



## ADAPTATION FUND

AFB/PPRC.23/7  
24 September, 2018

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Adaptation Fund Board  
Project and Programme Review Committee  
Twenty-Third Meeting  
Bonn, Germany, 9-10 October, 2018

Agenda Item 6 a)

### **PROPOSAL FOR INDONESIA (1)**

## Background

1. The Operational Policies and Guidelines (OPG) for Parties to Access Resources from the Adaptation Fund (the Fund), adopted by the Adaptation Fund Board (the Board), state in paragraph 45 that regular adaptation project and programme proposals, i.e. those that request funding exceeding US\$ 1 million, would undergo either a one-step, or a two-step approval process. In case of the one-step process, the proponent would directly submit a fully-developed project proposal. In the two-step process, the proponent would first submit a brief project concept, which would be reviewed by the Project and Programme Review Committee (PPRC) and would have to receive the endorsement of the Board. In the second step, the fully-developed project/programme document would be reviewed by the PPRC, and would ultimately require the Board's approval.

2. The Templates approved by the Board (Annex 5 of the OPG, as amended in March 2016) do not include a separate template for project and programme concepts but provide that these are to be submitted using the project and programme proposal template. The section on Adaptation Fund Project Review Criteria states:

*For regular projects using the two-step approval process, only the first four criteria will be applied when reviewing the 1st step for regular project concept. In addition, the information provided in the 1st step approval process with respect to the review criteria for the regular project concept could be less detailed than the information in the request for approval template submitted at the 2nd step approval process. Furthermore, a final project document is required for regular projects for the 2nd step approval, in addition to the approval template.*

3. The first four criteria mentioned above are:

- (i) Country Eligibility,
- (ii) Project Eligibility,
- (iii) Resource Availability, and
- (iv) Eligibility of NIE/MIE.

4. The fifth criterion, applied when reviewing a fully-developed project document, is:  
(v) Implementation Arrangements.

5. It is worth noting that at the twenty-second Board meeting, the Environmental and Social Policy (ESP) of the Fund was approved and at the twenty-seventh Board meeting, the Gender Policy (GP) of the Fund was also approved. Consequently, compliance with both the ESP and the GP has been included in the review criteria both for concept documents and fully-developed project documents. The proposal template was revised as well, to include sections requesting demonstration of compliance of the project/programme with the ESP and the GP.

6. At its seventeenth meeting, the Board decided (Decision B.17/7) to approve "Instructions for preparing a request for project or programme funding from the Adaptation Fund", contained in the Annex to document AFB/PPRC.8/4, which further outlines applicable review criteria for

both concepts and fully-developed proposals. The latest version of this document was launched in conjunction with the revision of the Operational Policies and Guidelines in November 2013.

7. Based on the Board Decision B.9/2, the first call for project and programme proposals was issued and an invitation letter to eligible Parties to submit project and programme proposals to the Fund was sent out on April 8, 2010.

8. According to the Board Decision B.12/10, a project or programme proposal needs to be received by the secretariat no less than nine weeks before a Board meeting, in order to be considered by the Board in that meeting.

9. The following fully-developed project document titled “Community Adaptation for Forest-Food Based Management in Saddang Watershed Ecosystem” was submitted for Indonesia by the Partnership for Governance Reform in Indonesia (Kemitraan), which a National Implementing Entity of the Adaptation Fund.

10. This is the first submission of the proposal using the two-step submission process. It was first submitted as a concept note in the thirtieth Board meeting, and the Board decided:

- (a) *To endorse the project concept, as supplemented by the clarification response provided by the Partnership for Governance Reform in Indonesia (Kemitraan) to the request made by the technical review;*
- (b) To request the secretariat to transmit to Kemitraan the observations in the review sheet annexed to the notification of the Board’s decision as well as the following issues:
  - (i) *The fully-developed project document should further strengthen the consultative processes; involving all key stakeholders and vulnerable groups and including gender considerations in compliance with the Adaptation Fund’s environmental and social policy and gender policy need to be done during project’s design phase. A description of the consultation process, specifying groups considered and consultation outcomes, should be provided;*
  - (ii) *At the fully-developed project document stage, compliance of the identified project environmental and social impacts/risks with the Adaptation Fund’s environmental and social policy and gender policy has to be better explained, specifically for activities requiring physical interventions under output 1.3.2;*
  - (iii) *The concept of “social forestry scheme” should be better explained;*
  - (iv) *The impact of the proposed coastal management on the areas being targeted should be further detailed;*

- (v) *Since the identified project targeted area comprises four districts, a more detailed description of the institutional arrangements that will be put in place should be provided;*
- (c) *To approve the project formulation grant of US\$ 30,000;*
- (d) *To request Kemitraan to transmit the observations under subparagraph (b) to the Government of the Indonesia; and*
- (e) *To encourage the Government of Indonesia to submit through Kemitraan a fully-developed project proposal that would address the observations under subparagraph (b) above. (Decision B.30/5)*

**(Decision B.30/5)**

11. The current submission was received by the secretariat in time to be considered in the thirty-second Board meeting. The secretariat carried out a technical review of the project proposal, assigned it the diary number IDN/NIE/Food/2017/1, and completed a review sheet.

12. In accordance with a request to the secretariat made by the Board in its 10th meeting, the secretariat shared this review sheet with Kemitraan, and offered it the opportunity of providing responses before the review sheet was sent to the PPRC.

13. The secretariat is submitting to the PPRC the summary and, pursuant to decision B.17/15, the final technical review of the project, both prepared by the secretariat, along with the final submission of the proposal in the following section. In accordance with decision B.25.15, the proposal is submitted with changes between the initial submission and the revised version highlighted.

## Project Summary

### Indonesia – Community Adaptation for Forest-Food Based Management in Saddang Watershed Ecosystem

Implementing Entity: Partnership for Governance Reform in Indonesia (Kemitraan)

Project/Programme Execution Cost: 68,373 USD

Total Project/Programme Cost: 702,334 USD

Implementing Fee: 64,758 USD

Financing Requested: 835,465 USD

### [Project/Programme] Background and Context

Based on the 2015-2019 Strategic Plan of the Ministry of Environment and Forests, Saddang Sawah Watershed (DAS) is a “Priority Watershed in Indonesia”. The level of area risk due to climate change associated with the disaster level in the Saddang Watershed area, shows that 93% of villages in the watershed are vulnerable to climate change.

The objective of the proposed programme is to increase community resilience to food security in Saddang Watershed, as an effort to adapt to climate change. Through a series of interventions, the “watershed ecosystem communities” will be able to increase resilience to climate change impacts both in food security through the development of forest food and food diversification, as well as ecosystem resilience through enhancement of forest cover quality in the Priority Watershed, as well as resilience through integrated coastal management.

Component 1: Strengthened Social Forestry in encouraging forest food in the upstream of Saddang Watershed which has implications for the improvement of the environment and the increase of people’s income (USD 344,069).

This component entails targeting 5,000 ha for the Social Forestry scheme in the upstream of Saddang Watershed. The adaptation effort will be done through the rehabilitation of the Agroforestry model pattern.

Component 2: Improved coastal governance and carrying capacity in support of climate change adaptation downstream of Saddang Watershed (USD 176,843).

Improved governance and coastal carrying capacity will contribute to the improvement of coastal functions because of climate change. This component will include the rehabilitation of mangroves, which will contribute directly in preventing flooding, erosion of ponds along the river banks. In addition, this component will contribute to improving food security and capacity of local groups. Increased food security is done through the development of creative businesses and the development of food diversification by encouraging superior commodities in intervention villages such as seaweed and business development from salak<sup>4</sup>, which will have a positive impact on the income of coastal communities.

Component 3: Strengthened crosscutting policies in ensuring the sustainability of climate change adaptation (USD 90,504).

At the district level, every local government unit on environmental, agricultural and climate change, local NGOs, and several experts from universities will be involved in the regional action plan (RAD API) development process. The activities of the RAD POKJA-API will become part of the draft local regulations (*ranperda*) and the strategic plan (*renstra*) in each regional unit. This constitutes a benchmark for integrating the strategies and action plans that will be formulated.

Component 4: Capacity building and stakeholder support on climate change adaptation through knowledge dissemination and management (USD 90,918).

This component will entail various activities to support knowledge management and learning activities, to ensure the sustainability of climate change adaptation and ensure that any learning elements in the project can be replicated in the future. To support the dissemination of best practices, the main activities in this knowledge management component are publications by launching documentaries, lessons learned books, research journals, and policy briefs related to Climate Change Adaptation action.



ADAPTATION FUND

## ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Regular-sized Project Concept

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Country/Region: **Indonesia/ Asia Pacific**  
Project Title: **Community Adaptation for Forest-Food Based Management in Saddang Watershed Ecosystem**  
Thematic Focal Area: **Food Security**  
Implementing Entity: **Kemitraan**  
AF Project ID: **IDN/NIE/Food/2017/1**  
IE Project ID:  
Reviewer and contact person: **Martina Dorigo**  
IE Contact Person: **Monica Tanuhandaru**

Requested Financing from Adaptation Fund (US Dollars): **835,465**  
Co-reviewer(s): **Saliha Dobardzic**

Review Criteria	Questions	Comments 8 August 2018	Management Respon
Country Eligibility	1. Is the country party to the Kyoto Protocol?	Yes.	
	2. Is the country a developing country particularly vulnerable to the adverse effects of climate change?	Yes, Indonesia is a developing country highly vulnerable to the negative effects of climate change, and the project targeted area, Saddang watershed is a Priority Watershed in Indonesia.	
Project Eligibility	1. Has the designated government authority for the Adaptation Fund endorsed the project/programme?	Yes, the LOE was provided.	

	<p>2. Does the project / programme support concrete adaptation actions to assist the country in addressing adaptive capacity to the adverse effects of climate change and build in climate resilience?</p>	<p>Yes, nevertheless at fully developed stage further information is required in the following aspects:</p> <p>The proposal needs to further describe the outputs that will be achieved and the project activities.</p> <p><b>CR 1:</b> For a fully developed proposal, the activities will have to be detailed to a sufficient level and their appropriateness in responding to the threats posed by the likely climate scenarios should be outlined in detail. Kindly add such information under <i>section II – project components</i> of the proposal template.</p> <p>It is noted that the proposed duration for this proposal is 18 months. Nevertheless, some of the proposed activities leading to expected outputs could need more time to be completed. For example, outcome 1.3 “Increased community income from forest food in the upstream of Saddang Watershed”, could necessitate an expanded timeframe to reach the targeted achievement.</p> <p><b>CR 2:</b> Kindly revise the duration of the project or revised some of the project outcomes according to the duration of the initiative.</p>	<p>CR1: we adding same paragraph to describe climate scenarios on <i>section II – project components on pg 13-20</i></p> <p>CR2: we chose to revise outcome 1.3 also for the indicator</p>
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	<p>3. Does the project / programme provide economic, social and environmental benefits, particularly to vulnerable communities, including gender considerations, while avoiding or mitigating negative impacts, in compliance with the Environmental and Social Policy and Gender Policy of the Fund?</p>	<p>Unclear. In this section the proponents provide a generic description on the provision of environmental, economic and social benefits, under the AF ESP principles. However, for a fully developed proposal, the estimated benefits will have to be quantified, whenever possible.</p> <p><b>CR 3:</b> The proposal should quantify as much as possible the expected economic and environmental and social benefits listed in the section. You might include a table for clarity, indicating the proposal outputs and the related expected benefits that they will provide.</p>	<p>CR3 : the table of economic, social and environmental benefits have been input on pg. 25-33. Beside that, we revise some paragraph on pg. 24-25</p>
	<p>4. Is the project / programme cost effective?</p>	<p>Needs further substantiation. According to the cost-effectiveness analysis provided, the proposed intervention will be cost-effective in the long-term (if compared to a status quo scenario), over a 10 years projection, nevertheless an explanation of these data should be provided.</p> <p><b>CR 4:</b> Provide further details on the cost-effectiveness analysis mentioned, by justifying the quantitative data of the table with supporting information on the proposed intervention.</p>	<p>CR 4: team have been calculated the cost effective based on the latest change of the proposal and revise the describe.</p>

	5. Is the project / programme consistent with national or sub-national sustainable development strategies, national or sub-national development plans, poverty reduction strategies, national communications and adaptation programs of action and other relevant instruments?	<p>Yes. The project is line with:</p> <ul style="list-style-type: none"> <li>• The objective of the National Action Plan of Climate Change Adaptation (RAN - API) Indonesia 2014.</li> <li>• Strategic Plan of Food Security Agency 2015 – 2019.</li> <li>• Strategic Plan of Environment and Forestry in 2015 -2019. • Strategic Plan of Regional Environmental Agency of South Sulawesi province in 2013 – 2018.</li> <li>• Medium -Term Development Plan of Tana Toraja 2016 – 2021.</li> <li>• Regional Regulation No. 12 of 2011 on Spatial Planning of Tana Toraja in 2011 - 2030.</li> <li>• Short -Term Development Plan of North Toraja in 2010 – 2030.</li> <li>• Medium -Term Development Plan of Pinrang in 2014 – 2019.</li> </ul>	
	6. Does the project / programme meet the relevant national technical standards, where applicable, in compliance with the Environmental and Social Policy of the Fund?	Yes.	
	7. Is there duplication of project / programme with other funding sources?	No, this project would represent the first of its kind.	

	<p>8. Does the project / programme have a learning and knowledge management component to capture and feedback lessons?</p>	<p>Yes. The project has one component (4) devoted to KM activities. The KM strategy will entail the establishment of a forum for coordination and knowledge management in each district. Additionally, the project thinks about developing training modules and technical guidance materials, as a way to maintain and disseminate knowledge even after the project will be finalized.</p>	
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	<p>9. Has a consultative process taken place, and has it involved all key stakeholders, and vulnerable groups, including gender considerations in compliance with the Environmental and Social Policy and Gender Policy of the Fund?</p>	<p>Further clarifications are needed. It is noted that, a consultative process has taken place with stakeholders at different levels, including women groups. A multi-stakeholder workshop: "Climate Change Impacts" was organized on 3-4 July 2018.</p> <p>Clarify/revise the following:  <b>CR 5:</b> Spell out the acronyms listed in the tables (pages 31-34).  <b>CR 6:</b> Clarify if consultations have been undertaken in all the villages where the project will be taking place.  <b>CR 7:</b> It is stated that "Specifically, especially for vulnerable groups and gender issues, the start of the project will identify the vulnerable persons or families who will be involved by taking into account the distance, the impact of the project, and the results of the analysis of the expert or specialist team assigned to handle this". Kindly specify if all the project beneficiaries will be identified in the project starting phase.  <b>CR 8:</b> Specify if in the table on page 37 the key consultation findings were reported (in particular suggestions and concerns raised), and how these will be included in the project.</p>	<p>CR 5: we have ben spell out the acronyms on pg 38-41  CR 6: refer to page 38-41 on the table, team already have been get the consultation on all villages where the project will be taking place.  CR7: based on indicator, we have been calculated the gender on each of the activity. And we provide budget for social gender expert/specialist.  CR8: project component starting from particular suggestions and concerns raised from multi stakeholder</p>
	<p>10. Is the requested financing justified on the basis of full cost of adaptation reasoning?</p>	<p>Yes.</p>	
	<p>11. Is the project / program aligned with AF's results framework?</p>	<p>Yes.</p>	
	<p>12. Has the sustainability of the project/programme outcomes been taken into account when</p>	<p>This part needs more clarification. In general, the proponent can strengthen the information provided to ensure sustainability of project's</p>	<p>CR9: We adding the measurement on page 45-47</p>



	designing the project?	<p>outcomes.</p> <p><b>CR 9:</b> Kindly provide more details on the measures to ensure the sustainability of the project's outputs (table page 39-40).</p> <p>Kindly provide further information on sustainability mechanism in place for the management of the proposed EWS platform.</p> <p><b>CR 10:</b> It is noted that an EWS platform will be created under the project, but after the project will be finalized it is not clear how this platform will stay active.</p>	<p>CR10: in pg. 49, we describe that how the EWS System will be encouraged by the regional government even after the project get finished.</p>
	13. Does the project / programme provide an overview of environmental and social impacts / risks identified, in compliance with the Environmental and Social Policy and Gender Policy of the Fund?	<p>The overview of the environmental and social impacts has been provided, along with further information, such as the consultations carried out, in compliance with the ESP and GP. However, some of the information is not clear or requires additional details.</p> <p><b>CR 14:</b> For instance, the proposal mentions (on p. 24) that the results of the ESMP show that there is a significant potential impact on social and environmental conditions that could impede the entry of these programs in the early stages of the program. Please clarify this point.</p> <p><b>CR 15:</b> Please clarify the project's approach to ensuring safeguards for Marginalized and Vulnerable Groups. Please specify how the principle of Gender Equality and Women's empowerment will be safeguarded. Please clarify the 12<sup>th</sup> principle and its place in ESMP.</p>	<p>CR14 : in this sentence we get some mistakes when gathering sentences, so that after going through the discussion process the sentence has no meaning to remain in the sentence. we decided to revise the paragraph in pg. 23</p> <p>CR15 : we have been calculated the gender on each of the activity. And we provide budget for social gender expert/specialist. For the 12<sup>th</sup> principle, we revise the paragraph</p>

		Also please see the points made below on the ESMP.	on pg. 25
Resource Availability	1. Is the requested project / programme funding within the cap of the country?	Yes.	
	2. Is the Implementing Entity Management Fee at or below 8.5 per cent of the total project/programme budget before the fee?	No, the implementing entity fee amounts to USD 70,907 and represents 9.3% of the total project budget before the fee. <b>CAR 1:</b> Kindly revise the IE fee amount, for it to be below or at 8.5%	CAR1: have been revise, refer to pg 12 and on budgeting table.
	3. Are the Project/Programme Execution Costs at or below 9.5 per cent of the total project/programme budget (including the fee)?	Yes, the project execution cost is USD 71,989 or 9.4% of the total project budget including the fee.	
Eligibility of IE	4. Is the project/programme submitted through an eligible Implementing Entity that has been accredited by the Board?	Yes, Kemitraan is a National Implementing Entity Accredited to the Adaptation Fund Board.	

Implementation Arrangements	1. Is there adequate arrangement for project / programme management, in compliance with the Gender Policy of the Fund?	<p>The implementation arrangements should be further described. For example:</p> <p><b>CR 11:</b> provide information on the following:</p> <ul style="list-style-type: none"> <li>- On what frequency will the project steering committee meet? By which institutions will be formed?</li> <li>- The group of experts that will support the PMU, will include an expert on gender, or a social expert? Please take this into account as it could be useful to have this kind of expertise when working with communities.</li> <li>- Please specify how the implementation arrangements will allow for stakeholders' views to be heard during project implementation. Please remember that whenever possible, a strategy and timetable for sharing information and consulting with each of the stakeholder groups during project implementation should be provided. Adequate facilitation measures (e.g. travel costs) should be budgeted to minimize barriers for involvement of key stakeholders where these impede their participation.</li> </ul>	CR 11: we revise some paragraph on pg 54 about steering committee. we provide budget for social gender expert/specialist
	2. Are there measures for financial and project/programme risk management?	<p>Yes, risk identification and measures for risk management have been reported.</p> <p><b>CR 12:</b> Nevertheless, kindly provide information on the roles and responsibilities of each one of the parties involved in the project management unit for financial and project risk management.</p>	CR12 : on pg. 56 at point financial, we revise the paragraph.

	3. Are there measures in place for the management of for environmental and social risks, in line with the Environmental and Social Policy and Gender Policy of the Fund?	<b>CAR 5:</b> The ESPM (p. 49) is very brief. Please refer to the comments on the environmental and social policy above, and amend the ESPM as appropriate.	<b>CAR 5:</b> the describe of ESMP <b>have been add on the table of pg. 25-33</b>
	4. Is a budget on the Implementing Entity Management Fee use included?	No. <b>CAR 2:</b> Kindly provide a budget with breakdown of costs for the project management fee.	CAR 2: already done on pg. 77
	5. Is an explanation and a breakdown of the execution costs included?	Yes, it has been provided.	
	6. Is a detailed budget including budget notes included?	Yes, a detailed budget has been provided.	
	7. Are arrangements for monitoring and evaluation clearly defined, including budgeted M&E plans and sex-disaggregated data, targets and indicators, in compliance with the Gender Policy of the Fund?	Yes, arrangements for M&E have been provided. <b>CR 13:</b> Kindly see if possible to include sex-disaggregated data in indicators for outputs 1.2.1;1.2.2;2.1.2;2.2.1.	The gender of indicator get seprated on 61-62
	8. Does the M&E Framework include a break-down of how implementing entity IE fees will be utilized in the supervision of the M&E function?	Yes, a breakdown to ensure M&E functions is provided. Nevertheless, as per comment under point 4 above an overall budget on the IE fee is missing.	



	9. Does the project/programme's results framework align with the AF's results framework? Does it include at least one core outcome indicator from the Fund's results framework?	<p>Yes, the project aligns with the AF results framework, nevertheless, the following things needs to be revised:</p> <p><b>CAR 3:</b> In the table "alignment with the AF results framework", kindly note that the AF outcomes, outputs and related indicators should be textually transcribed. As in this</p>  <p>Results-framework-al ignment-table-Sep20'</p> <p>table</p>	CAR 3 : outputs and related indicators had been textually transcribed
	10. Is a disbursement schedule with time-bound milestones included?	<p>A disbursement schedule has been included, nevertheless the following aspect needs to be revised:</p> <p><b>CAR 4:</b> Please add also the schedule in the world document following this format:</p>  <p>Disbursement-sched ule-template-3Aug20</p>	CAR 4: we adding the table on pg. 78

Technical Summary	<p>The main objective of this program is to increase resilience to food security of the community of Saddang Watershed ecosystem as an effort to adapt to climate change, focusing on four main components:</p> <ul style="list-style-type: none"> <li>• Strengthened Social Forestry in encouraging forest food in the upstream of Saddang Watershed which has implications for the improvement of the environment and the increase of people's income.</li> <li>• Improved coastal governance and carrying capacity in support of climate change adaptation downstream of Saddang Watershed.</li> <li>• Strengthened crosscutting policies in ensuring the sustainability of climate change adaptation.</li> <li>• Capacity building and stakeholder support on climate change adaptation through knowledge dissemination and management.</li> </ul> <p>The initial technical review finds that a few clarifications requests (CR) and corrective actions requests</p>
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(CAR), need to be addressed by the proponents as follows:

**CR 1:** For a fully developed proposal, the activities will have to be detailed to a sufficient level and their appropriateness in responding to the threats posed by the likely climate scenarios should be outlined in detail. Kindly add such information under *section II – project components* of the proposal template;

**CR 2:** Kindly revise the duration of the project or revise pertinent project outcomes according to the duration of the initiative;

**CR 3:** The proposal should quantify as much as possible the expected economic and environmental and social benefits listed in the section. You might include a table for clarity, indicating the proposal outputs and the related expected benefits that they will provide;

**CR 4:** Provide further details on the cost-effectiveness analysis mentioned, by justifying the quantitative data of the table with supporting information on the proposed intervention;

**CR 5:** Spell out the acronyms listed in the tables (pages 31-34);

**CR 6:** Clarify if consultations have been undertaken in all the villages where the project will be taking place;

**CR 7:** It is stated that “Specifically, especially for vulnerable groups and gender issues, the start of the project will identify the vulnerable persons or families who will be involved by taking into account the distance, the impact of the project, and the results of the analysis of the expert or specialist team assigned to handle this”. Kindly specify if all the project beneficiaries will be identified in the project starting phase;

**CR 8:** Specify if in the table on page 37 the key consultation findings were reported (in particular suggestions and concerns raised), and how these will be included in the project;

**CR 9:** Kindly provide more details on the measures to ensure the sustainability of the project’s outputs (table page 39-40);

**CR 10:** It is noted that an EWS platform will be created under the project, but after the project will be finalized it is not clear how this platform will stay active;

**CAR 1:** Kindly revise the IE fee amount, for it to be below or at 8.5%;

**CR 11:** provide information on the following:

- On what frequency will the project steering committee meet? By which institutions will be formed?
- The group of experts that will support the PMU, will include an expert on gender, or a social expert? Please take this into account as it could be useful to have this kind of expertise when working with communities.

