

JICA's Cooperation for Sustainable Forest Management

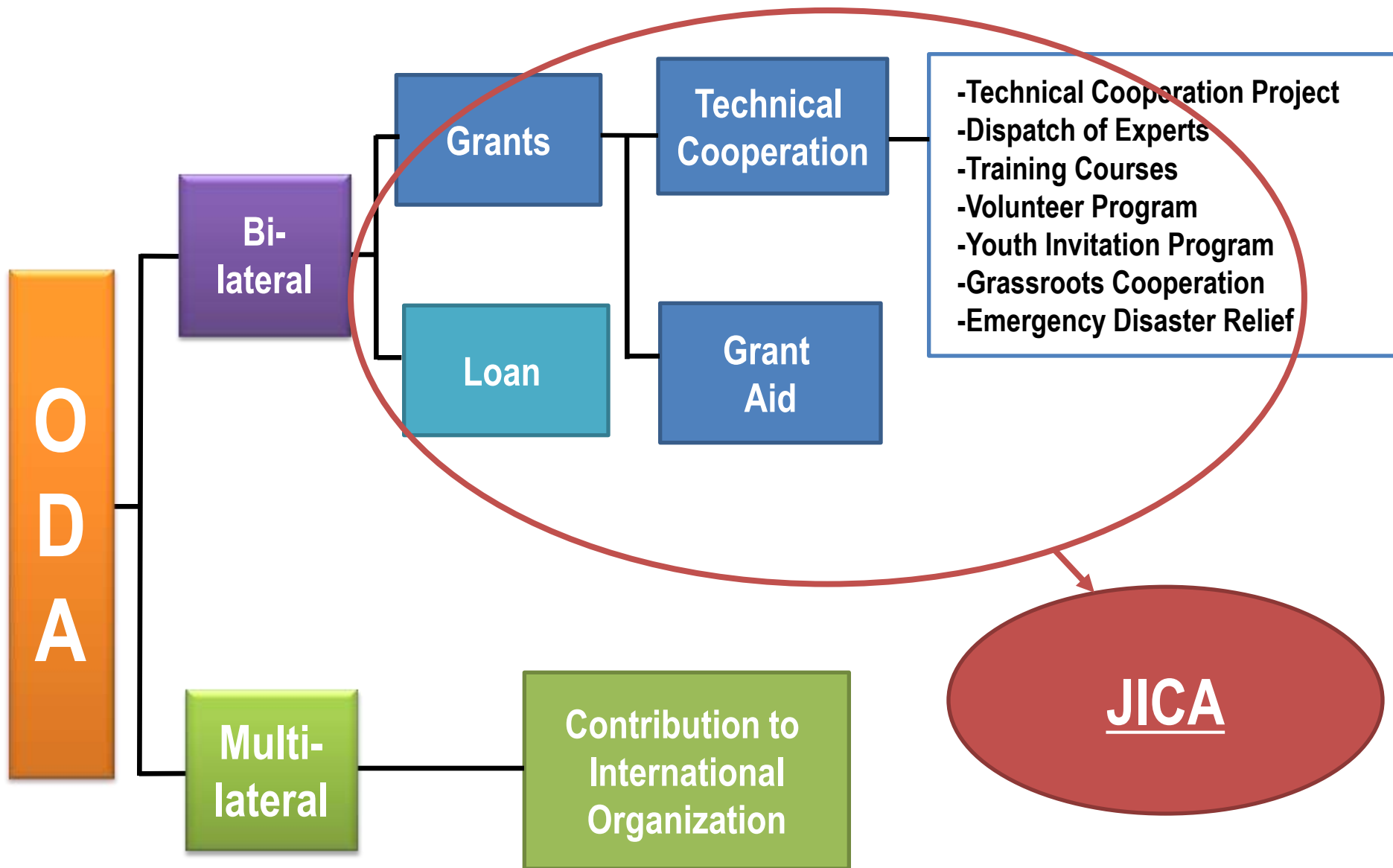
9 March 2016

GOSEKI Kazuhiro
Forestry & Nature Conservation Group,
Global Environment Department,
Japan International Cooperation Agency

