Ecosystem-based Disaster Risk Reduction & Regional Cooperation Effort in WBs

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Since joining the Colombo Plan*1 in 1954, Japan has been providing financial and technical assistance to developing countries through ODA, aiming to contribute more proactively to the peace, Stability and prosperity of the international community*2.

JICA is in charge of administering all ODA such as technical cooperation, Finance and Investment Cooperation and Grants in an integrated manner, except for contributions to international organizations. JICA, the world’s largest bilateral aid agency, works in over 150 countries and regions and has some 90 overseas offices.

*1 The Colombo Plan is an international organization established in 1950 to support economic and social development of countries in South Asia, Southeast Asia and the Pacific region. Its head office is in Colombo, Sri Lanka.
*2 Taken from the Development Cooperation charter, which was decided in February 2015.
Types of Assistance

**Grants**

- Grants are provided to overseas governments to support the promotion of economic development and welfare, including public administration, public works, education, science and culture, health, and community development. Funds can be used for projects that aim to improve living conditions and welfare, and for activities related to the promotion of the national economy.

**Disaster relief**

- JICA's aid is provided in the form of emergency loans and grants to support reconstruction efforts in disaster-prone areas. JICA has also been involved in providing aid after major disasters, such as the 2011 Great East Japan Earthquake and the 2013 Typhoon Haiyan in the Philippines.

**Research**

- JICA supports research and development projects in Japan and overseas. This includes providing funds for universities and research institutions to conduct studies on various topics, such as natural resources, agriculture, and health.

**Technical cooperation**

- JICA promotes technical cooperation programs, such as the Knowledge Co-Creation Program (KCP), which aims to strengthen the capacity of overseas public agencies and private organizations.

**Finance and Investment Cooperation**

- JICA assists in the development of overseas financial sectors and private sectors. This includes providing support for financial institutions and private enterprises to enhance their capacity and efficiency.

**Human Resource Development**

- JICA supports the development of human resources in overseas countries through training programs, scholarships, and other initiatives to enhance the skills and knowledge of overseas personnel.
Types of Assistance

Technical cooperation

For human resources development and the formulation of administrative systems of developing countries, technical cooperation involves the dispatch of experts, the provision of necessary equipment and the training of personnel from developing countries in Japan and other countries. Cooperation plans can be tailored to address a broad range of issues.

Ex: The Knowledge Co-Creation Program (KCCP)

By inviting officials from developing countries, the Knowledge Co-Creation Program (KCCP) provides technical knowledge and practical solutions for development issues in participating countries. This program is undertaken in cooperation with universities, research institutes, private sector enterprises, public-interest organizations, NGOs, and other organizations as well as central and local governments.

Ex: Dispatch of experts

This cooperation tool contributes to human resources development and institutional and systematic formulation by dispatching experts to developing countries, providing technology required by respective countries and making recommendations to key administrators and technicians for economic and social development in respective countries.
Western Balkans Cooperation Initiative

Measures
1) promoting dialogue by appointing the Ambassador in charge of the Western Balkans at the Ministry of Foreign Affairs in Japan
2) dispatching a Japan International Cooperation Agency (JICA) survey team to uncover new cooperation projects
3) holding seminars in order to promote regional cooperation

JICA's Contribution to Western Balkans Cooperation Initiative
1) Enhancing Bi-lateral Cooperation with WBs
2) Enhancing Regional Cooperation to address issues common in WBs
3) Collaboration with Emerging Donor Countries such as Bulgaria and Romania
Track Record of Cooperation with WBs in DRR

- Project on Development of Integrated System for Prevention and Early Warning of Forest Fires (2011-14)
  Project aimed at establishment of Integrated System for Prevention and Early Warning of Forest Fires in order to facilitate information share between the relevant institutions

- Third Country Training Program on Development of Integrated System for Prevention and Early Warning of Forest Fires (2015-17)
  Project’s goal was to disseminate the achieved results and gained knowledge related to establishment of system for prevention and early warning of forest fires to Partners in WB6

- The Project on Capacity Building for Ecosystem based Disaster Risk Reduction through Sustainable Forest Management in Macedonia (2017-22)
  Project aims at development of Ecosystem-based Disaster Risk Reduction (Eco-DRR) model against floods, landslides, soil erosion and forest fire by utilization of multiple forest functions.
1. Data Collection Management