	<ul style="list-style-type: none"> <li>- Please specify how the implementation arrangements will allow for stakeholders' views to be heard during project implementation. Please remember that whenever possible, a strategy and timetable for sharing information and consulting with each of the stakeholder groups during project implementation should be provided. Adequate facilitation measures (e.g. travel costs) should be budgeted to minimize barriers for involvement of key stakeholders where these impede their participation;</li> </ul> <p><b>CR 12:</b> Kindly provide information on the roles and responsibilities of each one of the parties involved in the project management unit for financial and project risk management;</p> <p><b>CAR 2:</b> Kindly provide a budget with breakdown of costs for the project management fee;</p> <p><b>CR 13:</b> Kindly see if possible to include sex-disaggregated data in indicators for outputs 1.2.1;1.2.2;2.1.2;2.2.1;</p> <p><b>CR 14:</b> The proposal mentions (on p. 24) that the results of the ESMP show that there is a significant potential impact on social and environmental conditions that could impede the entry of these programs in the early stages of the program. Please clarify this point.</p> <p><b>CR 15:</b> Please clarify the project's approach to ensuring safeguards for Marginalized and Vulnerable Groups. Please specify how the principle of Gender Equality and Women's empowerment will be safeguarded. Please clarify the 12<sup>th</sup> principle and its place in ESMP.</p> <p><b>CAR 3:</b> Kindly revise the text of the AF outcomes, outputs and outputs indicators, in alignment with the AF results framework table of the proposal, reporting the text as written in the world document attached;</p> <p><b>CAR 4:</b> Please add the disbursement schedule as per the shared template in the related comment above.</p> <p><b>CAR 5:</b> Please amend the ESPM as appropriate.</p>
Date:	August 10, 2018



ADAPTATION FUND

## ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Regular-sized Project Concept

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Country/Region: **Indonesia/ Asia Pacific**  
Project Title: **Community Adaptation for Forest-Food Based Management in Saddang Watershed Ecosystem**  
Thematic Focal Area: **Food Security**  
Implementing Entity: **Kemitraan**  
AF Project ID: **IDN/NIE/Food/2017/1**  
IE Project ID:  
Reviewer and contact person: **Martina Dorigo**  
IE Contact Person: **Monica Tanuhandaru**

Requested Financing from Adaptation Fund (US Dollars): **835,465**  
Co-reviewer(s): **Saliha Dobardzic, Dirk Lamberts**

Review Criteria	Questions	Comments 8 August 2018	Comments 9 September 2018
Country Eligibility	1. Is the country party to the Kyoto Protocol?	Yes.	
	2. Is the country a developing country particularly vulnerable to the adverse effects of climate change?	Yes, Indonesia is a developing country highly vulnerable to the negative effects of climate change, and the project targeted area, Saddang watershed is a Priority Watershed in Indonesia.	
Project Eligibility	1. Has the designated government authority for the Adaptation Fund endorsed the project/programme?	Yes, the LOE was provided.	

	<p>2. Does the project / programme support concrete adaptation actions to assist the country in addressing adaptive capacity to the adverse effects of climate change and build in climate resilience?</p>	<p>Yes, nevertheless at fully developed stage further information is required in the following aspects:</p> <p>The proposal needs to further describe the outputs that will be achieved and the project activities.</p> <p><b>CR 1:</b> For a fully developed proposal, the activities will have to be detailed to a sufficient level and their appropriateness in responding to the threats posed by the likely climate scenarios should be outlined in detail. Kindly add such information under <i>section II – project components</i> of the proposal template.</p> <p>It is noted that the proposed duration for this proposal is 18 months. Nevertheless, some of the proposed activities leading to expected outputs could need more time to be completed. For example, outcome 1.3 “Increased community income from forest food in the upstream of Saddang Watershed”, could necessitate an expanded timeframe to reach the targeted achievement.</p> <p><b>CR 2:</b> Kindly revise the duration of the project or revised some of the project outcomes according to the duration of the initiative.</p>	<p><b>CR1:</b> Not addressed. The proponent provided additional information on the project components, but it did not provide information on the activities to be implemented. Refer to the list of outcomes and outputs presented on page 9 and in part II “Project/Programme Justification”, under each component write the outcomes and outputs (as in the table on page 11-12) and describe what will be implemented and achieved for each one.</p> <p><b>CR2:</b> Partially addressed. While the outcome 1.3 and related outcome indicator have been changed in the Project Monitoring and Evaluation Plan table on page 61, the same revision was not made in the text on page 9, and in the table ‘Project Components and Financing’ on page 11-12. Kindly check other parts of the proposal for consistency and amend these sections accordingly.</p>
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	<p>3. Does the project / programme provide economic, social and environmental benefits, particularly to vulnerable communities, including gender considerations, while avoiding or mitigating negative impacts, in compliance with the Environmental and Social Policy and Gender Policy of the Fund?</p>	<p>Unclear. In this section the proponents provide a generic description on the provision of environmental, economic and social benefits, under the AF ESP principles. However, for a fully developed proposal, the estimated benefits will have to be quantified, whenever possible.</p> <p><b>CR 3:</b> The proposal should quantify as much as possible the expected economic and environmental and social benefits listed in the section. You might include a table for clarity, indicating the proposal outputs and the related expected benefits that they will provide.</p>	<p><b>CR3:</b> Mostly addressed.</p> <p>The proposal includes a table of social, economic and environmental benefits (page 25-33). However, the following clarifications are needed:</p> <ul style="list-style-type: none"> <li>- The amounts presented in the table apart of being expressed in Rp should be expressed in USD;</li> <li>- Output 1.3.2 implied the instalment of 10 units of forest food processing facilities, claiming it to be environmental friendly. Provide further information on this kind of facilities, in line with the ESP of the Fund. Additional information should be provided also under Output 2.2.2, on the kind of infrastructures to support household enterprises;</li> <li>- Under output 2.1.2 include women, as appropriate, in the capacity building scheme.</li> </ul>
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	4. Is the project / programme cost effective?	<p>Needs further substantiation. According to the cost-effectiveness analysis provided, the proposed intervention will be cost-effective in the long-term (if compared to a status quo scenario), over a 10 years projection, nevertheless an explanation of these data should be provided.</p> <p><b>CR 4:</b> Provide further details on the cost-effectiveness analysis mentioned, by justifying the quantitative data of the table with supporting information on the proposed intervention.</p>	<b>CR 4:</b> Addressed.
	5. Is the project / programme consistent with national or sub-national sustainable development strategies, national or sub-national development plans, poverty reduction strategies, national communications and adaptation programs of action and other relevant instruments?	<p>Yes. The project is line with:</p> <ul style="list-style-type: none"> <li>• The objective of the National Action Plan of Climate Change Adaptation (RAN - API) Indonesia 2014.</li> <li>• Strategic Plan of Food Security Agency 2015 – 2019.</li> <li>• Strategic Plan of Environment and Forestry in 2015 -2019.</li> <li>• Strategic Plan of Regional Environmental Agency of South Sulawesi province in 2013 – 2018.</li> <li>• Medium -Term Development Plan of Tana Toraja 2016 – 2021.</li> <li>• Regional Regulation No. 12 of 2011 on Spatial Planning of Tana Toraja in 2011 -2030.</li> <li>• Short -Term Development Plan of North Toraja in 2010 – 2030.</li> <li>• Medium -Term Development Plan of Pinrang in 2014 – 2019.</li> </ul>	

	6. Does the project / programme meet the relevant national technical standards, where applicable, in compliance with the Environmental and Social Policy of the Fund?	Yes.	
	7. Is there duplication of project / programme with other funding sources?	No, this project would represent the first of its kind.	
	8. Does the project / programme have a learning and knowledge management component to capture and feedback lessons?	Yes. The project has one component (4) devoted to KM activities. The KM strategy will entail the establishment of a forum for coordination and knowledge management in each district. Additionally, the project thinks about developing training modules and technical guidance materials, as a way to maintain and disseminate knowledge even after the project will be finalized.	



	<p>9. Has a consultative process taken place, and has it involved all key stakeholders, and vulnerable groups, including gender considerations in compliance with the Environmental and Social Policy and Gender Policy of the Fund?</p>	<p>Further clarifications are needed. It is noted that, a consultative process has taken place with stakeholders at different levels, including women groups. A multi-stakeholder workshop: "Climate Change Impacts" was organized on 3-4 July 2018.</p> <p>Clarify/revise the following:  <b>CR 5:</b> Spell out the acronyms listed in the tables (pages 31-34).  <b>CR 6:</b> Clarify if consultations have been undertaken in all the villages where the project will be taking place.  <b>CR 7:</b> It is stated that "Specifically, especially for vulnerable groups and gender issues, the start of the project will identify the vulnerable persons or families who will be involved by taking into account the distance, the impact of the project, and the results of the analysis of the expert or specialist team assigned to handle this". Kindly specify if all the project beneficiaries will be identified in the project starting phase.  <b>CR 8:</b> Specify if in the table on page 37 the key consultation findings were reported (in particular suggestions and concerns raised), and how these will be included in the project.</p>	<p><b>CR 5:</b> Addressed.</p> <p><b>CR 6:</b> Addressed, relevant information was provided in table 6.</p> <p><b>CR7:</b> Addressed. The proponent provided an estimation of women as beneficiaries for each relevant activity.</p> <p><b>CR8:</b> Addressed.</p>
	<p>10. Is the requested financing justified on the basis of full cost of adaptation reasoning?</p>	<p>Yes.</p>	

	11. Is the project / program aligned with AF's results framework?	Yes.	
	12. Has the sustainability of the project/programme outcomes been taken into account when designing the project?	<p>This part needs more clarification. In general, the proponent can strengthen the information provided to ensure sustainability of project's outcomes.</p> <p><b>CR 9:</b> Kindly provide more details on the measures to ensure the sustainability of the project's outputs (table page 39-40).</p> <p>Kindly provide further information on sustainability mechanism in place for the management of the proposed EWS platform.</p> <p><b>CR 10:</b> It is noted that an EWS platform will be created under the project, but after the project will be finalized it is not clear how this platform will stay active.</p>	<p><b>CR9:</b> Not addressed. Additional information was provided in the table of "Justification of Funding Requested", and not in the table in part K "Sustainability". Provide more details on the measures to ensure the sustainability of the project's outputs.</p> <p><b>CR10:</b> Addressed. The regional government will be encouraged to take operational and maintenance costs, after the project's finalization.</p>
	13. Does the project / programme provide an overview of environmental and social impacts / risks identified, in compliance with the Environmental and Social Policy and Gender Policy of the Fund?	<p>The overview of the environmental and social impacts has been provided, along with further information, such as the consultations carried out, in compliance with the ESP and GP. However, some of the information is not clear or requires additional details.</p> <p><b>CR 14:</b> For instance, the proposal mentions (on p. 24) that the results of the ESMP show that there is a significant potential impact on social and environmental</p>	<p><b>CR 14 and 15:</b> Not adequately addressed. E.g. project activities are said to target 'critical land' but the proposal does not specify what this means, in what respect these lands are 'critical'. It is unclear what the conditions on these lands are, if they are e.g. pristine forest or degraded or abandoned plantations. This is an important factor to be able to identify some of the ESP risks, e.g., on natural habitats and biodiversity. One other example: the</p>


		<p>conditions that could impede the entry of these programs in the early stages of the program. Please clarify this point.</p> <p><b>CR 15:</b> Please clarify the project's approach to ensuring safeguards for Marginalized and Vulnerable Groups. Please specify how the principle of Gender Equality and Women's empowerment will be safeguarded. Please clarify the 12<sup>th</sup> principle and its place in ESMP.</p> <p>Also, please see the points made below on the ESMP.</p>	<p>map of mangrove rehabilitation areas (Fig. 14) is based on a map of 1999, which does not seem to reflect the current situation in this dynamic environment, making it hard to appreciate the location of the project sites in relation to private land, ponds, etc., and the risks that may be associated with this activity.</p> <p>The justification of the findings on ESP risks (p. 52 onwards) is generic and does not allow to appreciate the appropriateness of the risk findings presented.</p> <p>The finding of risk under the ESP principle of Compliance with the Law is not an environmental or social impact risk but a project implementation risk.</p>
Resource Availability	1. Is the requested project / programme funding within the cap of the country?	Yes.	
	2. Is the Implementing Entity Management Fee at or below 8.5 per cent of the total project/programme budget before the fee?	<p>No, the implementing entity fee amounts to USD 70,907 and represents 9.3% of the total project budget before the fee.</p> <p><b>CAR 1:</b> Kindly revise the IE fee amount, for it to be below or at 8.5%</p>	<b>CAR1:</b> Addressed.
	3. Are the Project/Programme Execution Costs at or below 9.5 per cent of	Yes, the project execution cost is USD 71,989 or 9.4% of the total project budget including the fee.	

	the total project/programme budget (including the fee)?		
Eligibility of IE	4. Is the project/programme submitted through an eligible Implementing Entity that has been accredited by the Board?	Yes, Kemitraan is a National Implementing Entity Accredited to the Adaptation Fund Board.	


Implementation Arrangements	<p>1. Is there adequate arrangement for project / programme management, in compliance with the Gender Policy of the Fund?</p>	<p>The implementation arrangements should be further described. For example:</p> <p><b>CR 11:</b> provide information on the following:</p> <ul style="list-style-type: none"> <li>- On what frequency will the project steering committee meet? By which institutions will be formed?</li> <li>- The group of experts that will support the PMU, will include an expert on gender, or a social expert? Please take this into account as it could be useful to have this kind of expertise when working with communities.</li> <li>- Please specify how the implementation arrangements will allow for stakeholders' views to be heard during project implementation. Please remember that whenever possible, a strategy and timetable for sharing information and consulting with each of the stakeholder groups during project implementation should be provided. Adequate facilitation measures (e.g. travel costs) should be budgeted to minimize barriers for involvement of key stakeholders where these impede their participation.</li> </ul>	<p><b>CR 11:</b> Partially Addressed. Additional information was provided on page 55.</p> <p>It is well noted that the proposal included a position for a social gender expert to support the PMU; the Project Steering Committee (PSC) will meet on a quarterly basis. Nevertheless, it is not clear which institutions will be part of the PSC, and no information was provided with respect to the strategy for ensuring that stakeholders' views to be heard during project implementation.</p> <p>Kindly specify which are the institutions that will be part of the PSC and, in addition, consider constituting a local committee including representatives from NGOs, local authorities, business representatives and women's associations whenever possible, and include a reporting line for this committee with the PMU. This group should ensure that the views of all stakeholders at local level will be taken into consideration.</p>
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	2. Are there measures for financial and project/programme risk management?	Yes, risk identification and measures for risk management have been reported.  <b>CR 12:</b> Nevertheless, kindly provide information on the roles and responsibilities of each one of the parties involved in the project management unit for financial and project risk management.	<b>CR12:</b> Addressed, additional information has been provided on page 56.
	3. Are there measures in place for the management of for environmental and social risks, in line with the Environmental and Social Policy and Gender Policy of the Fund?	<b>CAR 5:</b> The ESPM (p. 49) is very brief. Please refer to the comments on the environmental and social policy above, and amend the ESPM as appropriate.	<b>CAR 5:</b> Not addressed. The ESMP included now is consistent with the risks findings presented in II.K, but this risks identification and subsequent impacts assessment has substantial shortcomings. This makes the ESMP inadequate. It is further incomplete in that it does not allocate roles and responsibilities for implementing management or mitigation measures and has no provisions for monitoring.
	4. Is a budget on the Implementing Entity Management Fee use included?	No. <b>CAR 2:</b> Kindly provide a budget with breakdown of costs for the project management fee.	<b>CAR 2:</b> Addressed.
	5. Is an explanation and a breakdown of the execution costs included?	Yes, it has been provided.	
	6. Is a detailed budget including budget notes included?	Yes, a detailed budget has been provided.	

	7. Are arrangements for monitoring and evaluation clearly defined, including budgeted M&E plans and sex-disaggregated data, targets and indicators, in compliance with the Gender Policy of the Fund?	Yes, arrangements for M&E have been provided. <b>CR 13:</b> Kindly see if possible to include sex-disaggregated data in indicators for outputs 1.2.1;1.2.2;2.1.2;2.2.1.	<b>CR 13:</b> Addressed (table page 62-63).
	8. Does the M&E Framework include a break-down of how implementing entity IE fees will be utilized in the supervision of the M&E function?	Yes, a breakdown to ensure M&E functions is provided. Nevertheless, as per comment under point 4 above an overall budget on the IE fee is missing.	

	<p>9. Does the project/programme's results framework align with the AF's results framework? Does it include at least one core outcome indicator from the Fund's results framework?</p>	<p>Yes, the project aligns with the AF results framework, nevertheless, the following things needs to be revised:  <b>CAR 3:</b> In the table "alignment with the AF results framework", kindly note that the AF outcomes, outputs and related indicators should be textually transcribed. As in this table</p>  <p>Results-framework-al  ignment-table-Sep20'</p>	<p><b>CAR 3:</b> Not addressed.</p> <p>In the table "alignment with the AF results framework", the AF outputs and related indicators do not correspond textually to the AF results framework. Transcribe the corresponding outcomes indicators, outputs and outputs indicators as reported in the AF results framework and transcribe the number of the corresponding AF outcome/outputs. e.g. the first outcome indicator in the proposal table (page 70) now says "<i>5,000 ha natural resource assets maintained or improved under climate change and variability-induced stress</i>", whereas it should say: "<i>5. Ecosystem services and natural resource assets maintained or improved under climate change and variability-induced stress</i>". Please refer to the world document provided.</p> <p>Additionally, the proposal does not provide an alignment with at least one core indicator and indicative core indicator targets (see <a href="https://www.adaptation-fund.org/wp-content/uploads/2016/04/AF-Core-Indicator-Methodologies.pdf">https://www.adaptation-fund.org/wp-content/uploads/2016/04/AF-Core-Indicator-Methodologies.pdf</a>)</p>
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	10. Is a disbursement schedule with time-bound milestones included?	<p>A disbursement schedule has been included, nevertheless the following aspect needs to be revised:</p> <p><b>CAR 4:</b> Please add also the schedule in the world document following this</p>  <p>Disbursement-schedule-template-3Aug20</p> <p>format:</p>	<b>CAR 4:</b> Addressed.
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Technical Summary	<p>The main objective of this program is to increase resilience to food security of the community of Saddang Watershed ecosystem as an effort to adapt to climate change, focusing on four main components:</p> <ul style="list-style-type: none"> <li>• Strengthened Social Forestry in encouraging forest food in the upstream of Saddang Watershed which has implications for the improvement of the environment and the increase of people's income.</li> <li>• Improved coastal governance and carrying capacity in support of climate change adaptation downstream of Saddang Watershed.</li> <li>• Strengthened crosscutting policies in ensuring the sustainability of climate change adaptation.</li> <li>• Capacity building and stakeholder support on climate change adaptation through knowledge dissemination and management.</li> </ul> <p>The initial technical review finds that a few clarifications requests (CR) and corrective actions requests (CAR), need to be addressed by the proponents as follows:</p> <p><b>CR 1:</b> For a fully developed proposal, the activities will have to be detailed to a sufficient level and their appropriateness in responding to the threats posed by the likely climate scenarios should be outlined in detail. Kindly add such information under <i>section II – project components</i> of the proposal template;</p> <p><b>CR 2:</b> Kindly revise the duration of the project or revise pertinent project outcomes according to the duration of the initiative;</p> <p><b>CR 3:</b> The proposal should quantify as much as possible the expected economic and environmental and social benefits listed in the section. You might include a table for clarity, indicating the proposal outputs and the related expected benefits that they will provide;</p> <p><b>CR 4:</b> Provide further details on the cost-effectiveness analysis mentioned, by justifying the quantitative</p>
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data of the table with supporting information on the proposed intervention;

**CR 5:** Spell out the acronyms listed in the tables (pages 31-34);

**CR 6:** Clarify if consultations have been undertaken in all the villages where the project will be taking place;

**CR 7:** It is stated that “Specifically, especially for vulnerable groups and gender issues, the start of the project will identify the vulnerable persons or families who will be involved by taking into account the distance, the impact of the project, and the results of the analysis of the expert or specialist team assigned to handle this”. Kindly specify if all the project beneficiaries will be identified in the project starting phase;

**CR 8:** Specify if in the table on page 37 the key consultation findings were reported (in particular suggestions and concerns raised), and how these will be included in the project;

**CR 9:** Kindly provide more details on the measures to ensure the sustainability of the project’s outputs (table page 39-40);

**CR 10:** It is noted that an EWS platform will be created under the project, but after the project will be finalized it is not clear how this platform will stay active;

**CAR 1:** Kindly revise the IE fee amount, for it to be below or at 8.5%;

**CR 11:** provide information on the following:

- On what frequency will the project steering committee meet? By which institutions will be formed?
- The group of experts that will support the PMU, will include an expert on gender, or a social expert? Please take this into account as it could be useful to have this kind of expertise when working with communities.
- Please specify how the implementation arrangements will allow for stakeholders’ views to be heard during project implementation. Please remember that whenever possible, a strategy and timetable for sharing information and consulting with each of the stakeholder groups during project implementation should be provided. Adequate facilitation measures (e.g. travel costs) should be budgeted to minimize barriers for involvement of key stakeholders where these impede their participation;

**CR 12:** Kindly provide information on the roles and responsibilities of each one of the parties involved in the project management unit for financial and project risk management;

**CAR 2:** Kindly provide a budget with breakdown of costs for the project management fee;

**CR 13:** Kindly see if possible to include sex-disaggregated data in indicators for outputs 1.2.1;1.2.2;2.1.2;2.2.1;

**CR 14:** The proposal mentions (on p. 24) that the results of the ESMP show that there is a significant potential impact on social and environmental conditions that could impede the entry of these programs in the early stages of the program. Please clarify this point.

**CR 15:** Please clarify the project's approach to ensuring safeguards for Marginalized and Vulnerable Groups. Please specify how the principle of Gender Equality and Women's empowerment will be safeguarded. Please clarify the 12<sup>th</sup> principle and its place in ESMP.

**CAR 3:** Kindly revise the text of the AF outcomes, outputs and outputs indicators, in alignment with the AF results framework table of the proposal, reporting the text as written in the world document attached;

**CAR 4:** Please add the disbursement schedule as per the shared template in the related comment above.

**CAR 5:** Please amend the ESPM as appropriate.

The final technical review finds that the fully-developed proposal document has not sufficiently addressed some of the requests and not provided sufficient information at this stage. The following observations are made:

- i) The proposal should provide sufficient technical information and specifications about the interventions that will be implemented to a point where Environmental and Social Policy (ESP) related risks can be effectively and comprehensively identified;
- ii) The proponent should provide further information on the envisaged measures to ensure the sustainability of the project's outputs, that could enable replication and scaling up of the proposed interventions;
- iii) As an important factor to be able to identify some of the ESP risks (e.g., on natural habitats and biodiversity), the proposal should clarify the concept and the conditions of the "critical land" on which some of the project activities will take place;
- iv) The proposal should strengthen the project management arrangements, by specifying the institutions that will be part of the Project Steering Committee (PSC), and by ensuring stakeholders' views to be heard during project implementation;
- v) The proposal should develop an adequate Environmental and Social Management Plan (ESMP), based on a comprehensive, evidence-based risk identification and subsequent impact assessment. This should allocate roles and responsibilities for implementing management or

	mitigation measures, and should include provisions for monitoring; and vi) The proposal should ensure that its alignment with the AF's results framework is comprehensive, including at least one core outcome indicator from the Fund's results framework.
Date:	September 10, 2018



ADAPTATION FUND

## REGIONAL PROJECT/PROGRAMME PROPOSAL

### PART I: PROJECT/PROGRAMME INFORMATION

Title of Project/Programme	: <b>Community Adaptation for Forest-Food Based Management in Saddang Watershed Ecosystem</b>
Countries	: Indonesia
Thematic Focal Area	: Food Security
Type of Implementing Entity	: National Implementing Entity
Implementing Entity	: Kemitraan (Partnership)
Executing Entity	: Environmental and Climate Change Adaptation Consortium (Konsorsium Adaptasi Perubahan Iklim dan Lingkungan/KAPABEL)
Amount of Financing Requested	: <b>835,465</b> (in U.S Dollars Equivalent)

### Project / Programme Background and Context

Provide brief information on the problem the proposed project/programme is aiming to solve, including both the regional and the country perspective. Outline the economic social, development and environmental context in which the project would operate in those countries.

