

JICA's Cooperation for

Sustainable Forest

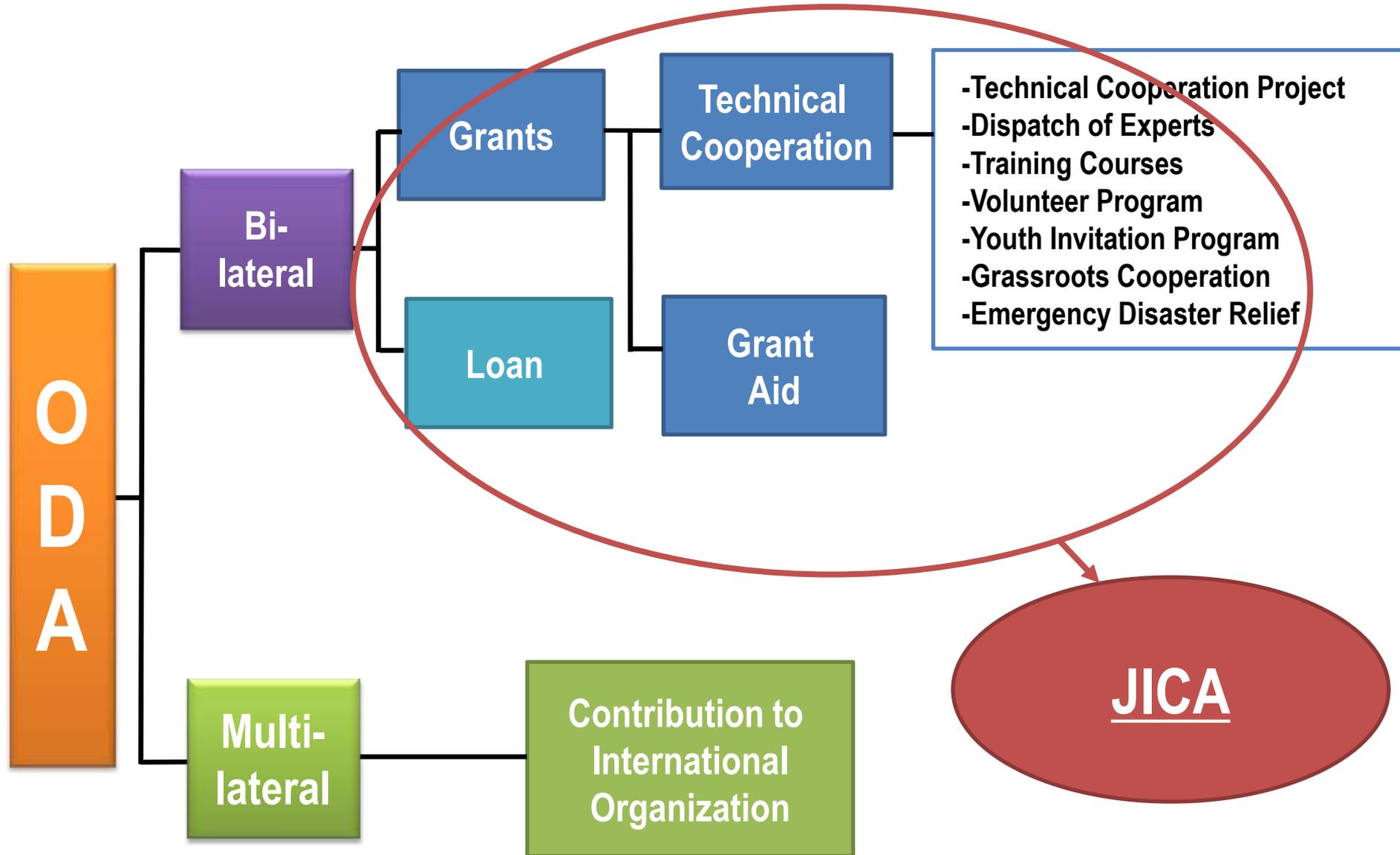
Management

9 March 2016

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1. JICA's **Vision, Mission and Strategy**
2. JICA's **Strategic Plan 2015-2020** in Nature Conservation Sector and **Projects at Glance**
3. **Examples** of JICA's Activities under the Strategic Plan
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JICA's Vision, Mission and Strategy



JICA's Vision, Mission and Strategy



Nature Conservation is one of important thematic issues of JICA.

