Macedonia Eco-DRR Newsletter

Capacity Building For ECO-DRR Through Sustainable Forest Management In MACEDONIA Nov 2017 - Oct 2022

Capacity building project for Ecosystem-based Disaster Risk Reduction (Eco-DRR) through sustainable forest management.

The purpose of this Project is to develop an Ecosystem-based Disaster Risk Reduction (Eco-DRR) model project against flood, landslides, soil erosion, and forest fires by utilizing multiple forest functions. Newsletter Vol 0 explain the background/outline of the project and Eco-DRR, as well as the activity contents.

Background

Major and most frequent natural disasters in Macedonia are floods, forest fires, soil erosion, landslides caused by torrential rains, and cold and heat waves.

In recent years, floods have been the cause for the greatest human and physical damage. Due to torrential rains, possibly related to recent climate change (abnormal weather pattern), and forest destruction (by forest fires and illegal logging) of the upper river catchments, rain water in the steep mountainous region of the upper basins rapidly concentrates in the lower basins causing floods and damages in downstream areas and cities almost every year in the country. Therefore, disaster risk reduction for protecting lives and property is an urgent issue.

Disaster risk can be expressed by the relationship among three risk components: dangerous natural phenomena (hazard), exposure, and vulnerability (see the figure below).



Disaster risk reduction

Exposure:

Condition where residents or human activities such as property are exposed to the influence of dangerous natural phenomena.

 \rightarrow Avoidance of exposure (Choosing not to live in or use the exposed land) Vulnerability:

Susceptibility to dangerous natural phenomena.

 \rightarrow Reduction of vulnerability (Mitigating the impact of hazards)

The ecosystem's multiple functions

What is Eco-DRR?

Ecosystems provide multiple functions, for example forests have a number of functions besides timber production, such as soil and watershed conservation, recreation, and biodiversity.



Time Difference in water volume of river in the presence of forest and bare land (Sample). "Eco-DRR" is the sustainable management, conservation and restoration of ecosystems to reduce disaster risk, with the aim to achieve sustainable and resilient development.



Outline of the Project and activities

Outline of the Project

Project name

Capacity building project for ecosystem-based disaster risk reduction (Eco-DRR) through sustainable forest management

C/P institutions

Crisis Management Center (CMC), Ministry of Agriculture, Forestry, and Water Economy (MAFWE), Public Enterprise Macedonian Forests (PEMF)

Target area

Skopje (Vodno mountain), Radovish, and another site Period

November 2017 \sim October 2022 (5 years)

Purpose of the Project

To develop an Eco-DRR model project against flood, landslides, soil erosion, and forest fires by utilizing multiple forest functions.

Four activities



Project HP

https://www.jica.go.jp/project/macedonia/001/index.html https://www.jica.go.jp/project/english/macedonia/001/index.html CMC HP



Crisis Management Center (CMC)



Japan International Cooperation Agency

www.cuk.gov.mk/mk



