

# A New Framework for Sustainable Forest Management in Tropical Wetland Forest Based on Sustainability Index and REDD+ Benefit Sharing Mechanism

(持続性インデックスとREDD+利益の分配メカニズムによる熱帯湿地林の新たな持続可能な管理の枠組)

## Abstract

This study has its main objective, to propose a new framework for sustainable forest management in tropical wetland forest. To achieve that objective, this study was conducted in two focuses on: (1) identifying the sustainability index (SI) and (2) conducting comprehensive assessment of Reducing Emission from Deforestation and Forest Degradation (REDD+) benefit sharing mechanism. The main objectives of REDD+ are reducing emission from deforestation and forest degradation, enhancing carbon stock, preserving biodiversity and sustaining forest management. REDD+ has been running in many countries and one of which is Indonesia, particularly in Central Kalimantan Province. 5 samples of villages in Central Kalimantan, Indonesia were chosen for this research sites (*Taruna Jaya, Tumbang Nusa, Marang, Terantang and Seragam Jaya*). This study used a survey (questionnaires and interviews) to collect data from 5 samples. In addition, this study also collected the data from related documents. Sustainability Index was constructed to evaluate the sustainability of different communities in 5 villages in Central Kalimantan, Indonesia based on the main objectives of REDD+. This index was separately composed of 3 different components which are the main pillars of sustainability; (1) ecology, (2) economy, and (3) society. The index of sustainability was determined into four categories; 3,3-4,0 (excellent), 2,5-3,2 (good), 1,8-2,4 (fair), and 1,0-1,7 (poor). The success of REDD+ in achieving effectiveness, efficiency and equity will depend greatly on the design and implementation of its benefit sharing mechanisms. The results obtained from this study are relevant and useful for those interested in managing tropical wetland forest sustainably throughout the tropics, and will assist all stakeholders and local government in particular to come to the new framework for sustainable forest management in tropical wetland forest.

**Key words:** Benefit Sharing, Central Kalimantan, Forest Management, REDD+, Sustainability Index