Seminar on Japan's Environmental Center Approach to Social Capacity Development for Environmental Management in People's Republic of China

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Environmental Center Approach

Social Capacity Development for Environmental
Management in Developing Countries and
Japan's Environmental Cooperation

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Objectives of the Seminar

- To present the evaluation results on China's social capacity for environmental management and Japan's environmental cooperation, the Environmental Center approach
- To discuss future prospects of China-Japan cooperation for further social capacity development in China
- To discuss the possibility of East Asian environmental management regime

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- 1. Introduction
- **2.** Evaluation Tools
- 3. Evaluation Results
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1. Introduction

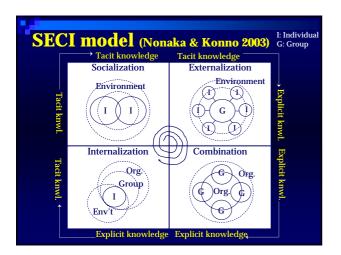
- 1-1. Recent Trends of International Cooperation
- 1-2. Japan Society for International Development (JASID)
- 1-3. Environmental Center Approach
- 1-4. Evaluation Objectives
- 1-5. Social Capacity for Environmental Management and Social Environmental Management System

1-1. Recent Trends of International Cooperation

Critiques for Technical Cooperation

- Capacity development at social level, in addition to individual and institutional level
- Respect for ownership based on participatory decision making process
- Focus on transforming tacit knowledge to externalized activities through knowledge networks / communities.

1. Introduction



Critiques for Technical Cooperation

- Long-term capacity building with outcomeoriented assessment
- Shift from experts-counterparts relationship to utilizing human resources of developing countries
- Introduction of market theory
- Decision-making and initiative by developing
- Management transfer from donor to developing countries
- Reformation of incentive structure of public sector JICA (2003)

JICA's Technical Cooperation

- Individual capacity building through enhancing
- Improvement of public functions to meet the needs of the beneficiaries
- Expansion of project impact through strengthening relations between institutions at the policy-making and field level
- Capacity Development of Stakeholders and development of mutual trust between government and the beneficiary

JICA (2003)

1-2. Japan Society for **International Development** (JASID)

Japan Society for International Development (JASID)

- A leading academic society in the field of international development in Japan since 1990
- 1,400 members from universities, government agencies, private companies in and outside of Japan

1-3. Environmental **Center Approach** Interdisciplinary studies and practices Bridging research and policy 1. Introduction

What is Environmental Center Approach? "Environmental Center approach", defined in Japan's ODA White Paper 1997, is a generic term for Environmental Center projects and aims to support capacity development in environmental sectors of the governments in developing countries.

Personnel training

Research

Training

Environmental Centers (1)

	Sino-Japan Friendship Center for Environmental Protection, China	National Environmental Research and Training Center, Mexico
Project	Sep. 1992 – present	July. 1995 – May 2002
Project purposes	Monitoring and analysis, research, training	Pollution abatement technology and environmental management
Env'l issues	All major issues	Air pollution, hazardous waste
Input	Grant aid: 10.5 billion	Grant aid: none
(yen)	Equipment: 0.2 billion	Equipment: 0.5 billion
Local agency	NEPA/SEPA	SEMARNAP/SEMARNAT

1. Introduction

Environmental Centers	(2)
Environmental centers	(~)

Equipment +

	Environmental Management Center, Indonesia	Environmental Research and Training Center, Thailand
Project	Jan. 1993 – present	Jan. 1990 – Mar. 1997
Project purposes	Environmental research, monitoring, information system and training	Environmental research, training and monitoring
Env'l issues	Water pollution, air pollution, hazardous waste	Water pollution, air pollution, noise & vibration, solid waste, hazardous waste
Input (yen)	Grant aid: 2.7 billion Equipment: 0.4 billion	Grant aid: 2.3 billion Equipment: 0.2 billion
Local agency	BAPEDAL/MOE	DEQP, MOSTE

