







Landscape Strategy for Community Development and Knowledge Management for Tukombo-Kande Satoyama Initiative in Malawi

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INTRODUCTION

- What is the Community Development and Knowledge Management for the Satoyama Initiative (COMDEKS)?
- Global project implemented by UNDP funded by the Japan Biodiversity Fund
- Satoyama Initiative's vision is to promote sound socio-ecological production landscapes
- Officially adopted as part of sustainable use in the Biodiversity Convention in 2010. (COP 10).
- Participating Countries: Malawi, Brazil, Cambodia, Ethiopia, Fiji, Ghana, India, Nepal, Slovakia, and Turkey

☐ Project main objective & Guiding principles

To develop <u>sound biodiversity management and</u> <u>sustainable livelihood activities with local communities</u> in socio-ecological production landscapes to maintain, rebuild, and revitalize landscapes

☐ Five Guiding Principles

- ✓ Resource use within the carrying capacity and resilience of the environment
- ✓ Cyclic use of natural resources
- ✓ Recognition of the value and importance of local traditions and cultures
- ✓ Natural resource management by various participating and cooperating entities
- ✓ Contributions to local socio-economies

OBJECTIVE OF THE STUDY

MAIN OBJECTIVE

I. To conduct community consultations, mobilize stakeholder participation, identify and pilot indicators for resilience in socio-ecological production landscapes in Tukombo-Kande region and contribute to the development of the Landscape Strategy.

SPECIFIC OBJECTIVES

- I. To conduct a landscape-wide baseline survey based on a developed set of indicators for resilience in socio-ecological production landscapes
- 2. To develop the Programme Landscape Strategy following the template and guidelines which was provided for this purpose.
- 3. Synthesize lessons learned from the consultation process and baseline assessment

The Baseline Assessment Methodology

Period: from 12 to 18th Oct, 2012

Key tools used:

- -Focus group discussion
- -Key informant interviews with stakeholders from different sectors
- -Transect walks across the landscape
- -Desk reviews





The stakeholders

- -Agricultural officers
- -Lead farmers
- -Forest officers
- -Fisheries officer, fishermen, local leaders
- -Representatives of local NGOs and CBOs

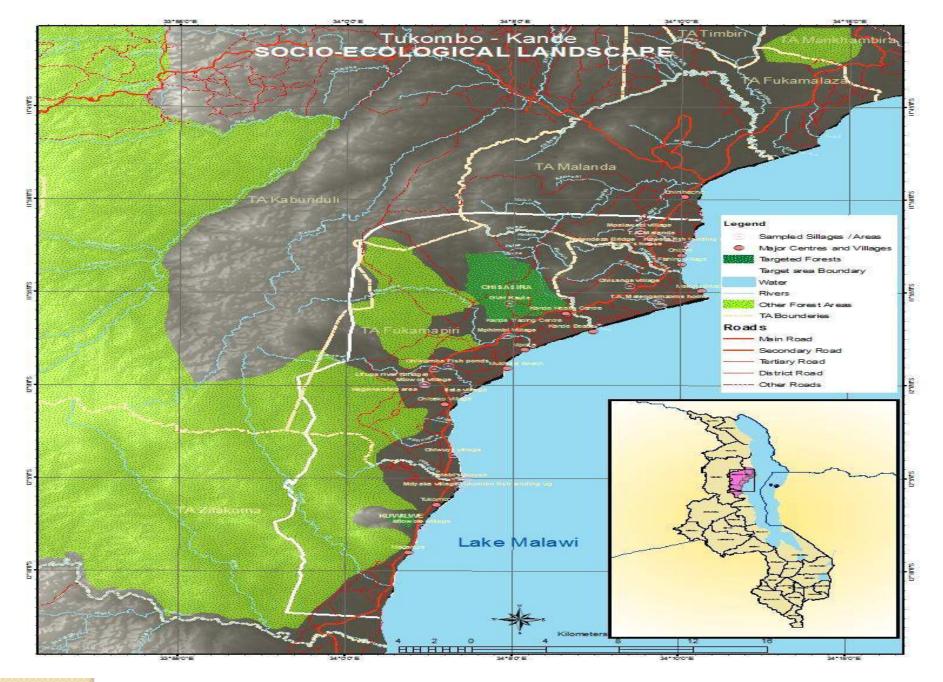
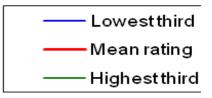


Fig I. Map of Tukombo- Kande Socio-ecological Production Landscape

Procedure

- Assessment based on set of indicators for resilience in socio-ecological production landscapes, developed by the United Nations University-Institute
- ☐ The Indicators have four main goals
- protecting and maintaining biodiversity
- agricultural biodiversity
- knowledge learning and innovation
- social equity and infrastructure.
- Scores were guided by the COMDEKS score rating of 1 to 5
- I denoted poor performance and 5 best performance for resilience of the SEPL.
- Six belt transects systematically located at a distance of 2 km apart with plots of 100 m by 100 m to ground truth the community perceptions

