
Review of NEAC

- An Evaluation on the Effectiveness of NEAC -

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1. History of NEAC

Purpose and Action

▣ Background

- environmental science symposium between Korea and Japan(1988~1991)

▣ Purpose

- promoting exchanges of information and idea about regional environmental issues among countries
- strengthening environmental cooperation

▣ Main Action

- annual meeting
- introduce and exchange environmental status and relevant polices of each country



1. History of NEAC

Process of annual meeting

	Discussion Topics
The 1 st Meeting (1992.10, Niigata)	Information Exchange Network, Joint Survey for Acid Rain, Water Quality, Marine Pollution, Biodiversity, Joint Study, Case Study for Economical Method
The 2 nd Meeting (1993.9, Seoul)	Market Instruments of Environmental Management, Measurement Standard and Method for Environmental Pollution, Finding Joint Study Subject and Operation Method, Classification of Hazardous Waste, Role of Local Government for Local Environment Improvement
The 3 rd Meeting (1994.9, Kinosaki)	UNCSD Actions, Sustainable City, Biodiversity Conservation (measures and actions for SD in each country)
The 4 th Meeting (1995.9, Busan)	Role of Local Government for Agenda 21, Cooperation Method for Transboundary Environmental Problems, Countermeasure Plan for the Climate Change Convention, Hazardous Waste Safety Management, City Environment Management

1. History of NEAC

Process of annual meeting

	Discussion Topics
The 5 th Meeting (1995.9, Beijing)	Environmental Policy, law and Environment Management for Sustainable Development, Waste Management System and Regulation Method for Transboundary Illegal Transfer, Clean Technology and Integrated Pollution Control, Communication for Global Environment issues
The 6 th meeting (1997.10, Niigata)	Discussion for Acid Rain, Water Management, Biodiversity Conservation, Clean Production
The 7 th Meeting (1998.10, Jeju)	Conservation of Birds and Habitat, Groundwater Conservation and Management, Sustainable Index development , Hazardous Air Pollution Management
The 8 th Meeting (1999.1, Kyoto)	Environment Policy and Regional Cooperation Method, Environment Conservation Activity of Local Government, Local Government Cooperation in the North East Asia, Internet Use in Domestic and Global Environmental Cooperation



1. History of NEAC

Process of annual meeting

	Discussion Topics
The 9 th Meeting (2000.9, Ulan Bator)	Forest Conservation, Water Quality Pollution, Special Conservation Area Network, Capacity Building, Proposal of NEAC Framework by Korea
The 10 th meeting (2001.10, Incheon)	NGOs' Activities, Integrated Management Method for Sustainable Development in the Coastal Area, Eco-friendly Energy Use Policy and Cooperation
The 11 th meeting (2002.12, Hae Nam)	Environment Education and Environment Awareness , Water Environment and Air Quality, Outcome and Effect of WSSD
The 12 th meeting (2003.11, Toyama)	Symposium for Soil Deterioration and DSS, Environmental Issue and Policy, Marine Environmental Conservation, Construction of Resources Recycling Society
The 13 th meeting (2004.12, Seoul)	Construction of Database and Modeling for Air Quality Management, Species Restoration and Ecosystem Restoration cases of the Local Government, Discussion Sustainable industry Management

1. History of NEAC

Output of NEAC

- ▣ 13th Annual Meeting from 1992 to 2004
- ▣ Establishment of Discussion Channel among Environmental departments, Local governments, NGOs of participating countries
- ▣ Improvement of common understanding

2. Evaluation Method of Effectiveness

Definition and meaning of environmental cooperation(regime) effectiveness

- ▣ **Definition** :“a matter of the contributions that institutions make to solving the some environmental problems that motivate actors to invest the time and energy needed to create them”

Meaning of Environmental Cooperation Effectiveness

Approach	Meaning
Problem-solving	solving or mitigating of relevant problems
Legal	compliance of regime obligations or rules
Economic	cost/effective efficiency
Normative	fairness, justice, participation, so forth
Political	changes of institutions, interest and behavior of actors