1. Introduction

Building

1. Introduction

Environmental Centers (3)

	National Center for Environment, Chile	Environmental Monitoring Training, Egypt
Project	June 1995 – May 2002	Sep. 1997 – Aug. 2002
Project purposes	Environmental research, monitoring, information system and training	Monitoring network
Env'l issues	Water pollution, air pollution, solid waste	Water pollution, air pollution, Industrial waste
Input (yen)	Grant aid: 1.3 billion Equipment: 0.5 billion	Grant aid: 0.9 billion Equipment: 0.2 billion
Local agency	CONAMA (National Environmental Committee), Chile University	Environmental Agency

1. Introduction

1-4. Evaluation Objectives

Why Evaluate?

- Evaluation Objectives -

JASID undertook this evaluation research under the contract with JICA in order to

- answer the simple question "Have Environmental Center projects contributed to developing countries in solving environmental problems in these 15 years?"
- suggest further public & private partnerships between China and Japan to support social capacity development for environmental management (SCEM)

1. Introduction

1-5. Social Capacity for Environmental Management and Social Environmental Management System

What is SCEM & SEMS?

Social Capacity for Environmental Management (SCEM)

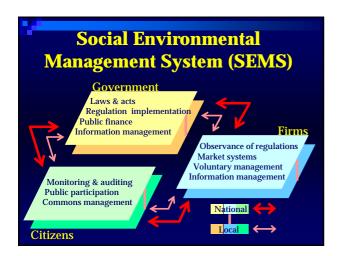
Overall capacity to deal with environmental problems through social actors' individual and interactive efforts.

= Capacity that enables Social Environmental Management System (SEMS) to function.

Social Environmental Management System (SEMS)

Social system which consists of the three major actors, the government, firms and citizens and their interactions to manage environmental problems.

1. Introduction





2. Evaluation Tools

- 2-1. SCEM Concept
- 2-2. SCEM Benchmarks & Indicators
- 2-3. SCEM and Institutional Change
- 2-4. SEMS Development Stages and Entry/exit Points of Environmental Cooperation

Evaluation Viewpoints

SCEM Analysis

How has China's SCEM developed?

■Entry/exit Points of Environmental Cooperation

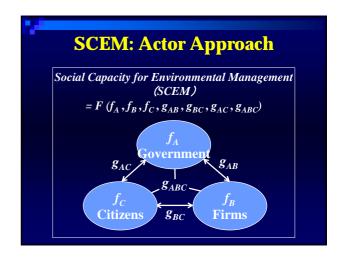
Was the Sino-Japan Friendship Center project implemented at an appropriate period?

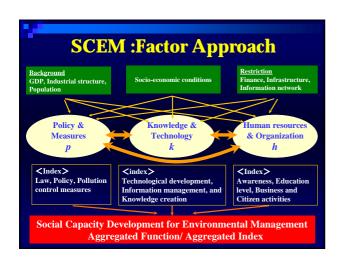
Project Design at Program Level

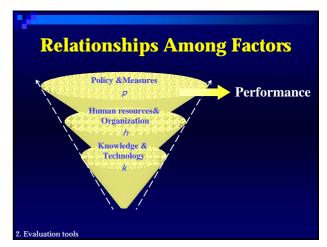
Was the project designed well enough to contribute to development of China's SCEM?

