

# Co-Benefit Approach in JICA

The 18<sup>th</sup> Asia-Pacific Seminar on Climate Change  
Ha Noi, 3th March 2009

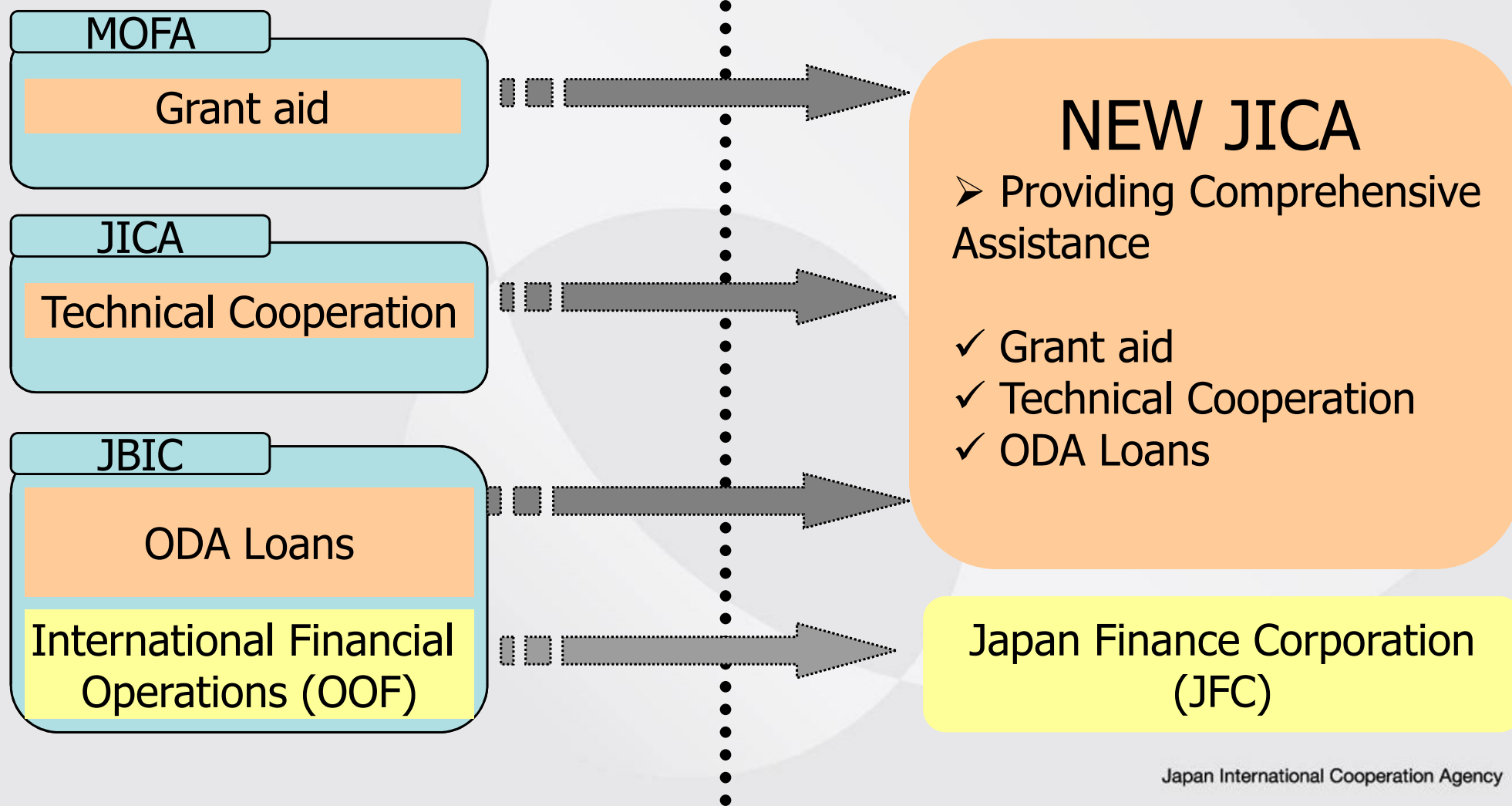
by Akiko URAKAMI,  
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- 1. Introduction of Japan's ODA**  
New JICA-Synergy from Integration of Three Aid Schemes-
2. Approach of Japan's ODA to Climate Change Measures
3. Current JICA's Operation and Case Projects
4. New JICA's Next Steps for Achieving Low Carbon & Climate Proofing Society

