



The 23rd Asia-Pacific Seminar on Climate Change  
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Kanazawa, Ishikawa, Japan

# Experiences and lessons learned from JICA's activities to support mitigation actions in developing countries

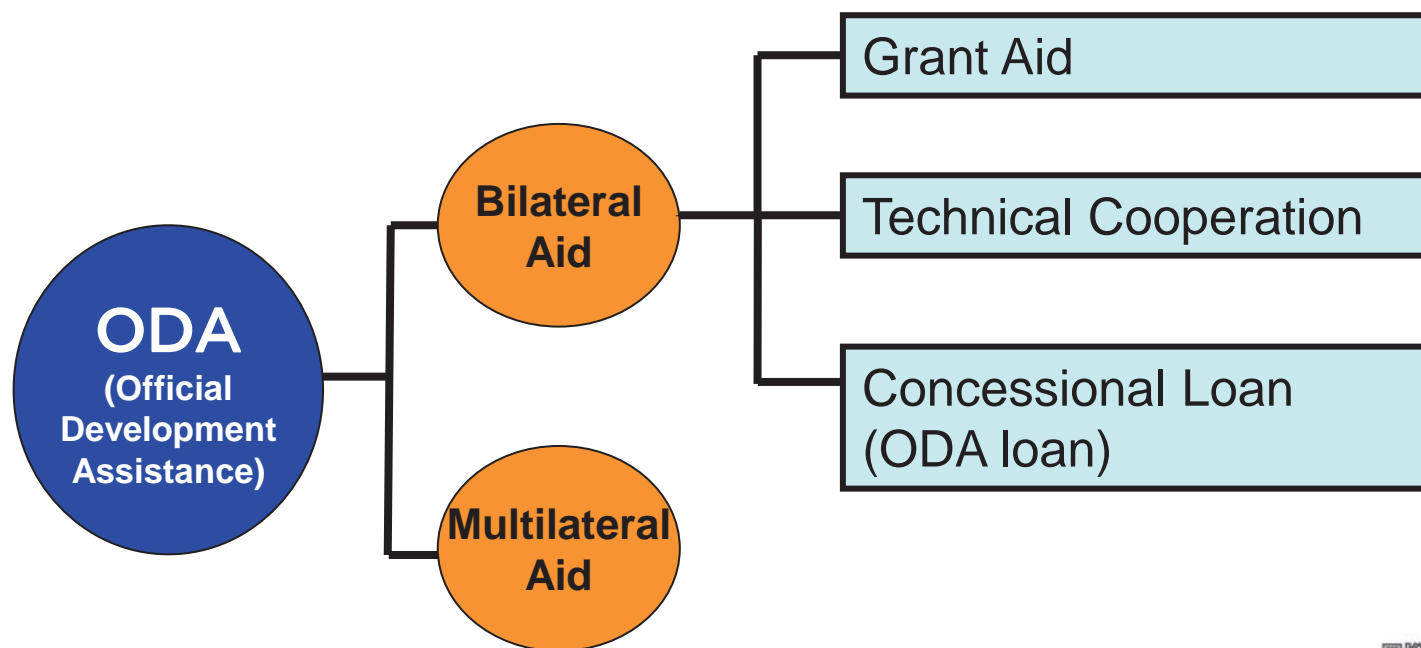
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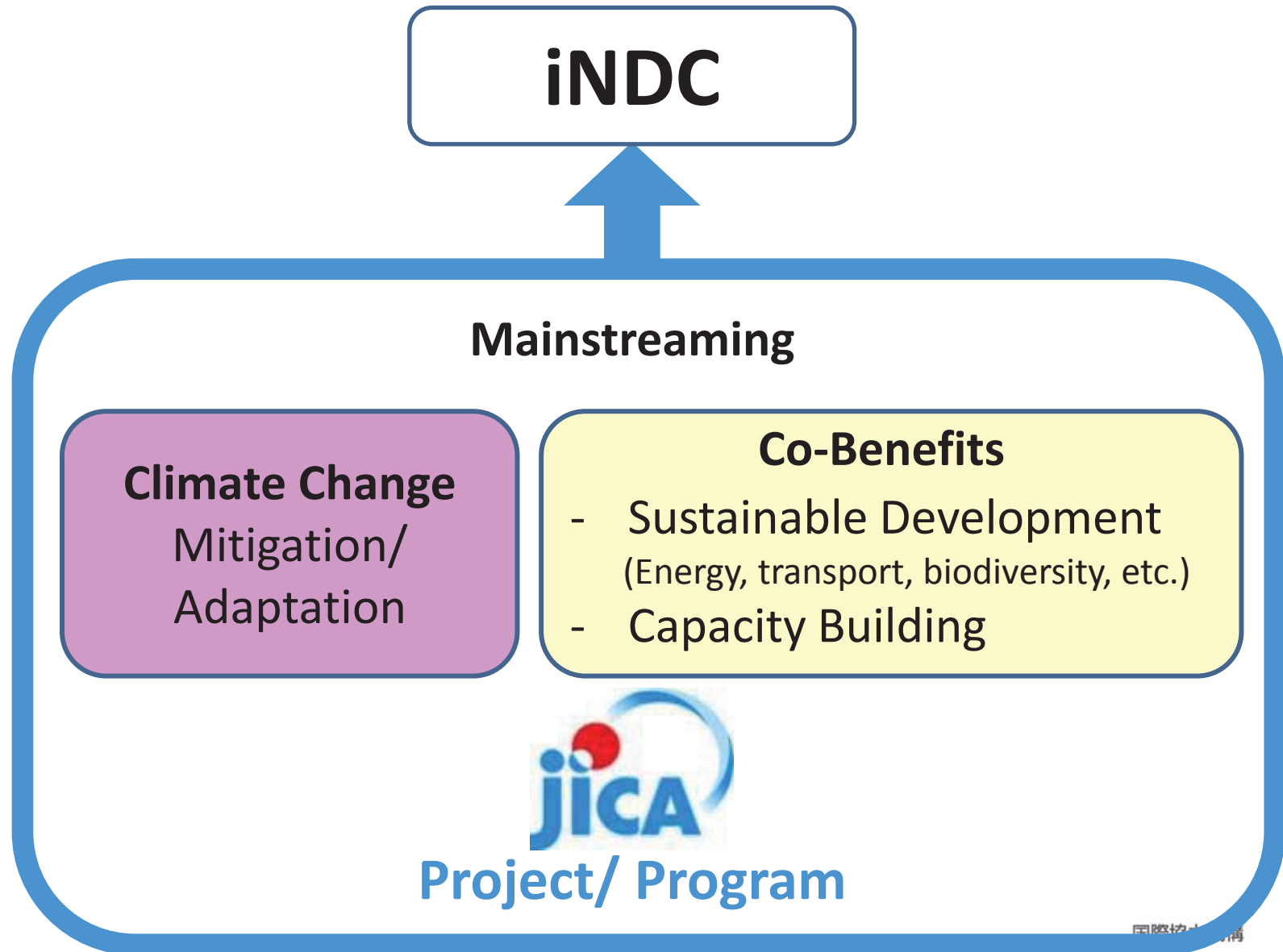
## About JICA

