Model Capacity Building for Efficient and Sustainable Utilization of Bamboo Resources in Indonesia

“an up stream-down stream community model on bamboo utilization”

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[Project Coordinator]

10th World Bamboo Congress, Damyang, Korea, September 20, 2015
Background

✓ Indonesia is blessed with a fast bamboo resources.
✓ Bamboo resources still under utilized.

Lack of capacity of management and utilization
Collaboration Project

International Tropical Timber Organization [ITTO]

Ministry of Environment and Forestry

Bangli Regency

Executing Agency [EA]

→ Research Development and Innovation Agency of Ministry of Environment and Forestry, Government of Indonesia

Collaborating Agency [CA]

→ Dinas Pertanian, Perkebunan dan Perhutanan Kab. Bangli, Bangli District Forestry Agency
## Objectives

to improve the management utilization of bamboo resources for their sustainable use and benefits to local communities.

**Specific objective** is to initiate enhancement of capacity among stakeholders to develop and utilize bamboo resources in an efficient and sustainable manner.

## Outputs

i) promoted investment in bamboo industry development;

ii) enhanced institutional framework and

iii) increased participation of local communities.
Expected Output

Pilot project of “Up stream – Down stream Model on Community Bamboo Industry”

Establish two Models of Community Small Enterprise (CSE) or cooperative on bamboo business to be run by local communities.
Bangli located in the middle of Bali island

- 115°13’48” - 115°27’24” West Longitude; 8°8’30” - 8°31’87” South Latitude
- Total area of 520,81 km² or 9.25% of Bali Province
- 100 – 2,152 m above sea level
Mount and Lake Batur
Penglipuran Village
Bamboo Forest Penglipuran Village
Bamboo and Balinese

- Bamboo is part of the Balinese Life
- From birth to dead cremation ceremony
Stakeholders and Collaborator

- **Main actor and benefeciaris**
  Local community, farmer, craftmen, cooperation
- **Local Goverment**
- **Central Goverment**
- **University**: UNUD-Bali, IPB-Bogor, ITB-Bogor
- **Asosiation**: GKBN, Komunitas Bambu Nusantara, Bengkel Hijau, Center for Bamboo Aplication.
- **NGO/NPO**: EBF/YBL, Yayasan Saung Udjo, Bengkel Hijau
- **Private**: PT. Bambu Nusa Verde, PT. IndoBamboo, PT. Surya Bamboo Bali, CV. Jalu Teknik, CV. JatimBu
# Project Plan

## Year 1
- Baseline study/Bench Mark Condition
- Up Stream Sectors

## Year 2
- Capacity Building
- SME Strengthen
- Down Stream Sectors
- Policy and Strategy Strengthen

## Year 3
- Publications
- Monitoring and strengthen
- Investment
- Established SME
- Exit Strategy
**CONSTRAINTS**

**Up stream Sector**

*(Cultivation, Raw Materials and Traditional Use)*

- Less cultivated, nature dependant and neglected
- Scattered area population
- Unstable price and market
- Need more value added processing
- Low incentives from government
2. 1. Upstream Activities

1. Bamboo distribution (*growing stock*) in Bali
2. Bamboo seedling propagation
3. Demo plot on bamboo planting
4. Clump management and maintenance
5. Bamboo Farmer assistance → Bamboo Ranger
6. Bamboo Value adding
<table>
<thead>
<tr>
<th>Suitability class</th>
<th>Area (ha)</th>
<th>Proportion (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approximately suitable</td>
<td>18,605</td>
<td>49</td>
</tr>
<tr>
<td>Not Suitable</td>
<td>5,116</td>
<td>13</td>
</tr>
<tr>
<td>Suitable</td>
<td>14,531</td>
<td>38</td>
</tr>
<tr>
<td>Total</td>
<td>38,253</td>
<td>100</td>
</tr>
</tbody>
</table>

2. 1. Bamboo Distribution
Bamboo Distribution in Bali

2.1. Bamboo Distribution
Working with Farmer

- Bamboo Cultivation
- Clump Management
- Establishing “Bamboo Ranger” collaboration with Environmental Bamboo Foundation
CONSTRAINTS

Down stream Sector
(Processing and Bamboo Based Industry)

- Uncertainty of raw materials
- Lack of products innovations
- Lack of product promotion
- Need more high value product
- Lack of supportive policy
- Low Government Incentives
2.2. Downstream Sectors

Current Condition

Industries identified
- Waving for basket
- Waving for housing wall
- Handycraft
- Bamboo lamination
- Bamboo stick for ‘dupa’
# Working with Craftsmans

<table>
<thead>
<tr>
<th>Year</th>
<th>Group</th>
<th>Crafmn (person)</th>
<th>Investasi (USD)</th>
<th>Income (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>4.766</td>
<td>9.265</td>
<td>24.782</td>
<td>141.698</td>
</tr>
<tr>
<td>2013</td>
<td>4.945</td>
<td>9.923</td>
<td>37.722</td>
<td>238.338</td>
</tr>
</tbody>
</table>
Alternative Bamboo Industry

✓ Value adding bamboo product for upstream sectors
✓ Good opportunity
✓ Introducing new bamboo products: praying stick (dupa), toothpick, satay stick and
2.3. Policy Aspect

☑ Review on Indonesian National Strategy on Sustainable Bamboo Utilization.
☑ Establish stakeholders forum
☑ National Campaign on “Bamboo Industry”.
Conclusion

For sustainable bamboo industry....... 

- Synergize and Integrating program on planting & utilization
- Policy and political will
- Bamboo as community development
Matur Sukseme

TERIMA KASIH
THANK YOU
5. Project Documentation

1. Project Official Soft Launching at Bangli District; Head of EA FORDA, Head of Forestry Bangli District and Head of Industrial dan Trade Bangli District (April 2014).

2. 1st PSC Meeting attended by DG FORDA, Forestry Agency Japan, ITTO Project Manager and stakeholders (June 2014).

3. 2nd PSC Meeting attended by DG FORDA, ITTO Project Manager and stakeholders (August 2015).
5. Project Documentation

Ministerial Meeting on Bamboo Industry Development organized by CBRC, China (31 Oct – 7 November 2014).
5. Project Documentation

Kegiatan Dukungan Bersama-sama Para Pihak dalam Pengembangan Industri Bambu Inodonesia