# 1. Introduction of Japan's ODA

New JICA -Synergy from Integration of Three Aid Schemes-

*Until September 30th, 2008* : *From October 1st, 2008*



1. Introduction of Japan's ODA  
New JICA-Synergy from Integration of Three Aid Schemes-

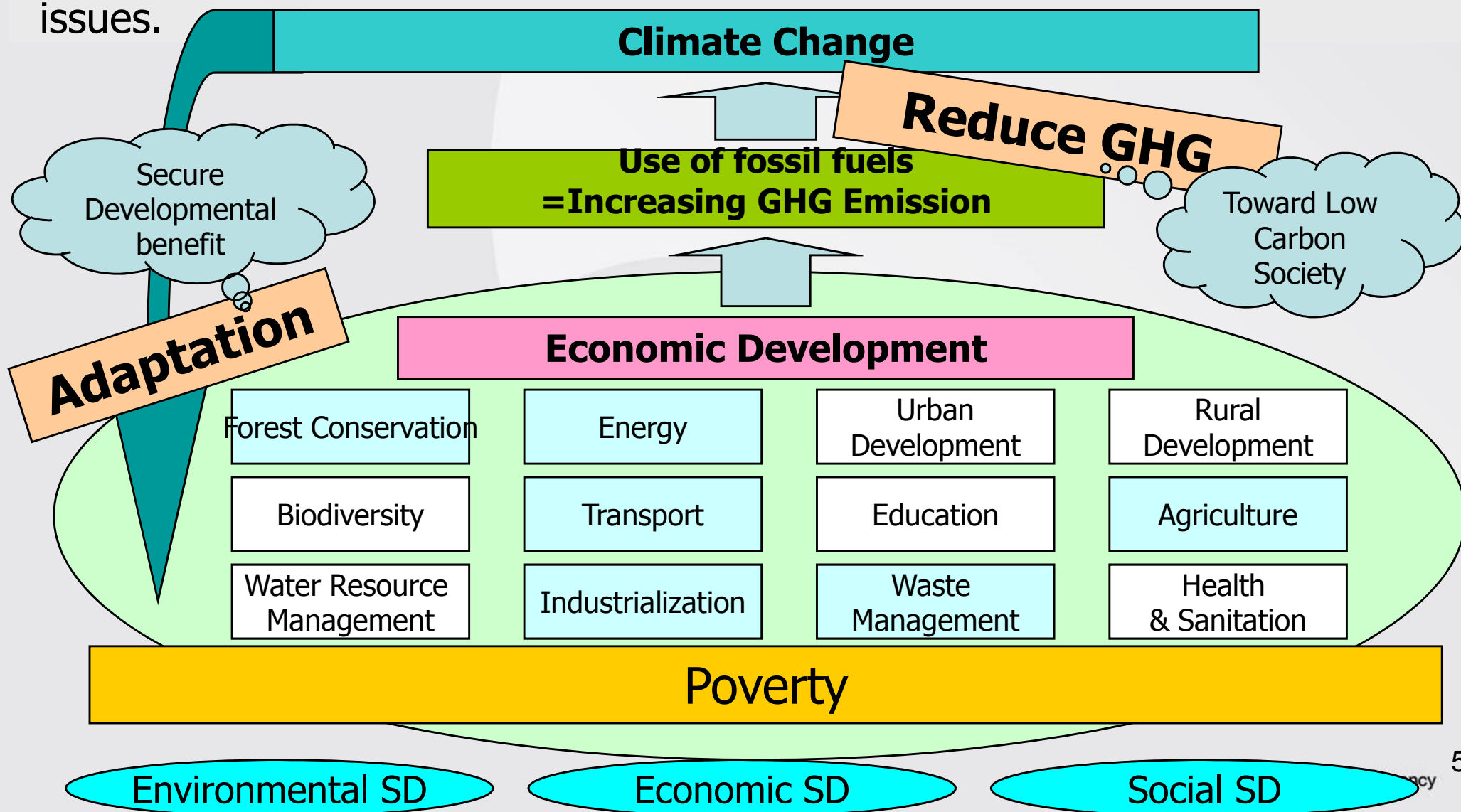
**2. Approach of Japan's ODA to Climate Change Measures**