2. Evaluation Method of Effectiveness

Evaluation Objects: Two variables

(1) independent variables:

- influencing factors of dependent variables (effectiveness)

(2) dependent variables (effectiveness):

- results and impacts of cooperation formation and implementation

2. Evaluation Method of Effectiveness

Evaluation method of independent variables

- main influencing factors on dependent variables: problem types, problem solving capacity, external factors

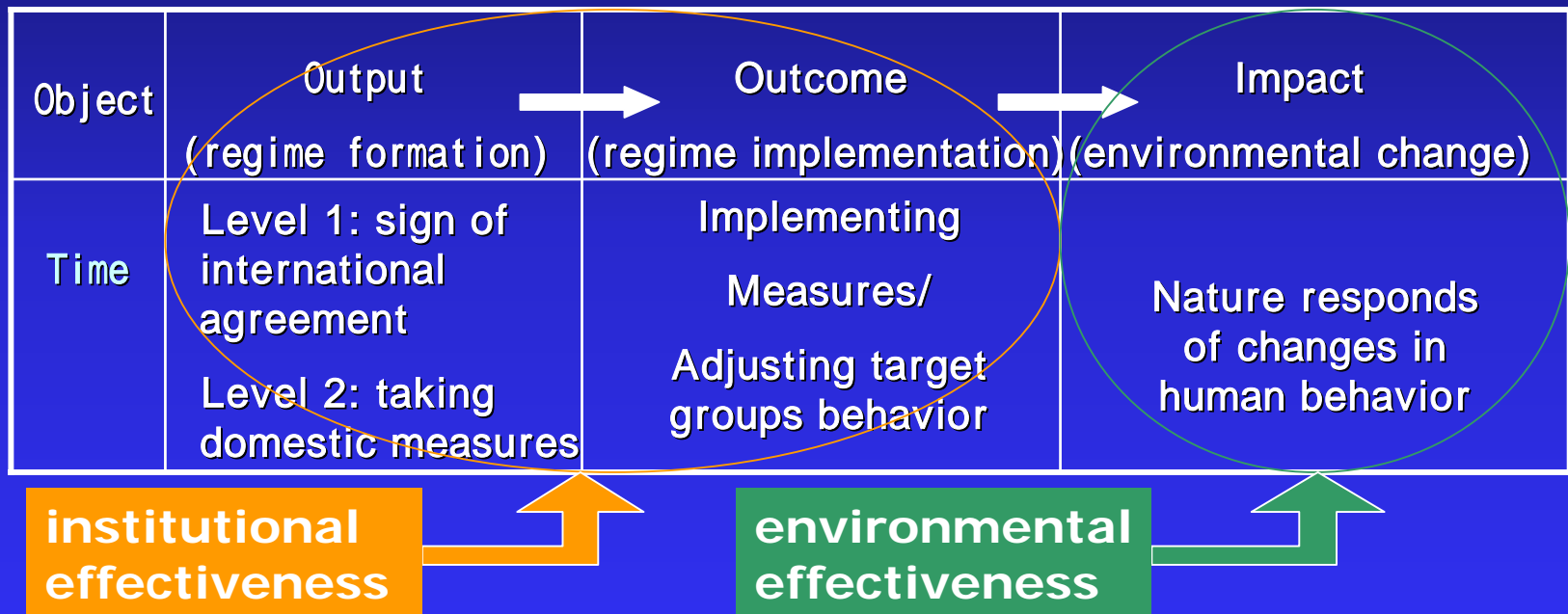
Evaluation method structure of independent variables

Fields	Evaluation Indexes	Criteria
Problem Types	relative difficulty of problems solving	easy/mixed/difficulty
	relative understanding of problems	high/middle/low
Problem Solving Capacity	institutional setting	high/middle/low
	distribution of power among actors	
	available skills and resources: Institutionalization, readership, epistemic community etc.	
External factors	linkage possibility with other easy solving problems	advantage/
	Inside motive of incentive of cooperation	disadvantage