2. Evaluation tools

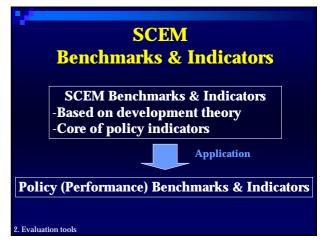
2-1 SCEM Concept



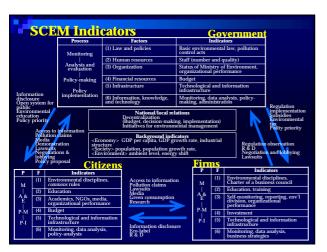


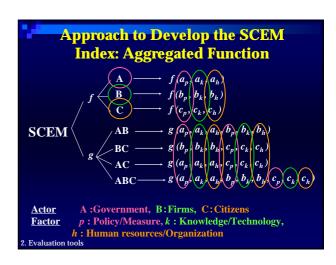


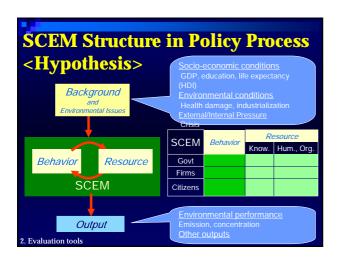




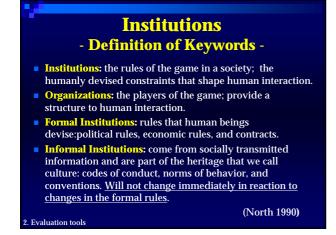
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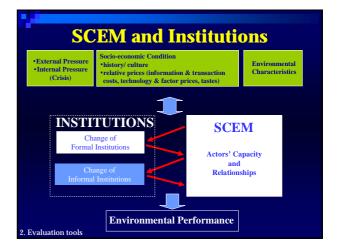


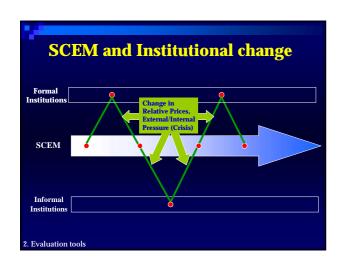


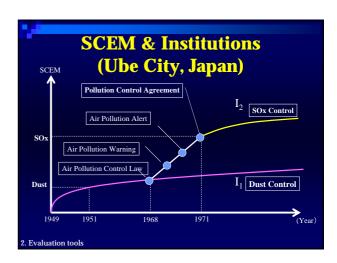




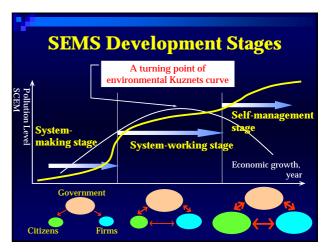












System-making Stage Stage in which basic capacity of SCEM, especially governmental institutions are developed. Major environmental Poverty-related issues, issues industrial pollution Industrial pollution Degraded Three actors Predominantly government Relations among the Government -> Firms Government -> Citizens Benchmarks (essential) Environmental law Environmental agency **Environmental information** 2. Evaluation tools

System-working Stage Stage in which relations between the government and firm sectors become stronger by setting the incentives for pollution abatement. Industrial pollution improves after reaching its peak in the middle of the period. Major env'l issues Industrial pollution Turning point Industrial pollution Three actors Government and firms Government - Firms Relations among the three Government - Citizens Benchmarks (essential) Regulation A turning point of EKC Evaluation tools

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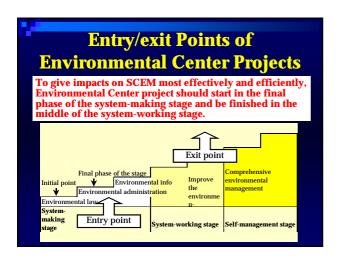
2. Evaluation tools

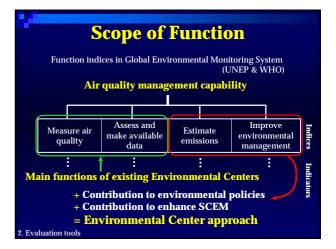
Self-management Stage

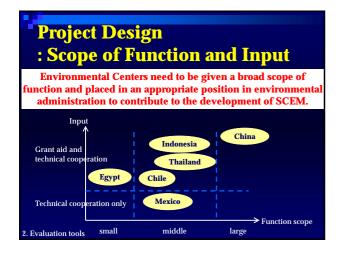
Stage in which comprehensive environmental policies are set up through harmonious relations among the three actors for effective social environmental management.