JICA extends Japanese ODA (Official Development Assistance) through integrated implementation of grant aid, technical cooperation and concessional loan.

Annual commitment was over US\$15 billion in 2013.



# Co-benefit as a Foundation of iNDC





# Project of Capacity Development for Climate Change Strategies in Indonesia (2010-2015)

**<Project Purpose>** Capacity Development of the Government of Indonesia to Formulate Climate Change Policies based on Sound Information and Approaches

**<Counterpart Organization>** National Development Planning Agency (BAPPENAS), Meteorological, Climatological and Geophysical Agency (BMKG), Ministry of Environment (KLH), Ministry of Agriculture (MOA), Local Government in Pilot Sites

**<Project Duration>** October 2010 – October 2015 (5 years)

## SUB-PROJECT1

### Mainstreaming of Mitigation and Adaptation In National Development Planning

■ Counterpart: National Development Planning Agency (BAPPENAS)

■ Sub-Project Purpose: Capacity development of the key ministries and local governments to formulate mitigation actions in a monitored, evaluated and reported manner and to integrate adaptation into developing planning

- Support for RAN/GRK secretariat
- Capacity development for Monitoring, Evaluation and Reporting (MER) of mitigation actions (Pilot Sites for RAD/GRK: North and South Sumatera)
- Support for National Adaptation RAN-API
- Background study for National Mid-term Development Plan (RPJMN2015-2019)

Mitigation/  
Adaptation

## SUB-PROJECT2

### Climate Change Adaptation Actions in Agriculture and Other Relevant Sectors

■ Counterpart: BAPPENAS, The Agency for Meteorology Climatology and Geophysics (BMKG), and Ministry of Agriculture (MOA)

■ Sub-project Purpose: Capacity development for promoting climate change adaptation actions in agriculture and other relevant sectors

- Analysis on climate variability and change and of its communication
- Climate change adaptation practiced by farmer communities
- Improved comprehension of the importance of crop insurance in agricultural protection

Adaptation

## SUB-PROJECT3

### Capacity Development for National GHG Inventories

■ Counterpart: Ministry of Environment (KLH)

■ Sub-project Purpose: Capacity building for preparing national GHG inventories with cooperation among stakeholders

- Capacity development of inventory office (SIGN Center) inside KLH
- Institutional arrangement of national system for preparing GHG inventories
- Appropriate data collection and compilation, as well as quality assurance
- Preparation of GHG Inventory for 2008 and 2010