2. Evaluation Method of Effectiveness

Evaluation method of dependent variables

- evaluating objects of dependent variables (effectiveness)
output, outcome, impact



2. Evaluation Method of Effectiveness

Evaluation method of NEAC: independent variables

Object	Range	Index	Criteria		
			strong	middle	weak
Problem(agenda) type/character	Interest/power relationship	Relative difficulty			
	Reason, state, respect, solution	Relative understanding			
Problem(agenda) solving capacity	Subject of cooperation	Representative			
		Leadership			
	Content of cooperation	Suitability			
		Possibility			
	Implementation mechanism	Institutionalization/consent level			
		Execution power			
	Available resources	Finance/human resources			
		Scientific knowledge/technology			
Epistemic community					
External factors	Level of regional cooperation				
	Existence of inside motive				
	Linkage of other issues				

omitting evaluation of some indexes considering character of NEAC

2. Evaluation Method of Effectiveness

evaluation method of NEAC: dependent variables

variables	object(role)	Range	Index	Criteria		
				strong	middle	weak
Institution	Learning Facilitators	Understanding	Improving degree of understanding			
	Utility Modifier	Interest/power Relationship	Alleviating conflict			
	Implementation Enhancer	Content Relevant Action	Achievement of goal/implementation			
			Introduction of policy/institution			
			Change of product/life method			
	Environment	Problem Solving Facilitator	Environmental State	Resources input		
Change of emission amount						
Change of pollution concentration						
			Change of eco-system			

only evaluating institutional effectiveness of NEAC

omitting evaluation of some indexes

3. Effectiveness Evaluation of NEAC

Influencing Factors: independent variables

Problem(agenda) type/character	<ul style="list-style-type: none">- character: a comprehensive forum meeting for exchanging information- low difficulty and conflict of agenda, but low understanding of NEAC's role owing to its unclear role in environmental cooperation in NEA
Subject of cooperation	<ul style="list-style-type: none">- supervision agency: environmental department of each country- imbalance between NEAC's character/role and supervision agency- low representative, leadership, execution power
Content of cooperation	<ul style="list-style-type: none">- only annual meeting and open discussion about relevant environmental issues- high possibility but low suitability
Implementation mechanism	<ul style="list-style-type: none">- decision making and implementing process based on voluntary participation- low institutionalization/consent level
Available resources	<ul style="list-style-type: none">- abundant human resources owing to implementation by relevant departments- Lack of financial resources, influencing regular annual meeting of NEAC
External factors	<ul style="list-style-type: none">- thin possibility of existence of inside motive- low direct Linkage of other issues

3. Effectiveness Evaluation of NEAC

Evaluation of NEAC's independent variables

Object	Range	Index	Criteria		
			strong	Middle	weak
Problem(agenda) type/character	Interest/power relationship	Relative difficulty			
	Reason, state, respect, solution	Relative understanding			
Problem(agenda) solving capacity	Subject of cooperation	Representative			
		Leadership			
	Content of cooperation	Suitability			
		Possibility			
	Implementation mechanism	Institutionalization/consent level			
		Execution power			
	Available resources	Finance/human resources			
		Scientific knowledge/technology	-	-	-
		Epistemic community	-	-	-
External factors	Level of regional cooperation	-	-	-	
	Existence of inside motive				
	Linkage of other issues				

NEAC has been located in very unfavorable conditions especially in character, implementation mechanism, available resources and motive expecting negative influence on cooperation effectiveness of NEAC

3. Effectiveness Evaluation of NEAC

NEAC's institutional effectiveness: dependent variables

Learning Facilitator	<ul style="list-style-type: none">- good effectiveness in improving common understanding of environmental issues and relevant policies in NEA
Utility Modifier	<ul style="list-style-type: none">- no existence of fatal conflict or important project- no evaluation contents of effectiveness in respect of conflict modification
Implementation Enhancer	<ul style="list-style-type: none">- no implementing duty except for hosting of annual meetings to exchange information and idea- low effectiveness in inducing countries to input resources, especially financial fields