3. Current JICA's Operation and Case Projects

4. New JICA's Next Steps for Achieving Low Carbon & Climate Proofing Society

## 2. Approach of Japan's ODA to Climate Change Measures (Ref) Development Agenda and Climate Change

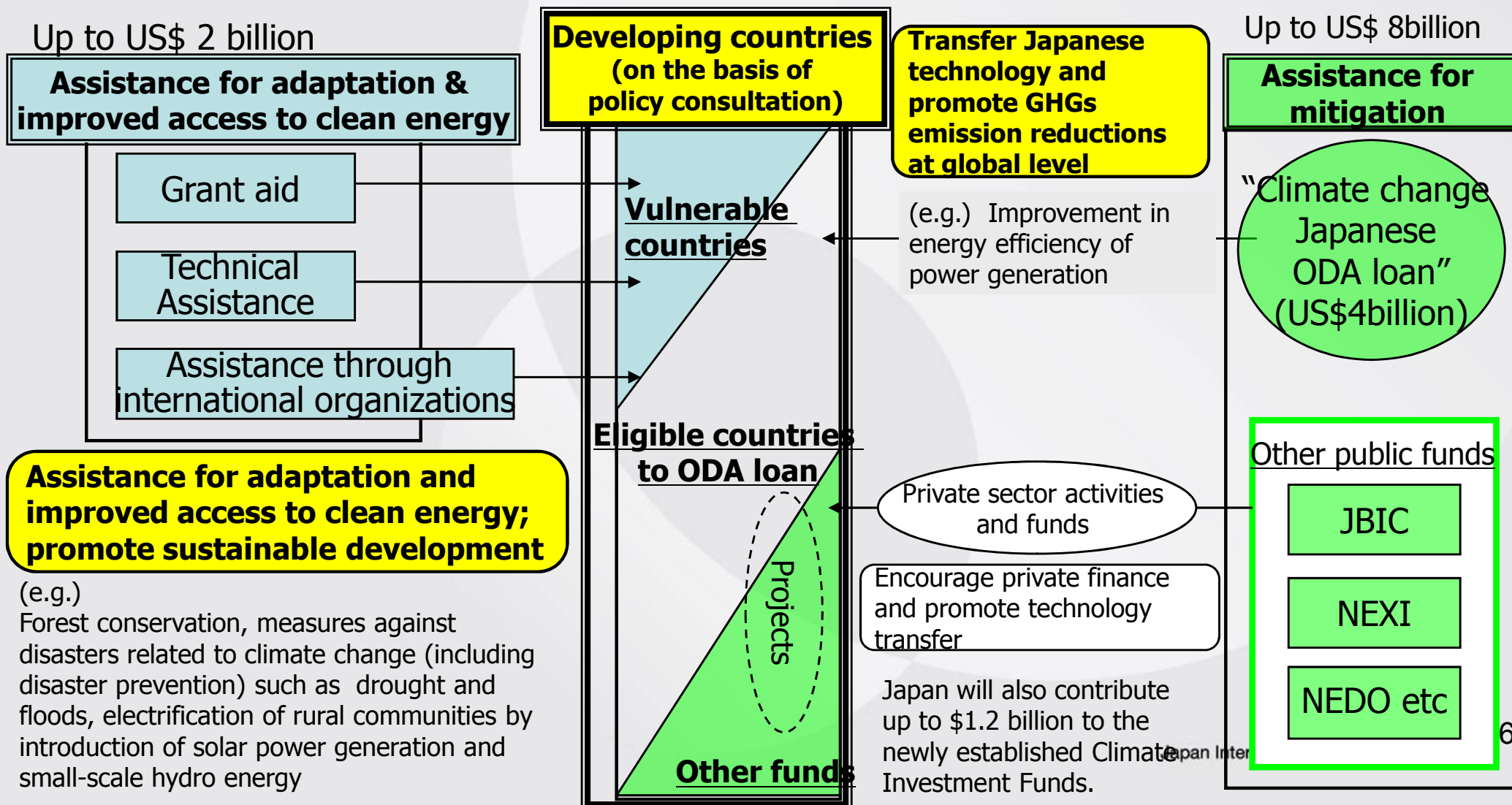
To provide cooperation for SD and reduce poverty in a compatible way, JICA will cooperate economic development in various areas and climate change issues.





