

IJ-REDD+ PROJECT Indonesia-Japan Project for Development of REDD+ Implementation Mechanism

# JICA Effort to Mitigate Climate Change in Forest and Land Sector in Indonesia - IJ-REDD+ Project -

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#### EXPERIENCES OF RECENT AND ON-GOING JICA COOPERATION



# IJ-REDD+ Project

Indonesia-Japan Project for Development of REDD+ Implementation Mechanism (IJ-REDD+)

- RoD signed on February 4, 2013 by Ministry of Forestry Indonesia and JICA
- Duration: (June 2013 June 2016)
- Implementing Agency: Directorate of Environmental Services in Conservation Areas and Protection Forests, MoEF
- **\*** Target Provinces:
  - West Kalimantan, Central Kalimantan

#### Background

JICA`s long experiences of cooperation in the forestry sector in Indonesia

- Cutting edge technologies
- Biodiversity conservation
- Community participation

#### > Japan`s commitment for addressing global warming issues

- -Bilateral Document on Climate Change Cooperation between Indonesia and Japan (November 2011)
- -Joint Statement between MoFor and JICA on Cooperation on Climate Change in Forestry Sector (March 2012)
- -Bilateral Document to Start JCM (Joint Credit Mechanism) signed between Indonesia and Japan (August 2013)

Interests of private sectors in contributing forest conservation and restoration

## IJ-REDD+ VISION: forests for people



- SATOYAMA Approach
- Benefits for communities in the form of enhancement of social services (income, education, health etc.)
- "Collaborative management of forests"



 Economic evaluation on biodiversity conservation / environmental services and social welfare (PES)

 Financial mechanism through carbon credit

### Outputs, Purpose and Overall Goal of IJ-REDD+ Project



Output 5: Project findings are referred to in the process of developing REDD+ implementation mechanisms at the national level.

Project Purpose: REDD+ implementation mechanism is developed in West and Central Kalimantan.

Overall Goal: REDD+ implementation mechanism developed by the project is integrated into national REDD+ mechanism.

#### Target Districts and Pilot Site in West Kalimantan of IJ-REDD+



#### **BASE MAP FOR GREEN DEVELOPMENT AND ITS MONITORING - 4 DISTRICTS**



Transition of 21 land-use categories was analyzed based on Landsat image.

Result of Analysis by Mitsubishi UFJ Res. Inst. & Japan Forest Technology Assoc.

#### TIME SERIES CHANGES ON FOREST / NON-FOREST -REDD+ PDD-



Figure Time series changes of land cover area for Forest, non Forest and cloud/shadow/unclassified

NonForest

Forest

Cloud/Shadow/Unclassified





Result of Analysis by Mitsubishi UFJ Res. Inst. & Japan Forest Technology Assoc.

### Target Area surrounding Gunung Palung National Park



### Villages in Buffer Zone of Gunung Palung National Park and Model Villages of IJ-REDD+



# **Collaborative Management with Communities**

Facilitation Training (Capacity Building for National Park Staff) and Model Village Activities





- 8 staff from National Park, 1 from Ministry of Forestry attended.
  - Learn good practice by West Bali NP

Advanced Training in Japan on Collaborative Management (June, 2014)

- 11 staff (National Park, Ministry of Forestry) participated
- Lecture at Min Environment Japan and field practice at Sado island





**Facilitation Training** 

for Gunung Palung

National Park Staff

- 4 Series of Training were conducted by i i network (September, January, February, March)
- About 13 participants from park staff attended.
- Follow-up training at villages were also conducted

 Village Facilitation and Action Plan
(ex. Environmental Education, Ecotourism, Mangrove rehabilitation, NTFP)

## Necessary Steps from Collaborative Management to REDD+



### Development of REDD+ Mechanism in West Kalimantan - from Sub-National to Model Sites-

#### **REL analysis and potential REDD+ sites**





Ministry of Forestry Republic of Indonesia

## **Distribution of Peat land in Indonesia**



AREA (Ha)			
SUMATERA	KALIMANTAN	PAPUA	TOTAL
6,480,163	4,779,036	3,919,671	15,178,870

Source: Ministry of Agriculture (2011)

Emission from Peatland is caused by decomposition (oxidation) of peat and/or peat fire, triggered by deforestation and drainage of peat forest

> Drained and deforestated peatland (ex Mega Rice Project in Central Kalimantan)

#### **Cumulative Effect of Peatland Emission**



Emission from peatland is cumulative, because emission from newly deforested (drained) peatland **adds** to those of already drained peat land

Reference: Hans Joosten, Peatland Conversation 2013

### IJ-REDD+ activities in Central Kalimantan -Peatland MRV-

- Joint Workshop on REL and MRV of Peat Land and Peat Forest in Central Kalimantan (January 28-29, 2014)
  - Central Kalimantan Provincial Government, JICA-JST Project, IJ-REDD+
- About 90 participants attended from central, provincial and district governments, universities, partners, private companies as well as professors from Hokkaido Univ and Tokyo Univ
- Purpose is to share methodology of peat emission MRV developed by JICA-JST Project with policy makers and discuss how to incorporate JICA-JST findings to MRV mechanism of Central Kalimantan



# Model for Estimating Peatland Emission based on Ground Water Level by IJ-REDD+ - Hokkaido Univ.





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