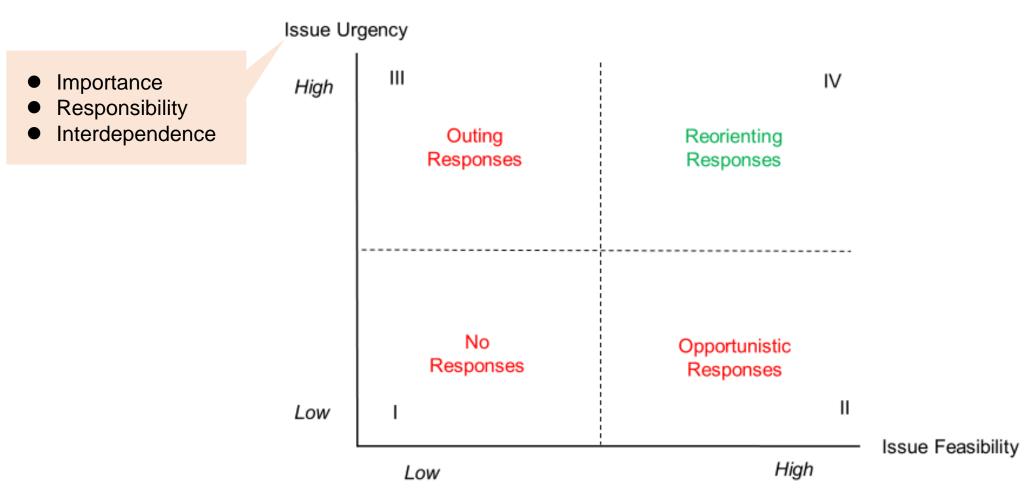
Capacity development for national GHG inventory: Lessons from JICA technical cooperation

Masato Kawanishi, Senior Advisor, JICA 4 November 2021 Kawanishi M, Lubis NA, Ueda H, Morizane J. & Fujikura R (2021) From Project to Outcome: the Case of National Greenhouse Gas Inventory in Indonesia, JICA Ogata Sadako Research Institute for Peace and Development

- ✓ This study analyzes how and under what conditions technical cooperation may generate catalytic effects on endogenous and long-term capacity development in developing countries.
- ✓ We use the case of JICA technical cooperation on national GHG inventory in Indonesia, where the task for producing GHG inventories was first outsourced to external experts but is now managed by the Ministry of Environment and Forestry (KLHK).
- ✓ This study finds that the technical cooperation interacted with changes in the institutional environment, catalyzing endogenous capacity development.

Model for strategic issue diagnosis:

Interaction of urgency and feasibility assessments of an issue and the relationship to organizational responses



(adopted with modifications from Dutton and Duncan 1987)

Evolving interpretations of the **national GHG inventory issue** in Indonesia

Phase	Parking Phase	Run-Up Phase	Take-Off Phase
	(Mar 1994–Sep 2009)	(Sep 2009–Oct 2014)	(Oct 2014–Jul 2021)
Key Events	1994 UNFCCC	2009 Presidential announcement.	2014 Government restructuring.
	entered into force.		2015 Paris Agreement.
JICA technical			
cooperation			
Issue Urgency	Isolated issue.	National GHG inventory for tracking progress of	KLHK has consolidated
		the mitigation target.	responsibilities.
		The technical cooperation demonstrated the	
		impact on the reported GHG inventories.	
Issue Feasibility	Only few national	Staff of the ministry actively involved in the	GHG inventory calculations
	experts.	technical cooperation.	completed inhouse.
National reporting			2018 Second BUR.

Technical cooperation: effects on perceived issue urgency Pilot activities for improvements of GHG inventories in the waste sector

Dependence on IPCC default values



Improvements through collecting activity data & developing country-specific parameters



Substantial impacts on the reported GHG inventories for methane (CH₄) emissions from solid waste disposal sites (SWDs)

