SCIENTIFIC CAPACITY DEVELOPMENT FOR MAINSTREAMING CCA

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UKM-LESTARI, IHM, IGES, MSSRF, UPLB

PROJECT OUTLINE

- Short Title: Policy Research on Mainstreaming Adaptation to Climate Change
- 3yr project led by UKM-LESTARI (Malaysia) with
 - 'Inside' partners: IHM (Vietnam), MSSRF (India) and IGES (Japan)
 - 'Outside partners': IEDM-KU, UPLB
- Components: identifying barriers to mainstreaming adaptation, measuring progress in mainstreaming, adaptive policies, and creating network of policy research institutions ARPNAP.

PRIORITY BARRIERS TO MAINSTREAMING CCA

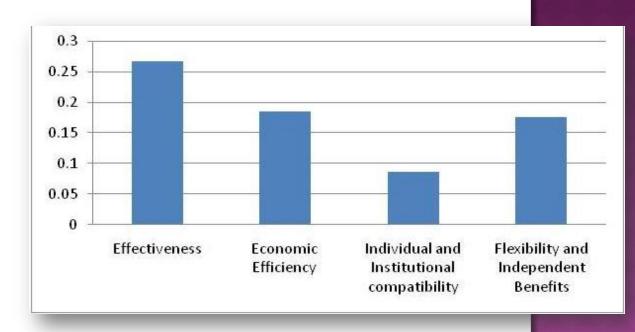
Country	Barriers							
	Scientific Information	Institutions	Scientific Capacity	Financing	Awareness	DS Tools (incl. Metrics)		
India	Local level	Fragmentation		Inadequate	Local level	Non-existent		
Japan		Mitigation priority		Inadequate		Non-existent		
Malaysia	Local level		Inadequate	Inadequate		Non-existent		
Philippines	Local level	Local capacity	Inadequate	Inadequate	Local level	Non-existent		
Vietnam	Local level		Inadequate	Inadequate	Local level	Non-existent		

Based on questionnaire surveys, expert consultations and focused group discussions with local communities

CRITERIA FOR CHOOSING POLICIES AND PRACTICES

Generic criteria emerging from all study countries (not in any order)

- Scalable
- Simple (Easy to adopt)
- Cost-effective/Costefficient
- Policy and institutional compatibility
- Robust (effective in diverse climate scenarios)
- Clearly addresses adaptation concerns (provides clear adaptation benefits)
- Easy to monitor



E.g.: Criteria for prioritizing policies and practices in India

MERE ADAPTIVE IS NOT SUFFICIENT

Food and agriculture self sufficiency policies introduced in Japan since 1940s

Period	Major Issues	Major Policies	
Reconstruction period (1940s-60s)	Labor flow, farm land, restoration of farming, declining farming population	Staple food control act, Agricultural cooperatives act, Agricultural land act, Act on agricultural mechanization	
Post-Agricultural basic act period (1960s-70s)	Labor flow, farming popoulation decline, environmental quality, income disparity	Agricultural basic-act, free trade, establishment of agricultural cooperatives	
Low economic growth period (1970s-80s)	Labor flow, farming popoulation decline, environmental quality, income disparity	Land use planning act, reconstruction of paddy fields, national rice cultivators committee	
Globalization period (1980s-90s)	Labor flow, farming popoulation decline, environmental quality, income disparity	Approval for GATT, free trade, new agricultural policy	
Structural reforms period (1990s-2000)	Farming population decline, farm land use change, aging of farming population	MAFF Env. Sound agriculture headquarters, staple food control act, new rice policy	
Realignment of agriculture (2000 onwards)	Farmland use change, rice excess production, decline in farming population, decline in farm land use, crop losses due to heat etc.	Restriction of GMOs by local governments, income compensation scheme for rice farmers	