Education	Health	Water Resources	Disaster Management
Governance	Peace-building	Social Security	Transportation
ICT	Natural Resources and Energy	Economic Policy	Private Sector Development
Agricultural / Rural Development	Nature Conservation	Fisheries	Gender and Development
Urban / Regional Development	Poverty Reduction	Environmental Management	South-South and Triangular Cooperation

JICA's Strategic Plan 2015-2020 **in the Nature Conservation Sector** **and Projects at Glance**

Goal & Strategic Objectives

Overall Goal of JICA (Nature Conservation Sector)

Harmonization between Nature Conservation and Human Activities

Four Strategic Objectives of JICA (Nature Conservation Sector)

1. Sustainable Forest Management against Climate Change

2. Ecosystem (including forest) - based Disaster Risk Reduction (Eco-DRR)

3. Sustainable Use of Natural Resources to Improve Livelihoods of Vulnerable Community

4. Biodiversity Conservation through Management of Protected Areas/ Buffer Zones

Three International Agenda

UNFCCC

Mitigation

Adaptation

UNCCD

UNCBD

+RAMSAR etc.

Priority Regions / Countries

Four Strategic Objectives

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Priority Regions

Asia-Pacific

Asia (Vulnerable Area)

Sahel/Sahara Region

Focal Countries

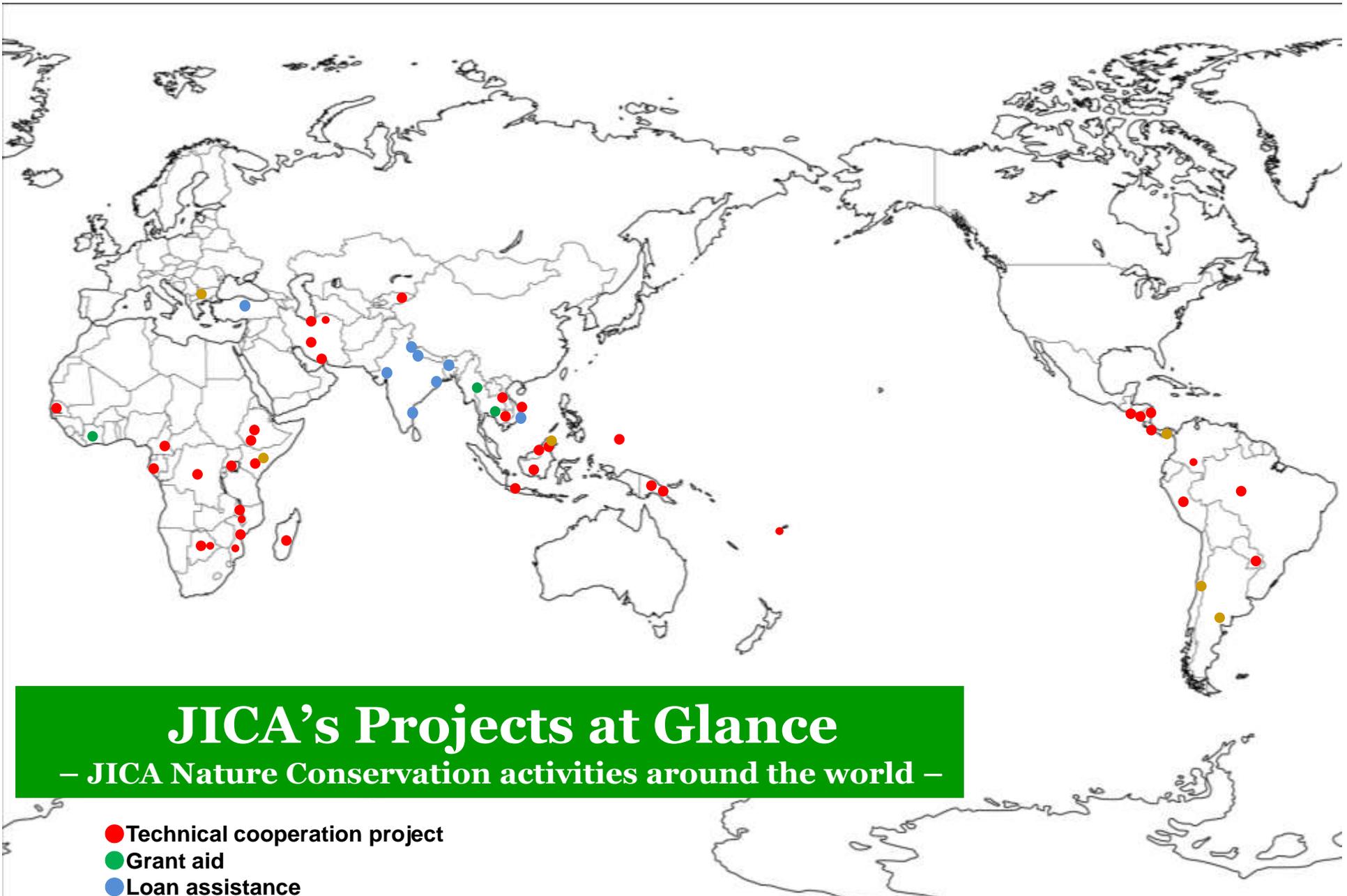
Africa (Central & South Africa)

