

Strategic Objective 2

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

Approaches

- To introduce appropriate methodology to mitigate Natural Disaster (Watershed Management, Coastal Protection)
- To introduce mechanism such as PES(Payment for Eco-System)

What is Eco-DRR?

- Forests demonstrate multiple functions such as sediment disaster prevention, soil conservation, and watershed conservation, which can prevent erosion, landslide, sediment disasters, avalanches, wind damage, snow damage, etc. and mitigate flooding.
 - In addition, ecosystems have various functions of disaster risk reduction such as coral reefs that protect the coastline and wetlands that mitigate the flooding.
 - For people that rely on these ecosystems for their livelihoods, additionally, the ability of acquiring materials required for maintaining or restoring their livelihoods from ecosystems in the event of disasters, including timber, firewood, food and raw materials of medicine is highly significant for recovery and reconstruction.
- These kinds of ecosystem (including forest)-based disaster risk reduction is called **Eco-DRR**.

Examples of Eco-DRR projects

Supporting China's Ecosystem Restoration Program



Restoration of a mountain which was damaged by earthquake



Project for Participatory Community Development and Integrated Watershed Management (Panama)



The project provided technical training courses to local residents so that they could change slash-and burn agriculture to agroforestry.

Strategic Objective 3

**Sustainable Use of Natural Resources
to Improve Livelihoods of Vulnerable
Community**

Approaches

- To improve livelihood activities in vulnerable communities of Arid or Semi-arid countries through sustainable manner.

Components of Projects for Sustainable Use of Natural Resources

Possible components of Project for Sustainable Use of Natural Resources

A collage of four photographs showing various project activities: a meeting, a community gathering, people sorting coffee beans, and a man in a field.

1. Institutional reform / Building mechanism

2. Making guideline for sustainable use of natural resources in a participatory manner

3. Capacity building

4. Pilot activities on sites

- ✓ Survey for local needs, participatory forest- and land management, technical training for local residents etc.

Examples of projects for Sustainable Use of Natural Resources

Project for Environment Restoration and Rural Development (Madagascar)



Training course for local residents to restore degraded land



Training course for an improved cooking stove which needs less firewoods

Participatory Catchment Management Activity (Marawi)



A basin of Shire River was degraded due to illegal logging.



Supporting local residents to plant trees and prevent soil erosion

Strategic Objective 4

Biodiversity Conservation through Management of Protected Areas/Buffer Zones

Approaches

- To improve management of Protected Area and Buffer zone through collaborative management
- To introduce mechanism such as PES

Components of Biodiversity Conservation Projects

Possible components of Biodiversity Conservation Project



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

2. Research / Monitoring

- ✓ Nature
- ✓ Socio-Economic conditions

3. Management Plan / Zoning



4. Demonstration activities on sites

- ✓ Zoning, patrol, environmental education, livelihood improvement (ecotourism, agroforestry, sustainable fishing etc.)

Examples of projects for Biodiversity Conservation

Wetlands Management Project (Uganda)



Wetlands are important for both biodiversity and people's livelihoods, but they were deteriorated due to over-fishing, intensive rice mono-cropping etc.



National Wetland Information System for preliminary assessment of wetland systems



Based on Scientific data, the Project supports formulation wetland management plans and district action plans in a participatory manner



Community support activity (afforestation)

Major Components of JICA's project

- **Policy Support**
- **Research & Development**
- **Livelihood Improvement (technical supports, building mechanism, pilot activities)**
- **Capacity Building (training courses / OJT)**
- **Awareness Raising (environmental education)**
- **Networking**
- **Dissemination**

JICA in Your Countries

Myanmar

Project for Mangrove Rehabilitation Plan for Enhancement of Disaster Prevention in Ayeyawady Delta (2012.8 – 2017.12)

Vietnam

- Sustainable Natural Resource Management Project (2015.8 – 2020.8)
- Protection Forests Restoration & Sustainable Management Project (2012.3 – 2020.6)

Thailand & Cambodia

Project for Transboundary Biodiversity Conservation of Mekong Protected Forest Area (2010.11–2016.3)

Cambodia

Project for Facilitating the Implementation of REDD+ Strategy and Policy (2011.6 – 2016.5)