Mitigation

- ✓ Holistic Coordination by the National Development Planning Agency (BAPPENAS) and Japanese Experts
- ✓ Comprehensive and Flexible Approach to Climate Change Policy Needs, in Collaboration with Various Ministries/Organizations
- ✓ Collaboration with Local Organizations/Resource Persons

## Indonesia : JCM supports in “Capacity Development Assistance for Low Carbon Development”

### Background

- FS conducted under MOE and METI
- August 2013: JCM agreement
- October 2013: 1<sup>st</sup> Joint Committee
- January 2014: Issuance of a Deputy Minister's Decree on composition and function of JC and JCM secretariat

### purpose

Capacity strengthening of JC and JCM secretariat to implement tasks specified in Decree

### Outputs

1	Support for management of JCM secretariat <ul style="list-style-type: none"> <li>- Launch of JCM secretariat</li> <li>- Formulation of annual plan</li> </ul>	3	CB for monitoring & evaluation of JCM <ul style="list-style-type: none"> <li>- Design and implementation of monitoring &amp; evaluation (project/ scheme)</li> </ul>
2	Diffusion of JCM and CB of stakeholders <ul style="list-style-type: none"> <li>- CB plan</li> <li>- Manual, guideline, website</li> </ul>	4	JCM related policy assessment <ul style="list-style-type: none"> <li>- policy, finance, integration to low carbon development plan</li> </ul>



- Support for mitigation actions at national/ local level (planning, monitoring, reporting) under “Capacity Development for Climate Change Strategies”
- Mainstreaming of mitigation measures in development planning



# Bangkok Master Plan on Climate Change 2013 – 2023

(Project Period: 2013-2015)

## Bangkok Metropolitan Administration (BMA)

### Steering Committee chaired by Deputy-Governor of BMA

Participants: Representatives from the participating departments of BMA, TGO, OTP, PCD, NESDB, ONEP, DEDE, etc.

### Secretariat (Department of Environment, BMA)



### Working Groups

- ◆ Environmentally Sustainable Transport
- ◆ Energy Efficiency and Alternative Energy
- ◆ Efficient Solid Waste Management and Wastewater Treatment
- ◆ Green Urban Planning
- ◆ Adaptation Initiatives

#### <Background>

- ◆ Total GHG emission of Thailand is ranked 23th in the world (IEA, 2009)
- ◆ GHG emission of Bangkok accounts for 24% of total emission in Thailand, and per capita emission is as high as that of NY
- ◆ High potential of GHG reduction, especially in Energy and Transport Sector

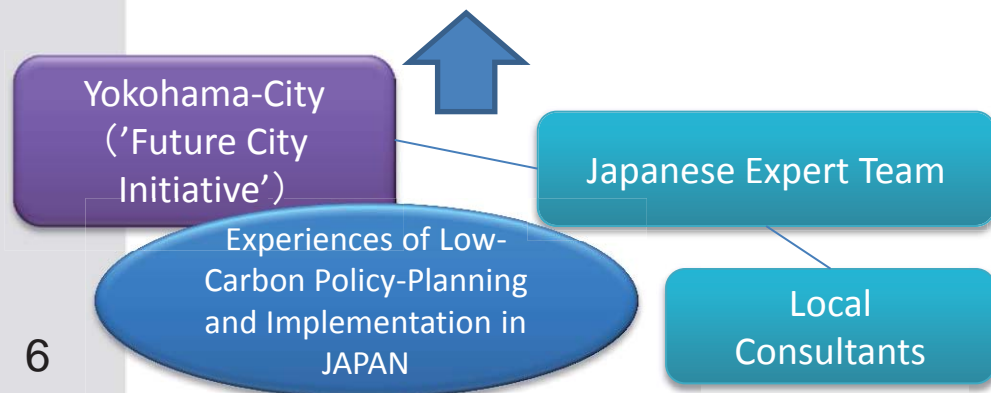
**Project Purpose** : The Bangkok Master Plan on Climate Change 2013-2023 is prepared with strengthened capacity for implementation.

### Output 1: Preparation of Bangkok Master Plan on Climate Change

- Assessment of the Bangkok Action Plan on Global Warming Mitigation 2007 – 2012
- Improvement of Data Collection, Methodologies for Estimation and Monitoring of GHG Emission
- Development of Sectoral Strategies
- Public consultation, Workshops and Seminars
- Dissemination of the Master Plan

### Output 2: Strengthened Capacity of BMA officials

- Training Programs for BMA officials
- Seminars/Workshops for Related Stakeholders
- Development of Educational Materials





# Project for Capacity Building for National Greenhouse Gas Inventory in Viet Nam (2010-2014)

Capacity Development through Developing Actual GHG Inventories

## Project Purpose

Development of Capacities to Prepare Accurate, Reliable and Periodical National GHG Inventories