Major env'l issues	Consumption-related issues
Industrial pollution	Improved
Three actors	Government, firms and citizens
Relations among the three	Government – Firms – Citizens (interactive)
Benchmarks (essential)	Graduation from ODA Comprehensive environmental management

		valuation	
	Government	Firms	Citizens
<1> Individual capacity	Environmental law Environmental agency Monitoring & the State of Environment Regulations Comprehensive environmental management	Emission monitoring Pollution abatement investment Research and development Pollution abatement Voluntary approach	Environmental awareness, environmental NGOs Mass media Survey and research
<2> Interactive relations	→ Coordination dialogue → Incentives for pollution abatement → Enhancement of environmental business	← Regulation observance ← Strict voluntary standard ← Policy proposal	
<3> Interactive relations	→ Coorination dialogue → Information disclosure → Environmental education		← Lawsuits, claims, demostration ← Survey and research ← Policy research and proposal
<4> Interactive relations		→ Pollution date disclosure → Information disclosure on environmental management → Voluntary approach	← Lawsuits, claims, demostration ← Green consumption ← Survey and research
<5> National/loca l relations		Decentralization in laws, Industrial areas and rural	
<6> Multi- interactive relations		Dialoging "Ba(opportuniti Research and business in Personnel interactions	



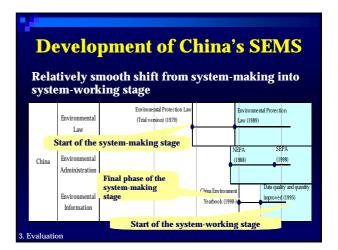


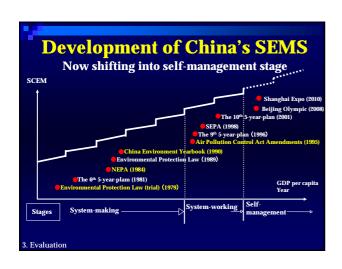


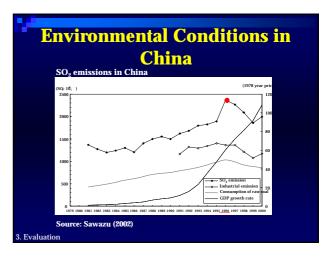


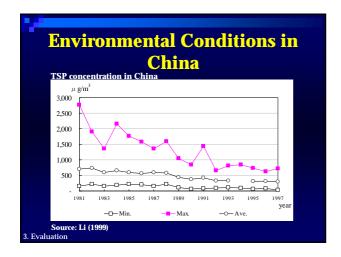
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3-1 Development of China's SEMS

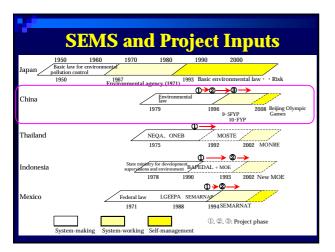


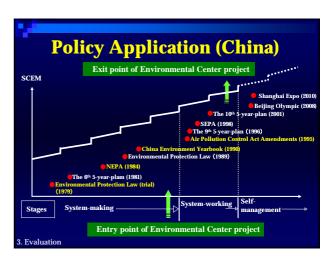








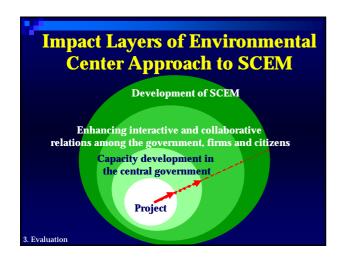


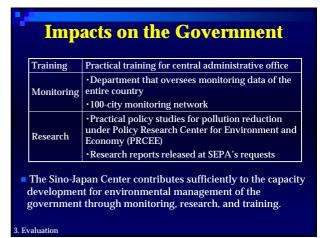


Entry/exit Points

China
Entry point (1992) was appropriate. The Environmental Center, now in its 3rd phase, has gone beyond the Environmental Center project. Advanced public-private partnership, central/local relationship are strongly expected.







