

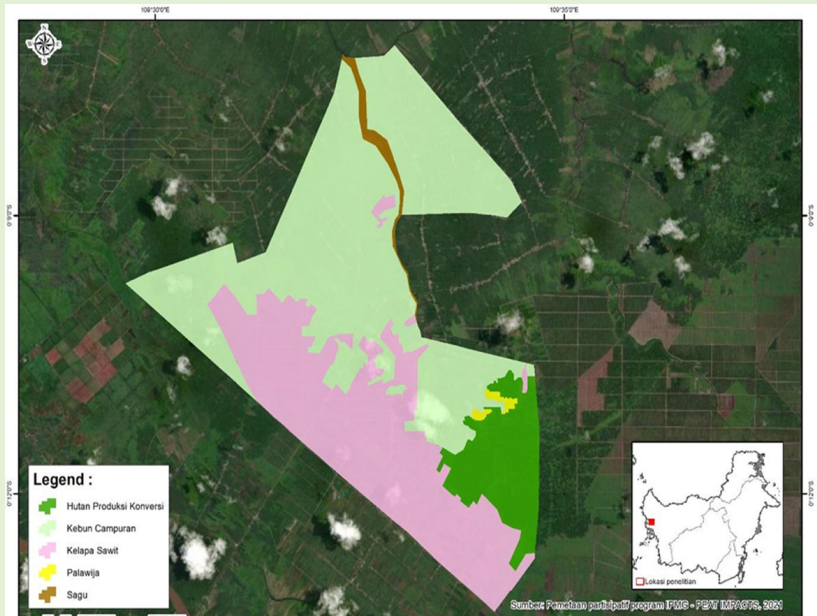
# Business model for improving management of rubber-coffee agroforestry on peatlands in Bengkarek Village, Sungai Ambawang Subdistrict, Kubu Raya District



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Bengkarek Village is located in the Kapuas-Ambawang River Peat Hydrological Unit (PHU). Four of seven sub-villages are covered by peatland up to 2 m depth. Motorcycle and boat are transportation modes to access the village.

- Agroforestry system of rubber-coffee-pepper dominant landcover in Bengkarek, that mostly grow in mineral soil. While annual crop grow in peatlands area.
- Oil palm plantations, managed under plasma scheme by three companies are the second largest land cover in the village.
- Secondary forest of approximately 600 ha available in the village.
- Low price of rubber, low productivity of coffee yields and death of pepper due to high intensity of flooding leading to shift towards to oil palm and annual crops.
- Improvement of agroforestry rubber-coffee management is aimed at increasing their productivity.
- Rubber and coffee post-harvest handling conforms to market standards, fetching farmers a higher selling price.
- Training on good agriculture practices for rubber-coffee agroforestry and post-harvest handling techniques to ensure high-quality that meet market standards was delivered to farmer group.
- Farmer group initiate demoplot rubber-coffee agroforestry as a learning site



### Rubber and coffee bean agroforestry design



- Rubber-coffee agroforestry demoplot was established on community-owned in peatland of 0.5 ha.
- Zero-burning technique applied on land preparation.
- Rubber trees are planted at spacing of  $3 \times 3$  m. Coffee plants are then intercropped between rubber trees, also following a  $3 \times 3$  m spacing pattern.

# Business model for improving management of rubber-coffee agroforestry on peatlands

Enabling factors	Key business activities	Supporting functions	Supporting organisations
<p><b>Production process</b></p> <ul style="list-style-type: none"> <li>The Minister of Agriculture Regulation No. 131/Permentan/OT.140 /12/2013 on Guidelines for Rubber (Hevea brasiliensis) Cultivation</li> <li>The Minister of Agriculture Regulation No. 48/2014 on Technical Guidelines for Good Cultivation of Coffee</li> <li>The Minister of Agriculture Regulation No. 5/2018 on Land Clearing and/or Management Without Burning</li> </ul>	<pre> graph TD     A[Rubber-coffee agroforestry farmer group] --&gt; B[Rubber]     A --&gt; C[Coffee]     B --&gt; D[Dry process for rubber latex in accordance with standards]     D --&gt; E[PT Bintang Borneo Persada (BBP)]     C --&gt; F[Wet processing]     C --&gt; G[Dry processing]     F --&gt; H[First quality coffee bean]     H --&gt; I[101 Coffee]     G --&gt; J[BUMDes or other business unit]     J --&gt; K[Collectors]     </pre>	<ul style="list-style-type: none"> <li>Rubber and coffee seedlings</li> <li>Production facilities and equipment</li> <li>Extension programmes, training, mentorship</li> <li>Financial institution</li> </ul>	<ul style="list-style-type: none"> <li>The Village Community Empowerment Office</li> <li>The Plantation and Livestock Office</li> <li>PT BBP</li> <li>101 Coffee</li> <li>The Watershed and Protected Forest Management Centre</li> </ul>
<p><b>Marketing</b></p> <ul style="list-style-type: none"> <li>The Minister of Agriculture Regulation No. 52/2012 on Guidelines for Coffee Bean Post-Harvest Processing</li> <li>The Indonesia National Standard 2907 - 2008 on Coffee Bean</li> </ul>	<ul style="list-style-type: none"> <li>PT Bintang Borneo Persada (BBP)</li> <li>101 Coffee</li> <li>Collectors</li> </ul>	<ul style="list-style-type: none"> <li>Transportation</li> <li>Financial institution</li> <li>Warehouse/storage</li> <li>Financial institution</li> <li>Information technology</li> </ul>	<ul style="list-style-type: none"> <li>PT BBP</li> <li>101 Coffee</li> </ul>

## Training programmes for farmer group



Training on good agriculture practices for rubber



Training on coffee bean post-harvest handling



Training on organic fertiliser making



Training on rubber post-harvest handling



Training on vegetative reproduction of rubber, coffee and fruit trees

## Demoplot development activities



Land preparation



Stake installation



Seedling transportation

## Adoption of training topic



A farmer is grafting rubber seedling in the plantation



Farmers implement the company's standards for rubber post-harvest handling

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