3. Effectiveness Evaluation of NEAC

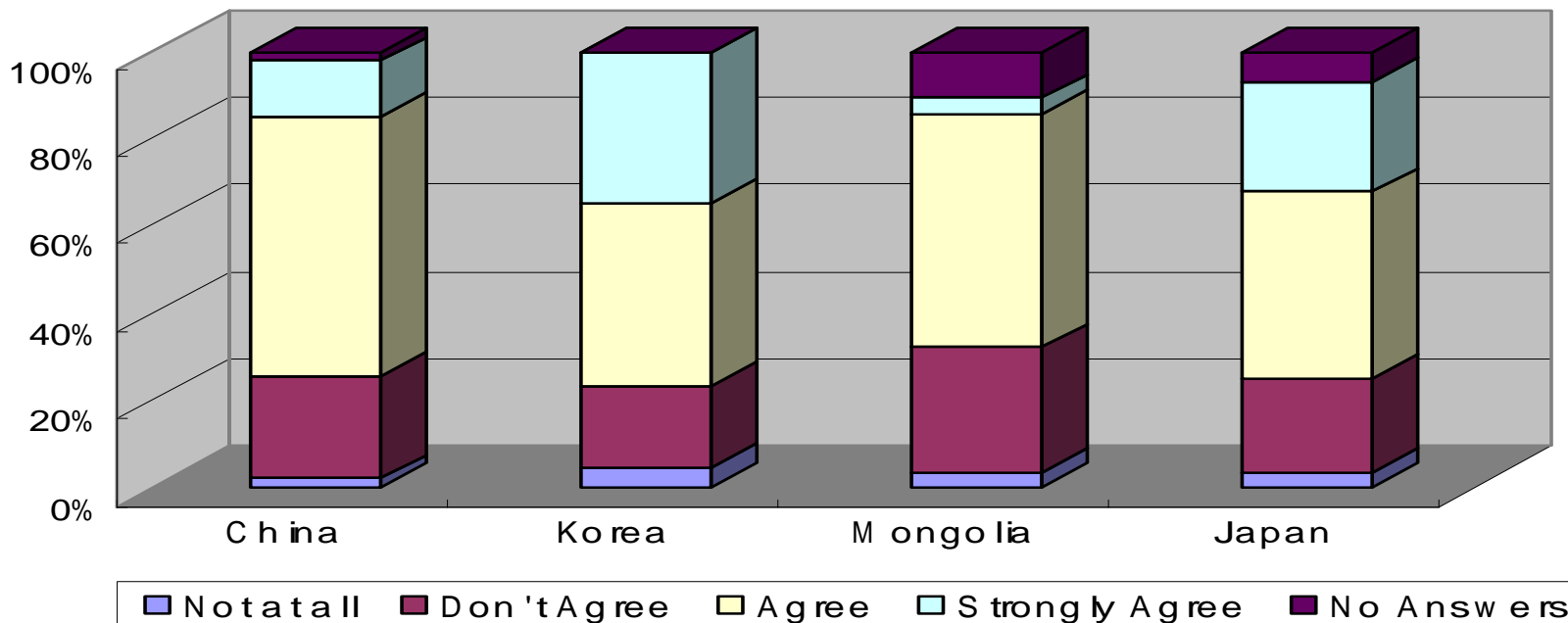
Evaluation of NEAC's institutional effectiveness

Variables	Object(role)	Range	Index	Criteria		
				strong	middle	weak
Institution	Learning Facilitator	Understanding	Improving degree of understanding			
	Utility Modifier	Interest/power Relationship	Alleviating conflict	-	-	-
	Implementation Enhancer	Content Relevant Action	Achievement of goal/implementation			
			Introduction of policy/institution	-	-	-
			Change of product/life method	-	-	-
			Resources input			
Environment	Problem Solving Facilitator	Environmental State	Change of emission amount	-	-	-
			Change of pollution concentration	-	-	-
			Change of eco-system	-	-	-