Impacts on Firms and Citizens

Training	Training for NGOs.
ISO authorization	 Approved by the government in 2002 as an ISO 14000 certificate authority organization. 1,085 companies approved as of 2001.
Information dissemination	Annual environmental performance reports for 600 cities, daily air pollution level reports in 46 main cities Mass media's role has increased

- Since information disclosure and reports are restricted by the government's control, it is difficult to say that all information reaches the citizens
- The Sino-Japan Center has some impact on the citizens through joint projects with universities/research organizations and preparing environmental education materials. However, it needs to expand training beyond targeting NGOs.

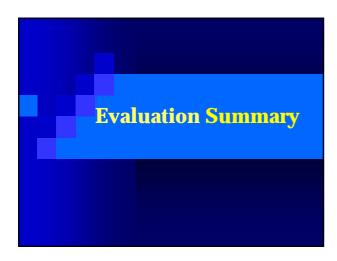
3 Evaluation

Impacts on the Local Level

Training	Training for the local environmental administration bureau directors/staff
Survey	•Data exchange with local monitoring stations •Environmental network, connecting 100 cities

- The Sino-Japan Center has become the representative organization for the training of environmental administrative officers and the government technology agency, including local representatives.
- Upgrading of local monitoring data in the central core is becoming easier, which will help strengthen the relationship between the central and local levels.
- Central-local relationships need to expand beyond training and monitoring data exchange.

3. Evaluation



Evaluation Summary (1)

- Overall, the Sino-Japan Center was successful in enhancing capacity building in environmental management in China, especially in government sector.
- Development of SCEM at the local level, especially in the inland provinces and the western region is the challenge the center faces.
- It is urgent to consider the center's new roles in China's self-management stage (after Phase III).

3. Evaluation

Evaluation Summary (2)

- The Sino-Japan Friendship Center for Environmental Protection works as a "window" actor in Japan-China environmental cooperation including business and research
- The center promoted externalization of each countries' tacit knowledge by exchanging explicit knowledge.
 - More than 50 short-term experts dispatched from Japan
 - Training in Japan, seminars, research in China
 - Partnerships among research institutions, universities, and private institutions from both countries

Future Roles of the Sino-Japan Center

- Medium between central/local governments and various organizations through joint researches/programs.
- Promoter of horizontal cooperation between China and Japan.

3. Evaluation

4. Steps Forward

Contribution of China-Japan cooperation to...

- Further enhancement of three actors' capacity and their relationships in China for self-management of environmental problems.
- SCEM development in the inland provinces and western region.
- Building East Asian environmental management regime.

4. Steps forward

China's Further SCEM Development

- 1. Policy-making
 - •Enhancement of each actor's capacity development
- 2. Dynamism of social capacity development and institutional change in China
 - •Consideration of influence of external & internal pressure to SCEM development
- 3. Appropriate measurement of SCEM
 - Development of SCEM benchmarks and indicators

4. Steps forward

SCEM Development in the Inland Provinces and Western Region

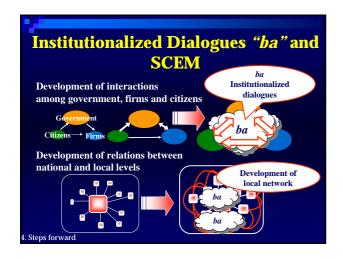
- 1. Government-oriented cooperation to crosssectoral cooperation
- 2. Focus on research / academic sector.
 (Strengthening local universities through human resource development and joint research with universities in the metropolitan areas)

4. Steps forward

East Asian Environmental Management Regime

- 1. Importance of dialogues for seeking common ground / common interests
- 2. China-Japan-Korea relationship for strong leadership
- 3. Horizontal cooperation (equal partnership) to build mechanism for sustaining regional common goods.

4. Steps forward



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