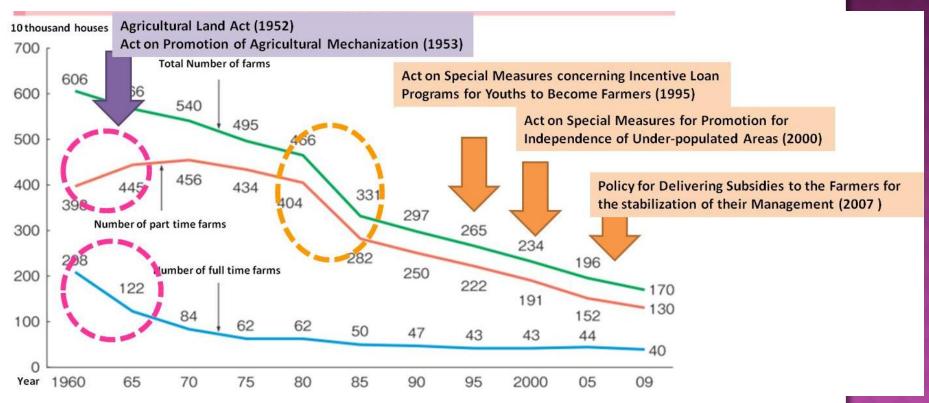
Source: Multiple sources

MERE ADAPTIVE IS NOT SUFFICIENT

Policy/Act	No. of Amendments	Time Period	Avg. changes per year
Agriculture cooperatives act	83	1948-2010	1.3
Agricultural land act	66	1953-2010	1.2
Food, agriculture and rural areas basic act	10	2000-2010	1
Land improvement act	55	1951-2011	0.9
Act on promotion of improvement of agricultural management infrastructure	19	1989-2010	0.9
Act on stabilization of supply, demand and prices of staple food	9	2000-2010	0.9
Act on special measures for promotion of independence for underpopulated areas	9	2000-2011	0.8
Act on special measures concerning incentive loan program for youths to become farmers	11	1995-2010	0.7
Staple food control act	27	1943-1994	0.5
Act on promoting the introduction of sustainable agricultural production practices	3	2002-2010	0.4
Agricultural improvement promotion act	16	1950-2004	0.3
Act on promotion of agricultural mechanization	13	1962-2006	0.3
Act on subsidies for agricultural improvement	16	1961-2010	0.3
Agricultural policy	3	1978-1999	0.1
Policy for delivering subsidies to the farmers for stabilization of agriculture	1	2009	0

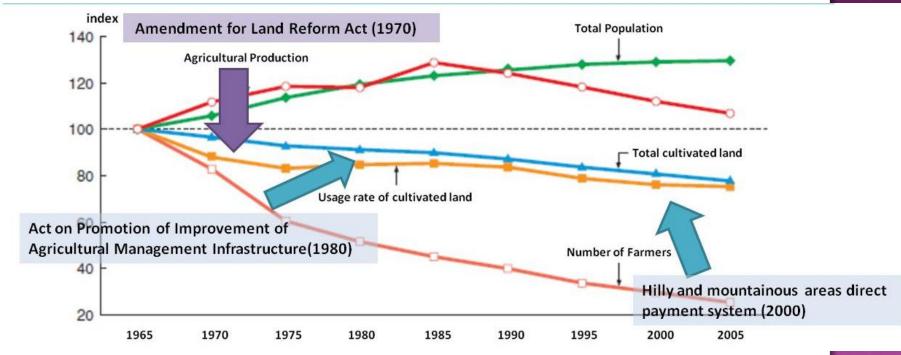
Source: Compiled from multiple sources

Adaptive vs Effective: Declining number of farmers



(Data source: MAFF, 2011a)

Adaptive vs Effective: Declining Agricultural Land



(Data source: MAFF, 2011b)

NOTE: Land usage change includes abandoning of cultivated land and farming land used for other industrial means

ADAPTIVE VS EFFECTIVE: LESSONS FOR CCA

- Answer if it is an adaptation issue,
- Achieve consensus within government and institutions responsible for their formulation and implementation,
- Prioritize 'effectiveness' over 'urgency to show response'
- Ensure feedback connections between policies and institutions, and
- Expect things to change as policies are to operate in a dynamic environment.

MESSAGES FOR THE RIO+20

- Means to reach and address issues at the local level are still at nascent stages and there is a need to strengthen the channels that connect various stakeholders to local level.
- Channel resources for direct capacity development at local level.
- Emphasize translating scientific information into points that aid in daily decision making.
- Greater need for developing decision support tools for ex-ante and ex-post decision making.
- Promote horizontal and vertical institutional collaboration

THANK YOU!

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