## 2. Approach of Japan's ODA to Climate Change Measures Financial Mechanism "Cool Earth Partnership" (Image)

From 2008, Japan provides funds amounting to 10 billion USD in aggregate over the next five years to provide cooperation for developing countries make efforts to reduce GHG emissions and achieve economic growth.





## 2. Approach of Japan's ODA to Climate Change Measures "Cool Earth Partnership" (1/2)

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Japan will provide cooperation for Mitigation of Climate Change in up to 8 billion USD.

Mitigation of  
Climate Change

"Climate change Japanese ODA loan" with preferential interest has been created to provide loans amounting to 4 billion USD for the purpose of implementing projects to address global warming in developing countries.



## 2. Approach of Japan's ODA to Climate Change Measures "Cool Earth Partnership" (2/2)

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Japan will provide cooperation for Adaptation to Climate Change and Improved Access to Clean Energy in up to 2 billion USD.

Adaptation to  
Climate Change

Grant aid, Technical Assistance, and aid through international organization will be provided to address the needs in developing countries. A new scheme of grant aid, "Program Grant Aid for Environment and Climate Change", has been created as a component of this package.

Improved Access  
to Clean Energy

Feasibility study on rural electrification projects with clean energy and "co-benefit" projects that address climate change will be conducted.



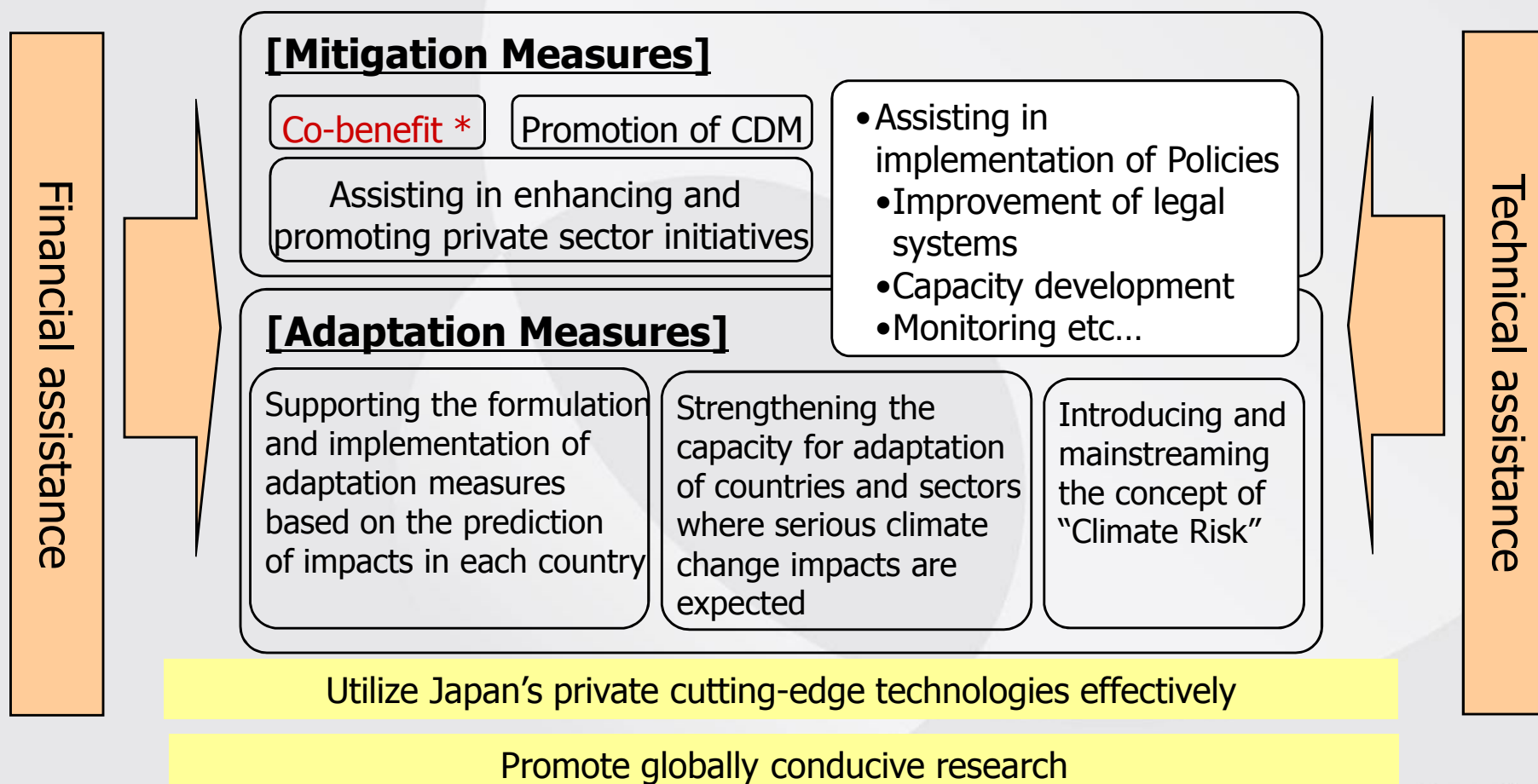
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# 3. Current JICA's Operation and Case Projects

