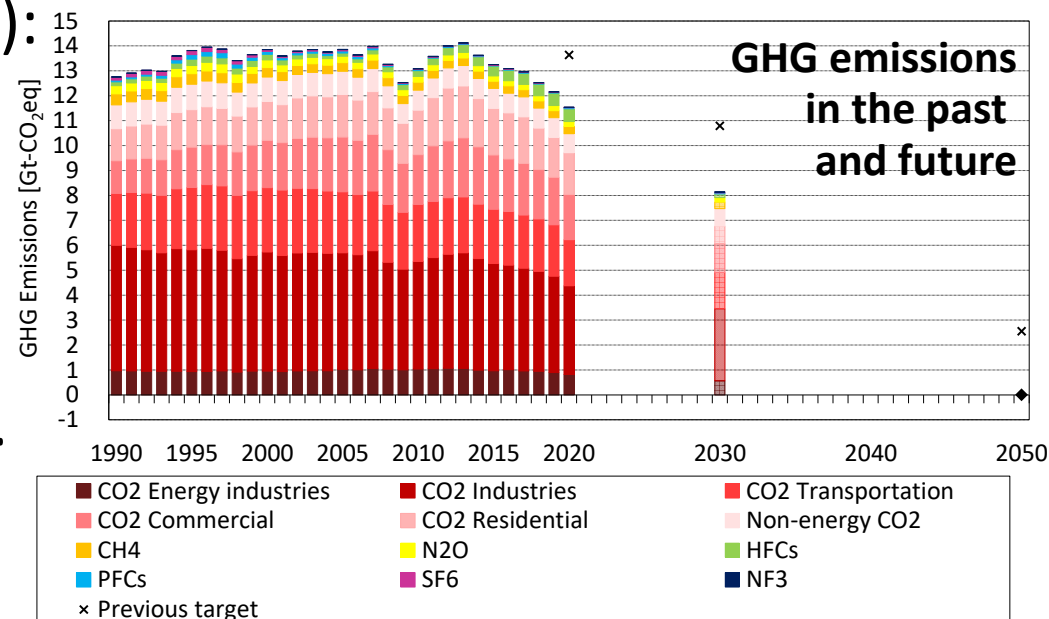
## Joint Cooperation Plan on Climate Change toward Carbon Neutrality by 2050 between the MOEJ and the MONRE of Viet Nam (November 24, 2021)

<https://www.env.go.jp/press/files/jp/117125.pdf>

Through the above memorandum among the governments, AIM team supports development of long-term scenarios to assess the net-zero GHG emissions in Vietnam.

# Updated GHG mitigation goals of Japan

- GHG mitigation target of 2030 (NDC): 46% reduction compared to emissions in 2013.
- Long-term strategy: Net-zero GHG emissions, that is, to realize carbon neutrality by 2050.
- Plan for Global Warming Countermeasures approved by the Cabinet in 2021:



"Japan will support the formulation of long-term strategies using the Asia-Pacific Integrated Model (AIM), assist in revising NDCs, and help private companies build institutions and improve their implementation capacity, thereby contributing to raising the ambition of partner countries and strengthening their efforts to decarbonize their economies."

→ Our research activities based on AIM will be more important!

# Contribution of AIM to Realization of Decarbonized Society

- We could stock a certain level of scientific knowledge on climate change, and it has been applied to climate policies through the AIM.
  - More detailed models and analyses are requested by stakeholders to implement to "evidence-based decision making."
  - Since there are still many unknown issues, we need more scientific research.

Through the discussion at the 28th AIM International Workshop, we will share the recent model activities and results, and we will discuss the future directions of AIM.