## Outcome 1

Improvement of Institutional Arrangements for Collecting and Compiling Necessary Data for National GHG Inventories Periodically and Systematically

## Outcome 2

Promotion of Understanding on National GHG Inventories among Relevant Parties

## Outcome 3

Enhancement of Capacities to Manage Quality Assurance/Quality Control (QA/QC) of GHG inventories

**Implementing Organization** : DMHCC, Ministry of Natural Resources and Environment (MONRE)

### **Cooperating Agencies** :

- ◆ Institute of Meteorology, Hydrology and Environment (IMHEN)
- ◆ Institute of Strategy and Policy on Natural Resources and Environment (ISPONRE)
- ◆ Vietnam Environment Administration (VEA)

GHG Inventory Sectors	Related Ministries/Agencies
Energy	Ministry of Industry and Trade (MOIT), Ministry of Transportation (MOT)
Industrial Process	Ministry of Industry and Trade (MOIT)
Agriculture	Ministry of Agriculture and Rural Development (MARD)
LULUCF	Ministry of Agriculture and Rural Development (MARD)
Waste	MONRE, Hanoi Urban Environment Company (URENCO), etc.

# Project for Capacity Development on Climate Change Mitigation/Adaptation in the Southeast Asia Region (2013-2016)

## Training for Various Stakeholders

### Climate Change International Training Center (CITC)

Technical Cooperation Project with  
Thailand Greenhouse Gas Management Organization (TGO)

#### Output 1 Preparation / Setting up of CITC

- Training Needs Assessment
- Development of Training Materials and Curriculums

#### Output 2 Training Course Implementation

- Capacity development of
- TGO staff
  - Thailand participants
  - ASEAN participants

#### Output 3 Exchange with ASEAN Countries

- Sharing knowledge and experiences with ASEAN countries (Workshops, etc.)

#### Low-Carbon Society & Mitigation Mechanism Courses

-Comprehensive Programs on Low-Carbon and Resilient Society  
(Policies & Practices)

#### GHG Inventory Courses

-Targeted and Practical Programs for  
Management of GHG Inventories

*Collaboration with various organizations for development/implementation of training*

#### East Asia Knowledge Platform for Low Carbon Growth

- Experiences and knowledge on low-carbon policy and technologies  
(National/local government, private sector, civil society, etc.)
- Low Carbon Asia Research Network (LoCARNet)



# Papua New Guinea: Ramu Transmission System Reinforcement Project

ODA Loan

Loan Agreement	August 2013
Amount	8,340 million JPY
Completion	2020
Purpose	Supply of reliable power - reinforce existing power transmission lines - upgrade and repair substations
Benefit	- Stable power supply Decrease of blackout: 373.8 → 89.7 hours/y - GHG reduction: 1,700t-CO <sub>2</sub> /y

# Palau: Protection of Coral Reef

Grant/ Technical Cooperation/ SATREPS

2000: Japanese Grant Aid

**Palau International Coral Reef Center** established

2000-2012: JICA Technical Cooperation

- Institutional and Human resources Development
- Monitoring Scheme for Marine Protected Areas Network

2013-2018: SATREPS

- Ryukyu University (Okinawa)
- Protection and management of coral reef in Micronesia region
- Policy proposals on adaptive reef management, based on responses studies against multiple stresses



# Philippines: Stand-by Emergency Credit for Urgent Recovery (SECURE)

ODA Loan

Loan Agreement	March 2014
Amount	50,000 million JPY
Purpose	<p>Strengthen the country's capacity on disaster risk reduction (DRR) and management by:</p> <ul style="list-style-type: none"> <li>a) assisting the Government on the implementation of the policy actions</li> <li>b) responding to temporary financial needs when large-scale disasters occur</li> <li>c) supporting immediate recovery processes.</li> </ul>
Benefit	<ul style="list-style-type: none"> <li>- Formulation of National DRR and Management Plan and CB of local government</li> <li>- Introduction of integrated water resource management</li> <li>- Information management on disaster risk</li> </ul>



## Lessons Learned

Approach	<ul style="list-style-type: none"> <li>- Pursuit of Co-Benefit</li> <li>- Mainstreaming to development plan</li> </ul>
MRV	<ul style="list-style-type: none"> <li>- Continuous MRV at the recipient country side               <ul style="list-style-type: none"> <li>- JICA: ex ante, ex post</li> <li>- Recipient: future</li> </ul> </li> <li>- Linkage between Project level MRV and National level MRV (Inventory): Future issue</li> </ul>
iNDC	<ul style="list-style-type: none"> <li>- Utilization of accumulated efforts will be the first step               <ul style="list-style-type: none"> <li>- Review, identify, linkage</li> </ul> </li> <li>- iNDC is the process to declare climate change actions</li> </ul>

Thank you for your attention