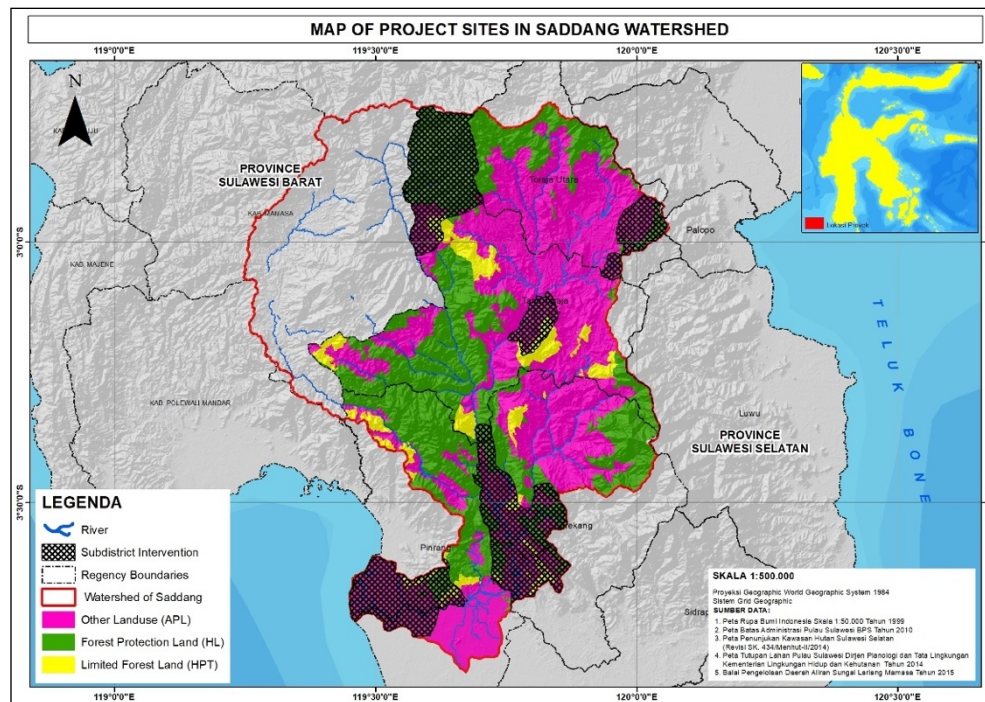


Figure 1. Map of Saddang Watershed

Based on the 2015-2019 Strategic Plan of the Ministry of Environment and Forests, **Saddang Sawah Watershed (DAS)** is a “**Priority Watershed in Indonesia**”. The Saddang Watershed itself is a watershed that flows into four districts in **South Sulawesi Province** and a small portion of the area is

located in West Sulawesi Provinces, with an area of **661,932 ha**,<sup>1</sup> which makes the Saddang Watershed the second largest watershed in South Sulawesi. Today **almost 1 million people depend on the available resources of the Saddang Watershed ecosystem**. (See **Appendix 1. Map of Saddang Watershed**).

Particularly in South Sulawesi, this watershed is located in the administrative area of **Tana Toraja District and North Toraja District** (upstream area), **Enrekang District** (upstream area), and **Pinrang District** (downstream area). **Saddang Watershed area** in the four districts amounted to **504,313 Ha**, of which **39.57%** in the **Tana Toraja District**, **18.07%** in the **North Toraja District**, **22.07%** in the **Enrekang District**, and **20.29%** in the **Pinrang District**. In terms of forest area, Saddang Watershed area consists of **protected forest area of 199,875.91 ha (39.63%)**, **limited production forest of 32,030.38 ha (6.35%)**, and **other usage area of 272.407.62 ha (54.02%)**.<sup>2</sup> For the development of social forestry scheme, **33,935.76 ha** are indicated and prioritized for the development of social forestry in watershed areas based on indicative maps of social forestry areas (PIAPS) issued by the Ministry of Environment and Forestry.

### 1. Environmental Context and Climate Change Impact

The level of area risk due to climate change associated with the **disaster level** in the Saddang Watershed area shows that **93% of villages** in the watershed are **vulnerable to climate change**. There are **16 highly vulnerable villages** scattered in the **Tana Toraja** and **North Toraja** areas, **126 villages** are in **fairly vulnerable condition** and **306 villages** are in **relatively vulnerable conditions** scattered throughout the basin (based on analysis of exposure and sensitivity index with index adaptability)<sup>3</sup>.

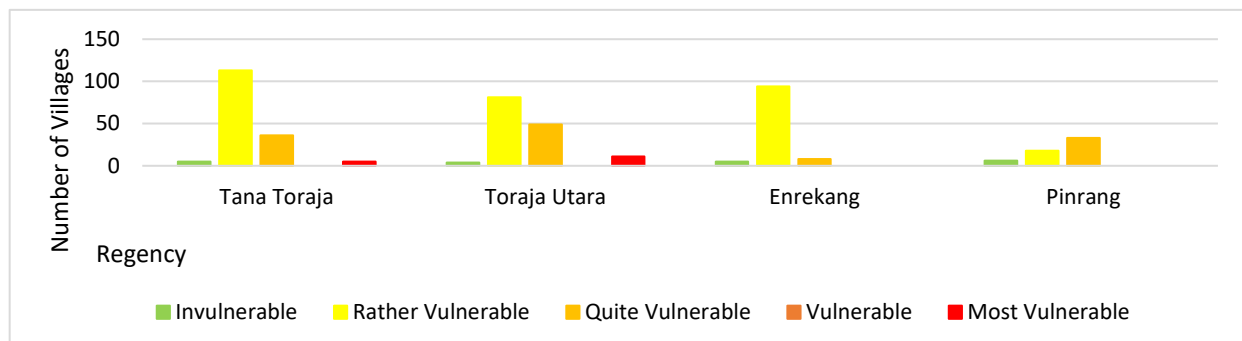


Figure 2. Graph of Climate Change Vulnerability

The results analysis of rainfall and temperature graphs obtained from **Global Weather Data** as baseline data through <http://globalweather.tamu.edu/> using 27 Global Weather stations located around the area of Saddang watershed, obtained an average increase in rainfall by 4.2% (average increase of 208.52 mm / year) while average temperature change -4°C is still in **normal category** in period 1981-2013<sup>4</sup>. Increased rainfall data caused various disasters has been occurred in watershed area recorded as many as 342 times starting from 2009-2014 in form of landslides and floods. (See **Figure 3. and Figure 4.**)

<sup>1</sup> Lariang Mamasa Watershed Management

<sup>2</sup> Forest Area Stewardship Center VII, 2014

<sup>3</sup> Regional Vulnerability Data is obtained from the Vulnerability Index Data Information System developed by MEF in 2015

<sup>4</sup> The result of the Global Weather Data Analysis as baseline/observation data (<http://globalweather.tamu.edu/>), using 27 Global Weather stations around the area affecting the Saddang Watershed, 2017

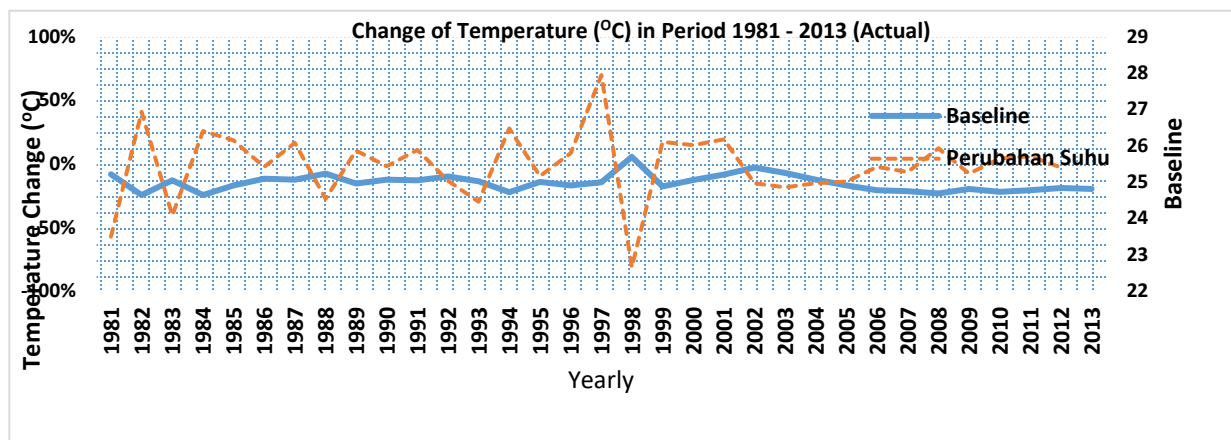


Figure 3. Graph of Rainfall Change

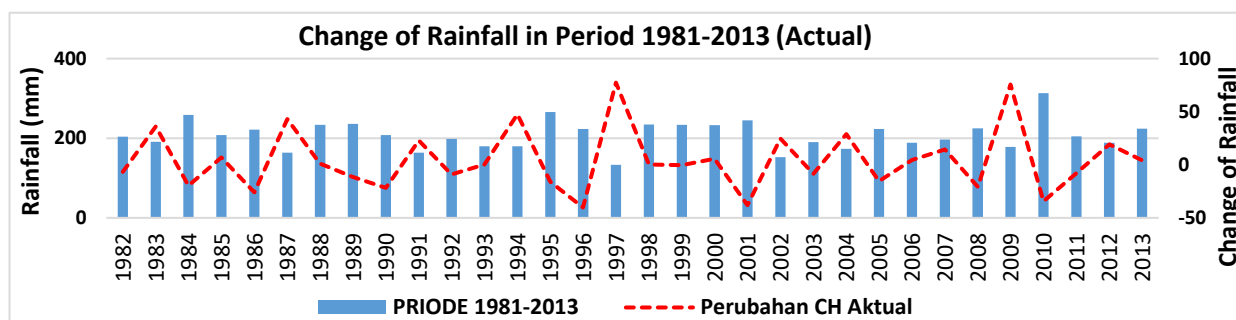


Figure 4. Graph of Temperature Change

--Period of 1981-2013--  
 --Change of Actual Rainfall--

**Changes in land cover** occurring from **1995 – 2014** were recoded as **31.32%** or about **31,066.15 ha**, the **reduction of forested land** in the Saddang watershed area was from **99,165.11 ha** to **68,098.96 ha**. The change of forest area into agricultural land reaches **59.27%** or about **18,416 Ha**, the rest is converted into settlement, rice field, and shrub<sup>5</sup>.

The average change in rainfall is in line with the **increase of river flow in the rainy season by 8.56%** in 2004 – 2013<sup>6</sup> which indicates **an increase in the potential disasters** due to surface flows. Meanwhile, the **decrease of river flow in the dry season which amounted to 12.74%** caused drought in the watershed area.

Topographic conditions of the mountains and hills in the upper watershed of North Toraja District, Tana Toraja District and Enrekang District, the rate of change of land cover from upstream to downstream, and supported by climatology condition caused **a number of natural disaster incidents in every District**, the occurrence of natural disaster that often happened at project intervention location is **flood and landslide**, as can be seen in table 1<sup>7</sup>.

<sup>5</sup> Forest Area Stabilization Agency, Land Cover Data Year 1998-2014

<sup>6</sup> Data from Soil and Water Assessment To (SWAT) Model of Saddang Watershed, 2017

<sup>7</sup> Central Bureau of Statistics, 2016, Table of Natural Disasters that occurred in Watershed Areas for Period of 2009 – 2014



Table 1. Intensity of Disaster Based on Type

Type of Disaster	Location of Disaster (District)	Intensity of Disaster Incident
Landslide	North Toraja	49 Times
	Tana Toraja	72 Times
	<b>Enrekang</b>	<b>83 Times</b>
	Pinrang	35 Times
Flood	North Toraja	14 Times
	Tana Toraja	10 Times
	<b>Enrekang</b>	<b>44 Times</b>
	Pinrang	35 Times

Source: Village Potential Data, Central Bureau of Statistics (2015)



Figure 5. Landslide Portrait in one of the Saddang Watershed areas

In the table 1 above, it is recorded that Enrekang District has the most frequent flood and landslide events. Therefore, the project will be implemented at the location of the intervention based on the intensity of the disaster occurring during the last 5 years. **In Enrekang District, the project was implemented in 4 (four) villages i.e. Palladang, Pundilemo, Tungka and Ranga.** Since 2013 in Enrekang District, there has been a catastrophic flood that resulted in submerged farmland and plantations. This made **the income of the people decreased and uncertain.** In the other six villages, in addition to floods, landslides also occurred<sup>8</sup>.

**In Tana Toraja District, which is the locus of 3 (three) intervention villages i.e. Lembang Randan Batu, Lembang Pakudan Lembang Sese Salu.** Every month in early 2016, each village took turns reporting a landslide<sup>9</sup>. The landslide material has stockpiled several bridges and access to roads people pass through which hamper the economic activities of local communities<sup>10</sup>.

The Regional Disaster Management Agency of North Toraja District received information on landslide disaster that occurred in 2017. **Areas that become project intervention in North Toraja District are 3 (three) villages i.e. Lembang Karre Limbong, Lembang Sapan Kua-Kua Paniki, and Bokin.** Those villages in 2015 experienced **forest fire** caused by negligence of citizens. The landslide and flood disaster that occurred resulted in the destruction of community land. Farmland and community rice fields that were inundated by water made people suffer **huge losses due to crop failure.**

The result of socio-ecology survey on the identification of Disaster Risk in the Saddang Watershed recorded a **decrease in food productivity of 66% of the commodities of rice crops.** **The harvest period was usually done 3 times a year, now it is only done 1 time a year** due to frequent landslides and floods. **The productivity of agricultural and plantation products also decreased due to the decreasing of land carrying capacity and high level of critical land in the area of Saddang Watershed**<sup>11</sup>.

<sup>8</sup>Regional Disaster Management Agency of Enrekang, 2013-2016

<sup>9</sup>Regional Disaster Management Agency of Tanah Toraja, 2013-2016

<sup>10</sup>Regional Disaster Management Agency of Toraja Utara, 2013-2016

<sup>11</sup> Central Bureau of Statistics, 2016 and Jeneberang Saddang Watershed Management, *Results of Socio-ecological Survey of Saddang Watershed*, 2014



The landslide disaster also caused further impacts that occurred in the downstream watershed area, i.e. **the increase in sedimentation in the watershed**. An increase of 21.13% of the total average sedimentation from 2004 to 2013 by 29,493,442 ton per year resulted in a decrease in river flow. At the downstream area, this project is conducted in **Pinrang Regency in 5 (five) villages, i.e. Baba Binanga, Katomporong, Massewae, Paria and Salipolo**. Natural disasters that occurred in the villages include floods, strong winds, hurricanes, and forest fires. In the year of 2013-2016, floods occurred in every January to April. The flood that occurred in 2014 took casualties up to 182 households. In addition to floods, strong winds and hurricanes also occurred in January<sup>12</sup>. The decrease of land quality due to natural disaster has impact on various **sectors especially agriculture, fishery, marine, plantation and forestry sector**.



Figure 6. Rainfall Increase of 8%, affecting the flood and land incidents due to low land cover

**The climate change project scenario for 2018 – 2050** shows that there is an average increase in rainfall of 217.19 mm per year, up 8% over the next 33 years from the average actual rainfall in 1981 – 2013. Increased rainfall in the **GFDL-CM3 model is consistent with baseline rainfall climate data** that continues to increase on average by tenths of a year. This condition will have a significant impact on upstream areas especially in areas

susceptible to erosion due to low forest cover. Further impacts can

be an increase in downstream sedimentation, thus resulting in flooding in agricultural areas. This indicates that in the next 33 years, the disadvantages of climate change in the watershed will be greater especially considering that the Saddang Watershed is a Priority Watershed in Indonesia. This indicates that the future level of disaster risk due to climate change will increase and people who are classified as a pre-prosperous society will be increasingly disadvantaged, especially resistance to food. So the choice of action to adapt the food security through the diversification of food based on forest food is a strategic adaptation to the impact of climate change that will occur.

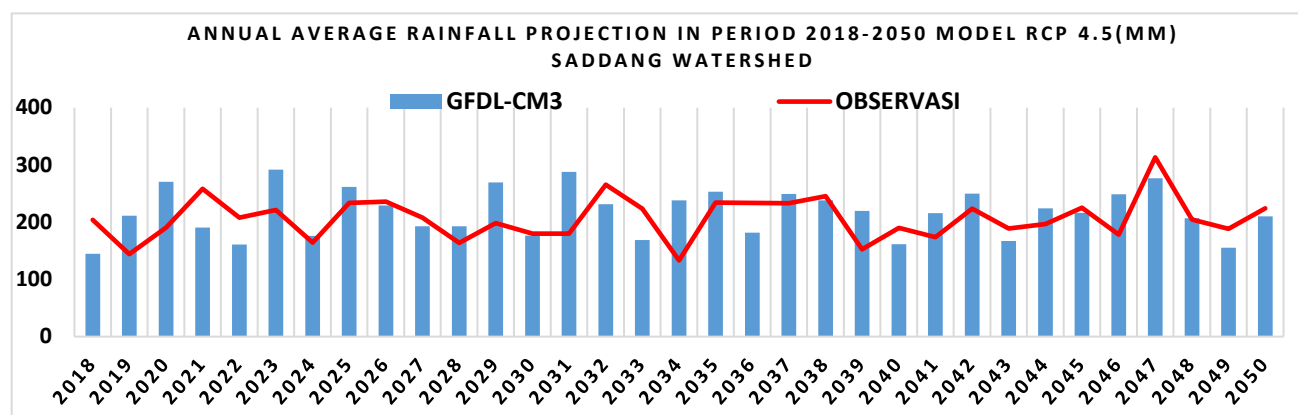


Figure 7, Projection of average rainfall in the Saddang Watershed

--Observation--

<sup>12</sup> Regional Disaster Management Agency of Pinrang District, 2017

The results of annual average temperature projection analysis of the GFDL-CM3 model with the **IPCC tools** use indicators of **changes in population growth in the watershed area, land cover changes, and strengthening of greenhouse gas concentration which gives different patterns of temperature increase from year to year** when compared to baseline temperature increase pattern 1981-2013) that are still normally categorized around the watershed, where temperature climate has increased on average by **5.4% in 2018-2050**<sup>13</sup>. Temperature increases in future projections will aggravate environmental conditions due to climate change such as causing the extinction of some species of wildlife and plants, increasing the frequency of floods and droughts, and decreasing food productivity in both local and regional scales

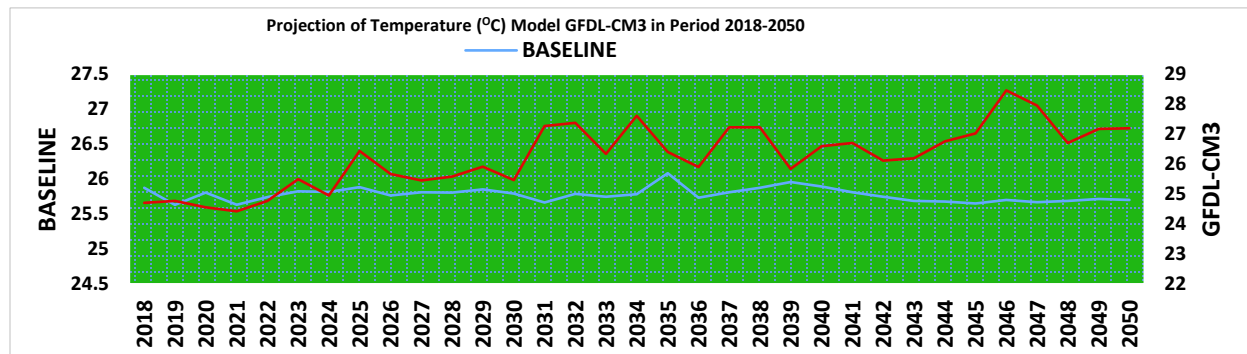


Figure 8. Projection of average temperature in a period of 2018-2050

## 2. Socio-Economic Context

The community of the Saddang Watershed ecosystem in South Sulawesi is directly dependent and utilizes the watershed for daily life and the economy with as many as **835,710 people consisting of 417,660 men and 418,050 women** spread over with 228,574 people in Tana Toraja District, 215,418 people in North Toraja District, 174,994 people in Enrekang District, and 216,724 people in Pinrang District. The number of head of household (HH) in the watershed area is 644,026 HHs, consisting of 518,000 heads of household who work as farmers and 165,496 HHs who are classified as poor families<sup>14</sup>.

The main livelihood of the community in Saddang Watershed is farmers. The area of agricultural land in this region reaches **113,167 ha or 22.44 % of the total area of Saddang Watershed (504,313 ha). Paddy fields as a food producer of 16,113 ha in watershed area spread with 9,027 ha downstream and 7,086 ha upstream**<sup>15</sup>.

The impacts of climate change have implications for the decline in incomes of people who use land in the fulfillment of their lives. **The average income of the community** in the 4 project intervention districts is **Rp 1,651,282,- per person per month**<sup>16</sup>, below the Regional Minimum Wage (UMR) of South Sulawesi Province of Rp 2,500,000, - per month. It was recorded that there was a **decrease in food productivity especially rice in the watershed area. The decline in rice productivity in 2013 amounted to 29,047 Ton or about 9.6% decrease of rice production from the previous year, which amounted to 304,913 Ton in 2012**<sup>17</sup>. The Enrekang District is still placing rice as their flagship food product. In 2013, the growth of planted area increased by 19% from the previous year, but it was inversely proportional to the amount of production. In 2012, Enrekang District was able to harvest rice up to 70,021 ton/year, **but in 2013, production decreased by 9.4%.**

<sup>13</sup> Average Annual Rainfall Projection (mm) for 2018-2050 period based on RCF 4.5 Scenario Model GFDL-CM3

<sup>14</sup> Central Bureau of Statistics, 2016

<sup>15</sup> Saddang Watershed Management, Result of Identification Report on the Characteristics of Saddang Watershed, 2015

<sup>16</sup> Field Survey Analysis Results (2017)

<sup>17</sup> Central Bureau of Statistics, 2016 (Tana Toraja, Toraja Utara, Enrekang, Pinrang)

Rice productivity and production during the last 5 years (2011-2015) in North Toraja District experienced a fluctuating condition. In 2014, North Toraja District was able to produce 134,937 ton, but in 2015, production decreased to 19%. **Rice productivity decreased** from 2013 to 2015 ranging from 10-15%<sup>18</sup>.

**The area of rice planting in Tana Toraja District decreased** significantly in 2013 as the impact of landslide. In 2014 then the community was able to increase crop production by 33% from the previous year, but **crop productivity still decreased** every year<sup>19</sup>. **Increasing people's income became the locus of activities by applying the forest food as a pattern of food diversification.** Tana Toraja District also has **local wisdom that influences the socio-economic context, i.e. “Kuang & Alang” or in brief, we know it as “integrated farming” which is now starting to erode.** This local wisdom sees that rice farming has no primary purpose in growing rice commodities but it is an integrated cultivation system (rice, fish, gardens, livestock) based on local knowledge. The people of Tana Toraja also generally emphasize the principle of togetherness/mutual cooperation in working the fields. **This is very good to strengthen the project scheme in order to run and sustain.**

In the Downstream Area in Pinrang District, creative business will be pursued by making seaweed chips and the utilization of salak seeds into coffee. Making seaweed chips as creative business choice is because the production value of seaweed in 2009-2013 has increased productivity up to 8.05%<sup>20</sup>. For creative business in the management of salak seeds into coffee will target Duampanua Sub-district in 2 villages, i.e. Massewae and Katompurang. The growth potential of salak commodity in 2016 is an average of 65,266 trees/clumps that productively produced fruit<sup>21</sup>.

Upstream food development and creative potentials in the coastal areas are perceived by communities to be constrained on the quality, quantity and marketing sections. Sales of managed food are still sold in traditional markets and by selling on the roadside. This process often makes farmers experience loss since many foods that is sold is damaged before getting buyers. In addition, a constraint experienced by farmers is the suboptimal cultivation of agricultural land due to climate change that occurred, thus the income obtained is **below the UMR** of South Sulawesi Province.

### 3. Project Context

In line with the main objectives of **Indonesia's 2014 Climate Change Adaptation National Action Plan (RAN - API)**, through a series of interventions from this project, “watershed ecosystem communities” will be able to increase resilience to climate change impacts both in food security through the development of forest food and food diversification, as well as ecosystem resilience through enhancement of forest cover quality in the Priority Watershed, as well as resilience through integrated coastal management.