## Direction of New JICA's Operation: Climate Change

JICA will enhance the approach of economic development and reduction of GHG emissions in compatible way.

### NEW-JICA's policies and concrete measures (Image)



\* "Co-benefit" approach ...Project or program which realize both developmental benefits for developing country and GHG emission reductions.



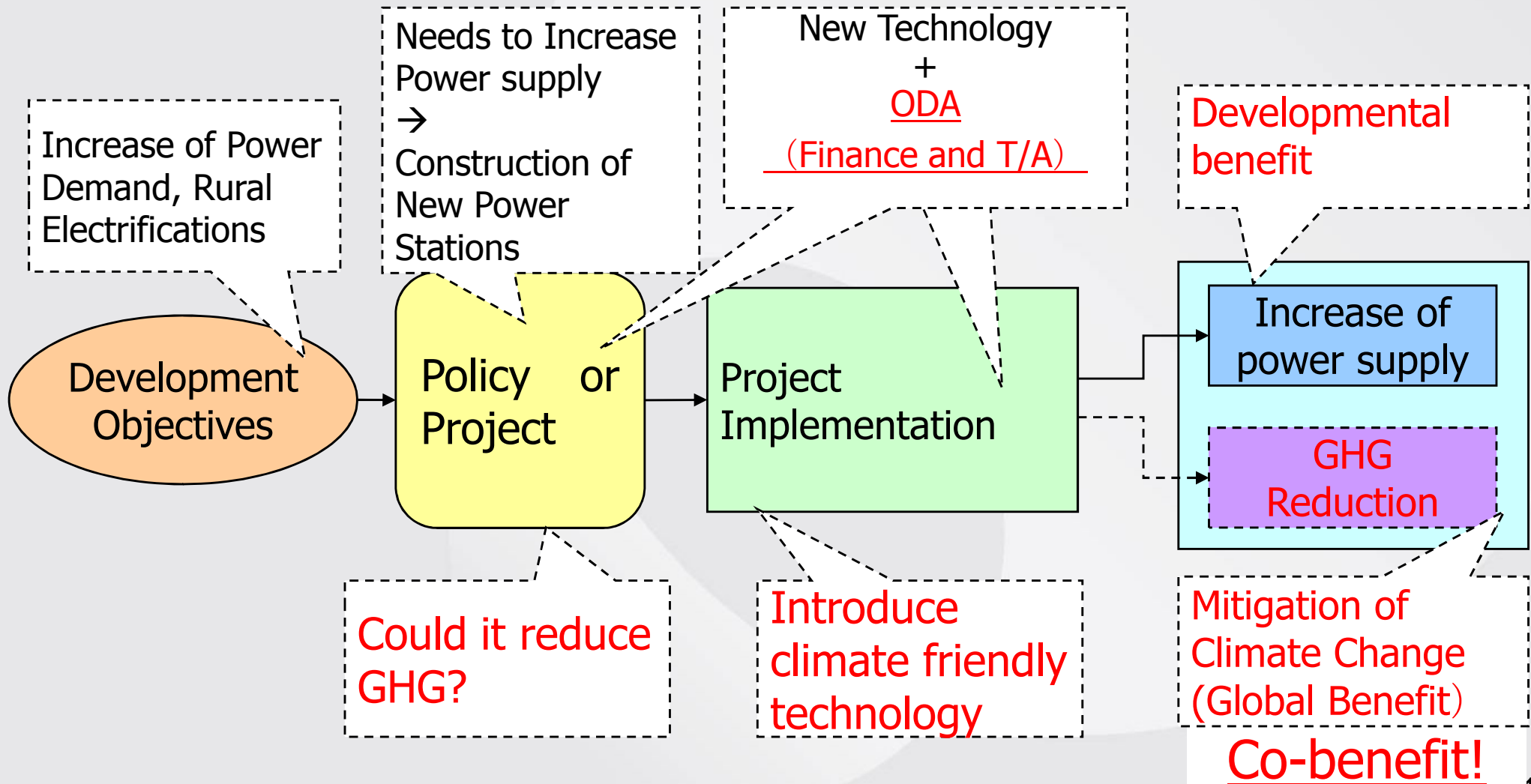
# 3. Current JICA's Operation and Case Projects