# Schedule of the 28th AIM International Workshop (1)

- September 13, 2021

- ✓ Session 1: Opening

- Keynote Speeches: Dr. Jae Edmonds, Prof. P.R.Shukla and Dr. S. Nishioka

- ✓ Session 2 & 3: GHG mitigation and AIM in Asia

- Thailand

- Indonesia

- Vietnam

- China

- India

- Malaysia

- Korea

- Nepal

- Taiwan

# Schedule of the 28th AIM International Workshop (2)

- September 14, 2022

- ✓ Session 4: Climate impact, adaptation, and sustainability

- Dr. R. Sands, Dr. T. Hasegawa, Dr. S. Xia, Dr. T. Yokohata, Dr. H. Jung, and Dr. F. Liu

- ✓ Session 5: From Research to Actions towards Net-zero Society

- Discussion of research activities and new research directions

- Local Decarbonization

- National Decarbonization in Asia

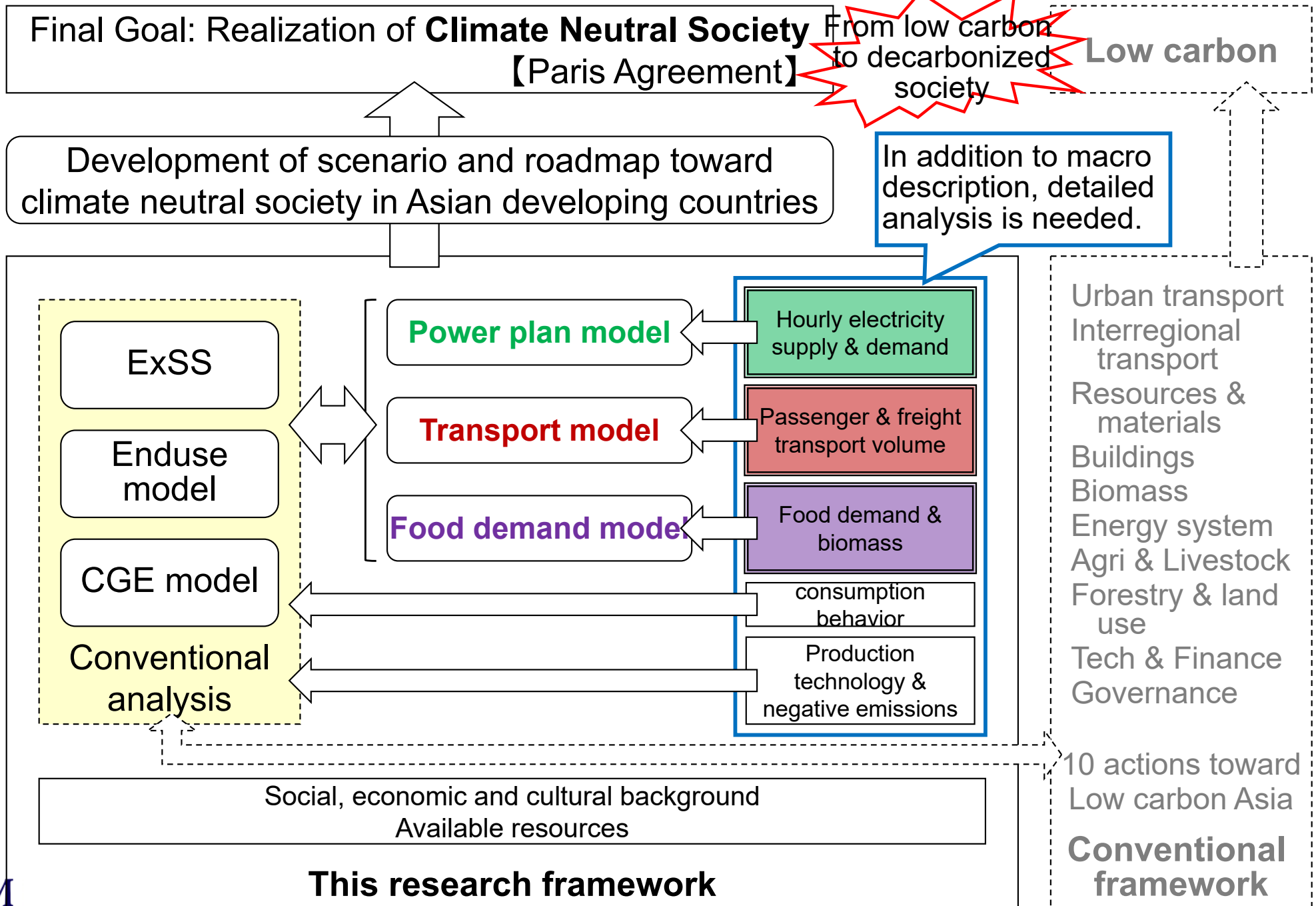
- SLCFs and Decarbonization in Asia: Activities among UNEP/CCAC & Other Programs