This is a serious undertaking in addressing vulnerability to climate change that has major and sustained impacts. High vulnerability to climate change causes communities in the watershed to be vulnerable to the impacts. **Increased rainfall, temperature, and land cover changes** resulted in higher intensity of landslides and floods in the watershed area. The landslide disaster in the upstream area causes further impacts such as **high sedimentation in the downstream areas** and **reduced watershed functions as Water Catchment Areas.**

This is exacerbated by the uncontrolled upstream forest area conversion activity to an increasingly high potential for disasters. Communities in the watershed area, which mostly live as farmers with **poor economic conditions, suffered heavy losses due to climate change.** In addition, the Local Government will face increasing difficulties in solving the problem, if the capacity of human resources is not yet qualified. The effects on natural resources damage will be more severe, and will **trigger a slowdown in economic and regional development.** The project approach path can be seen in the following milestone at figure 9.

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<sup>18</sup> Agricultural Service of North Toraja District, 2017

<sup>19</sup> 2016-2021 RPJMD of Tana Toraja District

<sup>20</sup> Marine and Fisheries Service of Pinrang District, 2017

<sup>21</sup> Agricultural Service of Pinrang District, 2017

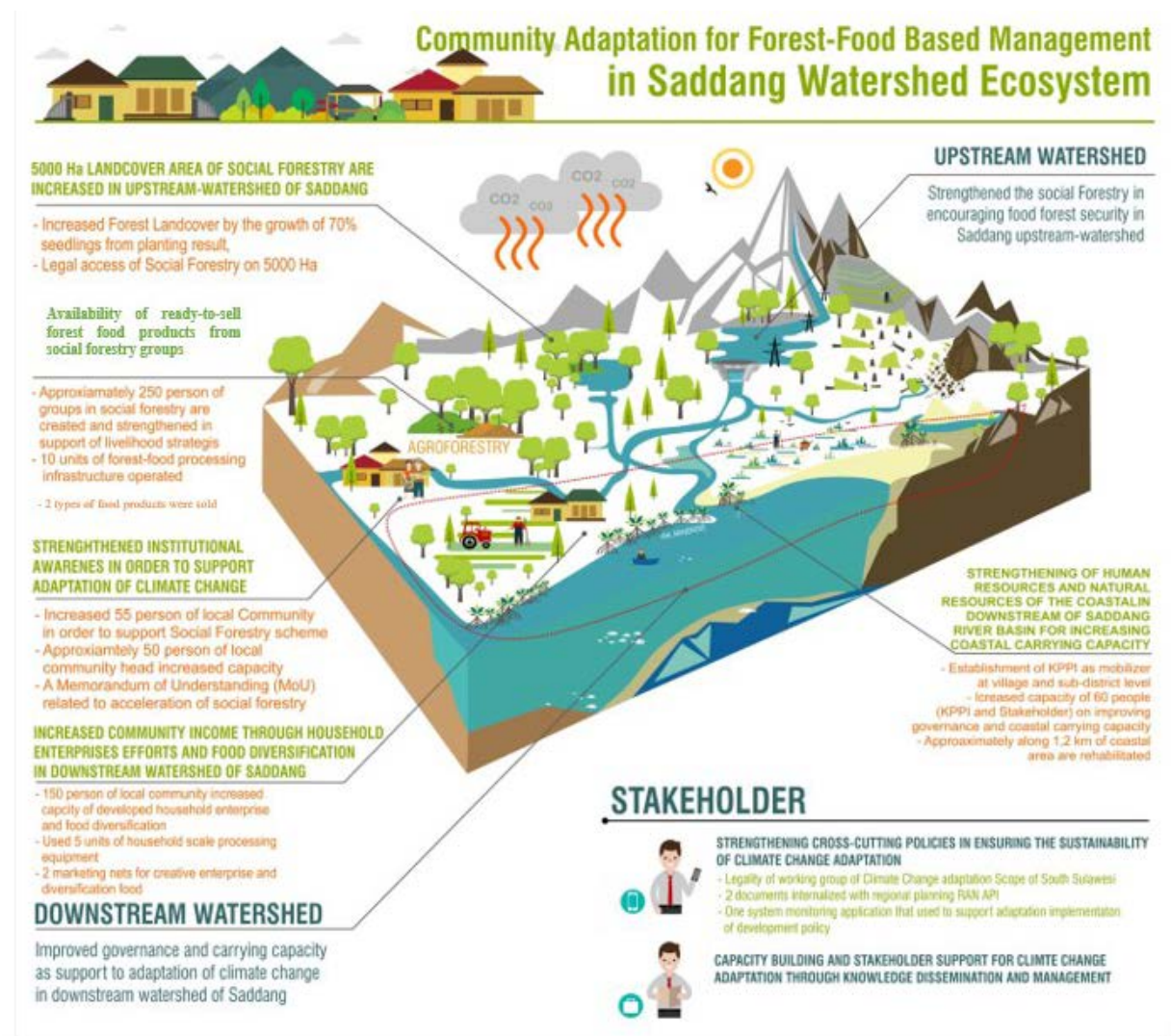


Figure 9. Milestone Project

Based on the above project flow, the “Community Adaptation for Forest-Food Based Management in Saddang Watershed Ecosystem” project will **focus on 4 objectives**, i.e. **Social Forestry Strengthening** in encouraging forest food in Upstream Saddang Watershed, **Improvement of coastal governance and carrying capacity** in support of climate change adaptation in downstream of Saddang Watershed, **Strengthening of cross-cutting policies** in ensuring the sustainability of climate change adaptation and **Capacity building and stakeholder support** through knowledge management. This will be achieved through **7 outcomes and 21 outputs**, in details as follows:



**Outcome 1.1. Increased extent of the Social Forestry scheme of 5,000 ha in upstream of Saddang Watershed**

Supported by **2 outputs**: increased assistance and community capacity; increased carrying capacity of the parties and strengthened social forestry scheme.

**Outcome 1.2. Stronger parties and institutions for social forestry schemes in support of climate change adaptation**

Supported by **3 outputs**: increased capacity for sustainable forest management and internalized climate change adaptation actions in the Social Forestry institutional design.

**Outcome 1.3. Increased community income from forest food in Upstream of Saddang Watershed**

Supported by **3 outputs**: increased skills of forest farmer groups, women's groups, vulnerable groups; available facilities and technology; increased forest cover and the productivity of forest products and established market chains from forest food processed products

**Outcome 2.1. Land and coastal in Downstream of Saddang Watershed are rehabilitated continuously**

Supported by **3 outputs**: formed climate change care group (KPPI), increased capacity of KPPI, available facilities and infrastructure in support of land and coastal rehabilitation

**Outcome 2.2. Increased community income in the Downstream of Saddang Watershed through environmentally friendly creative businesses and food diversification**

Supported by **3 outputs**: increased skills of KPPI, women's groups, vulnerable groups, provided facilities and infrastructure of technology and established market networks in the development of creative business and food diversification

**Outcome 3.1. Strengthened Spatial Planning, Monitoring and Spatial Use on Saddang Watershed Ecosystem**

Supported by **3 outputs**: Formed and facilitated Climate change adaptation working group (POKJA-API), designed climate change adaptation action plan and applied climate change adaptation monitoring to ensure sustainability

**Outcome 4.1. Strengthened capacity and understanding of stakeholders through dissemination process and early warning system of climate change adaptation**

Supported by **2 outputs**: disseminated program and created early warning system platform for climate change adaptation

Each output will support outcome by targeting a **total of 27,143 beneficiaries** in the Saddang Watershed. The total number of beneficiaries as a whole can be seen in table 2.

Table 2. Number of Beneficiaries in the Saddang Watershed

District	Sub-district	Villages	Total Population		
			Men	Women	Total
North Toraja	Nanggala	Karre Limbong	615	591	1206
	Rantebua	Bokin	1051	1031	2082
	Buntao	Sapan Kua-Kua Paniki	1107	1083	2190
Tana Toraja	Makale Selatan	Randan Batu	1129	1091	2220
	Masanda	Paku	443	412	855
		Sese Salu	602	578	1180
Enrekang	Cendana	Pundilemo	770	803	1573
	Maiwa	Palladang	446	426	872
	Enrekang	Ranga	535	500	1035
		Tungka	794	806	1600
Pinrang	Duampanua	Baba Binanga	735	791	1526
		Katomporang	1194	1285	2479
		Massewae	1664	1791	3455
		Paria	1527	1644	3171
	Cempa	Salipolo	856	843	1699
<b>TOTAL</b>	<b>10</b>	<b>15</b>	<b>13.468</b>	<b>13.675</b>	<b>27.143</b>

Source: Secondary Data Processing<sup>22</sup>

The “Community Adaptation for Forest-Food Based Management in Saddang Watershed Ecosystem” program is an effort that will encourage community adaptation in the watershed area and can be replicated easily. **The development of forest food and food diversification** will be able to become a pattern of livelihood adaptation of farmers by utilizing forest areas packed in a **Social Forestry scheme** to ensure sustainable forest management in the upper watershed. Improving coastal governance and carrying capacity in downstream areas of Saddang watershed through **mangrove forest rehabilitation, creative industry development, and strengthening local, women and vulnerable groups in supporting climate change adaptation** are also important components of project interventions. To ensure the sustainability of adaptation action in the watershed area, **strengthening crosscutting policies related to climate change adaptation action** is done, where policy directions will be designed to be jointly monitored by stakeholders. Furthermore, **capacity building and stakeholder support** on climate change adaptation through dissemination and knowledge management is conducted to capture and disseminate learning gained from the project, so that project outcomes can then be replicated in the future.

**If this adaptation program is not implemented**, then the percentage of **reduction of forested land** will significantly **increase**. If this condition is followed by **increased rainfall**, then the **risk of flood disaster is higher**. **The impact of flood disaster** acts as a trigger for other disasters such as the occurrence of landslides. Natural disasters that occur will affect the **damage to community land**. **The decline in agricultural productivity** due to the destruction of cultivated land further **reduces the income of people** who have been in poor condition. If coastal watershed governance in downstream area is not implemented, coastal communities will have more impact from rising sea levels and disasters due to unsustainable watershed governance. Economic pressures will also increase the rate of crime, economic slowdown and regional development and changes in landscapes and their carrying capacity.

## Project / Programme Objectives

List the main objectives of the project/programme.

The main objective of this program is to increase resilience to food security of the community of Saddang Watershed ecosystem as an effort to adapt to climate change that focuses on:

- 1) **Strengthened Social Forestry** in encouraging forest food in the upstream of Saddang Watershed which has implications for the improvement of the environment and the increase of people's income.
- 2) **Improved coastal governance and carrying capacity** in support of climate change adaptation downstream of Saddang Watershed.
- 3) **Strengthened crosscutting policies** in ensuring the sustainability of climate change adaptation.
- 4) **Capacity building and stakeholder support** on climate change adaptation through knowledge dissemination and management.

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<sup>22</sup> Central Bureau of Statistics (2017)

## Project / Programme Components and Financing:

Fill in the table presenting the relationships among project components, outcomes, outputs and countries in which activities would be executed, and the corresponding budgets.

For the case of a programme, individual components are likely to refer to specific sub-sets of stakeholders, regions and/or sectors that can be addressed through a set of well-defined interventions / projects.

Project/Programme Components	Expected Concrete Outputs	Expected Outcomes	Amount (US\$)
1. Strengthening of Social Forestry in encouraging forest food in the upstream of Saddang Watershed	1.1.1. <b>Existing legal access to Community Forest or Village Forest</b>	1.1. <b>Increased extent of the Social Forestry Scheme of 5,000 ha in the upstream of Saddang Watershed</b>	<b>\$344,069</b>
	1.1.2. <b>Increased forest land cover</b>		
	1.2.1. <b>Increased capacity of assistants and local communities in the Social Forestry scheme</b>	1.2. Strengthened parties and institutions of Social Forestry schemes in support of climate change adaptation	
	1.2.2. Increased capacity of stakeholders in sustainable forest management		
	1.2.3. <b>Increased support of the Parties in Encouraging Social Forestry Schemes</b>		
	1.3.1. <b>Increased Skill of Forestry, Women and Vulnerable Farmers Group in managing sustainable forest food</b>	1.3. Increased community income from forest food in the upstream of Saddang Watershed	
	1.3.2. Available facilities and infrastructure of forest food processing technology.		
	1.3.3. <b>Absorbed forest food products to market</b>		
2. Improvement of coastal governance and carrying capacity in support of climate change adaptation downstream of Saddang Watershed	2.1.1. Formed and running Climate Change Care Group (KPPI) as the driving force at the village and sub-district levels.	2.1. Strengthened coastal human resources and natural resources downstream of Saddang Watershed in increasing coastal carrying capacity	<b>\$176,843</b>
	2.1.2. Increased capacity and skills of KPPI and stakeholders in improving costal governance and carrying capacity downstream		
	2.1.3. Existing land and coastal rehabilitation efforts downstream of Saddang Watershed		
	2.2.1. Improved skills of KPPI, women's and vulnerable groups in the development of creative business and food diversification	2.2. Increased community income at the downstream of Saddang Watershed through environmentally friendly creative businesses and food diversification	
	2.2.2. Available facilities and infrastructure of technology in encouraging creative business and food diversification		
	2.2.3. Existing marketing network for creative business and food diversification		

3. Strengthening of institutional system and capacity to reduce climate risk including socio-economic and environmental degradation	3.1.1 Established and operating Climate Change Adaptation Working Group (POKJA-API) 3.1.2 Internalized Climate Change Adaptation Action Plan to Local Government policies, as well as existing planning document of regional adaptation action plan 3.1.3 Existing Climate Change Adaptation monitoring system that can be used by the parties to ensure sustainability	3.1. Strengthened cross-cutting policies ensuring the sustainability of climate change adaptation	<b>\$90,504</b>
4. Strengthening of capacity and support of the parties through knowledge management	4.1.1. Disseminated programs to strengthen and encourage policies and alignments 4.1.2. Existing early warning system platform for Climate Change Adaptation of Saddang Watershed Ecosystem	4.1. Strengthened stakeholder understanding through dissemination process	<b>\$90,918</b>
4. Project/Programme Execution cost			<b>\$68,373</b>
5. Total Project/Programme Cost			<b>\$702,334</b>
6. Project/Programme Cycle Management Fee charged by the Implementing Entity (if applicable)			<b>\$64,758</b>
<b>Amount of Financing Requested</b>			<b>\$835,465</b>

### Projected Calendar

Indicate the dates of the following milestones for the proposed project/programme

Milestones	Expected Dates
Start of Project/Programme Implementation	1 January 2019
Mid-term Review (if planned)	1 September 2019
Project/Programme Closing	25 June 2020
Terminal Evaluation	30 June 2020



## PART II: PROJECT / PROGRAMME JUSTIFICATION

### A. Project Component

Describe the project / programme components, particularly focusing on the concrete adaptation activities, how these activities would contribute to climate resilience, and how they would build added value through the regional approach, compared to implementing similar activities in each country individually. For the case of a programme, show how the combination of individual projects would contribute to the overall increase in resilience.

**Component 1. *Strengthening of Social Forestry in promoting food security in the upstream of Saddang Watershed which has implications for the improvement of the environment and the increase of people's income.***

**Strengthening of social forestry provides legality of forest food development with agroforestry system in forest area as a process of adaptation in climate change in the upstream of Saddang Watershed.** The implemented program internalizes local types of forest food in the Social Forestry scheme. The areas that are targeted in the upstream of Saddang Watershed include North Toraja, Tana Toraja and Enrekang Districts. The program targets **5,000 ha for the Social Forestry scheme** in the upstream of Saddang Watershed. The adaptation effort will be done through rehabilitation of Agroforestry model pattern. **Agroforestry systems can contribute greatly to climate change through improved microclimate to food security.** Lariang Mamasa Watershed Management released information on critical land area in the intervention villages in Saddang Watershed which was 16,357.14Ha. To minimize the condition of critical land, forest and land rehabilitation can be done, among others using agroforestry method. Through the agroforestry method, there is an increase in resilience, namely the mixing of species that have different resistance to temperature, if there is an increase in temperature, the species that used to grow at higher temperatures will be more numerous, while other types of growth will decrease, but the amount of carbon absorbed will be the same. In addition, the increase in resistance (resistance), if or the absorption of the system will against CO will not be disrupted because there are adjustments caused by various mixed plants that have relatively different physiological characteristics.

**The establishment of legal Social Forestry access for 5,000 ha in all upstream areas through forest food commodities.** Based on P.83 of Year 2016 regarding Social Forestry in its implementation, the community will establish a Forest Farmer Group (KTH) to gain legal access. Group formation will take place in the third month of the project, and then it will be processed to get legal access. The existence of such legal access will be facilitated in the preparation of legal documents for legal access to social forestry and petition to the Provincial Government and Minister of EF. Such legal access can provide space for participatory management interventions in a participatory manner. Communities can then take existing forest benefits legally.

Based on the potential of commodities in each project location, NTFPs-based forest food is grouped according to EF Ministerial Regulation No. P.35/Menhut-II/2007 and the Decree of the Minister of Agriculture No. 511/Kpts/PD.310/9/2006 regarding the types of commodities crops managed by the Directorate General of Plantation, Directorate General of Food Crops, and Directorate General of Horticulture, the grouping of commodities can be seen in the following table:

Table 3. Grouping of Potential Commodities in Project Areas

No	Sub-district	Commodity	Commodity Group	Priority Food	Agroforestry Pattern	Product Result	Target	Remarks
1	Rantebua, Buntao, Nanggala, Makale Selatan, Masanda, Cendana, Enrekang	Sugar Palm, Bamboo, Candlenut	Fatty oil and starch producer	Sugar Palm	<i>Arenga pinata</i> + <i>Coffee robusta</i> (Robusta coffee) / <i>Theobroma cacao</i> (Cocoa)	Palm Sugar	Commercial Products	This product has potential buyer as follows:  UD. Berkah Avrilla Bone Bolongo District, Gorontalo
2	Buntao, Nanggala, Makale Selatan, Masanda	Corn, Peanuts, Taro	Secondary crop ( <i>palawija</i> ), Nuts & Tubers	Taro	<i>Causarina junghuhniana</i> (Mountain Ru) <i>Elmeria sp</i> (Magnolia) + <i>Colocasia esculenta</i> (Taro)	Taro	Rehabilitation, Household Consumption	Taro seeds will be planted in the Social Forestry area in each Sub-District (Rehabilitation). These commodities will also be used as household consumption
3	Cendana, Enrekang, Maiwa	Sugar Palm, Tamarind, Durian, Rambutan, Breadfruit, Rose Apple, Mangosteen, Coffee	Fruit producers	Breadfruit	<i>Arthocarpus communis</i> (Breadfruit) + Coffee + <i>Leucaena leucocephala</i> (White Leadtree)	Breadfruit	Rehabilitation, Household Consumption	Breadfruit seeds will be planted in the Social Forestry area in each Sub-District (Rehabilitation). These commodities will also be used as household consumption
4	Buntao, Nanggala, Rantebua, Masanda, Cendana	Bee	Animal products	Honey	<i>Elmeria sp</i> (Magnolia) + <i>Albizia chinensis</i> (Chinese Albizia) + <i>Apis cerana</i> (Bee)	Honey	Commercial products	Direct supply to consumers/cooperation with Supermarket and Pharmacy

Rehabilitation will take place at social forest sites with *Artocarpus communis* (breadfruit) and *Colocasia esculenta* (taro). **Community-based rehabilitation efforts support the increase of people's income through forest food.** One of the government's achievements in adaptation is the upstream rehabilitation of the watershed. This was measured by the Social Forestry scheme, which could be seen in the 2014 RAN-API that the target of establishing legal access to social forestry schemes for the rehabilitation of the national watershed reached 500,000 ha for all forest areas adjacent to priority watersheds. Therefore, efforts should be made to extend social forestry in the upstream areas to ensure sustainable forest management and prosperity of forest communities in the upstream of Saddang Watershed. This rehabilitation activity is also an effort to reduce greenhouse gas (GHG) emissions. In line with RAN-API 2014, climate change adaptation can be implemented by means of rehabilitation of critical land, especially on land with a very critical and critical status.



The sugar palm forest commodity will be utilized into palm sugar, in addition to harvesting forest honey. The management of palm sugar and honey products will be carried out until the packaging that will become an additional income for the community within the Saddang Watershed ecosystem. Palm sugar products will be marketed to industries in some places in Indonesia. Likewise with honey products, they will be distributed directly to supermarkets or pharmacies. The development of forest food products is one of the methods in increasing the income of the community, so in this case the community will not encroach on the forest area.

**Empowerment of forest farmer, women, and vulnerable groups in forest product management is to be developed in project-intervened villages.**

Empowerment activities will be undertaken through a number of training activities, workshops, and comparative studies. The activity will involve the entire target group members formed. Following the formation of forest farmer, women and vulnerable groups, field facilitators will seek to collaborate and conduct regular assistance by transforming knowledge and changing

the target community's mindset about the mission and vision of the project.

Figure 10. Portrait of forest food, the sugar palm (*Arenga pinnata*) in project intervention area

In addition, other supporting programs are the **internalization of climate change adaptation action in the institutional design of Social Forestry.** Forests as catchment areas have an important role in anticipating increased rainfall due to climate change impacts. Community-based forest management will contribute to increased land cover, as it will also reduce community land conversion activities.

**The cultivation and development of forest food crops by linking to appropriate market networks will be a means of ensuring the sustainability of the Social Forestry scheme,** s the targeted increase in people's income in the long term can reach up to 30%.

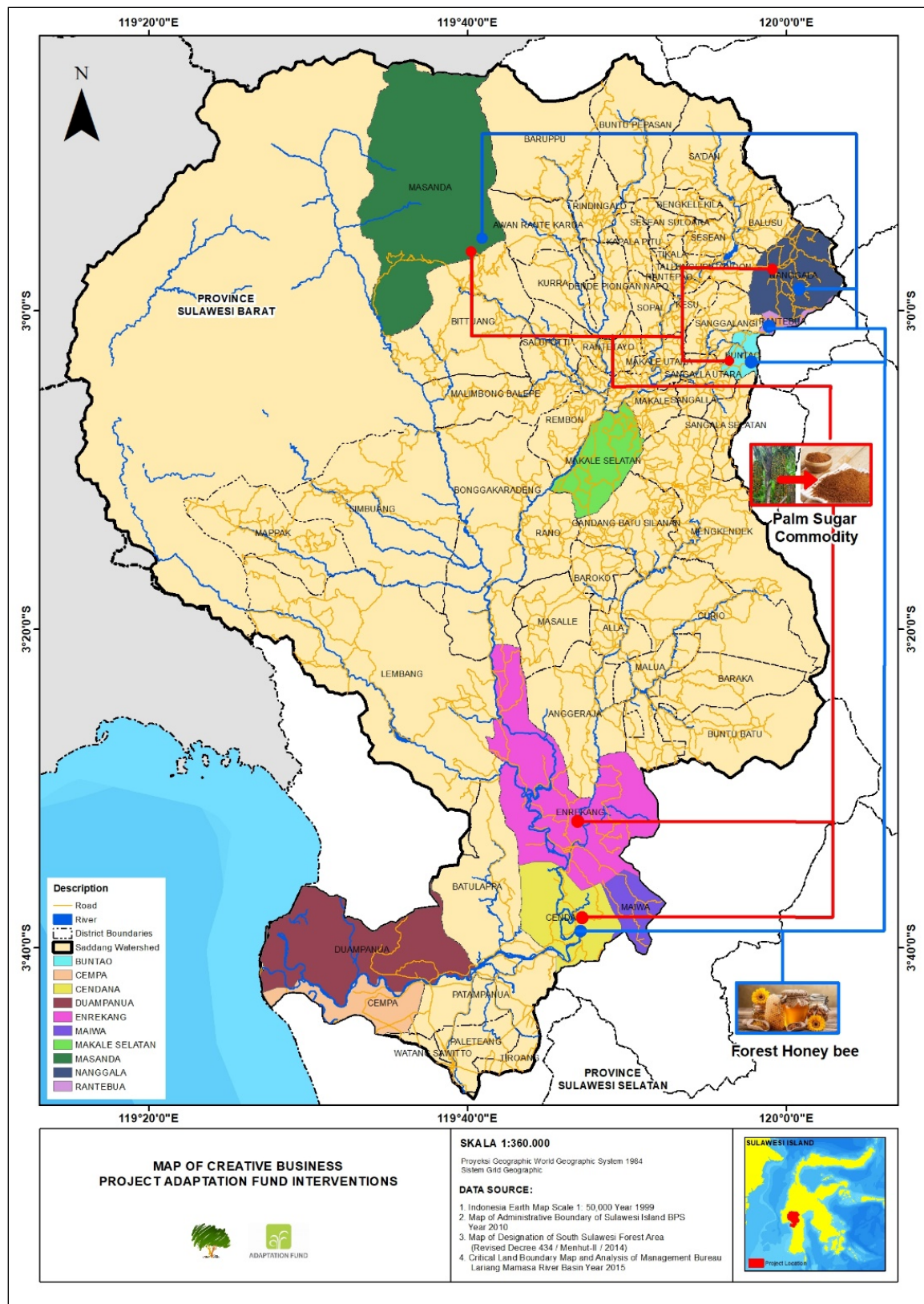


Figure 11. Location Map of Creative Businesses in the downstream of the Adaptation Fund project intervention area



**Component 2.      *Improvement of coastal governance and carrying capacity in supporting climate change adaptation in the downstream Saddang watershed***



Figure 12. Mangrove Rehabilitation Area

and agricultural land often results in a decrease in the mangrove ecosystem area. On the other hand, there are also frequent floods in the region caused by increased rainfall, and also the silting of the river due to the effects of climate change through sedimentation that descends from the upstream region.