Palau

Project for Sustainable Management of Coral Reef and Island Ecosystems: Responding to the Threat of Climate Change (2013.4 – 2018.3)

Laos

- Forestry Sector Policy Strategy for Sustainable Forest Management and REDD+ Promotion Project (2014.10.1 – 2020.9.30)

Malaysia

- Project on Sustainable Development for Biodiversity and Ecosystems Conservation in Sabah (2013.7 – 2017.6)
- Project on Promotion of Green Economy with Palm Oil Industry for Biodiversity Conservation (2013.11 – 2017.11)
- Integrated Biodiversity and Ecosystem Management (2013.4 – 2016.3)

Technical Cooperation

Grant Aid

Loan Assistance

Training in a third country

Asia and Middle East

Turkey

Coruh River Watershed Rehabilitation Project
(2012.7 – 2018.10)

Kyrgyz

The Project for Development of the Rural Business with Forest Products in the Kyrgyz Republic
(2011.6 – 2016.5)

Iran

- Project Development Liaison Officer (2015.5 – 2017.8)
- The Project for Community-Based Sustainable Development Master Plan of Qeshm Island toward "Eco-Island" (2015.6 – 2018.12)
- Anzali Wetland Ecological Management Project Phase II (2014.4 – 2019.9)
- Participatory Forest and Rangeland Management Project in Chaharmahal-va-Bakhtiari Province (2010.7 – 2016.12)

India

- Uttar Pradesh Participatory Forest Management and Poverty Alleviation Project (2008.3 – 2016.3)
- Sikkim Biodiversity Conservation and Forest Management Project (2010.3 – 2020.3)
- Tamil Nadu biodiversity conservation and greening project (2011.2 – 2019.3)
- Rajasthan Forestry and Biodiversity Project (II) (2011.6 – 2019.3)
- West Bengal biodiversity conservation and greening project (2012.3 - 2020.10)
- Uttarakhand Forest Resource Management Project (2014.4 - 2022.3)

Technical Cooperation
Loan Assistance

Southeast Asia and Pacific

Indonesia

Papua
New Guinea

Solomon Islands

Timor Leste

Papua New Guinea

- Capacity Development Project for Operationalization of PNG Forest Resource Information Management System for Addressing Climate Change (2014.8 - 2019.8)
- The Project for Biodiversity Conservation through Implementation of the PNG Policy on Protected Areas (2015.6 – 2020.5)

Indonesia

- Project for Development of Internationally Standardized Microbial Resources Center to Promote Life Science Research and Biotechnology (2011.4 – 2016.4)
- Japan - Indonesia Project for Development of REDD+ Implementation Mechanism (JI-REDD+) (2013.6 – 2018.6)

Fiji

- Expert on Coastal and Marine Resources Management (Regional) (2015.3 – 2017.2)

Fiji

New Caledonia (Fr)

Australia

New Zealand

500 km

300 mi

Technical Cooperation

Latin America, Caribbean

El Salvador
The Project for Integrated Wetland Management in Laguna de Olomega and El Jocotal (2016.2 – 2021.2)

Honduras

- Project for strengthening of sustainable watershed management with community participation in the forest protected area of El Cajon dam (2013.5 – 2016.4)
- La Union Biological Corridor Project for Sustainable Use and Conservation of Biodiversity (2015.1 – 2021.1)

Costa Rica
Project for Promoting Participatory Biodiversity Conservation (2013.4 – 2018.3)

Panama
International Course on Participatory Integrated Watershed Management (2014.10 – 2017.3)

Peru
Project on Capacity Development for Forest Conservation and REDD+ Mechanisms (2015.9 – 2019.9)

Colombia

Deforestation and Biomass Monitoring Using Remote Sensing in Colombia for REDD MRV (2014.4 – 2016.3)

Brazil

Project for Biodiversity conservation in Amazon based on a new concept of "Field Museum" (2014.7 – 2019.6)

Chile

Adaptative Watershed Management with Emphasis in Environmental services and climate Change (2014.10 – 2017.3)

Paraguay

Project for Strengthening Integrated Management of Yguazu Lake Watershed (2013.6 – 2017.5)

Argentina

Training for Proper Management of Natural Protected Area in Latin America (2013.12 – 2016.1)

Technical Cooperation
Training in a third country

2000 km (équateur)

1000 mi (equator)