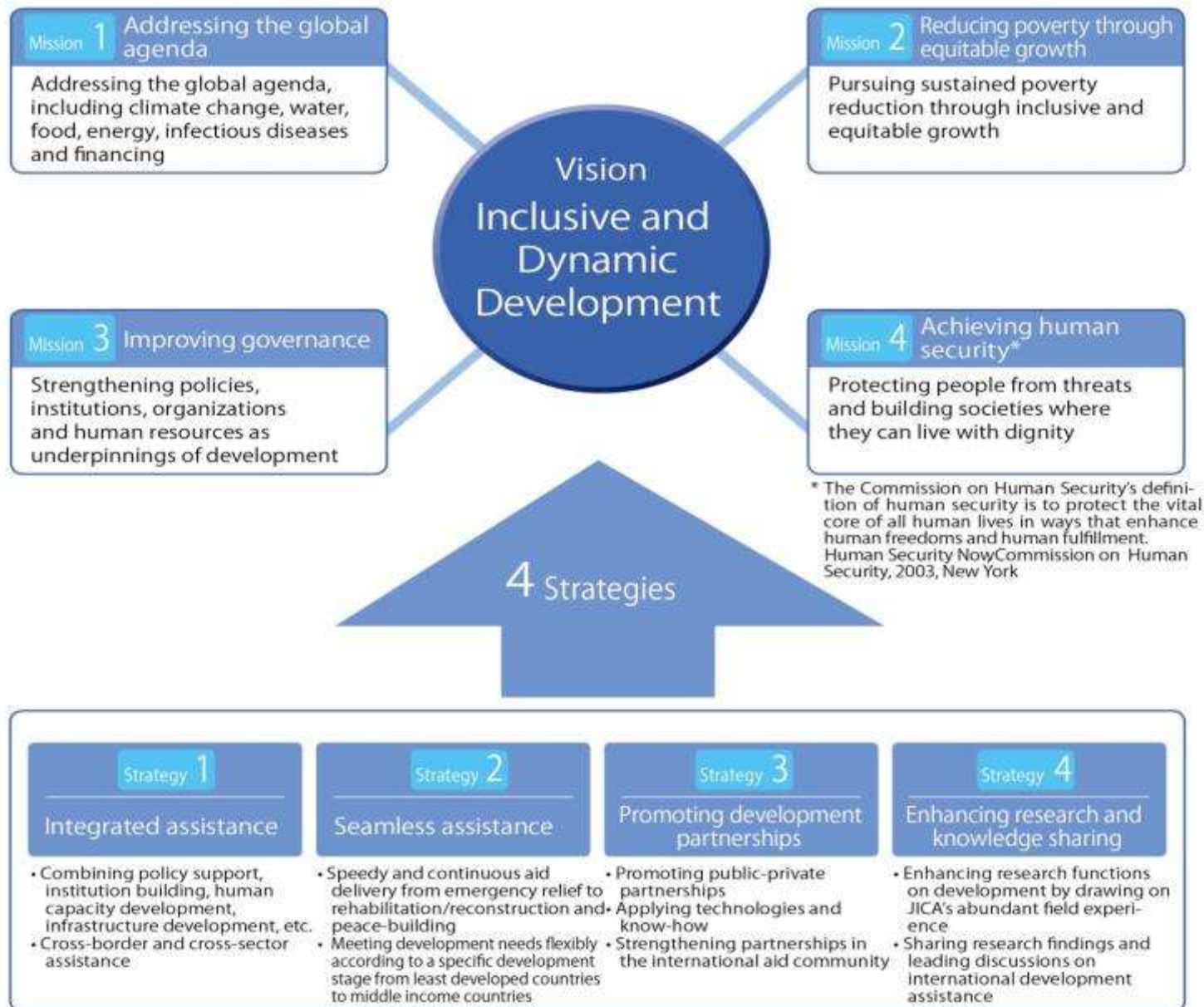
1. JICA's **Vision, Mission and Strategy**
2. JICA's **Strategic Plan 2015-2020** in Nature Conservation Sector and **Projects at Glance**
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JICA's Vision, Mission and Strategy