Improvement efforts were carried out by forming a climate change care group (KPPI) as the driving force for the response of rehabilitation of 1.2 km of mangrove forests, also supported by facilities and infrastructure such as the construction of seed houses in 3 coastal villages and the provision of mangrove rehabilitation tools, which will provide sustainable rehabilitation during the project period.

Downstream areas are part of the areas impacted from increased **sedimentation due to natural disasters occurring in the upstream areas. 8,071,688.89-ton sedimentation per year was recorded<sup>23</sup>, causing downstream area to be very susceptible to flood. The increase of rainfall and the influence of upstream flow discharge also contribute to the destruction of coastal ecosystem.** In addition, the loss of some mangrove ecosystems leads to a decrease in groundwater quality due to coastal abrasion. Referring to the 2018 – 2050 climate change scenario that indicates an average increase in



Figure 13. Increased Sedimentation

rainfall of 8% over the next 33 years, it will also impact the rise of sea level, and drastic climate change will affect wind speed. Therefore, mangrove forest rehabilitation must be done.

<sup>23</sup> Analysis on Soil and Water Assessment To (SWAT) from Saddang Watershed, 2017

<sup>4</sup> Data from field survey results by direct interviews of coastal community, 2017

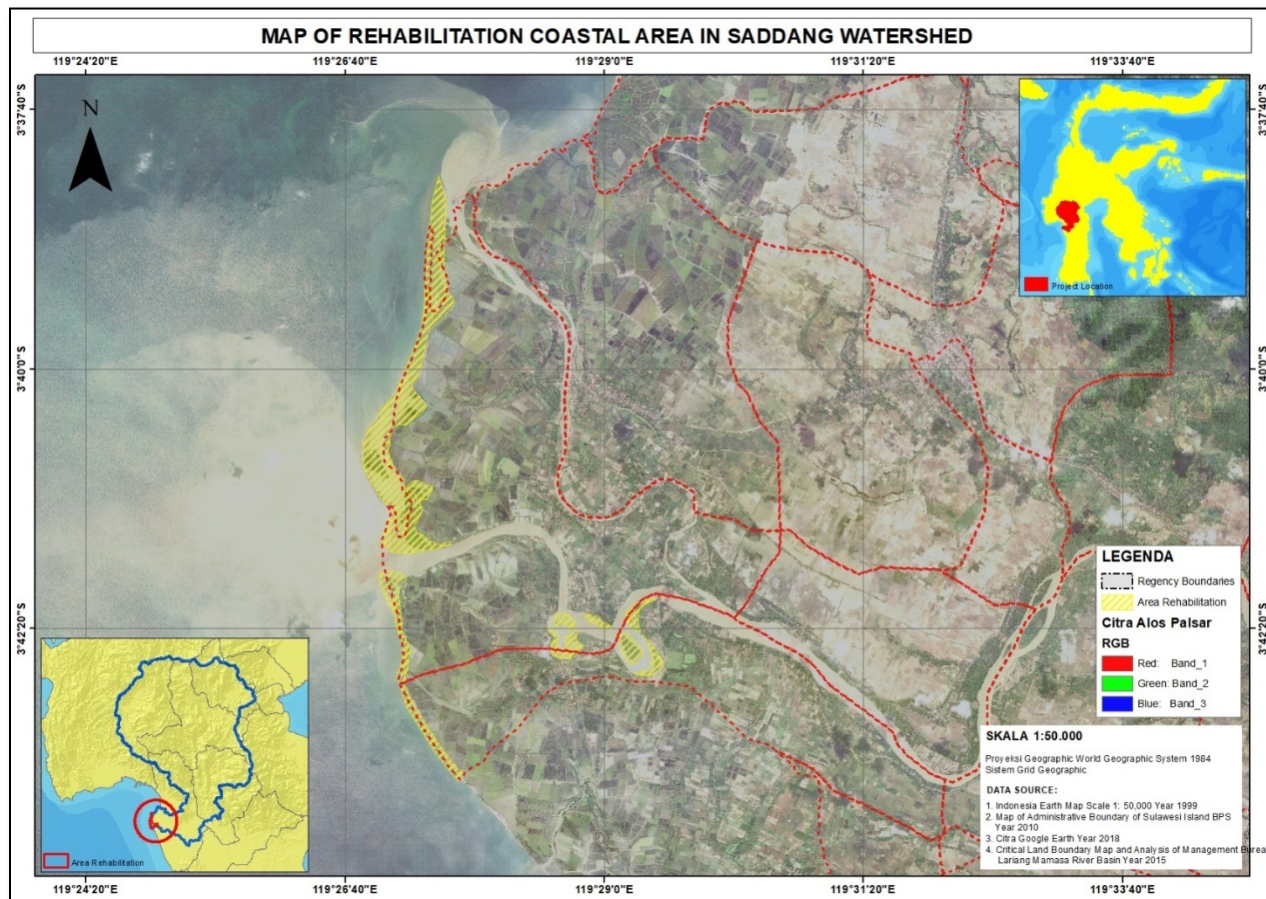


Figure 14. Map of Mangrove Rehabilitation



Figure 15. Salak Plantation Area

In addition, this component will contribute to improving food security and capacity of local groups. Increased food security is done through the **development of creative businesses and the development of food diversification** by **encouraging superior commodities** in intervention villages such as **seaweed** and business development from **salak<sup>4</sup>**, which will have a positive impact on the income of coastal communities. Capacity building of local groups is carried out with climate change adaptation training, mangrove cultivation training, creative business creation training, entrepreneurship training, and coastal community assistance. The commodities that will be developed to increase the income of

local communities in the intervention village in the downstream of Saddang Watershed are as follows:



Table 4. Enhanced Commodity for Local Community Revenue

No	Sub-district	Commodity	Group	Priority Food	Product	Type of Product	Potential Buyer
1	Duampanua, Cempa	Seaweed	Fisheries and Marine	Seaweed	Sea Chips and Raw Materials	Commercial products	1. PT. Kima Makassar (Indomaret and AlfaMart)  2. Indonesian Seaweed Association (ARLI)
2	Duampanua	Salak	Farmers	Salak	Coffee from salak seeds	Commercial products	PT. Kima Makassar (Indomaret and AlfaMart)

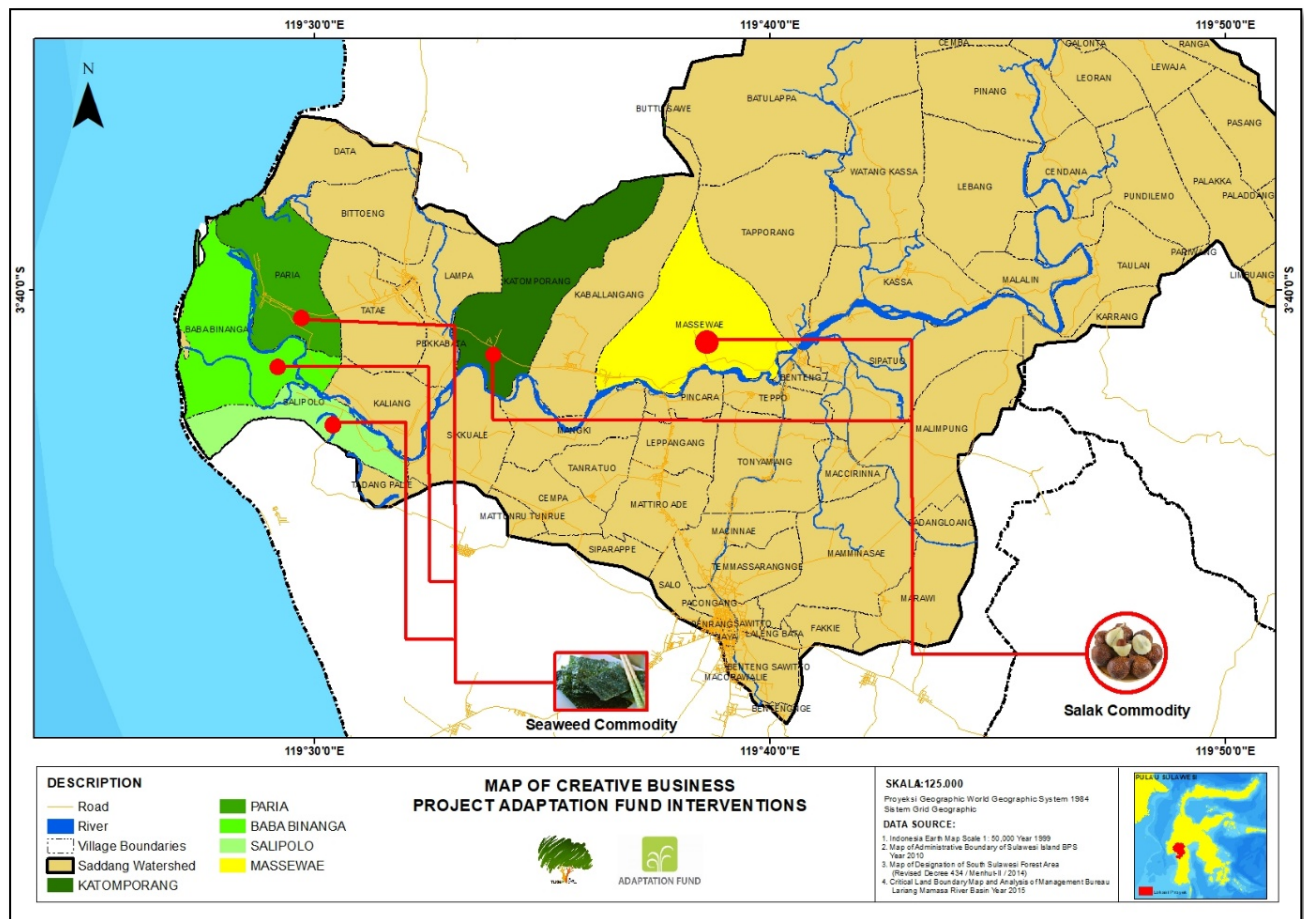


Figure 16. Location Map of Creative Business in the downstream of the Adaptation Fund project intervention area

**Component 3.      *Strengthening of institutional system and capacity to reduce climate risk including socio-economic and environmental degradation***

**Strengthening regional and cross-sector policies, providing legal certainty in the sustainability of adaptation action in the watershed area.** Stakeholders that have an important role to play in the sustainability of climate change adaptation action in the watershed area the local governments. Certainty of sustainability is translated in the form of regional policies that are in line with the government's national policy. The regional policy in the preparation of climate change adaptation action is guided by the Minister of Environment and Forestry Regulation No. P.33/Menlhk/Setjen/Kum.1/3/2016 regarding guidelines for the preparation of climate change adaptation actions synchronized with RAN - API by the National Development Planning Agency (BAPPENAS). The RAN API Working Group (Pokja) is one of the forums to implement climate change adaptation plan so that each program can be integrated in the development of national and regional development plans. To develop the sustainability of the climate change adaptation plan, the project management unit (PMU) will facilitate the ongoing process at each stage of implementation during the project.

The condition of community in Saddang Watershed Ecosystem is **in disaster prone areas**, such condition is influenced by climate change. Agricultural sector becomes a matter that must be considered because it is very vulnerable to climate change. Food security can be one of the methods offered for the climate change adaptation process. **This is also one of the goals in Sustainable Development Goals (SDGs).**

At the district level, **every local government unit on environmental, agricultural and climate change, local NGOs, and several experts from universities will be involved in each process of the regional action plan (RAD API).** At this stage, there will be formulation of risks and constraints to climate change that have occurred in the Saddang Watershed ecosystem. The grouping of issues will then become the main foundation for the RAD POKJA-API in developing adaptation plans which are then integrated into RPJMN in 2020-2025. The activities of the RAD POKJA-API will also be initiated to become part of the **draft local regulations (ranperda) and the strategic plan (renstra)** in each regional unit **will also be a benchmark for integrating the strategies and action plans that will be formulated.** The short-term progress can be monitored in the local government action plan (RKPD) that will be revised once a year. With this project activity can be utilized optimally by the stakeholders. The target program focuses on the level of disaster risk reduction and enhances community preparedness against the threat of climate change and future development of food land, for which the resulting program can contribute to the Saddang watershed community

Each activity agreed with stakeholders will be monitored directly through monitoring applications. The application platform will make it easier to monitor and measure the extent of the impact and constraints of project interventions while it is ongoing. This application becomes a system that ensures program sustainability in climate change adaptation.

**Component 4.      *Strengthening of capacity and support of the parties through knowledge management***

**All knowledge management and learning activities in this project component are undertaken to ensure the sustainability of climate change adaptation goals and ensure that any learning elements in the project can be replicated in the future.** Knowledge dissemination and management are conducted **with technology basis so that the scope of the project will be wider in the future**, not only in Saddang Watershed, but also in several areas with similar context of issues throughout Indonesia. The POKJA-API that has been formed in synergy with government officials in each project intervention area through climate change adaptation forum **becomes a forum for coordination and monitoring of information networks both at regional and national levels.**

For the focus on dissemination, the main activities in this knowledge management component are publications by launching documentaries, lessons learned books, research journals, and policy briefs



related to Climate Change Adaptation action. The documentary will document all components of the project, and capture the experience and learning stories for each of the project activities that have been done. The publication of the lessons learned book is created to document climate change adaptation actions, and to raise public awareness about climate change. Policy briefs are developed as an advocacy tool to encourage stakeholders to embrace climate change adaptation strategies. In addition, other digital promotional media such as infographics/videographic, as well as physical ones such as leaflets, posters, banners and billboards are also created to encourage accelerated dissemination of lessons learned.

**The technology platform of the early warning system for Climate Change Adaptation is a new idea in this project that can be used by stakeholders as a means to facilitate monitoring, and ensure the dissemination of information about climate situation and conditions in Saddang Watershed in the context of Climate Change Adaptation in the future.** Elements of this early warning system include disaster alert, provision of information related to food security and special slots for forest food security, provision of information on river water discharge, and coverage conditions for forest and mangrove in the Saddang Watershed. The technology platform is built with a system that is easier to be accessed by different parties, and will make the transform program much easier for the parties in reaching the technology platform.

## **B. New and Innovative Approach, Technology, and Mechanism**

Describe how the project /programme would promote new and innovative solutions to climate change adaptation, such as new approaches, technologies and mechanisms.

The program's key components will **promote new solutions and innovations in climate change adaptation efforts through several activities that focus on new approaches, with the technology and mechanisms** used are as follows.

### **1. Internalizing Climate Adaptation in forest governance through Social Forestry**

The new innovation in climate change adaptation through this program is forest governance through social forestry program. It is driven through a series of program on **Legal access for community based forest management Scheme**. The scheme is to prepare a social forestry document through advocacy of legal access to the parties of 5,000 ha. Social forestry is seen as one of the community solutions in climate change adaptation especially forest food security. It is expected that the **community can manage forests independently and comprehensively**. It is based on a change of forestry paradigm which assumes that humans are a component part of an inseparable ecosystem, so that sustainable forest management and realizing forest food security must involve the human component as the most important component. The social forestry approach is considered to be one of the solutions for long-term tenure conflicts. It is expected that the new approach to social forestry can be modeled in climate change adaptation.

### **2. Managing Nursery as Seedbank Native Species**

One of the innovations that will be highlighted in the program activities is the making of nursery as **seed bank**, especially for food forests such as sugar palm, breadfruit, and taro which are the local native species/type to the area. On the other hand, these activities will also increase the income of the community in the provision of sustainable forest food stock. It is pursued through a series of activities in the form of nursery management technical training, facilitation of food seeds home management module, regular discussion and entrepreneurship training. **The seed bank management is done with participatory approach**, or through cooperation with local government. This can have an impact on the **conservation of native species biodiversity**.

### 3. Diversification of forest food products

This activity will introduce **forest food products as alternative staple food**. The goal is to diversify the forest food so that **the surrounding community does not depend on yield/raw material**. This activity will be supported through a series of activities in the form of community and institutional capacity building through the Internalized the Action Plan on Climate Change Adaptation in Local Government policies, as well as their planning documents local level adaptation action plans.

### 4. Institutional Strengthening Mechanism for KPPI model

As an effort to adapt to climate change at the institutional level at the Village level, the **KPPI (Climate Change Care Group)** will be introduced. There will be 5 groups of KPPI formed in each village. These groups will take on the role of disaster response groups at the site/downstream level. **The sustainability of mangrove rehabilitation in coastal areas becomes the main task of KPPI**. KPPI consists of 10 members of the community who are directly elected by deliberation and will have their capacity enhanced through a series of trainings such as training on coastal natural resources conservation, disaster response, cadre assessment planning, regular discussion, preparation of institution statute-bylaw and system. **KPPI will serve as a driving force at the village level in climate change adaptation**. KPPI will also perform its duties in collaboration with BNPB, Village Apparatus, Fisheries and Maritime Office, and related stakeholders.

### 5. Technology

New technology will be introduced to the public especially related to the processing of forest food products such **Energy-efficient stoves to process palm sap into palm sugar**. In addition, it will also use **crystallization machine to accelerate the sap processing into palm sugar**. Other activities that use a new technology approach are related to honey products obtained from the forest. The community will be introduced with an **environmentally friendly honey harvesting** technology. The honey harvesting tools will be in the form of safety tools for bees harvesting used by the community when harvesting honey in the forest. It can contribute to sustainable harvest of honey, because people can start leaving traditional ways with curing techniques. In an effort to support disaster preparedness information system, the program will also introduce an **Application platform for early warning (disaster alert)**. This application is web-based/**android-based** and contains the database and recent information related to disaster alert. The targets are all beneficiaries in the Saddang Watershed ecosystem. The main components of the application contain information on potential forest food in watershed ecosystem, disaster preparedness, weather information and land cover changes over a period of time. In line with the above, a **joint monitoring system related to Climate Change Adaptation monitoring systems** will be developed, that support the strengthening of policies implemented by stakeholders.

### C. Economic, Social, and Environmental Benefits

Describe how the project / programme would provide economic, social and environmental benefits, with particular reference to the most vulnerable communities, and vulnerable groups within communities, including gender considerations. Describe how the project / programme would avoid or mitigate negative impacts, in compliance with the Environmental and Social Policy of the Adaptation Fund.

The project will bring various economic, social, and environmental benefits to all stakeholders. **The most dominant (economic, social and environmental) impacts of the gains are the people (mainly farmers) as the recipients of the greatest impacts of climate change.**

In macro terms, the project defines vulnerable communities as entities prone to receiving climate change impacts. In this case, the group is the community who works as farmers. Provision of legal access is important because communities in the project intervention area are dominated by farmers who manage their land for crops and plantations. A high degree of dependence on land is not followed by high community land holdings. Farmers' land in the project area is dominated by average land tenure of one hectare. Consequently, the average income level of the people who work as farmers is IDR 1,651,282 (below the minimum wage standard). Low revenues eventually trigger the community to enter the state forest area to conduct production process illegally. Through the provision of social forestry permits, community activities can be controlled as well as contribute income to the community. The contribution is contained in the above-mentioned forest food management and development schemes in the social forestry areas. **Through the project, the management is strengthened not only through the provision of legal access, but also through the establishment and strengthening of local institutions, including capacity building of the community. Not only that, this project also facilitates local institutional synchronization with national institutions so as to establish an "integrated system" in sustainable development in Saddang watershed ecosystem.**

In micro terms, **the project also pays attention to vulnerable groups in the project area, dominated by women and elders, through the involvement of forest food management and marketing activities.** The involvement of women in every "project objective" is a priority so the gap between genders can be minimized or even no longer exists. More specifically, the project has designed a program for these vulnerable groups through a program to develop creative businesses and diversify food development.

The above provides information that the **project is able to provide economic benefits to all areas of the project intervention and financial benefits and knowledge to communities in the project intervention area.** The basis to justify this benefit is obtained through the addition or diversification of products for the land-managing community. To support the assessment on the importance of project investment, an analysis team involving academic institutions performs an analysis on the Economic Rate of Return (ERR). An ERR provides a convenient metric to compare the economic costs and benefits of a public investment, program, or policy measure (or "project"). The analysis results show that the **ERR value of this project is 47.71%** and has passed the minimum standard of the World Bank.

All project activities have also been analyzed for the significance of potential impacts that may occur due to project interventions. **The results of the analysis are then developed into a strategy for managing the project intervention known as the Environmental Social Management Plan (ESMP), which is a management preventive step in the process of incorporating the program into a region.** The details of ESMP are presented in table 9 in this proposal.

Therefore, preventive measures are dominated by intensive dissemination of information by the management to key figures, recruitment of experienced facilitators and experts as well as selection of experts or writers who have the competence and experience of at least five years in their field. The ease of entering the project into the project area is also reinforced by the various programs undertaken by the Yayasan Tim Layanan Kehutanan Masyarakat (TLKM) as the lead consortium starting from 2011 to date. This process has built the trust of community and key figures for each stakeholder in the project intervention area.

Programs under this project have followed the national and international law which is a prerequisite for the assessment of "Environmental and Social Impact Risk Principles 1". The programs have also followed the principles of sustainable development in the effort of strengthening Sustainable Development Goals (SDG's) and following the draft of the Government of Indonesia's international agreement through the Republic of Indonesia's "Nationally Determined Condition (NDC)". At the national level, the project also integrates the vision of President Joko Widodo contained in the Nawacita on point 7, Law No. 18/ 2012, Law No. 1/ 2014, Government Regulation No. 28/2004, Presidential Regulation No. 121/2012, Regulation of the Minister of Environment and Forestry No. 33/2016, Regulation of the Minister of Environment and Forestry No. 83/2016, the 2015-2019 Strategic Plan of Ministry of Environment and Forestry, the 2015-2019 Strategic Plan of Food Security Agency, the Strategic Plan of Local Environmental Agency of South Sulawesi Province, Local Regulation No. 12/2011, the 2016-2021 Local Mid-Term Development Plan of Tana Toraja, the 2010-2030 Local Mid-Term Development Plan of North Toraja, the 2013-2018 Local Mid-Term Development Plan of Enrekang, and the 2014-2019 Local Mid-Term Development Plan of Pinrang.

The 2<sup>nd</sup> principle of Access and Equity does not require follow up because the macro process of program allocation has involved all areas that are part of the Saddang Watershed area. In micro terms, the program area has also been discussed in a participatory manner involving key figures for each stakeholder. These key figures have been mapped in previous TLKM projects. The stakeholder mapping is done in fair and equitable manner regardless of gender, race and religion (without favoritism and discrimination). Through key figures, marginalized parties can also participate in the project's programs. Another condition related to this 2<sup>nd</sup> principle is not to carry out physical development activities so that the impacts related to various pollution will not happen.