SEPL Performance



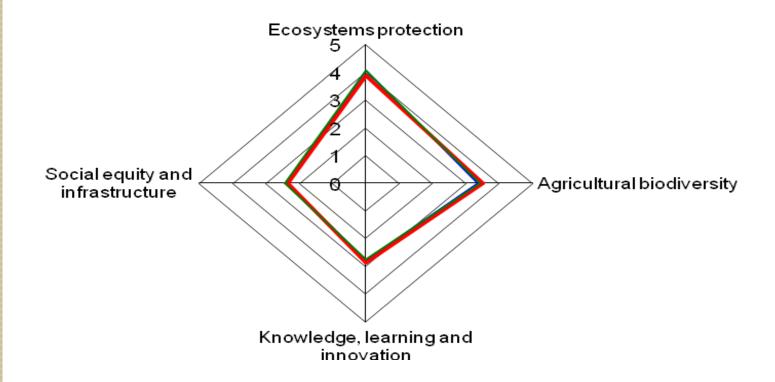


Figure 2: Overall SEPL Performance Indicators of the Tukombo- Kande landscape

Table 1. Summary of overall rating of the Tukombo-Kande SEPL

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		Ecosystems protection	Agricultural biodiversity	Knowledge, learning & innovation	Social equity & infrastructure
	Lowest				
	third	4.19	4.13	2.94	3.00
	Mean				
	rating	3.88	4.00	2.88	3.08
	Highest				
	third	4.07	4.00	2.64	3.00
	Std dev.	1.047	0.739	0.908	1.165 9

Major threats to the Landscape

- High deforestation agricultural expansion, traditional brick baking, shifting cultivation, forest fires and overexploitation of tree resources for fish processing.
- 2) Inadequate livelihood support systems that are in line with community tradition and culture.
- 3) Reduced access to micro credit facilities for enterprise development and growth.
- 4) Overreliance on natural resources as a major direct source of livelihoods
- 5) The lack of a planned strategy to protect ecologically sensitive areas such as wetlands, beach areas etc
- 6) Overfishing of shallow water fish stocks due to increased demand. The catches of almost all fish species except for Usipa

MAJOR WEAKNESSES

- Inadequate promotion, support and development of the eco-tourism industry.
- 2. Poor market infrastructure and fishing gear for fish capture, processing and sale of fish products.
- 3. Weak and dyfunctional local governance structures-VNRMCs, VICs
- 4. In adequate water and sanitation amenities
- 5. Inadequate awareness of cross-cutting issues of climate change, gender empowerment, human rights alcohol and drug abuse, voluntary counseling and testing and behavioral change for HIV/AIDS.

A PROPOSED LANDSCAPE STRATEGY

□ Strategic Vision

To ensure a resilient socio-ecological production landscape where cultural heritage, natural resources, agrobiodiversity remain interconnected for increased agricultural production, wealth creation & continuous provision of ecosystem services.

Outcomes

- □ Outcome I: Natural woodlands, Village Forest areas and other habitats such as sacred groves, watershed & aquatic habitats are conserved
- Outcome 2: Sustainable agricultural practices implemented through agroforestry, crop diversification, conservation agriculture, value addition & processing of produce
- Outcome 3: Community-based ecotourism developed to broaden household income base and complement with agriculture -food security and landscape conservation.
- Outcome 4: Community based institutional governance structures in place for effective integration of conservation and production in the targeted landscape.
- Outcome 5: Diversified livelihood resources for enhanced landscape resilience through improved access to microcredit schemes for enterprise development and expansion.

Opportunities

- □ Abundance of water bodies especially rivers & streams that can be enhanced for irrigation agriculture.
- □ Vast land that is amenable to crop and livestock production.
- Available market for fish fish buyers come from as far as Zambia, Lilongwe, Blantyre and Zomba
- ☐ High potential for the development of community based ecotourism.
- High cultural heritage and diversity of tribes that are involved in different professions -fishing, rice production, curios, & cassava production.
- ☐ High productivity of land for cassava, mango fruits that would act as precursors for value addition and processing.
- Lake shore road connecting the North & Southern Malawi & regions of the country

POTENTIAL PROJECTS FOR FUNDING

- Crop diversification, livestock production, bee keeping, agroforestry systems- crop livestock integration.
- Increase crop- value addition and processing of such crops as rice, cassava, mango fruits and fish species.
- 3. Restoration of riparian areas, restoration and protection of wetlands and watersheds, restoration of indigenous forests and use of soil and water saving technologies.
- Aquaculture development and building of capacity of fish farmers in aquaculture.
- Community-based ecotourism & Natural resource-based enterprises.
- Capacity building of governance structures) in leadership skills, & management of CBOs
- Soil, water and energy technologies- soil conservation, conservation agriculture, irrigated agriculture

PROJECTS FUNDED

- 1) Community-based eco-tourism and cultural heritage preservation project US\$50,000
- 2) Promotion of sustainable livelihoods for nature conservation project US\$50,000
- 3) Mtowole-Chavula beekeeping and afforestation project US\$25,000
- 4) Promotion of integrated approaches for sustainable livelihoods and nature conservation US\$25,000
- 5) Promotion of fish farming and improved fish processing practices among fishing communities US\$35,000
- 6) Emanyaleni BD conservation and livelihoods improvement project US\$15,000
- 7) Promotion of environmental education for sustainable development US\$35,000

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