## Introduction of Case Projects

Mitigation Measures (Include Co-Benefit)	Case:1	Loan Project: Wind Power Plant in Egypt
	Case:2	Technical Cooperation Project: Implementation Support for 3R Initiative in Hanoi city
	Case:3	Program Grant Aid for Environment: Waste Disposal Management in Dhaka
	Case:4	Development Study: Potential eligible land distribution in Vietnam
Adaptation Measures	Case:5	Disaster Management in Bangladesh
	Case:6	JICA-WB-ADB Joint Study: Climate Change Impact and Adaptation in Asian Coastal Cities
Policy Based	Case:7	Policy Based Assistance for Climate Change

# 3. Current JICA's Operation and Case Projects To generate "Co-Benefit"

This is an example of Co-Benefit, a case of Power Sector.



# 3. Current JICA's Operation and Case Projects

## 1) Loan Project: Wind Power Plant in Egypt

This is an example of a Renewable Energy, Wind Power Plant in Egypt and the first project registered as CDM in Japanese ODA loan projects.

### Brief Overview

Loan Agreement

- Signed in Dec 2003 (13,497 mil. yen)

Implementing Agency

- New and Renewable Energy Authority (NREA)

Project Description

- Construction of wind power plant (120MW) in Zafarana on the coast of the Red Sea, 220 km southeast of the capital Cairo.

Effect of the Project

- Registered as CDM in June 2007
- Approx 250,000tCO<sub>2</sub>/year will be reduced.



(Image photo)



# 3. Current JICA's Operation and Case Projects

## 2) Technical Cooperation Project: Implementation Support for 3R Initiative in Hanoi city (2006.11 - 2009.11)

JICA will do environmental training activities and pilot activities of source separation and recycling systems to develop material-cycle society under the 3R initiative.

### Brief Overview

Project Purpose

- To develop a sound material-cycle society under the 3R initiative through a well-balanced 3R system based on source separation of organic waste and recycling

Main Project Activities

- Environmental training activities
- Pilot activities of source separation and recycling systems
- Formulation of action plan to extend the standardized program to central Hanoi city

Co-Benefit approach

- To reduce GHG emissions through promotion activities for the effective use of resources and waste reduction
- To reduce methane emissions from landfill site through making compost instead of dumping it in a landfill



On 1<sup>st</sup> March 2009, "3R awareness and recycling" festival was held!



Minimize waste amount through 3Rs !

Source Separation & Partnership!





# 3. Current JICA's Operation and Case Projects

## 3) Program Grant Aid for Environment: Waste Disposal Management in Dhaka

This is a program for improvement waste disposal management in Dhaka. JICA provided CNG truck and capacity building for implementing agency.

### Components of the program

Soft components	Environmental education to officers & workers at solid waste management office (Drivers etc)	Training /Institutional Development
	Vehicle O&M	
	Support for CNG introduction program/ training for safety	

Hard components	Low-carbon emission type waste collection truck	Container carriers, Arm-roll Trucks, Compactor collection vehicles
	Service garage	Improvement of service garage for vehicle maintenance
	Tools & Equipments	Provision of equipments for O&M of vehicles

### Potential Effect

Capacity Building for GHG reduction technology (O&M of CNG vehicles), Awareness raising



TA for vehicle operation planning



Tools & Equipments for Service garage

CNG use -> CO2 reduction



### 3. Current JICA's Operation and Case Projects

#### 4) Development Study: potential eligible land distribution in Vietnam

JICA will contribute to institution-building and implementation for climate change measures in forest sector of Vietnam.