The 3<sup>rd</sup> principle of *Marginalized and Vulnerable Groups* will not provide potential impacts and risks in the future as their projects will be accommodated since the planning, implementation, and monitoring of activities. Generally the project approach uses a "group" approach and is based on "forest-dependent communities", which aims to be active involvement and ensure protection for marginalized and vulnerable groups

The 4<sup>th</sup> principle of *Human Rights* has no potential negative impact in this project. The existing programs have strengthened civil society's rights in managing (not taking) state land for their welfare.

The 5<sup>th</sup> principle of *Gender Equality and Womens empowerment* also has no potential negative impact. Through the project, the involvement of women is further encouraged in the management of KTH. In addition, the programs offered provide women with special opportunities to develop their skill and capacity in managing forests or forest products sustainably. The principle of gender equality and women's empowerment in project activities is designed using an integrated gender engagement system plan (integrated gender plan) as a safeguards that sees as much as possible the proportion of involvement between men and women in all project activities.

The 6<sup>th</sup> principle of *Core Labor Rights* is not an important issue. This is due to the project intention that emphasizes the principle of participation of interested parties, especially farmers as landowners. Through the project, farmers have the opportunity to manage state forest areas and act as leaders/managers of their respective fields, not as labors. These conditions make the farmers as a determinant of land management decision-making, which is limited only by state laws.

The 7<sup>th</sup> principle of Indigenous People is not a problem for all project sites. This is because there is no "Indigenous People" found in the project intervention area.

The 8<sup>th</sup> principle of *Involuntary Resettlement* is not a problem because the project does not concern any taking or using of assets derived from the project intervention area. Activities such as land rehabilitation are conducted on state forest areas that are unoccupied vacant land. In addition, there is no activity of building/procurement of buildings/physical goods that can lead to follow up on this principle.

The 9<sup>th</sup> principle is *Protection of Natural Habitats*. This project is not linked to the destruction of natural habitats for biodiversity and does not include state-conserved lands. The community forestland management process is aimed at managing land through social forestry schemes so as to create balance between the environment and community welfare.

The 10<sup>th</sup> principle is *Conservation of Biological Diversity*. The project supports the creation of biodiversity conservation areas through the strengthening of the surrounding area with social forestry schemes so that it can become a buffer zone for the conservation area.

The 11<sup>th</sup> principle is *Climate Change*. The project does not produce greenhouse gas emissions or other climate change drivers in program activities.

Prinsip ke-12 yaitu Pollution Prevention and Resource Efficiency. There is no activity at all in project activities that can cause pollutants and resource efficiency that can damage the surrounding environment.

The 13<sup>th</sup> principle is *Public Health*. The project does not focus on public health conditions and project implementation does not create any potential negative impact on public health in the intervention area.

The 14<sup>th</sup> principle is *Physical and Cultural Heritage*. The project team's identification results found no physical and cultural heritage within the project intervention area so it does not require special attention and handling.

The 15<sup>th</sup> principle is *Lands and Soil Conservation*. The project directive relating to land management are through the management of forest crops and diversification of forest food. This provides a positive advantage for soil and water conservation in the region.

**Based on all the above analyses and principles, the conclusion indicates that the project is highly feasible to be implemented economically, socially and environmentally as it can provide benefits and not put negative risks particularly in the context of the 15 principles required by the Adaptation Fund. Table of economically, socially and environmentally can be seen :**

Output		Expected Benefits		
		Social	Economy	Environment
<b>Output 1.1.1.</b>	<b>Legal access for Community Forest, Forest Village Scheme, or Partnership Scheme</b>	As general, a legal scheme for the Community Forestry will trigger Principle 1. KAPABEL commit will compliance with all local, national and international law.  This project involves people who are vulnerable to law enforcement. Without legal access, people who enter the	Financially, it will affect the maximum number of households: 2.500 households. The number is based on the assumption that the average capability of people manage land is 2 hectares per households. As information, this number will change according to the effective conditions in the	Legal acces will affect the structure of land: 1. Illegal loggers will change their pattern from "just" cut the trees into cut and growth 2. The land pattern will change from the monoculture into agroforestry.

Output		Expected Benefits		
		Social	Economy	Environment
		<p>forest area are considered illegal loggers by the government.</p> <p>This project will endorse behavioral change for the community, from the illegal loggers become forest farmer. Forest farmer will serve conservation while they gain their income</p>	<p>field. This project took the number 185 households as a "pioneer model" for the development of forest food in reaching a total area of 5,000 ha of social forestry scheme.</p> <p>The 185 families mentioned above will focused on forest food production while maintained food stability in the upstream areas where access to facilities and infrastructure is inadequate.</p> <p>The results showed that with the change in the current land management, from a monoculture to an agroforestry system (10-year forestry crop rotation), the community could experience an increase in average income of Rp. 165,128 per month per hectare equivalent to a 10% increase in income. This condition applies in a ceteris paribus condition and based on the conditions farmers sell their raw products to middlemen. This</p>	

Output		Expected Benefits		
		Social	Economy	Environment
			<p>basis is one of the baseline analysis of the Economic Rate of Return.</p> <p>Increased income is even better if forest food inputs are simulated on land management patterns that can increase by an average of Rp.412,821 per month per hectare, equivalent to 25% increase in income assuming commercial crops are commercial types such as corn (Zea mays) , peanuts (Arachis hypogaea), cassava (Manihot esculenta), sweet potato (Ipomea batatas), chocolate (Theobroma cacao), and coffee (Coffea arabica).</p>	
<b>Output 1.1.2.</b>	Increased forest land cover	-	<p>In achieving output, the project targets the success of seedling growth by 70%.</p> <p>This growth can be harvest in 10 years and bring financial impact. As result it can bring approximately Rp.13.125.000 / yr / ha</p>	<p>Increasing land cover in the upstream area will strengthen the protection function of a forest area. The protection function in the Saddang watershed ecosystem is, among others, regulating the water system, preventing erosion and</p>

Output		Expected Benefits		
		Social	Economy	Environment
				<p>preventing flooding.</p> <p>If the forest land cover effectively used, it can have increased Carbon Reserves 649,850 tons / ha / yr</p>
<b>Output 1.2.1.</b>	<b>Increased capacity of escort and local communities in the scheme of Social Forestry</b>	<p>The project program will strengthen the social forestry scheme in each project target village. The first step is strengthening the capacity of facilitators who will intensively communicate and mediate the farmer groups or its member. This step will train field officers (field facilitators) how to assist community, how to operate the project program in the field level and socialize the Environmental and Social Policy of Adaptation Fund.</p> <p>The second step is strengthening the capacity of farmer groups. It will include groups dynamics and groups knowledge. So, both individually and institutionally will be upgraded.</p> <p>In this output will</p>	-	-



Output		Expected Benefits		
		Social	Economy	Environment
		accommodate vulnerable people such as women and elder. At this point we will not mention any numbers of women or elder that we must accommodate. We must considerate first the condition and cultural based on the village. Participatory approach will conduct this.		
<b>Output 1.2.2.</b>	<b>Increased capacity of stakeholders in sustainable forest management</b>	<p>The project program interverse knowledge not only to the community but also to the other stakeholders especially key person in the district governance.</p> <p>This program will adjust same vision to all stakeholders how to conduct sustainable forest management based on their own problem.</p>	-	-
<b>Output 1.2.3.</b>	<b>Increased stakeholders involved in order to support of the Social Forestry scheme</b>	Full supported from all stakeholders will increase acceleration of social forestry scheme	Appointed the right stakeholders, especially in marketing, will increase the price of the community product (Forest-Food). As ratio, if we cut value-chain it will 10%-20% cost less and if we can find the right price, likes the	

Output		Expected Benefits		
		Social	Economy	Environment
			price in Java, the price will increase 20%-25%.	
<b>Output 1.3.1.</b>	<b>Increased skills of Forest Farmers, Women and Vulnerable Groups in Managing Sustainable Forest</b>	Involving vulnerable groups will increase community trust to the project.	As many as 250 people in vulnerable groups will increase their income. The productivity will be 100% (from none (Rp.0) into available income (approximately Rp.500.000-1.500.00/ month)	
Output 1.3.2.	<b>Availability of infrastructure, processing technology of forests-food</b>		Technology processing will increase the price of the product and it is estimated into 10%-15%.	The availability of 10 units of forest food processing facilities and infrastructure is built using the concept of environmental friendly so that it cannot trigger damage around it
Output 1.3.3.	<b>Initiating forest food products to the market</b>	The trickle-down effect on establishing market will provide another job opportunity in the village.	The project is not only endorsing community to change their paradigm to conserve forest, but also help farmers selling their product to the market. If we can find the right market it and if we can find the right price, additional income to the community will take Rp.412,821	
<b>Output 2.1.1.</b>	<b>Concern Group on Climate Change (KPPI) are created as a</b>	5 concern group on Climate Change (KPPI) in	-	-

Output		Expected Benefits		
		Social	Economy	Environment
	<b>mover in the village and sub-district level.</b>	each village will increase responsibility of their community concern to climate change impact.		
<b>Output 2.1.2.</b>	<b>Increased capacity and skills KPPI as well as the stakeholders in the improvement of governance and the carrying capacity of the downstream coastal watershed</b>	There are 60 people will increase their capacity and become role model for the improvement of coastal carrying capacities.	This project will include 60 people. So, these people will increase their income in management activities and coastal carrying capacity.	Environment will get the impact from the project because there are planting scheme in location.
<b>Output 2.1.3.</b>	<b>Rehabilitation of coastal areas in the downstream of Saddang watershed</b>	-	The rehabilitation of coastal areas will affect 3% of th current income from communities around.	Increased land cover of coastal areas of 1.2 km with an estimated purchase of carbon 855,600 CO2 Ton / ha / yr
<b>Output 2.2.1.</b>	<b>KPPI skills enhancement, women and vulnerable groups in the development and diversification of household enterprises</b>	KPPI will not affect nenefits directly to the communities but endorse vulnerable people (especially vulnerable people such as women, eldely and disabled) to enhance their capacity to make an income.	There is financial income, from nothing become available. The household enterprises will take around Rp.750.000 untul Rp1.500.000 net income per person per month.  There 150 vulnerable people will include in this program.	
<b>Output 2.2.2.</b>	<b>Infrastructure technologies are available in encouraging household enterprises and diversification</b>		These infrastructure build to support household enterprises.	The technologies and infrastructure is a small-scale industry and will not trigger any ESP Principles
<b>Output 2.2.3.</b>	<b>Connect marketing for</b>	These schemes will support	These schemes will support	-

Output		Expected Benefits		
		Social	Economy	Environment
	<b>household enterprises and food diversification</b>	household enterprises.	household enterprises.	
<b>Output 3.1.1.</b>	<b>Team on Climate Change Adaptation Working Group (Working Group-API) has been formed</b>	As downstream Climate Change institutional, these working group will become a pioneer.  There are no directly impact to the communities in this institutional program.	There are no directly impact to the communities in this institutional program.	
<b>Output 3.1.2.</b>	<b>Internalized the Action Plan on Climate Change Adaptation in Local Government policies, as well as their planning documents local level adaptation action plans</b>	There are no directly impact to the communities in this institutional program.  It will affect especially in policies in local governemnt	There are no directly impact to the communities in this institutional program.	We cannot mention how much the impact but these action plan wil conduct several changes in infrastructure mechanism or some act mechanism.
<b>Output 3.1.3.</b>	<b>Climate Change Adaptation monitoring systems that support the strengthening of policies implemented stakeholders</b>	There are no directly impact to the communities in this institutional program.  It will affect especially in stakeholders who approve to change their policies and action plans	There are no directly impact to the communities in this institutional program.  Undirectly, if the preventive steps success by the policies and action plans people will not pay for the damage they get from their activities like flood.  There are no real measures to this problem.	-
<b>Output 4.1.1.</b>	<b>Disseminating best practice and lesson learn among all programs stakeholder at local and</b>	People can learn about the holistic mechanism through socialitation and give a feedback to get the best mechanism.	There are no directly impact to the communities.  Undirectly, if the preventive steps success by the	-

Output		Expected Benefits		
		Social	Economy	Environment
	<b>national level</b>	This program will targetting local and national police makers as stakeholders.	policies and action plans people will not pay for the damage they get from their activities like flood.  There are no real measures to this problem.	
<b>Output 4.1.2.</b>	<b>Adanya platform sistem peringatan dini Adaptasi Perubahan Iklim Masyarakat Ekosistem DAS Saddang</b>	Social behavioral will change. Community will easier to check the warning, easier to receive information, and undirectly concern about climate change.	-	-

#### D. Cost Effectiveness

Describe or provide an analysis of the cost-effectiveness of the proposed project / programme and explain how the regional approach would support cost-effectiveness.

The “Community Adaptation for Forest-Food Based Management in Saddang Watershed Ecosystem” project also analyzes the cost effectiveness of project interventions. The scope of the analysis involves the process of adaptation to ecosystem climate change. The analysis was conducted by comparing two alternatives: the current management of the Saddang Watershed ecosystem and the management of the Saddang Watershed ecosystem through project interventions. This comparison was then sharpened with a 10-year approach whereby if all government allocations annually to all areas of project intervention, then the adaptation process can be achieved. The analytical approach is also undertaken during the life of the project so that the differentiation can be visible.

Table 5. Cost Effectiveness Analysis with 10-Year Operational Cost Approach

Alternative Intervention	Cost Effectiveness Ratio for 10 Year Projection (\$)	Cost Effectiveness Ratio during Project Period (\$)	Cost Effectiveness Incremental Ratio for 10 Year Projection (\$)	Cost Effectiveness Incremental Ratio during Project Period (\$.)
Without Project	549,451	549,451	117,625	588,123
With Project AF	268,764	766,117		

The results of the analyses show that during the project period, cost efficiency without project is better then the project. This is because expenditures are made primarily to develop integrated policies and to build institutional social forestry schemes that at the time of the project will not be able to provide a real level of income to the community.

The results showed that with the change in the current land management, from a monoculture to an agroforestry system (10-year forestry trees rotation), the community could experience an increase in average income of Rp. 165,128 per month per ha, equivalent to a 10% increase in income. This condition applies in a *ceteris paribus* condition and based on the conditions farmers sell their raw products to middlemen. Low increase affect the impact of the project during project period.

Availability of forest protection function (regulating the water system, preventing erosion and preventing flooding) from trees growth will not serve effectively during the project period. It will take also 10 years to bring the result. The consequences, the value of effectiveness from the disaster management less than the project scheme. The difference will take to 40% of effectiveness.

The value of cost-effectiveness will be very different when we analyze the project over a 10-year period, so with project intervention, cost-effectiveness will be more comparable to that of no project. This is because the preventive steps at the project stage would have had a positive impact in subsequent years to the intervention areas.

Increased income is even better if forest food inputs are simulated on land management patterns that can increase by an average of Rp.412.821 per month per ha, equivalent to 25% increase in income assuming commercial crops are commercial types such as corn (*Zea mays*), peanuts (*Arachis hypogaea*), cassava (*Manihot esculenta*), sweet potato (*Ipomea batatas*), chocolate (*Theobroma cacao*), and coffee (*Coffea arabica*). This condition applies in a *ceteris paribus* condition and based on the conditions farmers sell their raw products to middlemen. Furthermore, if we provide the value of the trees it will take 68% profitability estimated 1.122.872/per month/ha.

The above points out that the “Community Adaptation for Forest-Food Based Management in Saddang Watershed Ecosystem” project has a very important urgency in the process of improving governance and sustainable land management in the climate change adaptation process. This project has a better cost-effectiveness compared to the current process, thus it is worth doing.

## E. Alignment with National and Sub-National Sustainable Development Strategies

Describe how the project / programme is consistent with national or sub-national sustainable development strategies, including, where appropriate, national or sub-national development plans, poverty reduction strategies, national communications, or national adaptation programs of action, or other relevant instruments, where they exist. If applicable, please refer to relevant regional plans and strategies where they exist.

### 1. National Development Strategies

National Development is based on the problems of weak joints of the nation's economy, as it is evident from the many levels of poverty, social inequalities, regional disparities, due to lack of productivity in various regions as a result of striking natural disasters. Thus the project is based on the Indonesian government's international agreements contained in the **Republic of Indonesia's Nationally Determined Contributions (NDC)** that Indonesia aims to **reduce risks to all development sectors through strengthening local capacity, enhanced knowledge management, convergent policies on climate change adaptation and disaster risk reduction, and adaptive implementation of technology**. In addition, the project will support the **National Action Plan on Climate Change Adaptation (RAN-API)** which states that Indonesia will reduce the risk of climate change **through local food-based food diversification to reduce the level of risk and yield loss due to diversity and climate change. So the project will focus on strengthening social forestry in encouraging forest food in the upstream watershed**, improved coastal governance and carrying capacity and strengthening crosscutting policies. This project will also be integrated into the national government's **"nawacita" development plan point (7)** that the government will manifest economic self-sufficiency by mobilizing strategic domestic economic sectors which include food sovereignty. It is also supported by **Law No. 18/2012** regarding food, food independence, and food security. The goal is integrated into the **2015-2019 Strategic Plan of Food Security Agency** regarding improvement of food diversification and security for the people and the **2015-2019 Strategic Plan of the Ministry of Environment and Forestry**, on addressing climate change and providing climate and disaster information by increasing community involvement in restoration of priority watershed areas of 12.7 million Ha through the development of social forestry in the form of Community Forest, Village Forest, Community Plantation Forest and People's Forest.

### 2. Regional and Sub-Regional Development Strategies

The project supports and accelerates the **2013-2018 Strategic Plan of Local Environmental Agency of South Sulawesi Province** on improving environmental support and climate change adaptation and mitigation with the goal of increasing vegetation cover, and rehabilitation of coastal areas and small islands. At regional level, the project interventions are in line with the **2016-2021 Mid Term Development Plan of Tana Toraja** on points of increasing agricultural, plantation, livestock, fishery and food crops production, with efforts to improve the handling of critical land conservation.

The program component also supports the Tana Toraja Local Government's operational steps related to improving food security, such as the Acceleration of Food Consumption Diversification through dissemination of information and promotional activities to change the food culture that has not been diverse, nutritious, balanced and safe. Program Component 1 on Social Forestry extension refers and supports **Local Regulation No. 12/2011 on Spatial Planning of Tana Toraja District for Year 2011 – 2030**, where one of the spatial planning policy points on increasing production forest resources with a development strategy of Community Plantation Forest management.

The project supports and accelerates the **2013-2018 Strategic Plan of Local Environmental Agency of South Sulawesi Province** on the enhancement of environmental carrying capacity and climate change adaptation and mitigation with the goal of increasing vegetation cover, and rehabilitation of coastal areas and small islands. This is in line with the project approach by

increasing land cover in upstream watershed areas by planting 5,000 Ha of forest food seedlings in accordance with the location of social forestry interventions, as well as on coastal area through rehabilitation of 5,000 Ha mangroves.

At the sub-regional level, project interventions are in line with the **2016-2021 Mid Term Development Plan of Tana Toraja** on points of increasing agricultural, plantation, livestock, fishery production and food security, with efforts to improve the conservation of critical land. The program component also supports the Tana Toraja Local Government's operational activities related to efforts to improve food security, such as the Acceleration of Food Consumption Diversification through dissemination of information and promotional activities to change the food culture that has not been diverse, nutritious, balanced and safe.

Component 1 of the program related to the expansion of Social Forestry refers and supports **Local Regulation No. 12/2011 on Spatial Planning of Tana Toraja District for Year 2011 – 2030**, where one point of spatial policy is on the increase of production forest resources with the development strategy of Community Plantation Forest (HTR) management, and the development of agroforestry as a buffer zone. In other areas such as in North Toraja District, the project interventions support the **2010-2030 Mid Term Development Plan of North Toraja** in the management, utilization and conservation of natural resources by taking into account environmental aspects through skills-enhancing approaches in processing forest resources, especially forest food, and the exposure of appropriate technology to process forest food.

While in Enrekang District, the project's idea is to accelerate the **2013-2018 Mid Term Development Plan of Enrekang** on the manifestation of the development and acceleration of diversification of local food-based food consumption, as well as the **Strategic Plan of Enrekang Forestry Office** on the development of Social Forestry in Enrekang District, which is in line with the project component of 5,000 ha of forestry expansion and the utilization of forest area in the development of forest food.

For the downstream area of Saddang Watershed, the project intervention, particularly in Pinrang District, is expected to be able to develop the **2014-2019 Mid Term Development Plan of Pinrang** with priorities for regional development, such as efforts to strengthen governance and bureaucracy reform, and to develop science and technology for innovation of potential management and local natural resources, in line with project component 2 i.e. managing and supporting coastal districts in supporting climate change adaptation and strengthening governance in supervision, structuring and utilization of Saddang Watershed through the formation of API WG.

## **F. Compliance with National Technical Standard**

Describe how the project / programme meets relevant national technical standards, where applicable, such as standards for environmental assessment, building codes, etc., and complies with the Environmental and Social Policy of the Adaptation Fund.

The project will propose a Social Forestry scheme in the Upstream of Saddang Watershed of 5,000 ha. The technical proposal of social forestry scheme refers to P.83/ 2016 on Social Forestry based on community decisions through the Forest Farmer Group (KTH) and other village institutions. In the process, extension agents in each district will be involved in the program. While the process of forming the Forest Farmer Group (KTH) will refer to P.57/2014 on Guideline for Forest Farmer Group Development, of which 15 groups will be formed in the upstream of Saddang watershed.

At the coastal or downstream area of Saddang watershed, coastal management will be carried out with reference to the technical governance standards in Law No. 1/2014 on Coastal Areas Management with the main objective of coastal rehabilitation. It is also based on Presidential Regulation No. 121/2012 on Rehabilitation of Coastal Areas and Small Islands, that rehabilitation of coastal areas contains planning documents during the rehabilitation efforts.



To ensure the sustainability of Climate Change Adaptation Action at the local level, regional institutions will be facilitated to develop Local Climate Change Adaptation Action Plans as well as the establishment of POKJA-API. The technical implementation of the drafting refers to the Regulation of the Minister of Environment and Forestry No.33/2016 on Guidelines for Climate Change Adaptation Action Preparation by involving various sectors in its planning. In addition, the team of experts recruited based on their respective capacities, the support of the Center for Research and Development of Natural Heritage, Biodiversity and Climate Change, Hasanuddin University will also direct the implementation of all project activities in accordance with relevant and applicable national standards in Indonesia.

In addition, the project will also focus on improving people's incomes through the development of household-scale industries by referring to Government Regulation No. 28/2004 on food safety, quality and nutrition which mandates that processed food produced by home industry is required to have certificates of Home Industry Food Production (SPP-IRT).

## G. Duplication of Project

Describe if there is duplication of project / programme with other funding sources, if any.

Currently, there is no duplication of this project with other funding sources. Future, however, will be driven by small projects conducted through other funding sources to continue outputs. Synergy with stakeholders who also have an interest in this project by building a collective agreement related to the roles. This is intended to avoid overlapping in role, rights and responsibilities.

## H. Learning and Knowledge Management

If applicable, describe the learning and knowledge management Component to capture and disseminate lessons learned.

The essential elements of each program component in the project are oriented towards knowledge management, communication strategies, and appropriate learning systematics. **This is important because adaptation efforts will not be achieved if the knowledge capacity of the parties is not yet qualified and not in one frequency. Achievements will progress slowly if the communication strategy is not appropriate.** Appropriate knowledge dissemination patterns and learning systematics will accelerate and support project sustainability, so they can be replicated in the future. This knowledge management process can be seen in component 3 and component 4 of the project. Several specific and linear activities supporting this are as follows:

### 1. Promoting POKJA-API

In project component 3, it is evident how to capture knowledge through the establishment of POKJA-API in each District. It is intended to be a forum for coordination and knowledge management, updating issues that are developing at the village level to the district level, and saving data and information on the lessons learned. The POKJA-API then will create a joint plan, conduct joint monitoring, and update information periodically. To facilitate communication between members of POKJA-API, a chat group is formed from a chatting platform commonly used as a means of efficient communication path.

### 2. Dissemination and Publication

Component 4 of the project focus on how to disseminate learning, and campaign climate change adaptation actions at the local, national, and even global level. It provides media for climate change adaptation campaigns on social media and websites, campaigns in documentary, infographic/videographic, and other printed publications such as leaflet, posters and banners. In addition, the output of this learning also produces knowledge products/assets such as best practice and lessons learned book and the Climate Change Adaptation journal, as well as advocacy materials for policy briefs. Learning will also be obtained and disseminated through a series of studies to support the adaptation of climate change based on food security. The results of the study are then disseminated in the form of a research paper or scientific journal.

