

# Operationalizing Landscape Approach in Indonesia: Grand-strategy for an Integrated Agroforestry Management at the Landscape Level

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## 1 Introduction :

Challenges and Opportunities for Operationalizing Landscape Approach in Indonesia

### Background:

- There has been a lack of coordination and inter-connectivity between local government institutions, the business sector, and community groups in developing timber and Non-Timber Forest Products (NTFPs).
- Resulting from consultations with local stakeholders, the project identified a need for a local government referral document to provide strategic direction for developing integrated timber and NTFP management scenarios involving multiple stakeholders, and to support a policy and regulatory framework.

### Objectives:

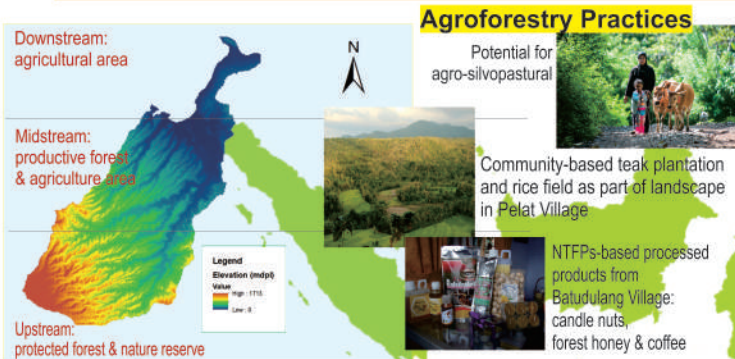
- The grand strategy document is intended as a reference for strategic direction to improve coordination, synergy and inter-connectivity among multi-stakeholders along supply and value chains, primarily among relevant government agencies.
- It was based on national, provincial and district government strategic documents, including the regional spatial planning document.

### Approaches:

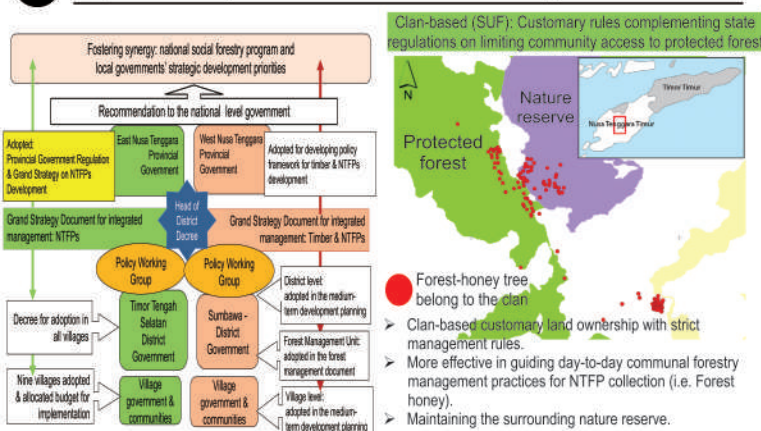
- In implementing Participatory Action Research (PAR), the landscape approach based on spatial data analysis were used to prioritise the strategic development area.
- Based on watershed ecosystems and zonation (i.e. upstream, midstream and downstream).

## 3 Sumbawa, West Nusa Tenggara :

Grand-strategy for an Integrated Timber, NTFPs and Environmental Services of Agroforestry Management at the Landscape Level



## 5 Impact Pathways: Vertical and Horizontal Integration



## 2

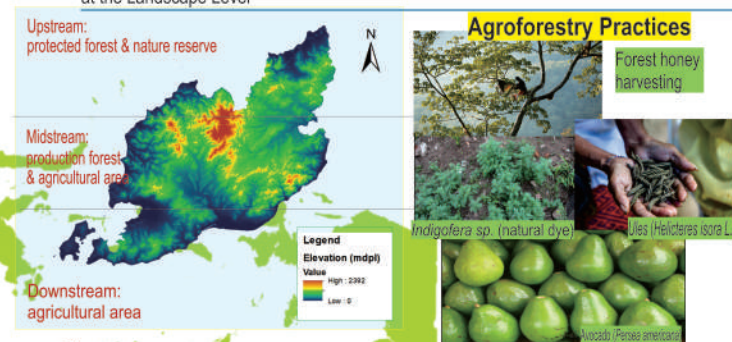
**Watershed : A Workable Landscape-based Unit of Analysis**  
(Guided by the Integrated Watershed Management Approach)

Management aspects	Forest function and watershed zonation		
	Upstream	Midstream	Downstream
Conservation: buffer zone development & forest & land rehabilitation.	Agroforestry: combining shading trees (high conservation values – low economic values) & NTFPs for conservation.	Intercropping: timber & medicinal herbs Plants: nectar in bees farming.	Intercropping timber & cash/food crops.
Enhancing local livelihoods	Investing on the host trees & nectar plants for wild forest honey production.	Timber with high economic values. Bees farming for honey production.	Fodder production. Agro-silvopastoral.
Integrating environmental services for economic development.	Community-based ecotourism: based on local potential and context surrounding the protected and production forest. Managed by: village government & funds. Partnership: community group) & Forest Management Unit.		

## 4

**West Timor, East Nusa Tenggara :**

Grand-strategy for an Integrated NTFPs-based Agroforestry Management at the Landscape Level



## 6

**Lessons Learnt in Operationalizing the Landscape Approach:**

- Evidence-based policy recommendation: using the Participatory Action Research Approach supported by a good baseline data and results from stakeholder analysis, including an adequate understanding about the local community' management practices.
- Management directions are specified based on three components:
  - Area management: Enforce the conservation function of the area as a buffer zone and/or rehabilitate degraded areas, while enhancing local livelihoods.
  - Business management: Promote the establishment of small to medium scale enterprises for value added processing activities both for timber and NTFPs.
  - Institutional arrangements and management: Improve the coordination, synergy and interconnectivity of various government agencies at the district level, as well as between these agencies and private market industries.
- Making synergy with the priorities of local government regional economic development and mainstreaming the landscape approach into the local government strategic documents are essential.