- Global Study

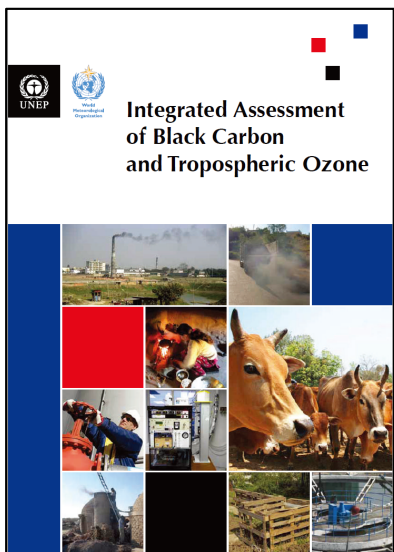
- ✓ Session 6: Closing

- Poster Award Ceremony

# Research on quantification of roadmap toward climate neutral society in Asian developing countries

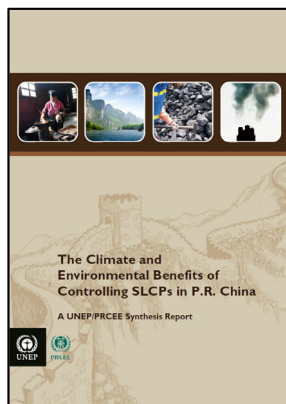


# Examples of UNEP CCAC Reports in the past & future

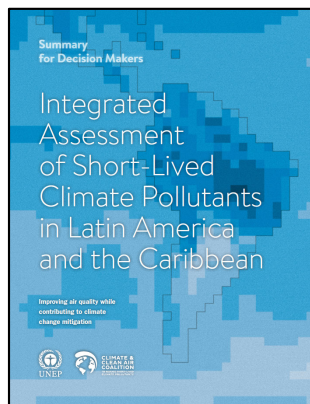


Integrated Assessment of Black Carbon and Tropospheric Ozone (2011)

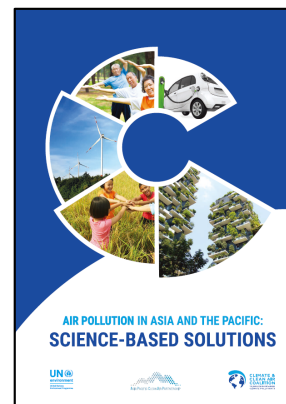
This report brought a trigger to start focusing on SLCPs globally



The Climate and Environmental Benefits of Controlling SLCPs in P.R.China (2015)



Integrated Assessment of SLCPs in Latin America and the Caribbean (2016)



Air Pollution in Asia and the Pacific (2019)



Global Methane Assessment: Benefits and Costs of Mitigating Methane Emissions (2021)

This report brought a trigger to launch Global CH<sub>4</sub> Pledge at COP26



What's next in plan?



[Today's Main Discussion]  
How can AIM team contribute to "Economic Assessment of SLCP mitigations" to bring a next global movement?

# Schedule of the 28th AIM International Workshop (3)

- Poster session

- ✓ Poster session has already started on September 7.
- ✓ Please give your comments and questions to each poster.  
Comment Sheet will be sent to aim-as-nies@nies.go.jp by September 30.
- ✓ By **3 pm on September 14 of Japan Time**, please vote for the best poster from the following URL or QR code.  
<https://forms.office.com/r/Lds3cmdcbf>



