

1. General Description:

1.1 Project Title:

Development of an Information System on the Potential for Wood and Carbon to support Sustainable Forest Management in South Kalimantan, Indonesia

1.2 Submitting Country/ies:

Indonesia

1.3 Specific Location & Country/ies/regions/areas benefitting from the project:

South Kalimantan/Kalimantan/Indonesia

1.4 Endorsement from ITTO Focal Point:

S_Endorsement_for_a-Project_Concept_Note.pdf

1.5 Intended Project Duration (in months):

36

1.6 Indicative Budget (in US\$):

ITTO	233300
Counterpart	35020
Total	268320

1.7 Programme Line Focus (select 1):

Legal and Sustainable Supply Chains (LSSC)

1.8 Project Type (select up to 3):

Community/field-based project implementation, Pilot/demonstration project, Policy

development/implementation

Project Type - Other (please explain):

This project is a pilot project to find out how much wood and carbon potential is currently in a certain land unit, as well as to determine the potential for additional growth. The data is stored in a spatial web database. The web is also built on features for monitoring and evaluation as well as decision making. The data is used for decision making for AAC determination and the potential development of carbon stocks in South Kalimantan.

1.9 Proposal Summary:

The timber industry in South Kalimantan reached its heyday in the 1980-2000 decade, with the highest production reaching 1.9 million m³ in 1998 (Jauhari A, et al. 2020). In 2021, there will still be 10 large-scale timber industries (Forestry Service, 2021). The decline in the number of the wood industry cannot be separated from the imbalance between supply and demand. When the timber business is based on market demand, the ability to supply is not considered. At present, the policy has been changed based on resource capacity, but the current resource potential has already decreased, even if there is no accurate data on the availability of timber potential. As the potential for timber decreases, the ability of forests to reduce carbon emissions also decreases. The problems faced in sustainable forest management in South Kalimantan are: 1) Unavailability of special areas in the form of PSP per land unit to determine the potential and growth of plantations in plantations and natural forests, 2) There is no data available to regulate cutting allowances according to time, place and area, so that the guarantee of sustainability is low, 3) There is no spatial database on the potential of wood and carbon that can be used as a tool for monitoring, evaluation and control, and decision making for achieving SFM. The output expected from this project is 1) Establishment of PSP per land unit in 3 FMUs in natural and plantation forests with selected species. 2) Developed spatial database of PSPs per land unit formed. 3) The data can be used as a decision-making tool, including those related to the arrangement of the cutting quota according to area, location volume and ownership.

2. Proponent Information:

2.1 Executing Agency Information:

Name of Agency/Organization/Institution:

Regional Planning South Kalimantan, Indonesia

Name of main Contact Person:

Ahmad Jauhari

Email:

ajauhari@ulm.ac.id

Phone:

+62 82158494646

2.2 Type of Organization:

Governmental Agency

2.3 Collaborating Agency/ies:**Name of Agency/Organization/Institution:**

Forestry Service offices; Environmental Office; Research Institute and Community Empowerment, Univ. Lambung Mangkurat

Name of main Contact Person:

Prof. Dr. Ir. H. Danang Biyatmoko, M.Si

Email Address:

danangbiyatmoko@ulm.ac.id

Phone:

+62 812-5110-5615

URL:

<http://lppm.ulm.ac.id/id/biodata-pimpinan-dan-staf>

2.4 Relevant experience of EA:

2014; KFCP (Kalimantan Forest Climates Partnership); Forest Planner and GIS/RS;

2013; ILO-GLACIER; Forest Planner and GIS/RS; 2008-2010; ITTO (International Timber Trade Organization); Project Coordinator PD397/Rev3; Preparation of the Long Term Plan for the South Kalimantan Timber Industry 2007; EMRP(ex-Mega Rice Project) Center Kalimantan; Forester 2002-2004; SCKPFP-EU, South and Center kalimantan; Forester; 2001; SCKPFP-EU, South and Center kalimantan; Local GIS Expert;

3. Relevance:

3.1 Conformity with ITTO objectives (ITTA, 2006) and priorities (current SAP):

This proposal is relevant to ITTO objectives, including: 1. To be able to contribute to the sustainable development process, 2. To increase consumption and supply continuity in the long run, 3. Promote and support research and development in order to improve forest management 4. Increase capacity to conserve and enhance forest values 5. To promote tropical timber from sustainable sources 6. Increase the marketing and distribution of tropical timber exports from sustainably managed sources 7. To encourage information sharing on the international timber market.