### 3. Monitoring and Early Warning System of Climate Change Adaptation

Encouraging monitoring system and technological platform of early warning system for Climate Change Adaptation that can be used by the parties to ensure continuity of support and programs.

Through this system the parties can measure the extent to which changes occur in the context of climate change adaptation in the area of project intervention.

#### 4. Capacity Building

Improving the capacity of stakeholders in documenting and disseminating project activities and photographing the changes. Encouraging participation of the stakeholders in the project dissemination will also encourage greater involvement and enthusiasm of the stakeholders. In addition, capacity building of field facilitators, program officers, and extension workers in building communication strategies, encouraging the achievement of targets and significant project changes may occur. To maintain the sustainability of knowledge and learning, module and or technical guidance on program elements is developed such as the cultivation of forests in the upstream of Saddang Watershed and the land and coastal rehabilitation in the downstream of Saddang Watershed.

In addition to the program components, a series of strategies are also undertaken to ensure knowledge management processes are running optimally, such as engaging several experts from universities and research institutes focusing on the climate change adaptation, which are incorporated into POKJA-API and the team of experts in the project implementation group structure. In addition, to reach out to indigenous peoples and/or vulnerable communities, project management will consider the diversity of languages to avoid missed delivery of learning. The recruitment of local personnel as field facilitators can be a strategy to anticipate this problem, to ensure that there is no communication gap at the community level, especially for indigenous and vulnerable communities.

### I. Consultative Process

Describe the consultative process, including the list of stakeholders consulted, undertaken during project / programme preparation, with particular reference to vulnerable groups, including gender considerations, in compliance with the Environmental and Social Policy of the Adaptation Fund.

The implementation strategy of the consultative process at the site level, i.e. in the early stages of the project, carried out the process of stakeholder mapping and identification of vulnerable persons or groups to be involved by considering the distance, the impact of the project, and the results of the analysis of the expert or specialist team assigned to handle this. Key figures who have high influence at the community level were selected as partners in the implementation of the program, such as customary leaders, local youth, women group leaders, and other community leaders. The consultative process involved all key figures, whether in form of Focus Group Discussion (FGD) or other multistakeholder meetings to identify the interests of each beneficiary, so that the interests of each beneficiary can be maximally accommodated in the project implementation. Specifically, especially for vulnerable groups and gender issues, the start of the project will identify the vulnerable persons or families who will be involved by considering the distance, the impact of the project, and the results of the analysis of the expert or specialist team assigned to handle this. The consultation process that has been done can be seen in the following table:

Table 6. Consultation Process in Saddang Watershed

No	Stakeholder	Date	Issue/Key Point
<b>Enrekang District</b>			
1	Central Bureau of Statistics (BPS)	27 November 2017	Baseline data, Beneficiaries & Project Intervention Site
2	Regional Disaster Management Agency (BPBD)	27 November 2017	Disaster vulnerability Disaster baseline 2013-2016 Documentation Beneficiaries
3	Development Planning Agency at Sub-National Level (BAPPEDA)	27 November 2017	Enrekang District Planning Project Intervention Site Social Forestry
4	Settlement and Spatial Planning	27 November 2017	Spatial Plan

No	Stakeholder	Date	Issue/Key Point
	Office		Project Intervention Site
5	Village Community Empowerment Office	27 November 2017	Project Intervention Site Village Planning
6	Industry Office	27 November 2017	Small & Medium Industry, SMME Site Intervention
7	Environment Office	28 November 2017	Environmental Status Project Intervention Site Project Components
8	Agriculture Office	28 November 2017	Beneficiaries Commodity of project intervention site Land
9	Social Office	28 November 2017	Poverty Beneficiaries Project Intervention Site
10	Tungka Village	25 November 2017	Status of Forest Farmer Groups, Women Groups and Vulnerable Groups Community Dynamics Community Income Project Component
11	Ranga Village	25 November	Status of Forest Farmer Groups, Women Groups and Vulnerable Groups Community Dynamics Community Income Project Component
12	Pundilemo Village	26 November 2017	Status of Forest Farmer Groups, Women Groups and Vulnerable Groups Community Dynamics Community Income Project Component
13	Palladang Village	27 November 2017	Status of Forest Farmer Groups, Women Groups and Vulnerable Groups Community Dynamics Community Income Project Component
<b>Tana Toraja District</b>			
1	Central Bureau of Statistics (BPS)	28 November 2017	Baseline Data Beneficiaries
2	Regional Disaster Management Agency (BPBD)	28 November 2017	Disaster vulnerability Disaster baseline Documentation Beneficiaries
3	Agriculture Office	27 November 2017	Commodity of project intervention site Site Project Intervensi
4	Environment Office	27 November 2017	Environmental Status Componen Project
5	Development Planning Agency at Sub-National Level (BAPPEDA)	27 November 2017	District Planning Project Intervention Site Social Forestry
6	Lembang Randan Batu Village	25 November 2017	Status of Forest Farmer Groups, Women Groups and Vulnerable Groups Community Dynamics Community Income Project Component
<b>North Toraja District</b>			
1	Central Bureau of Statistics (BPS)	27 November 2017	Baseline Data Beneficiaries
2	Regional Disaster Management Agency (BPBD)	28 November 2017	Disaster vulnerability Disaster baseline Documentation

No	Stakeholder	Date	Issue/Key Point
			Beneficiaries
3	Development Planning Agency at Sub-National Level (BAPPEDA)	27 November 2017	District Planning Componen Project Site Project Intervensi Beneficiaries
4	Environment Office	27 November 2017	Environmental Status Componen Project
5	agriculture and livestock office	27 November 2017	Baseline Commodity of project intervention site Site Project Intervensi
6	Forestry and Plantation office	28 November 2017	Poverty Beneficiaries
7	Bokin Village	24 November 2017	Status of Forest Farmer Groups, Women Groups and Vulnerable Groups Community Dynamics Community Income Project Component
8	Lembang Sapan Kua-Kua Paniki Village	28 Mei 2018	Status of Forest Farmer Groups, Women Groups and Vulnerable Groups Community Dynamics Community Income Project Component
9	Lembang Karre Limbong Village	28 Mei 2018	Status of Forest Farmer Groups, Women Groups and Vulnerable Groups Community Dynamics Community Income Project Component
<b>Pinrang District</b>			
1	Environment Office of Pinrang District	29 November 2017	Environment Project Component
2	Agriculture Office of Pinrang District	29 November 2017	Food Production and Productivity Project Component Project Intervention Site
3	Development Planning Agency at Sub-National Level (BAPPEDA)	29 November 2017	Regional Planning Spatial Plan Project Component Project Intervention Site Beneficiaries
4	Marine and Fisheries Office of Pinrang District	29 November 2017	Coastal Zoning Plan Production of coastal ecosystem Cultivation center
5	Central Bureau of Statistics (BPS)	29 November 2017	Baseline Data Project Intervention Site
6	Regional Disaster Management Agency (BPBD)	30 November 2017	Disaster Project Intervention Site
7	Water Resources Management office (PSDA)	30 November 2017	Climate Project Intervention Site Project Component
8	Baba Binanga Village	25 November 2017	Status of Forest Farmer Groups, Women Groups and Vulnerable Groups Community Dynamics Community Income Project Component
9	Katomporang Village	26-27 November 2017	Status of Forest Farmer Groups, Women Groups and Vulnerable Groups Community Dynamics Community Income

No	Stakeholder	Date	Issue/Key Point
10	Massewae Village	28 November 2017	Project Component Status of Forest Farmer Groups, Women Groups and Vulnerable Groups Community Dynamics Community Income Project Component
11	Sali Polo Village	29-30 November 2017	Status of Forest Farmer Groups, Women Groups and Vulnerable Groups Community Dynamics Community Income Project Component
12	Paria Village	1 December 2017	Status of Forest Farmer Groups, Women Groups and Vulnerable Groups Community Dynamics Community Income Project Component

The focus of activity in this project is “Sustainable Forest Food-Based Adaptation of Saddang Watershed Ecosystem Community”, i.e. on **Strengthening Social Forestry** in pushing for forest food in the upstream of Saddang Watershed, **Improving coastal governance and carrying capacity** in support of climate change adaptation in the downstream of Saddang Watershed, **Strengthening cross-cutting policies** in ensuring the sustainability of climate change adaptation and **Strengthening the stakeholder’s capacity and support** through knowledge management.

**The Strengthening of Social Forestry in pushing the forest food in the Upstream of Saddang Watershed** which has implications for the improvement of the environment and the increase of people’s income is expected to create sustainable forest and improve the welfare of the community. The achievement can be done by involving several stakeholders to work together and synergize directly or indirectly. The target of achievement in strengthening social forestry scheme is increasing the scheme area in the upstream of Saddang Watershed up to 5,000 ha. In consultation on the strategy of strengthening and proposing the Saddang watershed forestry scheme, the team could involve a team from the South Sulawesi social forestry work group (POKJA PPS), South Sulawesi BAPPEDA, Social Forestry and Environmental Partnership (BPSKL) and Forest Management Units (KPH). Each activity to strengthen the social forestry (PS) scheme in the upstream Saddang watershed will refer to the work target and identification of the indicative map area and social forestry area (PIAPS) that has been formulated by each stakeholder.

**In the indicative map of the social forestry area (PIAPS) issued by BPSKL in 2017**, the 53 ha forest area in Enrekang District includes reserved areas for social forestry. This forest area is located in Pundilemo Village. Tana Toraja District has a forest area covered by PIAPS of 420.24 ha which can be proposed at Lembang Randan Batu. The forest area that can be reserved for social forestry in North Toraja District is located in Bokin Village covering an area of 267.53 ha. Proposal of social forestry schemes can also be proposed in forest areas linked to project intervention villages. This is supported by the information presented by the head of the social forestry and environmental center (BPSKL) regarding Paladdang Village as one of the intervention villages of this project which has been issued PAK license for CF scheme of 3,200 ha. Similar to Enrekang District, the North Toraja District has obtained determination of Work Areas (PAK) license covering 4,338 ha located in Bokin Village. At the intervention site, the project has a potential area of 10,409.93 ha of protected forest and a production forest of 962.01 ha. Details for the forest area of each intervention village in the upstream area can be seen in the picture below:

Table 7. Forest Area at Project Intervention Area

LOCATION OF INTERVENTION		Protection Forest (HL)		Total HL	Limited Production Forest (HPT)		Total HPT	GRAND TOTAL
		PIAPS	Non PIAPS		PIAPS	Non PIAPS		
<b>TOTAL ENREKANG</b>			<b>2526.91</b>	<b>2526.91</b>	<b>53.00</b>	<b>463.48</b>	<b>516.48</b>	<b>3043.39</b>
ENREKANG	Tungka		878.55	878.55				878.55
	Pundilemo				53.00	463.48	516.48	516.48
	Ranga		1319.47	1319.47				1319.47
	Paladdang		328.89	328.89				328.89
<b>Total Tana Toraja</b>			<b>7055,8</b>	<b>7055,8</b>	<b>420,24</b>	<b>25,29</b>	<b>445,53</b>	<b>7501,33</b>
TANA TORAJA	Lembang Randan Batu			0	420.24	25.29	445.53	445.53
	Lembang Paku		1152.59	1152.59				1152.59
	Lembang Sese Salu		5903.21	5903.21				5903.21
<b>Total North Toraja</b>		<b>557.52</b>	<b>269.7</b>	<b>827.22</b>				<b>827.22</b>
TORAJA UTARA	Lembang Karre Limbong	289.99	90.2	380.19				380.19
	Lembang Sapan Kua-Kua Paniki		35.03	35.03				35.03
	Bokin	267.53	144.47	412				412
<b>GRAND TOTAL</b>		<b>557.52</b>	<b>9,852.41</b>	<b>10,409.93</b>	<b>473.24</b>	<b>488.77</b>	<b>962.01</b>	<b>11,371.94</b>

**Social forestry schemes are the legal access of communities to manage forest areas. The ongoing consultation process with the team of the Social Forestry Acceleration Working Group (Pokja-PPS) of South Sulawesi will be ready to guard the implementation of the SF scheme at project intervention sites.** Several schemes that can be managed in intervention villages include Village Forest (HD) schemes whose management rights are imposed on village institutions for village welfare. Another scheme that can be developed is the Community Forestry (CF) scheme aimed at community empowerment. In the CF scheme, the management permit is granted to a group of local communities to utilize forests in protected forest areas and/or production forest areas. **The Regulation of the Minister of Environment and Forestry No P.83/MENLHK/SETJEN/KUM.1/10/2016 also stipulates the partnership scheme, i.e. cooperation between the local community and the forest manager, the holder of forest utilization/forest service license, concession of forest area or holder of industry permit for primary forest products.**

**One of the permits for forest area utilization in social forestry scheme is by applying agroforestry pattern.** The study of growth conformity analysis and the application of agroforestry is consulted to experts belonging to the Center for Research and Development of Natural Heritage, Biodiversity and Climate Change, Hasanuddin University, who proposed on the project scheme that there are several agroforestry systems that can be applied, i.e. agrisilviculture system and complex agroforestry system. Implementation of the system is supported with the existing condition in each project location.

**Improving coastal governance and carrying capacity in support of climate change adaptation at the downstream of Saddang Watershed** is directed at strengthening the capacity of communities in action to respond to climate change. Stakeholders of the Saddang Watershed ecosystem can be consulted through Saddang Watershed Management Center (BPDAS), Natural Resources Conservation Center (BKSDA). In the downstream area of Saddang Watershed there are 10,681.99 Ha of critical areas in the intervention villages. In disaster-prone areas, rehabilitation programs will be undertaken. The ongoing coordination process will involve provincial forestry service, district government to village level government. **In consultation with Marine and Fisheries Office of Pinrang District**, it was known that seaweed production in the last 5 years is still not able to reach the targeted value by the government. Seaweed developed in South Sulawesi by the cultivator consists of 2 (two) types, i.e. *Eucheuma* spp and *Gracillaria* spp.

**Strengthening the institutional system and capacity to reduce climate risk including socio-economic and environmental degradation** begins with the creation of a Working Group on Climate Change Adaptation (POKJA-API). The POKJA-API team is an early stage of local community coordination related to sustainable development planning. Each coordination and consultation is directed to the planning stages discussed and budgeted Regional Development Planning Agency (BAPPEDA), Ministry of Environment and Forestry (KLHK), regional Environmental Agency (BLHD) and several regional device work units (SKPD) and relevant local government units to the Saddang Watershed ecosystem. The participatory approach and two-way communication pattern will explore and identify specifically vulnerable groups and their issues. The results will be integrated into the program and have monitoring and evaluation indicators, and separate portions. In the context of environmental studies, technological science, especially climate and disaster studies and other environmental studies, the project will involve the Center for Research and Development of Natural Heritage, Biodiversity and Climate Change, Hasanuddin University.

**Strengthening the capacity and support of stakeholders through knowledge management** will involve academics as experts in documenting each activity undertaken within the Saddang Watershed ecosystem which is presented in a publishable form. During project implementation, consultation is still implemented to the **Meteorology, Climatology and Geophysics Agency (BMKG) of South Sulawesi Province** on the platform of early warning applications. This application will become a warning for potential disaster that will occur.





Figure 18. Consultation Process in Government Agency



Figure 17. Consultation Process with Women's Group in Tana Toraja District

In the context of marketing studies, **market assessment will include a process of identifying potential buyers, who will become market partners of processed products from both upstream and downstream of watershed.** The stage of identification, analysis, until the efforts to strengthen marketing network is conducted in a participatory way, involving the community who will become entrepreneurs in each commodity managed. This stage will also involve experts as expert consultants in each area of expertise based on commodity products to be sold. In addition, there will be a product-marketing workshop to strengthen the market network, as well as to exhibit the creative products of the community in order to attract potential buyers. Furthermore, there will be a process of hearing to potential market partners, which will be accompanied until the cooperation is established in the form of MoU with market partners to ensure the establishment and maintenance of marketing network for the products. In an effort to strengthen the marketing of creative business products from coastal resources in the form of processed seaweed products, the project will involve seaweed experts as expert consultants to improve product quality to strengthen marketing network.

**In addition, a multistakeholder engagement process continues, one of which was through a Workshop: "Climate Change Impacts"** on 3-4 July 2018. This activity was conducted with the aim of sharpening ideas to be achieved through Climate Change Adaptation project involving all community stakeholders from the Saddang Watershed ecosystem community **in participatory manner**, at village, district and provincial level, as well as at the relevant Ministry of Environment and Forestry such as BPSKL of Sulawesi Region, BPDAS-HL Jeneberang Saddang, BPPIKHL of Sulawesi Region.

The results obtained from the Workshop underscored the importance of climate change adaptation in Saddang Watershed. This is due to the impact of climate change in the upstream of Saddang Watershed has been greatly felt by the community, marked by the increase of river water discharge to floods due to rain even though for only two days. In addition, when the dry season comes even though only for two weeks, it reduces the water flow significantly. For downstream communities, they have great concerns when water level rises upstream. In addition to the impact on increasing sedimentation in the coastal areas, it also poses threat of damaged dam in Pinrang District. If the dam is destroyed, it could drown thousands of hectares of rice fields in some of the largest rice supplier districts in South Sulawesi, one of which is Pinrang District. In the ongoing discussions, **the unity of understanding was obtained that the impacts of climate change must be able to be addressed jointly from site level to provincial policy and budget levels.**





Figure 19. Discussion Process Involving Communities, Local Government Agencies and Provincial Governments

The role of Government, NGOs and Communities was the focus of discussion in the activity. This can be seen in the following table:

Government	NGOs	Communities
Inventorying sectors and regions in vulnerable areas affected by climate change	Initiating project proposals that encourage community independence in climate change adaptation	Participating in maintaining and preserving local wisdom
Developing adaptation strategies and priority programs for addressing climate change impacts and putting them into planning documents (RPJP, RPJM, Renstra, Renja)	Developing training programs for capacity building in climate change adaptation	Taking an active role in any climate change adaptation activities undertaken by government and NGOs
Strengthening the budget on climate change adaptation programs	Advocating and engaging provincial, district and village governments in guarding the alignment of climate change adaptation programs	Implementing changes in income generating efforts by maintaining environmental sustainability
Improving coordination and cooperation between regions and related agencies in the region in order to overcome the impacts of climate change	Establishing cooperation with relevant governments on environment and climate change as outlined in a legally binding form of cooperation	Increasing awareness on climate change impacts
Strengthening facilities and infrastructure to support climate change adaptation program	Serving as facilitator and catalyst in community's independence to face the impact of climate change	Acting wisely in consuming resources in order to maintain environmental sustainability

## J. Justification for Funding Requested

Provide justification for funding requested, focusing on the full cost of adaptation reasoning.

This project intervenes forest and coastal areas, to policy reforms as they key components that will be intervened in efforts to improve climate change adaptation in Saddang Watershed ecosystem. In terms of biophysics, topography and the large and scattered investment areas, the support of AF in the form of grant funds will greatly help achieve the planned project objectives. The funds will be

allocated to all major project activities to realize climate change adaptation actions in the Saddang Watershed ecosystem.

No.	Program Component	Baseline	Additionally (with AF)
1	Strengthening Social Forestry in pushing for forest food in the Upstream of Saddang Watershed	Lack of socio-forestry concept in encouraging forest food in the Upstream of Saddang Watershed	<ol style="list-style-type: none"> <li>1. Proposed IUP and strengthening of social forestry schemes in 5,000 ha of forest area</li> <li>2. Establishment of 10 institutions/groups in the Social Forestry Scheme and increased capacity to support climate change adaptation</li> <li>3. Increased people's income through the development of forest food business</li> </ol>
		<p>Measurement :</p> <ul style="list-style-type: none"> <li>- The number of group business strengthening programs comes from advocacy and project assistance to the Regional and Village Governments from the start of the project to the end of the project. Regional and village planning documentation (RPJMD / RESTRA / RENJA / APDES / RKPDESA) in which climate change adaptation programs have been internalized can take the form of capacity building training, modernization and addition of environmentally friendly production equipment, facilitation of experts, technical guidance, improvement of supporting facilities and infrastructure, post-harvest processing, packaging up to capital stability.</li> <li>- The number of group programs made based on their own initiative and assistance during the project period.</li> <li>- Number of group planning documents in the medium and long term: RKU and HKM / HD RKT made through mentoring and facilitation processes. Programs and business plans are specifically identified in institutional governance, and group business.</li> <li>- Number of forms of food diversification of groups that are ready to sell</li> </ul>	
2	Improving coastal governance and carrying capacity in support of climate change adaptation downstream of Saddang Watershed	The underdeveloped Saddang Watershed management will trigger continuous disaster	<ol style="list-style-type: none"> <li>1. Rehabilitation of 1.2 km of land and coastal areas</li> <li>2. Establishment and functioning of 5 KPPIs</li> </ol>
		<p>Measurement :</p> <ul style="list-style-type: none"> <li>- Number of business strengthening programs and improvement of coastal ecosystems that come from advocacy and project assistance to Regional and Village Governments from the start of the project to the end of the project. Regional and village planning documentation (RPJMD / RESTRA / RENJA / APDES / RKPDESA) in which climate change adaptation programs have been internalized can be in the form of planting / coastal rehabilitation, capacity building training, modernization and addition of environmentally friendly production equipment, expert facilitation, technical guidance, improvement supporting facilities and infrastructure, post-harvest processing, packaging up to capital stability.</li> <li>- The number of group programs made based on their own initiative and assistance during the project period.</li> <li>- Number of forms of food diversification of groups that are ready to sell</li> </ul>	
3	Strengthening institutional system and capacity to reduce climate risk including socio-economic and environmental degradation	<ol style="list-style-type: none"> <li>1. Weak institutional system and capacity to reduce climate risk including socio-economic and environmental degradation</li> <li>2. Absence of integrated national action plans for</li> </ol>	<ol style="list-style-type: none"> <li>1. 1 adaptation monitoring application system is used to support policy implementation</li> <li>2. 1 Decree of POKJA-API for South Sulawesi Scope</li> </ol> <ol style="list-style-type: none"> <li>1. 3 policy products that support</li> </ol>

No.	Program Component	Baseline	Additionally (with AF)
		climate change adaptation to the extent of explicit technical actions in the region	2. climate change adaptation 2 regional planning documents that have internalized RAN API
		Measurement: - Number of supporting facilities and infrastructure for the monitoring system prepared by the local government for monitoring systems and EWS - Number of people assigned to become monitoring system operators and EWS - Number of regional planning / policy documents which include issues on climate change adaptation as a result of advocacy and local government funding.	
4	Strengthening capacity and support of stakeholders through knowledge management	Public awareness of climate change threats is very low, in the absence of publications	Filming, video, books and other campaign media
		Measurement: - Number of knowledge management products made and published during the project period - Number of people who have increased their capacity from capacity building activities during the project period. - Number of participants coming from universities and the private sector involved / participating in the project period.	

**Component 1:** Without support from AF, **the implantation of the Social Forestry Scheme in the target area will be difficult to achieve** by looking at the achievements of the government and the district to date, and the internalization of the social forestry model in encouraging forest food will not occur. Constraints in the scaling up of the Social Forestry scheme are among others the size of the communication gap, the lack of good biophysical information, budget, the capacity of the stakeholders and the socio-economic conditions in the target areas, resulting in **the lack of social forestry schemes**. With funding from AF, opportunities for Social Forestry will be more visible and can increase people's income through the development of forest food, with a plus value of being able to internalize forest food in sustainable forest governance which will create a much better management of the upstream of Saddang Watershed. Funds will be allocated to each set of activities to achieve the big goals of 5,000 ha of social forestry schemes and the establishment of 10 social forestry groups. Assessment, biophysical and socioeconomic cultural surveys, and mapping are conducted to enrich information resources in climate change adaptation planning. Meanwhile, institutional capacity building activities are carried out to ensure that the plan will be implemented in accordance with expectations and continue to run in the assigned corridor.

**Component 2:** Without support from AF, the suboptimal downstream management of Saddang Watershed will trigger **the occurrence of continuous disaster**. With the support of funds from AF, the upstream coastal management of the watershed will be oriented towards the improvement and enhancement of environmental capacity, and empowerment of downstream communities who are heavily affected by climate change, so that ultimately there will be no increase of potential risks that will occur due to climate change in the downstream area of Saddang Watershed. The formation and **strengthening of the Climate Change Care Group (KPPI)** will be the driving force in efforts to enhance coastal governance and carrying capacity to promote climate change adaptation downstream of Saddang Watershed.