##### The Government of Vietnam

- Utilize climate policy planning in forest sector
- Utilize demonstration activities implementation etc

##### Private Sector & Various Organization

- Utilize CO2 reduction project implementation
- Utilize tree planting activities in private sector

JICA's Development Study

Identification and Mapping of potential eligible land distribution scheme in forest sector

##### Carbon Storage Promotion Project in Forest Field

AR-CDM  
(TOR: 1)

REDD  
(TOR: 2)

Other  
(TOR: 3)

##### [Concrete Activities]

- Analyze satellite image
- Survey and Mapping of potential eligible land distribution
- Compilation of basic demographical and forest resource information
- Simplified estimation of climate change benefit and cost

Market share with potential Investors  
(TOR: 4)



# 3. Current JICA's Operation and Case Projects

## 5) Disaster Management in Bangladesh

This is an example of Adaptation and multi purpose Cyclone Shelter Project in Bangladesh.

- 80% of national land at an altitude of under 9 meters
- Excessive loss due to flood in rainy season and cyclone
- Construction of 91 two-story multi purpose cyclone shelters by 5 phase-long cooperation
- Combining cyclone observation system such as Metrological Radar System, cyclone shelters could work more effective to reduce damages from cyclones





### 3. Current JICA's Operation and Case Projects

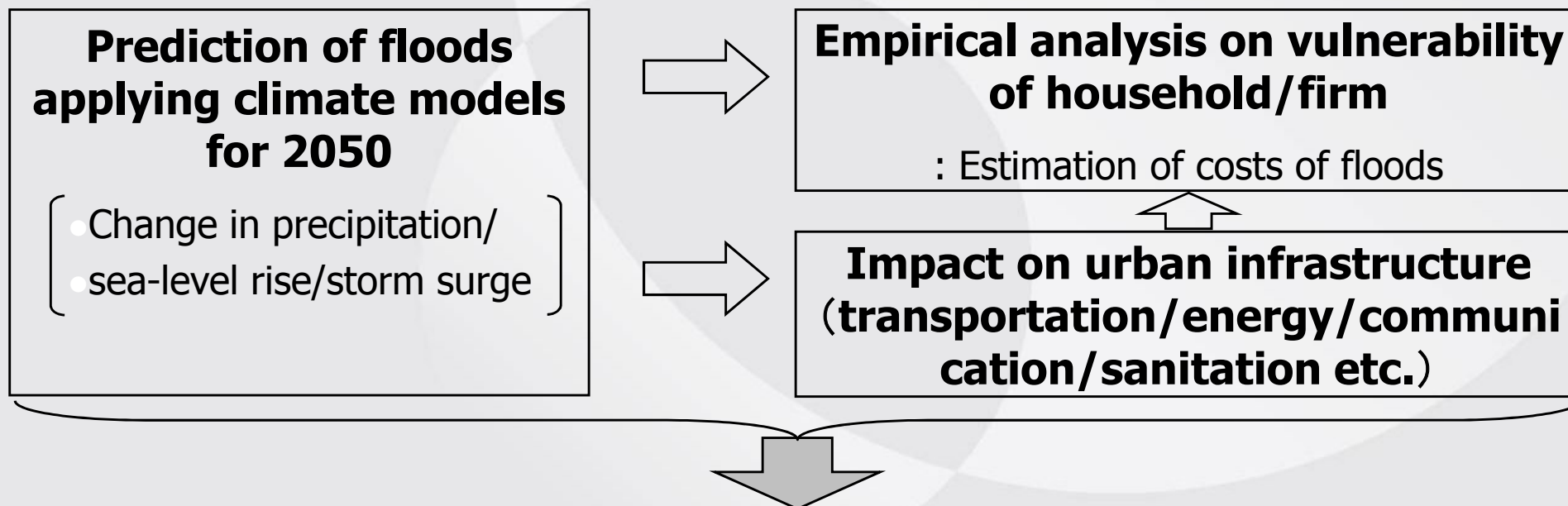
#### 6) JICA-WB-ADB Joint Study: Climate Change Impact and Adaptation in Asian Coastal Cities

JICA has studied the damage of some Mega cities in Asian countries influenced by climate change, especially flood.