JICA's Role in Official Development Assistance



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

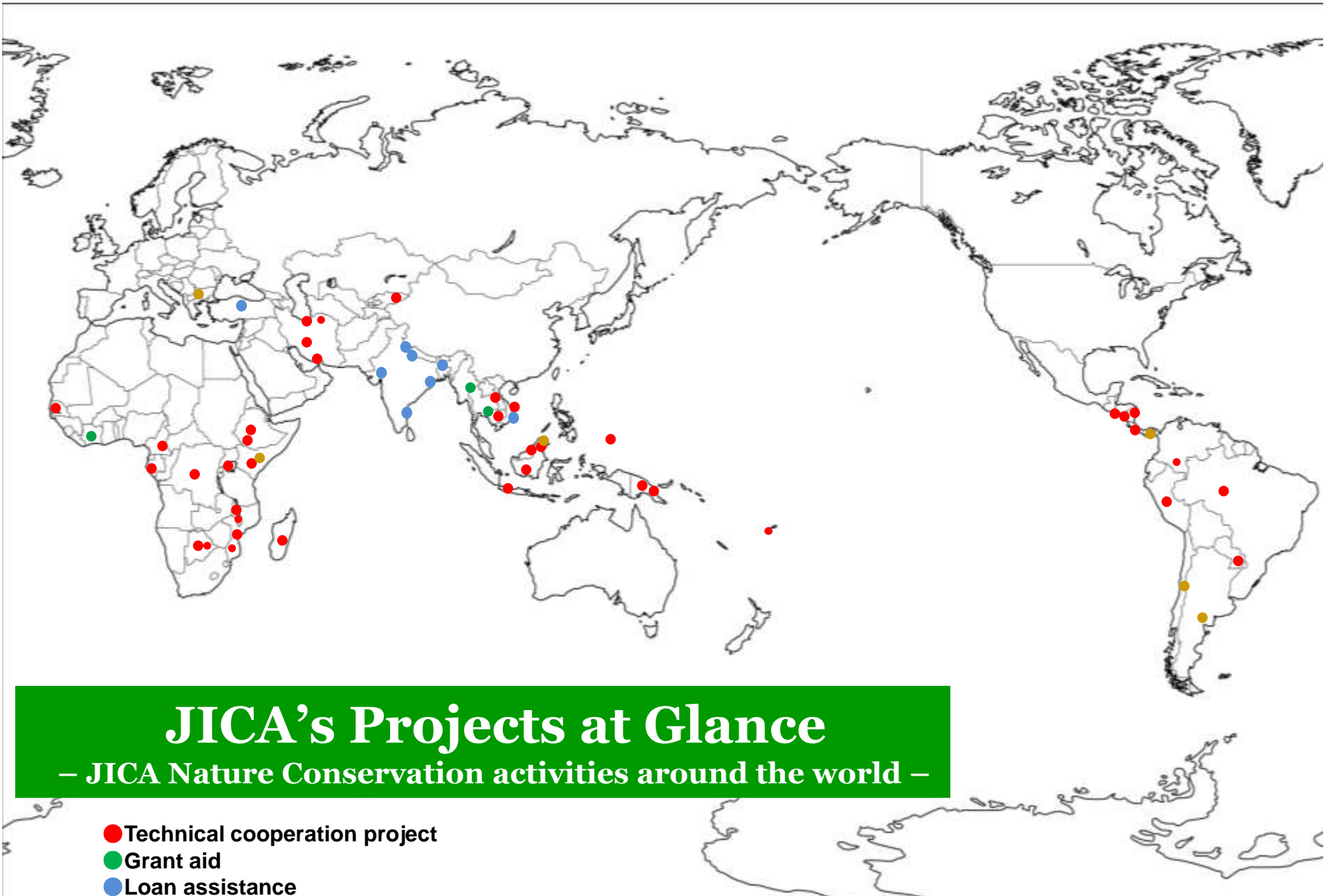
**Africa
(Central &
South Africa)**

**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

Technical cooperation	Grant Aid	Yen Loan
\$271 million for 145 projects	\$102 million for 18 projects	\$ 2,188 million for 32 projects