Latin America (Watershed Management)

Other Vulnerable Countries

Latin America

Amazon



JICA's Projects at Glance

– JICA Nature Conservation activities around the world –

- Technical cooperation project
- Grant aid
- Loan assistance
- Training in a third country



(in 2004-2013, Yen-base. Exchange rate: 1 USD = 120 JPN)

which conserved

- ✓ 12.1 million ha of forests
- ✓ 5.7 million ha of protected areas

There are other agricultural and water resource management projects by JICA also contributing to biodiversity conservation.

Technical Cooperation Projects

(February 2016)

Objectives	Sustainable Forest Management against Climate Change (REDD+)	Ecosystem-based Disaster Risk Reduction (Eco-DRR)	Sustainable Use of Natural Resources to Improve Livelihoods of Vulnerable Community	Biodiversity Conservation through Management of Protected Areas/Buffer Zones
Region				
Asia and Pacific	5	1	0	5
Latin America, Caribbean	1	3	1	5
Africa	7	0	5	1
Middle East and Europe	0	1	3	1
Total (39)	13	5	9	12

Examples of JICA's Activities under the Strategic Plan

Strategic Objective 1

Sustainable Forest Management against Climate Change

Approaches

- To strengthen “Readiness of REDD+ (MRV, Pilot activity etc.)” in tropical countries
- To collaborate with private sector in carbon business & CSR

Possible components of REDD+ Project

A background image showing a group of people in a meeting room. A man in a dark suit is in the foreground, looking towards a screen or map. Other people are visible in the background, some looking at the screen.

**1. Policy & institutional reform
+ capacity development**

A background image showing satellite imagery of a forest. The forest is highlighted in green, and the surrounding areas are in shades of brown and black, representing a map or data visualization.

2. Measurement of forest resources (RELS/MRV)
✓ **Satellite image analysis & ground truth**

A background image showing a forest with tall, thin trees. The ground is covered in brown leaves and branches, suggesting a forest floor or a clearing.

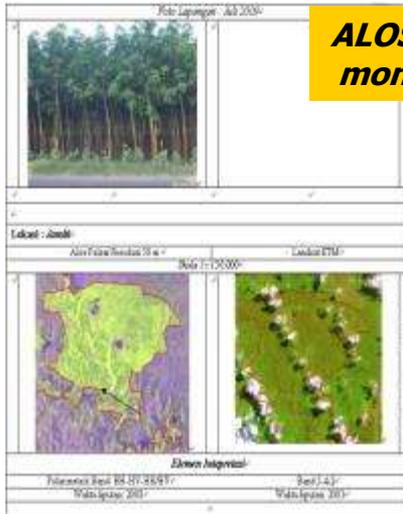
3. Research
✓ **Carbon dynamics**

A background image showing three people in a forest. One person is wearing a red jacket and a hat, another is wearing a plaid shirt, and a third is wearing a blue shirt. They appear to be engaged in a field activity or discussion.

4. Demonstration activities on sites
✓ **Zoning & demarcation, participatory forest-
and land management, patrol, livelihood
improvement, etc.**

Major areas of cooperation

- ✓ Establishing robust and transparent MRV system.