Senegal

Project of Capacity Building for the Restoration and the Promotion of Effective Use of Degraded Soil in the Areas of Soil Degradation (2011.3 – 2017.3)

Cote d'Ivoire

The Project for Rehabilitation and Restoration of Forests with the Involvement of Local Communities (2013.6 – 2017.6)

Democratic Republic of the Congo

The Project for Strengthening National Forest Resources Monitoring System for Promoting Sustainable Forest Management and REDD+ in the Democratic Republic of the Congo (2012.5 – 2017.5)

Ethiopia

- Project for Sustainable Natural Resource Management through FFS in the Rift Valley Area of Oromia Region (2013.6 – 2016.11)
- Certified Forest Coffee Production and Promotion Project (2014.7 – 2020.1)

Uganda

National Wetlands Management Project (2012.2 – 2016.12)

Gabon

- Project for enhancing national forest resources inventory system contributing to sustainable forest management (2012.8 – 2017.8)

Malawi

- Middle Shire Catchment Management Activity Promotion Project (2013.4 – 2018.3)
- Department of Forestry, Ministry of Natural Resource, Energy and Environment (2012.1 – 2016.3)

Kenya

- Project on Development of Drought Tolerant Trees for Adaptation to Climate Change in Drylands of Kenya (2012.7 – 2017.7)
- **Third Country Training Programme Regional Training Course (Phase V) (2014.8 – 2019.3)**

Botswana

- The Project for Enhancing National Forest Monitoring System for the Promotion of Sustainable Natural Resource Management (2013.7 – 2017.12)
- Forest Products Economic Valuation Expert (2015.12 – 2017.11)

Mozambique

- The Project for the Establishment of Sustainable Forest Resources Information Platform for Monitoring REDD+ (2013.3 – 2018.3)
- Advisor for Strengthening of Forest Management in Mozambique (2014.7 – 2016.7)

Madagascar

Project of Integrated Approach Development in order to Promote Environment Restoration and Rural Development in Morarano Chrome (2012.2 – 2017.2)

Technical Cooperation

Grant Aid

Training in a third country

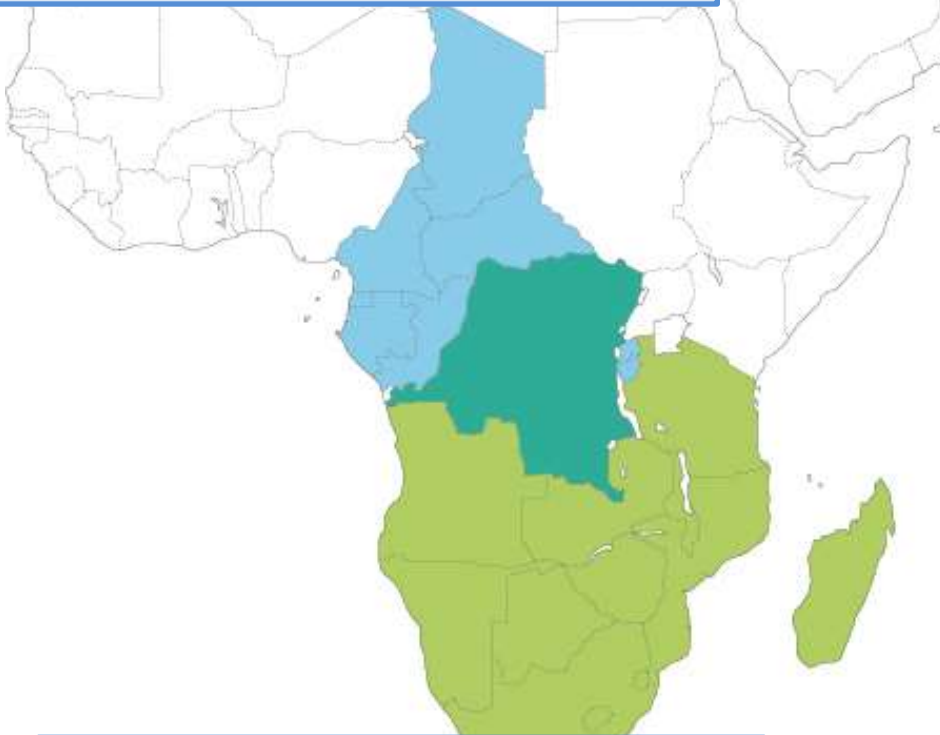
1000 km

600 mi

COMIFAC & SADC

COMIFAC

Project for Promotion of Conservation,
Sustainable Use of Biodiversity and Climate
Change Issues in COMIFAC Countries (2015.7 –
2020.6)