(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 Region	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
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

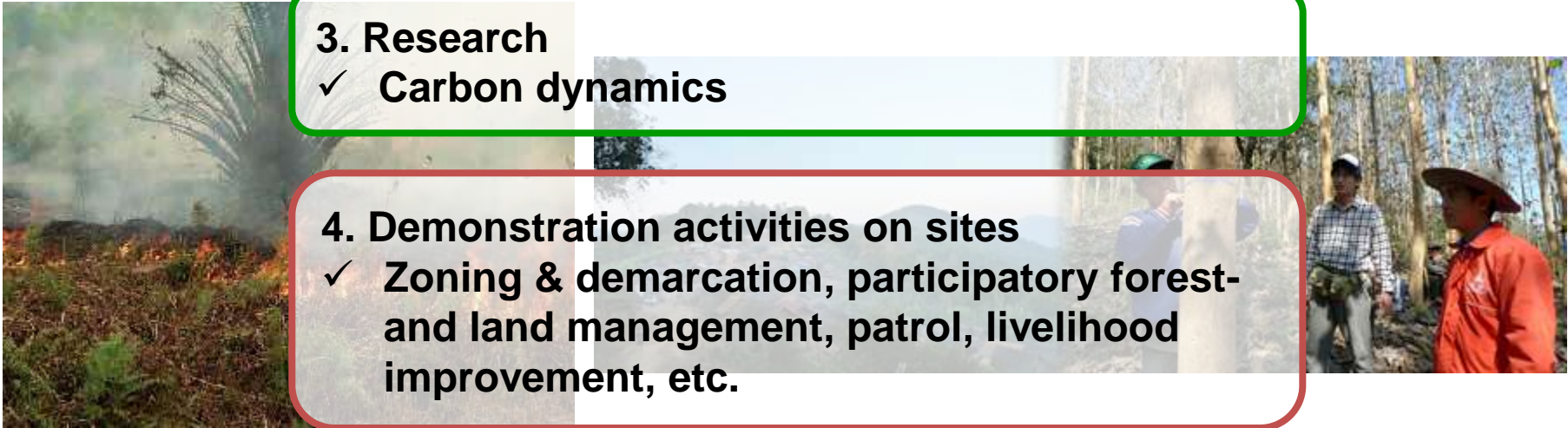
- To strengthen “Readiness of REDD+ (MRV, Pilot activity etc.)” in tropical countries
- To collaborate with private sector in carbon business & CSR

Possible components of REDD+ Project



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

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



3. Research
✓ **Carbon dynamics**

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)

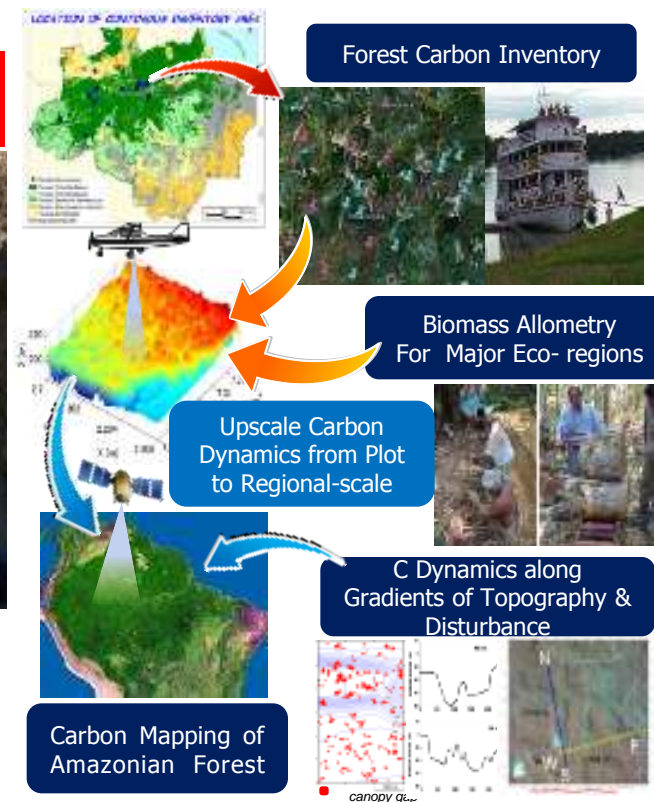


Facility & Equipment (Forest information management center) (Laos)