3.2 Relevance to the ITTO Programme Lines:

1. Legal and Sustainable Supply Chains, 2. Emerging Issues and Innovation.

3.3 Relevance to the Sustainable Development Goals (SDGs) and the Global Forest Goals (GFGs) and other forest related global agenda:

This project is relevant to the Sustainable Development Goal 15 which aims to protect, restore and promote the sustainable use of terrestrial ecosystems, manage forests in a sustainable manner, Also, relevant to the Climate Action Goal 13 which aims to produce protection of a wider forest area for mitigation, but this depends on the state of the forest. Efforts to tackle climate change, especially related to carbon stock, need to be aligned with the arrangement of the annual cut allowance in the SFM. At local and national scales, the Project also helps inform developments in the potential value of timber and carbon, distribution and ownership status in South Kalimantan. At the global level, this project can help monitor and evaluate climate change by calculating its carbon potential and changes, especially in South Kalimantan..

3.4 Relevance to submitting country's policies:

KLHK's strategic policies that are relevant to this project are 1. The increase in stand growth at each PSP in FMUs is supporting information for environmental management index (IKLH), 2. The availability of potential information makes it easier to predict carbon potential. Carbon potential can support information on changes in the value of Greenhouse Gas Emissions (GHG),

3.5 Linkages to previous/ongoing ITTO and other projects/activities (if any):

Continuing in the sense of adding more realistic information (especially for Wood Supply side data) for the development of the Timber Industry in South Kalimantan as planned in the ITTO Project PD 397/06 Rev.03 2010.

4. Project synopsis:

4.1 Objectives (reflecting reference to elements within all ITTO Guidelines as applicable):

1. Building a spatial database of wood and carbon potential through measuring the increase in plant growth in Permanent Sample Plots (PSP) in natural forests and plantations, this database information can guarantee the continuity of wood and carbon supply in the long term. 2. Presenting the database in the spatial e-services website as part of the publication of the potential for wood and carbon in South Kalimantan. 3. Utilize this spatial database for monitoring, evaluation, control and regulation of results as well as decision making for the achievement of sustainable Forest Management in South Kalimantan

4.2 Key problem(s) to be addressed:

1. The unavailability of a special area in the form of PSP per land unit to determine the potential and increase in plant growth in plantations and natural forests, 2. There is no spatial database available to fill data on the WebGIS E-Services Information System 3. The unavailability of a spatial database on the potential for wood and carbon that can be used as a tool for monitoring, evaluation and control, and decision making (yield regulation) for achieving SFM.

4.3 Main stakeholders and beneficiaries:

~~THE MAIN OBJECTIVES AND BENEFICIARIES:~~

1. Have clear information on timber and carbon potential by area, volume, stand quality, location and ownership. 2. Availability of Information Systems to facilitate monitoring, evaluation and decision making 3. Facilitate the arrangement of the cutting ration according to time, place and area which will become a liquid regional asset.

4.4 Key activities:

1. Making PSP in selected FMU based on land unit, wood type and forest condition (natural / plant forest), 2. Conducting an initial inventory and annual measurements, then analyzing and modeling the potential data of wood and carbon per land unit so that it can be used to complement / fill in webgis e-services data, 3. Creating and or improving the information system on wood and carbon web spatial e-services to function as monitoring, evaluation, control and regulation of results as well as decision making for the achievement of sustainable Forest Management.

4.5 Expected outcomes and impacts, including innovation/transformation:

1. Local income increases through selling wood and carbon, 2. Environmental quality increases, 3. Forest communities are more prosperous, 4. Illegal activity in the forest is decreasing.

4.6 Existing funding for (related) initiative(s)/established contacts to potential donors:

Global Green Growth Institute (GGGI), but has not been contacted specifically regarding the material for this proposed project candidate.

4.7 Any other information deemed necessary/important:

1. GGGI is currently assisting the Forestry Service regarding forestry development in South Kalimantan. 2. The proposed project is a continuation of the cooperation between the South Kalimantan Governments-Ministry of Environment and Forestry-Finland Governments. 3. This project proposal is a continuation of the ITTO Project PD 397/06 Rev.03 2010, especially for Wood Supply side data

4.8 Risk mitigation measures:

This project helps the government to complete the wood and carbon database for forest and environmental sustainability. This project must have full commitment

(minimal risk) from stakeholders at both the national and provincial / district levels. Risks arise related to safety in the PSP area. Risk mitigation is carried out by providing an explanation of the benefits of PSP for the community around the forest, especially for the community around the study area.

5. Indicative Budget (in US\$):

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Description	ITTO	Counterpart	Total
Personnel	64800	9720	74520
Sub-contracts	6500	1000	7500
Travel and DSA	50000	7500	57500
Capital Items	76000	11400	87400
Consumables	25000	3750	28750
Publication / Dissemination	6000	900	6900
Miscellaneous	5000	750	5750
Total	233300	35020	268320