ALOS/PALSAR for forest monitoring (Indonesia)



Training on Forest Monitoring (incl. South-South Cooperation) (Asia, Latin America, Africa)

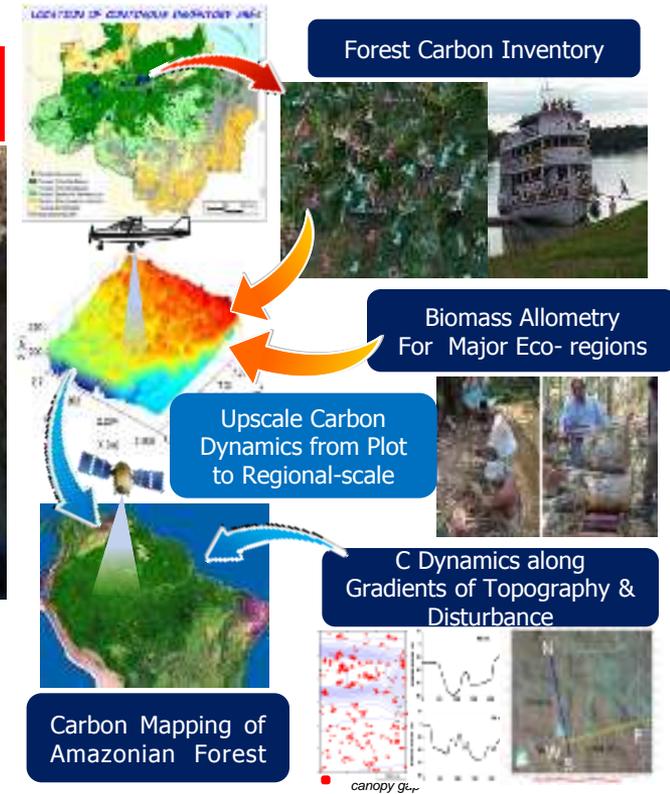


Facility & Equipment (Forest information management center) (Laos)



✓ Enhancing research & development capacity

Carbon Dynamics of Amazonian Forests (Brazil)



Major areas of cooperation

- ✓ Addressing underlying causes and drivers of deforestation & forest degradation, such as forest fires, inappropriate land-use patterns and unsustainable forest management.



***Forest fire control
(Indonesia)***



***Sustainable Forest
Management, e.g. combat
illegal logging
(Brazil)***



***Land use planning
(Timor-Leste)***



***Poverty alleviation
(Laos)***

1. Developing Countries

(1) Capacity Development

(ex. **Remote sensing and GIS database** for **forest monitoring (MRV)** and **setting RELs**)

(2) Securing Fund for REDD+ Implementation, particularly up-front resources

- FCPF and bi-lateral donor's fund support as "**Result Based Payment**"

2. Private Sector (as JCM implementation body)

(1) Expansion of Japanese Government's support for REDD+ implementation

(2) Information about REDD+ for more understanding in and out of the company (Ex. Technical Information and Experience)

(3) Collaboration with technical cooperation projects by ODA



Necessity in collaboration with **private companies**,
private organization, **government agencies**, and **research institutions**

“Japan Public-Private Platform for REDD+ (JP3-REDD+)”
was Established on Nov. 2014



REDD+

Japan Public-Private Platform for REDD+

Activities of JP3-REDD+

Promotion of Understanding of REDD+ WG

Information & Knowledge Sharing WG

Business Model Development WG

- International Symposium
- Knowledge Seminar
- Group Discussion etc.





10 x 20 Initiative & Code

■ Short-term Goal of JP3-REDD+

- ✓ to reduce 10 million tons of CO₂ eq of greenhouse gas emissions by 2020
- ✓ through activities implemented by the member organizations while taking **the biodiversity conservation and sustainable development (poverty eradication) into consideration**

Note: "10 million tons" is a numerical estimation of the effects of the forest conservation, and not the target value of credits, nor the value committed by the government.

■ Code of conduct of the participating organizations

- ✓ To make written agreements with host countries with full prior explanation
- ✓ To follow laws and regulations in developing countries
- ✓ To adequately address environmental and social safeguards
- ✓ To implement MRV (measurement, reporting, and verification)



Technology Development and Transfer



MOU between JAXA-JICA was signed on Apr. 23, 2014 to contribute “Global Issue” using Japanese Satellite technology



- Providing Satellite Images for JICA Project
- Capacity Development Program (Nominating Experts, Providing Training Program etc.)



- Knowledge and Information on Developing Countries
- Advise on Collaboration w/ DCs
- Dispatch of Japanese Expert and Lecture



ALOS2 (2014~) also has scan SAR (L-band) sensor which can detect forest change under cloud.

Deforestation (illegal logging) is a still big issue and needs from Tropical Countries including Brazil are huge.