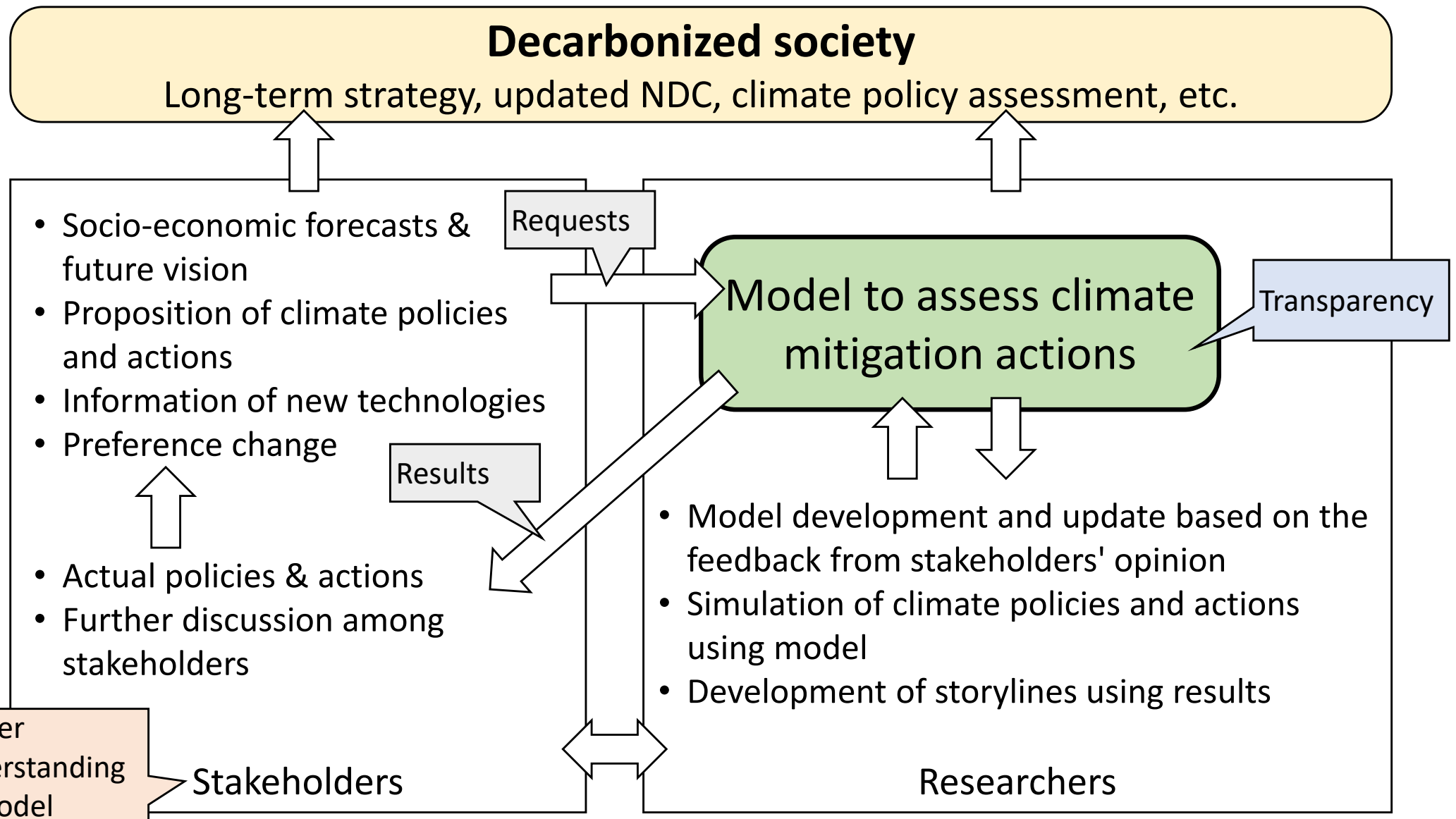
# Online training workshop on September 27-29, 2022

- With LoCARNet and Center for Climate Change Adaptation of NIES, the training workshop will be held at 13:00-18:00 on September 27-29, 2022.
- Anticipated participants are stakeholders including policy makers. The final goal is to give participants an understanding of the role of the model and an overview of AIM to build good communicate between model researchers and stakeholders.
- Day 1 (September 27, 2022)
  - ✓ Session 1: Opening
    - What is model and AIM? / Climate policy and AIM
  - ✓ Session 2: ExSS Extended SnapShot tool
- Day 2 (September 28, 2022)
  - ✓ Session 3: Climate change impacts & adaptation and AIM
    - Introduction of AP-PLAT / New CMIP6 tool "ClimoCast" / Climate Impact Viewer / Other AP-PLAT Tools
  - ✓ Session 4: AIM/Enduse
- Day 3 (September 29, 2022)
  - ✓ Session 5: AIM/CGE
  - ✓ Session 6: Discussion on how to apply AIM in your country
- If you want to attend this event to discuss with stakeholders, please access the following URL or QR code.