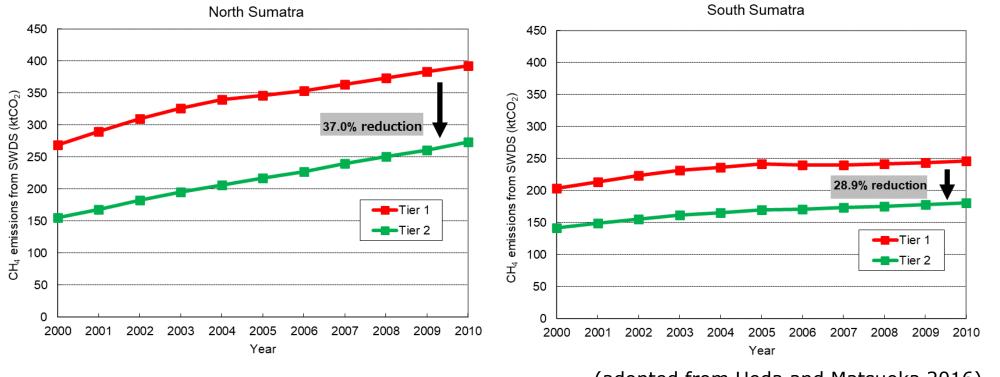


Diagram of catalytic effects of technical cooperation on endogenous capacity development

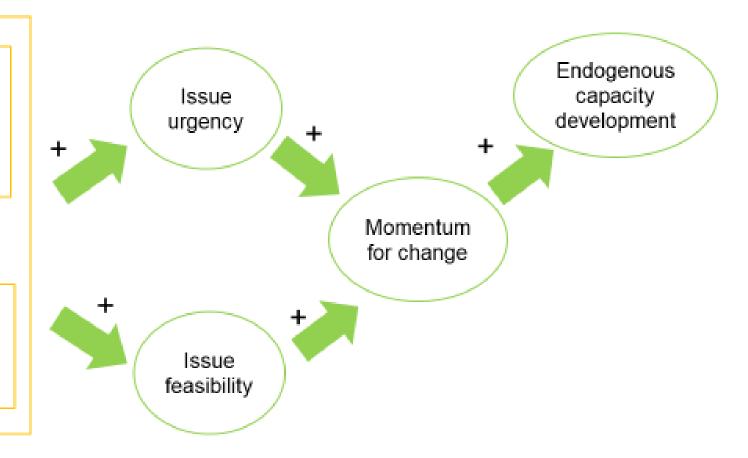
Changes in institutional environment:

- Presidential announcement (2009)
- Government restructuring (2014)
- Paris Agreement (2015)

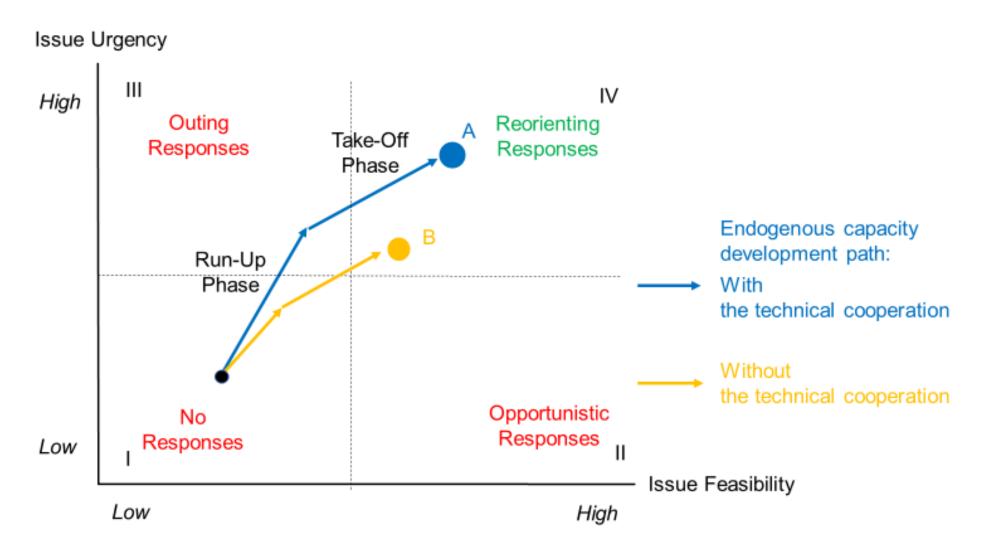


JICA technical cooperation:

- Impacts on the reported GHG inventories
- Active involvement



Changing positions of KLHK (formerly KLH) concerning the interpretations of the *national GHG inventory issue*



Thank you for your attention.

To find the research article, please visit JICA Ogata Research Institute at: https://www.jica.go.jp/jica-ri/publication/workingpaper/index.html

The research work was supported by the Mitsui & Co. Environment Fund and JSPS KAKENHI Grant Number 18H03449.