2. Processing/Analysis

3. Presentation

**Data Collection (from Hydro Met/Satellite)**

- Satellite data
- Meteorological data

**Maintenance of Forest Data (GFIS)**

- Forest Inventory with maps
- Forest Planning
- Implementation

**Capturing Initial forest fire reports from PEMF regional offices**

**Capturing Official forest fire reports from CMC regional offices**

**Vegetation**
- Dryness map
- FWI map
- Hot spot maps
- Vegetation map
- Forest fire history map
- Political / managerial boundary maps
- Base maps - AREC
AWS’s Map
Project on capacity building for Ecosystem-based Disaster Risk Reduction (Eco-DRR)

OUTLINE OF THE PROJECT

1. Title of the Project
   - Project on Capacity Building for Ecosystem-based Disaster Risk Reduction (Eco-DRR) through Sustainable Forest Management in Macedonia

2. Overall Goal
   - By Ecosystem-based Disaster Risk Reduction (Eco-DRR) measures and activities in synergy with sustainable forest management, disaster risks of floods, landslides, soil erosion and forest fire on a long-term basis is reduced in Macedonia.

3. Implementing Agency and Structure
   (1) Implementing Agency:
      - CMC is main implementing agency. During the implementation of the project activities, the closed cooperation will be established with PEMF. Also, CMC will establish additional implementation set-up with other relevant parties.
   (2) Duration of the Project:
      - Duration of the Project is five (5) years, from December 2017 to December 2022.
Project on capacity building for Ecosystem-based Disaster Risk Reduction (Eco-DRR)

Eco-system based Disaster Risk Reduction (Eco-DRR) model against floods, landslides, soil erosion and forest fire by utilization of multiple forest function is developed.

Purpose

1: Update MKFFIS
- Update of MKFFIS function
- Hydrological model
- Identification of assessment method for flood, landslide, and soil erosion
- Creation of hazard map

2: Enhancement of Forest Management and Planning Capacity
- Introduction of forest management and conservation categories
- Development of forest management plan
- Development of forest recovery mid-long term plan
- Law and regulations

3: Enhancement of Capacity to carry out Eco-DRR related activities
- Plan and construction for forest conservation
- Establishment of wind-breaks
- Participation of people
- Improvement of nursery

4: Public Awareness
- Development of Eco-DRR material
- Dissemination of hazard map
- Information sharing of project results

Main products
- Manual of new MKFFIS
- Hazard map
- Guidelines and training manuals for forest management and recovery plan
- Guidelines and manuals for forest conservation
- Guidelines and manuals for nursery techniques

Eco-DRR material
Project on capacity building for Ecosystem-based Disaster Risk Reduction (Eco-DRR)

MKFFIS: Developed by previous JICA Project - Forest fires oriented

Update and expand of MKFFIS function

Output 1

MKFFIS

High risk area

Drone

Hazard map

Other relevant information

Common DB

New MKFFIS

Forest Fire DB

Soil erosion DB

Flood DB

Landslide DB
Project on capacity building for Ecosystem-based Disaster Risk Reduction (Eco-DRR)

Output 2

Current forest management plan
Primarily wood production oriented

Forest management and zoning based on the Ecosystem function of forest

Degraded forest, Weak ecosystem functions

Land slides, soil erosion, floods

Improved forest management system - DRR Functions
Project on capacity building for Ecosystem-based Disaster Risk Reduction (Eco-DRR)

**Situation before activities**

- Soil erosion, Land slides, Flood control,
- Selection of suitable species

**Output 3**

Improvement of nursery and technical transfer for nursing

**After Eco-DRR activities**

**Output 4**

**Eco-DRR material**

- Disseminate Eco-DRR concept in and outside of the country,
- Eco-DRR Campaign
- Eco-DRR Concept workshop
- Facebook Homepage
  https://www.facebook.com/MacedoniaEcoDRR/
Project on capacity building for Ecosystem-based Disaster Risk Reduction (Eco-DRR)

- Field Eco-DRR Activities
- Radovish River Watershed Pilot Site 1

Severe erosion along the valley
The Eco-DRR project is planning to hold a regional Eco-DRR seminar in Macedonia in Autumn 2019 and in 2022. We would like to invite institutions from WB6 + that are responsible for disaster prevention and forest management. Project team will organize preliminary visit to provide detail explanation of the seminar. In 2019, Project will present its initiatives in Macedonia and a project pilot site before field activities start. In 2022, it will present the pilot site after field activities are completed and the Eco-DRR measures are implemented.