The institutional effectiveness of NEAC is very low owing to bad conditions excepting improvement of common understanding among participants NEAC has been only run annual meeting

3. Effectiveness Evaluation of NEAC

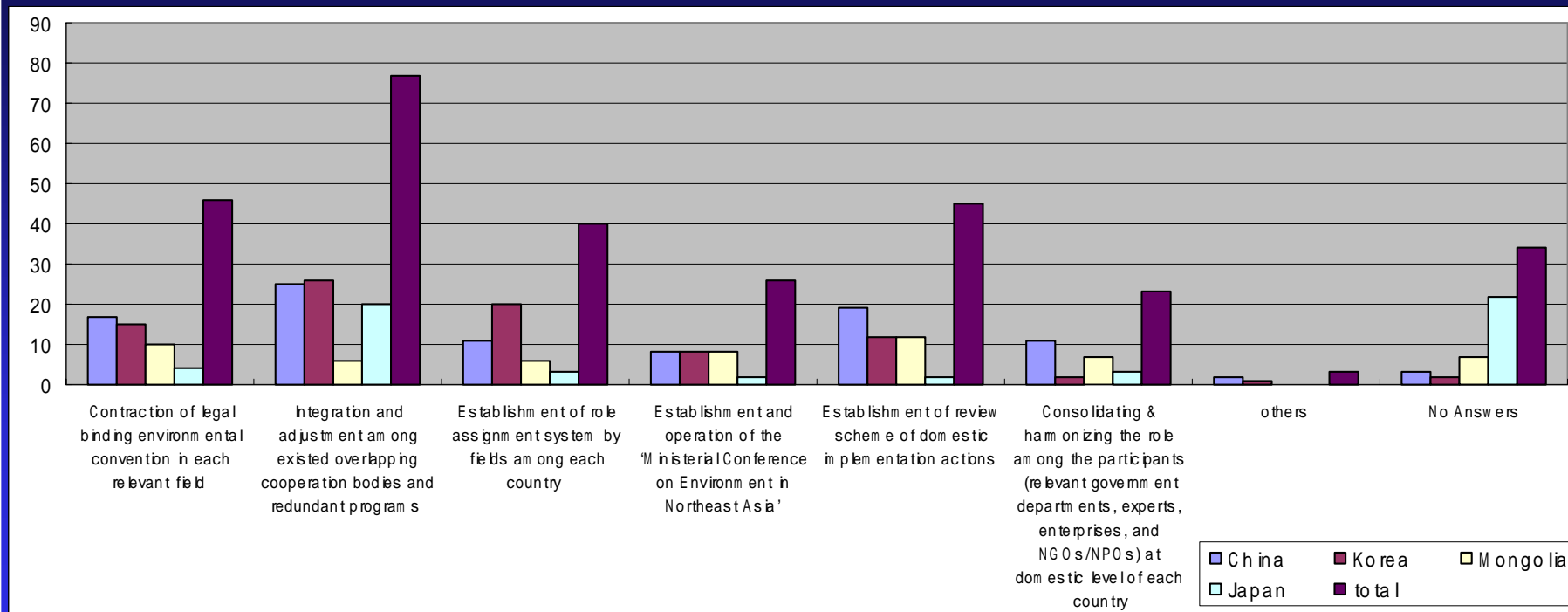
Survey result of need for coordinating relevant cooperation



69.9% of respondents of four countries agree that the regional environmental cooperation bodies or programs, those are currently having only an annual meeting, need to be coordinated to acquire the efficiency of cooperation

3. Effectiveness Evaluation of NEAC

Institutional reform field of cooperation Mechanism in NEA(survey)



The prior reform field in institutional aspect is the integration and adjustment among existed overlapping cooperation bodies and redundant programs

4. Challenges of NEAC

- ▣ Clearing and reconfirming NEAC's special role in environmental cooperation in NEA
- ▣ Coordinating relationship among relevant comprehensive cooperation bodies or programs, especially NEASPEC, TEMM and NEAC
- ▣ Enlarging relevant available resources, namely, human, finance and knowledge etc.

Thank you