SADC

Project for Forest Conservation and Sustainable
Management of Forest Resources in Southern
Africa (2015.6 – 2020.6)

Europe



Macedonia

Third Country Training Programme
on Development Integrated System
for Prevention and Early Warning of
Forest Fires (2015.5 – 2017.3)

Technical Cooperation
Training in a third country

JICA's Further Efforts to Achieve **SDGs and Other Global Commitments**

To Achieve Other Global Commitments

Four Strategic Objectives

1.Sustainable Forest Management against Climate Change

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

Global Commitments

UNFCCC Paris Agreement

- **Holding the global average temperature to well below 2° C above pre-Industrial levels and to pursue efforts to limit to 1.5° C (Article 2)**
- **Implement and support REDD+ etc. (Article 5)**
- **Invite the non-Party stakeholders to scale up their efforts and support actions to reduce emissions (#135, Decision 1/CP.21)**
- **Strengthen cooperative action on technology development and transfer (Article 10)**
- **Enhance support for capacity-building actions in developing country Parties (Article 11)**

Sendai Framework

- **Assess disaster risks, vulnerability, capacity, exposure, hazard characteristics on ecosystems (24)**
- **Promote transboundary cooperation for the implementation of ecosystem-based approaches (28)**
- **Promote the identification of areas that are preserving ecosystem functions that help reduce risks (30)**
- **Strengthen the sustainable use and management of ecosystems that incorporate disaster risk reduction (30)**

UNCCD Strategy

- **Reverse and prevent desertification/land degradation and mitigate the effects of drought in affected areas in order to support poverty reduction and environmental sustainability (The vision)**

CBD Aichi Biodiversity Targets

- **By 2020, at least 17 per cent of terrestrial and inland water, and 10 per cent of coastal and marine areas, especially areas of particular importance for biodiversity and ecosystem services, are conserved through effectively and equitably managed, ecologically representative and well connected systems of protected areas and other effective area-based conservation measures, and integrated into the wider landscapes and seascapes. (Target 11)**

UNFF UNFI

Member States reaffirm the following shared global objectives on forests and their commitment to work globally, regionally and nationally to achieve progress towards their achievement by 2030:

- **Reverse the loss of forest cover worldwide through sustainable forest management, including protection, restoration, afforestation and reforestation, and increase efforts to prevent forest degradation;**
- **Enhance forest-based economic, social and environmental benefits, including by improving the livelihoods of forest-dependent people;**
- **Increase significantly the area of protected forests worldwide and other areas of sustainably managed forests, as well as the proportion of forest products from sustainably managed forests;**
- **Reverse the decline in official development assistance for sustainable forest management and mobilize significantly increased, new and additional financial resources from all sources for the implementation of sustainable forest management.**

To Achieve SDGs

Four Strategic Objectives

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SDGs

15.1

By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements

15.2

By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally

6.6

By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes

13.1

Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries

15.3

By 2030, combat desertification, restore degraded land and soil, including land affected by desertification, drought and floods, and strive to achieve a land degradation-neutral world

14.2

By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts, including by strengthening their resilience, and take action for their restoration in order to achieve healthy and productive oceans

14.5

By 2020, conserve at least 10 per cent of coastal and marine areas, consistent with national and international law and based on the best available scientific information

15.9

By 2020, integrate ecosystem and biodiversity values into national and local planning, development processes, poverty reduction strategies and accounts

The implementation of halt deforestation, restore degraded forests and substantially increase afforestation and reforestation **are not sustainable forest management?**

Thank you for your kind attention!

SUSTAINABLE FOREST MANAGEMENT, AS A DYNAMIC AND EVOLVING CONCEPT, AIMS TO MAINTAIN AND ENHANCE THE ECONOMIC, SOCIAL AND ENVIRONMENTAL VALUES OF ALL TYPES OF FORESTS, FOR THE BENEFIT OF PRESENT AND FUTURE GENERATIONS.