#### Assessment on vulnerability to floods caused by climate change

<u>Cities</u>	JICA	: Manila
	World Bank	: Bangkok and Kolkata
	ADB	: Ho Chi Minh City

and others



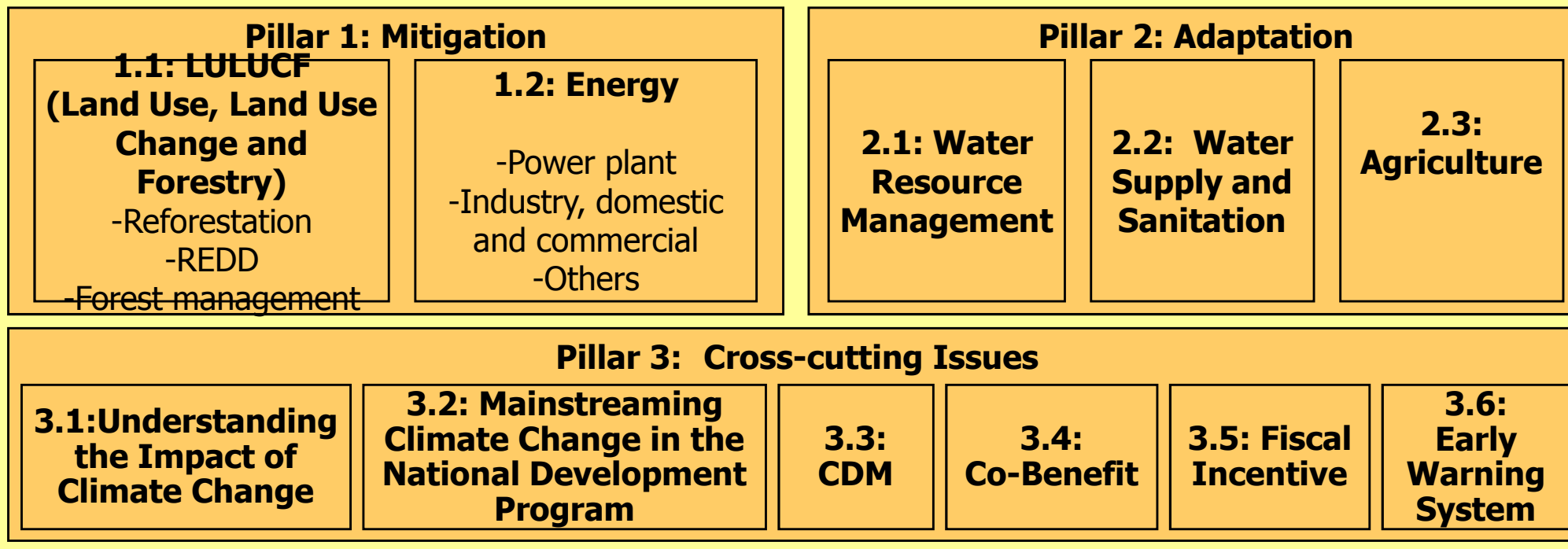
Adaptation and mitigation policies to climate change



# 3. Current JICA's Operation and Case Projects

## 7) Policy Based Assistance for Climate Change

### Example of the Policy Matrix formulated based on the policy dialogue



- Formulate the policy actions (policy matrix) in order to improve the related policy to Climate Change based on the policy dialogues
- The case here we set 3 policy pillars such as (1) Emission Reduction of GHGs (Mitigation), (2) Adaptation to Climate Change, and (3) Cross-cutting issues.
- The coming loan amount and policy reform agenda will be decided annually, while conducting continuous dialogue and monitoring concerning the implementation progress of the agreed policy matrix. 17

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## 4. New JICA's Next Steps for Achieving Low Carbon & Climate Proofing Society

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### New JICA's Next Step for Achieving Low Carbon & Climate Proofing Society

- (1) Promoting integrated cooperation addressing climate change measures in development cooperation
- (2) Aligning climate change and development based on the co-benefits approach
- (3) Realizing tangible development projects from the perspective of climate change mitigation and adaptation





“3R Awareness and recycling” Festival, Ha Noi (1<sup>st</sup> March 2009)

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