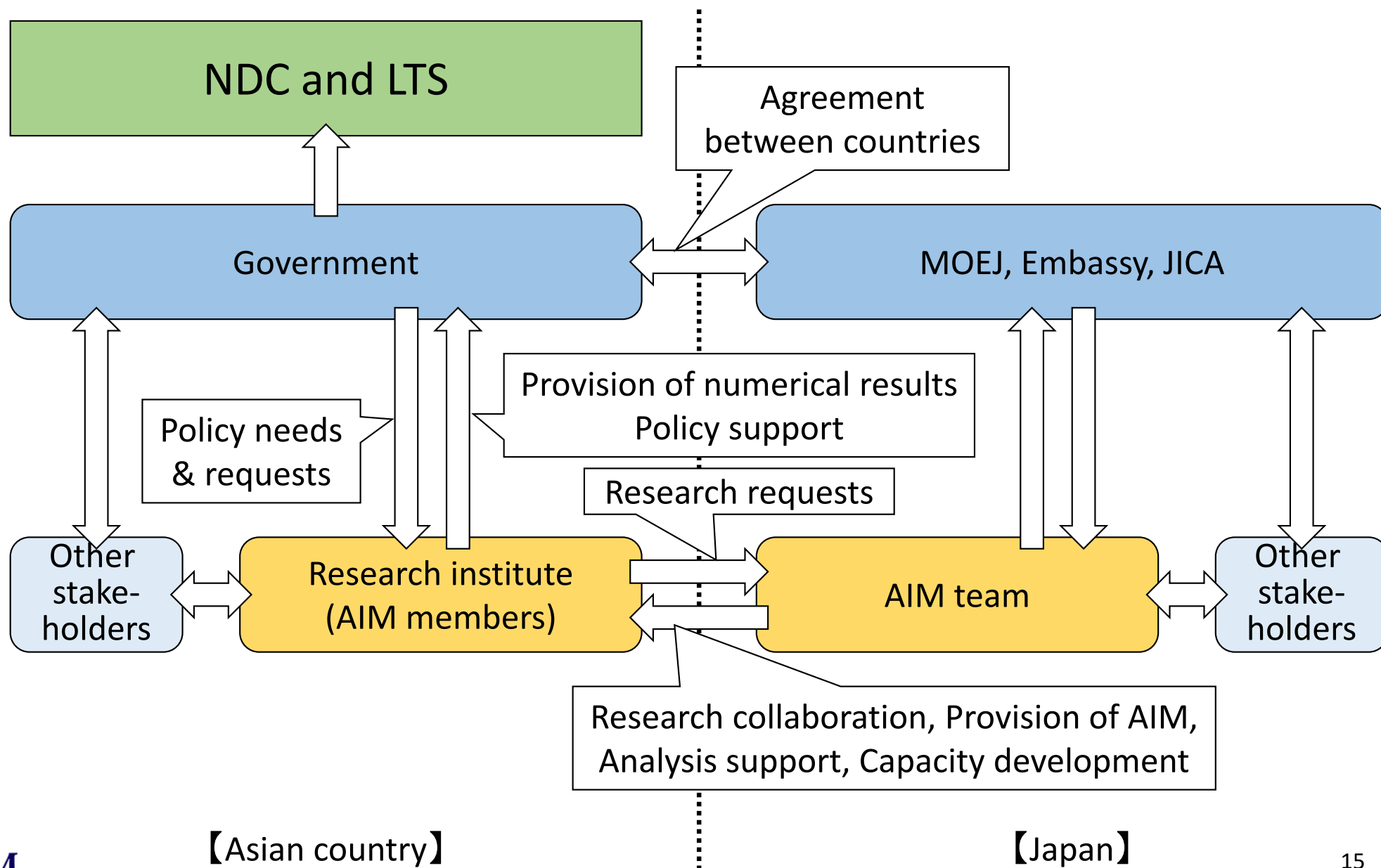


<https://forms.gle/8P7q58mx2qAwzEPx6>

# Interactions between stakeholders and model researchers to realize decarbonized society



# Expected structure to support climate policy in Asian country



Let's discuss to realize a decarbonized society