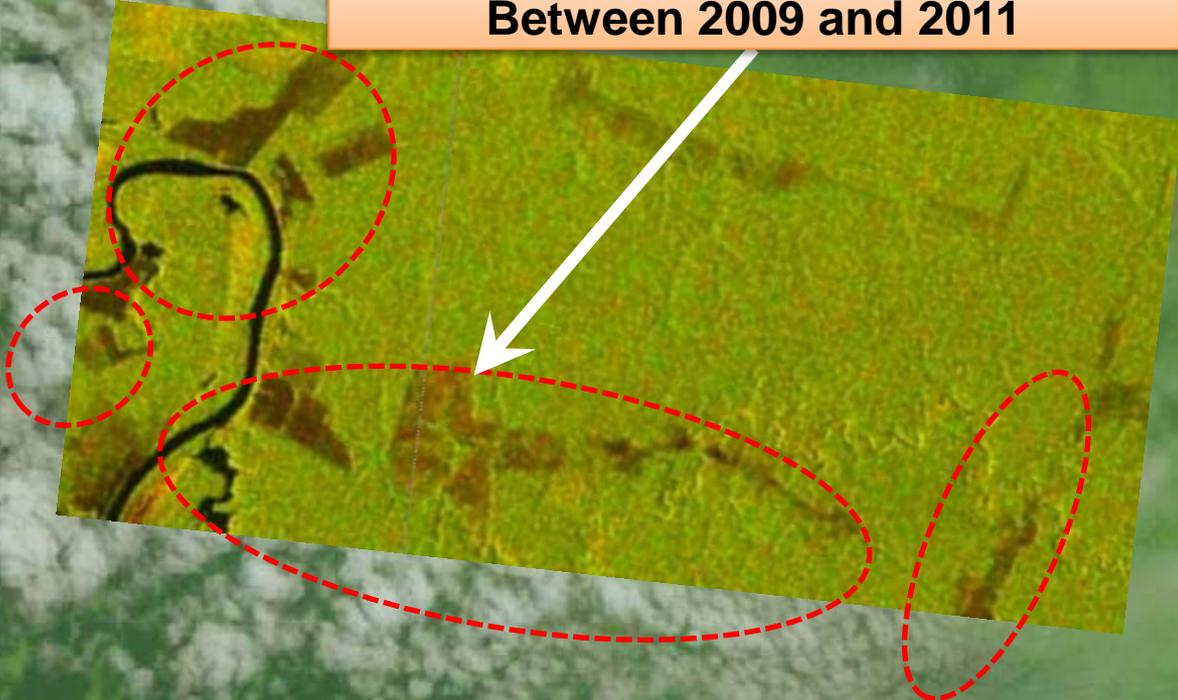
Nov. 2015

JICA and JAXA decided to develop new System to contribute forest management in All Tropical Countries...

Landsat 5 Image on 2011/09/07



Forest Density Difference by ALOS Between 2009 and 2011



Almost the half period
of the year, Amazon
Forest is covered with
Cloud.
ALOS SAR sensor can
detect deforestation
even in rainy season or
night time.

During the Project...

Year	Detection of Deforestation	Illegal Logging
2010	1,007	140
2011 (stopped at April)	176	11

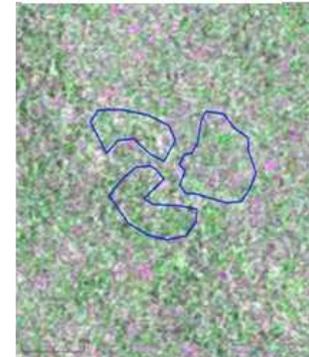
Early **W**arning System for Tropical Forest

<SAMPLE IMAGES>

Select Period ⇒: 8 Sep., 2015 – 23 Oct., 2015

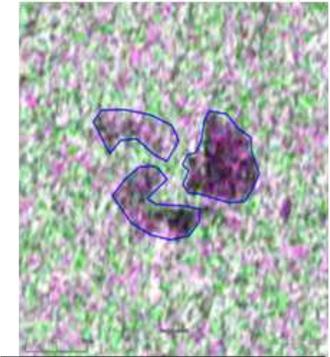


7 Dec., 2015



Browsed Image

10 Jan., 2016



Polygon download

Background: forest non-forest map by PALSAR-2

User can observe the deforested areas on Smart Phone/Tablet

※System will cover most of Tropical Forest