✓ 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.

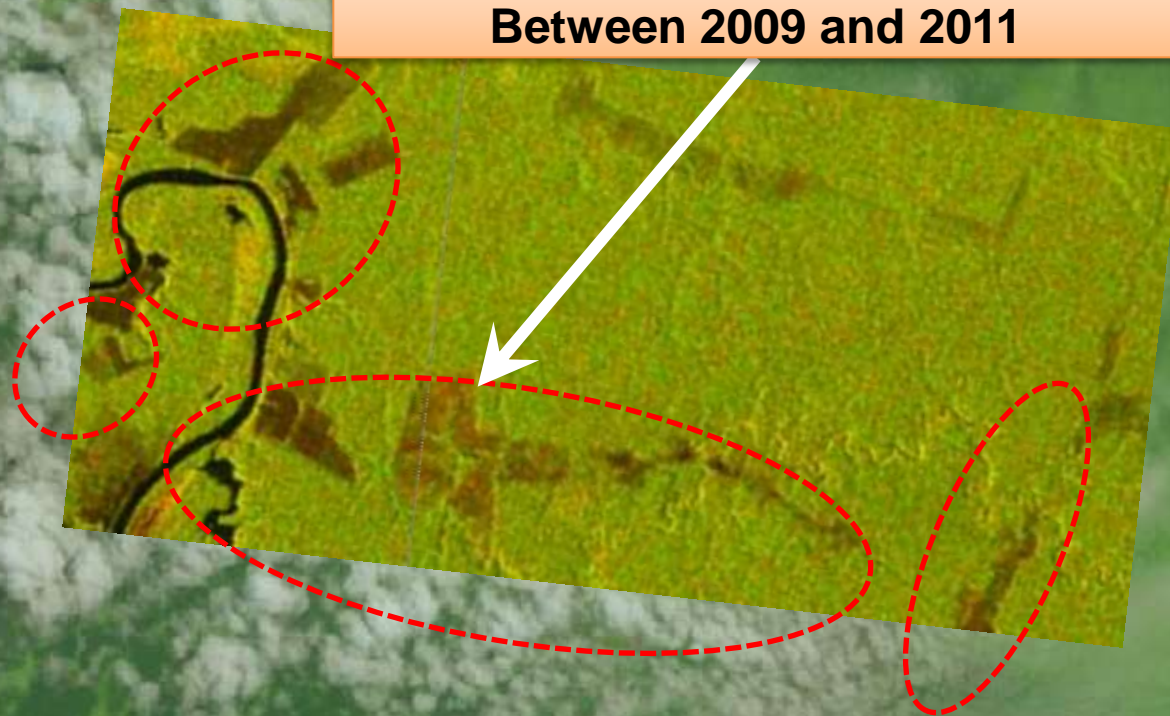
Nov. 2015

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



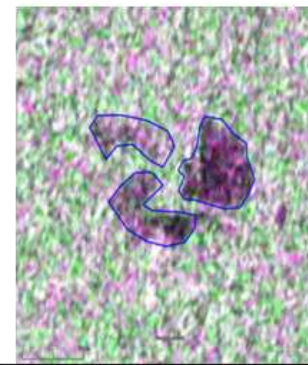
Background: forest non-forest map by PALSAR-2

7 Dec., 2015



Browsed Image

10 Jan., 2016



Polygon down load

User can observe the deforested areas on Smart Phone/Tablet

※System will cover most of Tropical Forest