**Component 3:** Without the realization of the project from AF support, the realization of the implementation of adaptation plans at the local level will not work by looking at the **weak institutional system and capacity** to reduce climate risk including socio-economic and environmental degradation. And **the absence of integrated national climate change adaptation action plans** to region regarding explicit technical actions. With funding support from AF, the sustainability of adaptation plans for the Saddang Watershed ecosystem area will be ensured. Capacity building, and involvement of experts in the **formation of POKJA-API** in ensuring the

realization of local climate change adaptation actions will contribute to sustainability of adaptation efforts in each region of the Saddang Watershed ecosystem, as well as some **policy products** that support climate change adaptation.

**Component 4:** Without support from AF, the process of dissemination, knowledge management and systematic learning in support of previous activity will not work optimally. **The level of public awareness of climate change threats will remain at a low level, with no publication of this project.** AF support for **film, video, books and other campaign media** production is a dissemination effort to ensure program alignment and expand the scope of benefits from the adaptation program.

## K. Sustainability

Describe how the sustainability of the project / programme outcomes has been taken into account when designing the project / programme.

No.	Program Component	Sustainability Purpose	Treatment or Planning
1	Strengthening of Social Forestry in pushing for forest food in the Upstream of Saddang Watershed	1.1 Sustainability of Social Forestry Institution 1.2 Sustainability of Sustainable Forest Management 1.3 Sustainability of Forest Food Business	- Capacity Building - Integration of Sustainable Forest Management Plans to RPJMDes/RPJMD - Asset Transfer to Social Forestry Unit - Financial Supporting - Collaborative Process
2	Improved coastal governance and carrying capacity in support of climate change adaptation downstream of Saddang Watershed	2.1 Sustainability of KPPI Institution 2.2 Sustainability of Coastal Ecosystem 2.3 Sustainability of Business Management and Food Diversification	- Capacity Building - Integration of Sustainable Forest Management Plans to RPJMDes/RPJMD - Asset Transfer to KPPI - Financial Supporting - Collaborative Process
3	Strengthening of institutional system and capacity to reduce climate risk including socio-economic and environmental degradation	3.1 Sustainability of Monitoring System 3.2 Sustainability of Climate Change Adaptation/Financing Program	- Capacity Building - Integration of RPJMD and relevant SKPD - Asset Transfer to Local Government - Collaborative Process
4	Strengthening of capacity and support of stakeholder through knowledge management	4.1 Sustainability of Knowledge Management	- Capacity Building - Integration of RPJMD and relevant SKPD - Asset Transfer to Local Government - Collaborative Process - Consortium Assistance

At the policy level, integrating adaptation plans into each of the regional development plans and encouraging the **Local Action Plans in Climate Change Adaptation into areas of project interventions that are expected to become wagons for greater climate change adaptation.** The strong element of capacity building for stakeholders, adaptation-monitoring systems built, management that have an impact on economic and environmental sustainability and lessons learned during the project period, will ensure sustainable results. A strong emphasis on monitoring and evaluation activities will ensure ongoing impact and outcomes.

Furthermore, the involvement of **local communities in decision-making is important to increase their commitment to make solutions, and to ensure responsibility after project completion.** The aim is that at the end of the project duration, the selected communities/groups will be able to **adapt to climate change independently, supported by an open and participatory government.** Here are the main elements in the sustainability of the project to be achieved:

### 1. Financial Sustainability

Financial Sustainability in questions the sustainability of funding from Local Governments **in promoting climate change adaptation programs even though the project is over**, as well as the sustainability of beneficiaries' finance **from forest food and creative businesses from this project**. Funding in favor of climate change adaptation programs will be encouraged through POKJA and District or Provincial Regulations, so that the relevant Local Government Units (SKPD) have legal umbrella in implementing strategic programs and climate change adaptation action programs. Financial sustainability at the level of beneficiaries will be done through the use of technology in processing the results, improving the financial and business management capacity and connecting the processed products to the appropriate market, while prioritizing gender mainstreaming. Aside from that, businesses of forest food pattern to be encouraged will benefit from the local wisdom of Toraja tribe, "Kuang & Alang", or in brief, we know it as "integrated farming" which has been described previously in the socio-economic context.

### 2. Institutional Sustainability

**Institutional sustainability is undertaken by forming climate change care groups and social forestry groups**, in which the cadres involved are vulnerable or other target communities that have been strengthened by capacity in institutional governance. Active community engagement with the collaborative process model, as a manager in the institutional sub-system is an adaptive effort in ensuring managed institutions that will support the achievement of long-term climate change adaptation. In addition, the presence of POKJA-API with the support of several other policies can make POKJA-WPI work continuously even though this project has been completed.

### 3. System Sustainability

**The availability of monitoring systems in climate change adaptation programs** encouraged through Partnership funding will continue and be used by POKJA-API and the wider community. It will also be related to the knowledge management in order to strengthen project sustainability. In the initial phase, the regional government must prepare the supporting infrastructure for the system such as: server room, electricity, and internet access. As for the continuity of the EWS System, the regional government will be encouraged to prepare operators and operational, maintenance and maintenance costs. It will be communicated verbally beforehand and a formal legal letter will be made, that the regional government will treat and operationalize it as it should.

## L. Environmental and Social Impact and Risk

Provide an overview of the environmental and social impacts and risks identified as being relevant to the project / programme

Checklist of environmental and social principles	No further assessment required for compliance	Potential impacts and risks – further assessment and management required for compliance
<i>Compliance with the Law</i>		√
<i>Access and Equity</i>	√	
<i>Marginalized and Vulnerable Groups</i>	√	
<i>Human Rights</i>	√	
<i>Gender Equity and Women's Empowerment</i>	√	
<i>Core Labor Rights</i>	√	

<i>Indigenous Peoples</i>	√	
<i>Involuntary Resettlement</i>	√	
<i>Protection of Natural Habitats</i>	√	
<i>Conservation of Biological Diversity</i>	√	
<i>Climate Change</i>	√	
<i>Pollution Prevention and Resource Efficiency</i>	√	
<i>Public Health</i>	√	
<i>Physical and Cultural Heritage</i>	√	
<i>Lands and Soil Conservation</i>	√	

The following explains the potential impacts and risks to the various outputs of program activities:

Table 8. Program output and identification of trigger for social and environmental impacts

Output		Trigger of 15 Principles (Yes/No)	Description
Output 1.1.1.	Legal access for Community Forest, Forest Village Scheme, or Partnership Scheme	Principle 1	Legal access of 5,000 ha through a social forestry scheme relates to compliance with government regulations on social forestry set forth in <b>PERMENLHK No.83/2016</b> regarding Social Forestry. <b>This is in line with Principle of the ESP document in respect of compliance with applicable law.</b> To that end, <b>IE (the program implementer) will comply with all applicable procedures from the planning and preparation phase of the document, the proposal to the issuance of a legal access permit.</b> Current status in the preparation phase involves identifying legal status and identifying all requirements in the proposed documents of social forestry schemes and planning alternative social forestry schemes to be pursued.
Output 1.1.2.	Increased forest cover	No triggers	In achieving this output, all activities <b>do not have an impact on the overall principles</b> that exist because basically this activity focuses on achieving 70% growing seeds out of the total planted
Output 1.2.1.	Increased capacity of escort and local communities in the scheme of Social Forestry	No triggers	In the effort to increase the capacity of the community to involve the direct beneficiaries of vulnerable and marginalized groups, <b>no impact will be detrimental to marginalized communities, instead it will accommodate the involvement of all beneficiaries in planning, implementing and monitoring activities related to social forestry.</b> It indicates that <b>there is no trigger against the whole principles of the ESP mentioned.</b>
Output 1.2.2.	Increased capacity of stakeholders in sustainable forest management	No triggers	Capacity building of 50 stakeholders <b>will not trigger any ESP principles.</b>
Output 1.2.3.	Increased stakeholders involved in order to support of the Social Forestry scheme	No triggers	This activity will be achieved by involving stakeholder participation through MoU support on social forestry schemes. <b>This activity will not trigger any principle on ESP.</b>



Output		Trigger of 15 Principles (Yes/No)	Description
Output 1.3.1.	Increased skills of Forest Farmers, Women and Vulnerable Groups in Managing Sustainable Forest	No triggers	<b>This activity does not trigger the entire ESP principals</b> because it is related to capacity building through training that will involve as many as 250 people including forest farmer, women and vulnerable groups.
Output 1.3.2.	Availability of infrastructure, processing technology of forests-food	No triggers	10 units of forest food processing facilities that will be built <b>will not trigger any ESP principles</b> because in addition to the small amount and capacity, all components of technology and infrastructure are included in the environmentally friendly category.
Output 1.3.3.	Absorbed forest food products to market	No triggers	In achieving this output, all activities <b>have no impact on the overall principles</b> that exist because basically these activities focus on the sales activities of the targeted food products, which is sold 2 types of forest food products.
Output 2.1.1.	Concern Group on Climate Change (KPPI) is created as a mover in the village and sub-district level.	No triggers	The establishment of 5 KPPIs in each village will have a positive impact and <b>will not impact any ESP principles</b> .
Output 2.1.2.	Increased capacity and skills KPPI as well as the stakeholders in the improvement of governance and the carrying capacity of the downstream coastal watershed	No triggers	<b>This activity will not have any impact on ESP principles.</b> This activity is related to capacity building of 60 people in the improvement of coastal governance and carrying capacity.
Output 2.1.3.	Rehabilitation of coastal areas in the downstream of Saddang watershed	No triggers	In project implementation, <b>all activities will not have any impact, especially on soil damage and other activities that could lead to land loss and land degradation</b> , so no further assessment of compliance on other principles is required.
Output 2.2.1.	KKPI skills enhancement, women and vulnerable groups in the development and diversification of household enterprises	No triggers	<b>This activity will not have any impact on ESP principles.</b> This activity is related to trainings to build capacity of 150 people in the development of creative business and food diversification.
Output 2.2.2.	Infrastructure technologies are available in encouraging household enterprises and diversification	No triggers	5 units of household-scale processing equipment used in creative business and food diversification <b>will not have any impact on all ESP principles</b> .
Output 2.2.3.	Connect marketing for household enterprises and food diversification	No triggers	Building a marketing network for creative businesses and food diversification <b>will also have no impact on all ESP principles</b> .
Output 3.1.1.	Team on Climate Change Adaptation Working Group (Working Group-API) has been formed	No triggers	The formation of POKJA-API Team for the scope of South Sulawesi <b>will not have any impact on all ESP principles</b> .
Output 3.1.2.	Internalized the Action Plan on Climate Change	No triggers	Preparation of 2 regional planning documents that are internalized with RAN API <b>will not</b>

Output		Trigger of 15 Principles (Yes/No)	Description
	Adaptation in Local Government policies, as well as their planning documents local level adaptation action plans		have any impact on all ESP principles.
Output 3.1.3.	Climate Change Adaptation monitoring systems that support the strengthening of policies implemented stakeholders	No triggers	This activity is related to the creation of 1 adaptation monitoring application system used to support policy implementation that generally <b>will not impact any ESP principle</b> .
Output 4.1.1.	Disseminating best practice and lesson learn among all programs stakeholder at local and national level	No triggers	Filming; lessons learned/best practice book; journal; leaflet/poster/banner and digital media <b>will not impact any ESP principle</b> .
Output 4.1.2.	Existing platform for Climate Change Adaptation early warning system for Saddang Watershed Ecosystem Communities	No triggers	The creation of an early warning system platform application <b>will have no impact on all ESP principles</b> .

In general, the conclusions can be seen in the following explanation:

#### **Principle 1. Compliance with Law**

The Implementing Entities will ensure that all activities comply with the law, and in principle IE will ensure that all licensing components are to be implemented in compliance with applicable law. Especially in ensuring legal access to social forestry. The licensing scheme that will be pursued through the social forestry scheme is based on the prevailing government regulation, PERMENLHK No.83/2016 on Social Forestry and other related policies. The current status is in the preparation phase, identification of legal status, and identification of all requirements in the proposed documents of social forestry schemes and planning the social forestry scheme to be pursued.

#### **Principle 2. Access and Equity**

This project/program does not impede access to basic health services, clean water and sanitation, energy, education, housing, safe and proper working conditions and land rights. The project also does not exacerbate existing injustices, particularly with respect to marginalized or vulnerable groups. The project has been designed in a way that would not impede the access of any group to the services and important rights mentioned in the Principle so that it does not require any further assessment on compliance.

#### **Principle 3: Marginal and Vulnerable Groups**

The project does not have a disproportionately negative impact on marginalized and vulnerable groups including children, women and children, parents, indigenous peoples, ethnic groups, refugees, and intellectually disabled persons (people with disabilities). In fact, the various project activities will involve the majority of beneficiaries who are from marginalized and vulnerable groups.

#### **Principle 4: Human Rights**

The project/program should respect and if possible promote international human rights. The promotion of human rights in the project/program will be achieved by creating awareness with everyone involved in project/program operations, including design, implementation, monitoring and evaluation, regarding the Universal Declaration of Human Rights as the overall principle of project implementation.



**Principle 5: Gender Equality and Women's Empowerment**

This project/program has been designed in such a way that women and men have equal opportunity to participate in accordance with gender policy and receive comparable social and economic benefits. The project will actively involve equal participation in project/program activities and stakeholder consultations. The project also ensures that positions in the project/program are effectively accessed by men and women, and that women are encouraged to implement and take positions, which in essence, the design and implementation of the project/program will ensure equal access to both male and female beneficiaries.

**Principle 6: The Rights of Core Workers.**

This project/program meets core labor standards as identified by the International Labor Organization. The ILO's core labor standards are contained in the LO's Declaration of Principles and Fundamental Rights in 1998. The Declaration includes four fundamental principles and rights, developed further in eight human rights conventions:

- Freedom of association and protection of the right to organize and collective bargaining convention (ILO convention 87 and 98);
- Abolition of forced labor convention (ILO convention 29 and 105);
- Worst forms of child labor convention (ILO convention 138 and 182);
- Discrimination (employment and occupation) convention (ILO convention 100 and 111).

The project/program will incorporate the ILO's core labor standards in the design and implementation of the project/program and create awareness with all involved on how the standard is implemented. The whole programming is not related to violations of core labor rights.

**Principle 7: Indigenous Peoples**

The project is not related to Indigenous Peoples or the Rights of Indigenous Peoples and other international instruments applicable to indigenous peoples. The project also does not concern involvement of indigenous people in the design and implementation of the project/program so that it does not require any further assessment on compliance.

**Principle 8. Involuntary Resettlement**

The project is not subject to resettlement or relocation or loss of shelter and or economic displacement (loss of assets or access to assets that result in loss of income or other means of subsistence) so that no further assessment is required on compliance.

**Principle 9: Natural Habitat Protection**

This project is not subject to the conversion or relation of unjustifiable critical habitat degradation, including those protected by law so as not to require further assessments on compliance.

**Principle 10: Biodiversity Conversion**

This project is not related to activities that impact on the reduction of loss of biodiversity or the introduction of known invasive species or unjustifiable and thus require no further assessment of compliance. Precisely this activity will encourage efforts to conserve biodiversity through the cultivation of forest food crops.

**Principle 11: Climate Change**

The project will not result in an increase in greenhouse gas emissions or other climate change divers so it does not require further assessment on compliance.

**Principle 12: Pollution Prevention and Resource Efficiency**

The project is not focused on waste production and release of pollutants (including greenhouse gases) so as not to require further assessments for compliance.

**Principle 13: Public Health**

The project is not focused on activities related to efforts to avoid significant negative impacts on public health, access to medical care and health facilities so that it does not require further assessment of compliance.

**Principle 14: Physical and Cultural Heritage**

The project is also not subject to efforts to alter, destruct or delete physical cultural resources, cultural sites and locations with unique nature such as at the community, national or international levels that are World Cultural and Natural Heritage so no further assessment on compliance is needed.

**Principle 15: Soil and Land Conversation**

In project implementation, all activities will not have any impact on soil damage and other activities that could lead to land loss and land degradation, so no further assessment of compliance is required.

## PART III: IMPLEMENTATION ARRANGEMENTS

### A. Arrangements for Project Implementation

Describe the arrangements for project / programme management at the regional and national level, including coordination arrangements within countries and among them. Describe how the potential to partner with national institutions, and when possible, national implementing entities (NIEs), has been considered, and included in the management arrangements.

*The Climate Change and Environmental Adaptation Consortium (Konsorsium Adaptasi Perubahan Iklim dan Lingkungan/KAPABEL)* consists of 5 organizations including: (1) *Community Forest Service Team (Tim Layanan Kehutanan Masyarakat/TLKM)* Foundation, as Lead Consortium, and Consortium members: (2) Natural Heritage, Biodiversity and Climate Change, (3) AKU Foundations, (4) Kanopi Hijau – Enrekang, (5) Bumi Lestari - Pinrang. The Community Forestry Service Team (Tim Layanan Kehutanan Masyarakat/TLKM) is an institution engaged in sustainable natural resource management, which has been established since 2010, certified by a notary institution in 2011, and incorporated as a foundation in 2017. Since 2010, TLKM has been involved in issues of social forestry and natural resource management sustainability (Bantaeng, Maros, Sinjai, Gowa, Enrekang, Toraja and Barru), conflict forest issues, especially in Bantimurung Bulusarung National Park, Maros District, and particularly related studies of disaster around forest areas (Enrekang, Toraja, North Toraja, Pinrang, and Mamasa). With the motto “CommuniversiTY For Sustainable Forest”, TLKM has been a successful initiator and played a major role in the Mamuju Community-Based Natural Resource Consortium (PSDABM-M) in the Millennium Challenge Account Indonesia (MCAI-I) Window II program in West Sulawesi Province with total budget managed of ±\$750.000. Several TLKM partners at national and international levels today include: Recoft, MCAI, Shamdana Institute, Community Forestry Communication Form (Forum Komunikasi Kehutanan Masyarakat/FKKM), Sulawesi Community Foundation (SCF), Perkumpulan Inisiatif, and WWF.

The project component will ensure that gender mainstreaming is implemented effectively from the planning stage to the implementation stage, and ensures gender responsive sustainability even after the project is completed. In this project, it highly respects the gender competencies of PMU. In the staff selection process, the program will include adequate gender understanding as criteria for selecting team members. The team will be assessed for gender related competencies. Furthermore, to improve their understanding of gender issues and understand the content of the project component, workshops and training sessions will be conducted for each facilitator that supports PMU's performance during the program planning phase. From the workshop, it is expected that staff will be equipped with adequate knowledge about the consideration of gender mainstreaming in the program and adequate capacity to support the implementation of gender responsive programs.

The Consortium pattern will be governed through the PMU (Project Management Unit) Structure where the structure will be established in accordance with program needs. Furthermore, each member of the consortium will fill in accordance with its capacity and required criteria. In addition, strategic policies will be taken at the Steering Committee level where all institutions have a steering committee member who is not involved in the project implementation structure. This is to avoid conflict of interest, especially on the people involved in the project implementation.

The Steering Committee (SC) will oversee the entire program implementation to ensure that the facilities and mechanisms have run the program effectively so as to achieve the desired results, while also representing the voices of stakeholders who are not directly responsible for the project. In the process of running the project, SC will provide technical guidance for each PMU for the implementation of the program, including guidance on the policy advocacy process at the national level. The frequency of meetings will be scheduled for each quarter of the activity. Figure 20 the Institutional Structure for the Program will illustrate, including the Project Management Structure of the PMU

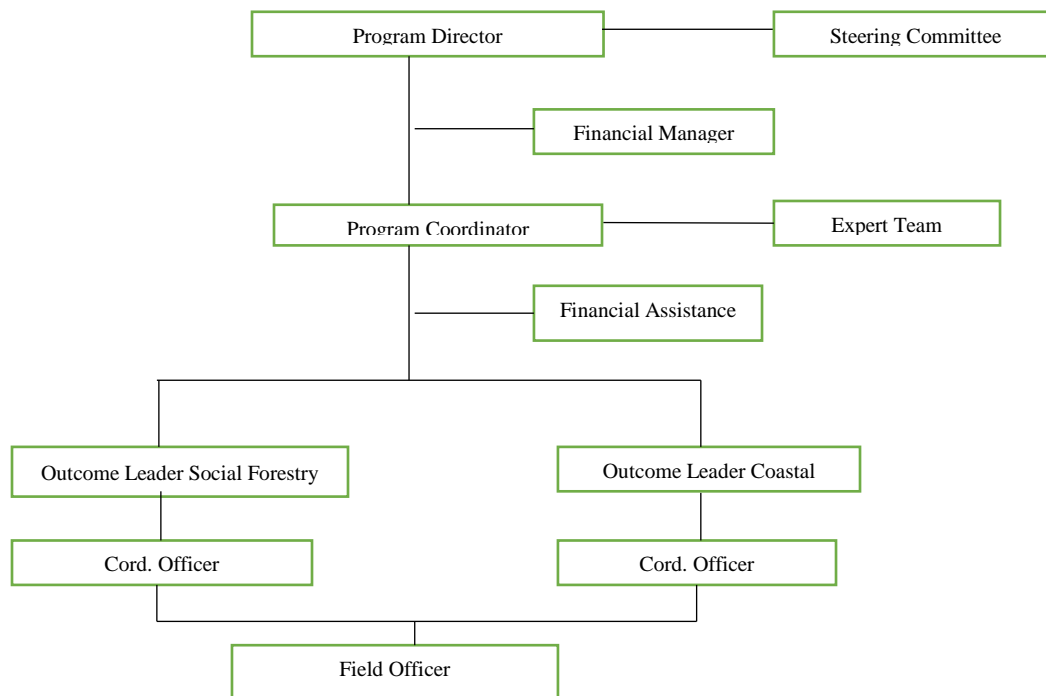


Figure 20. Project Management Unit (PMU) Structure

PMU is led by the Program Coordinator responsible to the NIE. In delivering work progress, the Program Coordinator will be assisted by a Downstream Program Manager, Upstream Program Manager, Downstream Program Officer, Upstream Program Officer, Financial Assistant and village assistants. The Project Coordinator is responsible for ensuring that the project activities in the targeted villages are running. PMs, POs, Village Assistants are responsible for the implementation of activities in each targeted area, and they will report to the Project Coordinator and will be assisted by the Financial Assistant who will handle the administrative and financial issues at the local level, while the Finance Manager is responsible for the financial issues in the overall project activity.

In conducting its work, the PMU will receive technical assistance from a group of experts from different backgrounds and expertise including: Forest and Environmental Management Specialist, monitoring & Evaluation Specialist, Social gender Specialist, Food and Diversification Specialist, and Climate Change Spatial Adaptation Specialist. These experts will provide inputs for technical inputs in other relevant programs at both the provincial and district levels: Agriculture and Food Crops Office, BAPPELITBANGDA, Forestry Office, KPH, Environment Office, Social Affairs Office, Fisheries and Marine Office, Universities, Regional Disaster Management Agency, Health Office, Cooperative and Industry Office, and Education and Culture Office. All relevant agencies will be incorporated into TIM POKJA API at the district level, and in addition there are several capacity building activities related to climate change adaptation, both from technical point of view, preparation of action plan, and monitoring and supervision system. Aside from that, the support of social media to blow up issue of climate change adaptation will encourage the alignment and enthusiasm of the parties involved.

With Kemitraan as the National Implementing Entity, if possible, Kemitraan will also be included in TIM POKJA API to ensure that the direction of policy, program and action plan in the project are in accordance with the target at the National Implementing Entity level. The pattern of coordination, reporting, monev will of course be conducted regularly with the National Implementing Entity. To facilitate communication flow and mutual strengthening, the implementation team will specially make a mailing list and a WA group.

## B. Financial and Project Risk Management

Describe the measures for financial and project / programme risk management.

All risks in project implementation are analyzed during the design phase with the participation of all relevant stakeholders. A mitigation strategy is established to ensure that the risk is well managed. The table below presents the types of risks, description of risk and risk level and the strategies that have been and will be done to minimize them.

Type of Risk	Description of Risk	Risk category (H/M/L)	Risk Mitigation Strategy
Institutional	Weak commitment built by project implementers with central/provincial/local government due to changes in government structure and lack of coordination and communication.	Medium	This project has a specific work component of community strengthening, so that the change of government structure has no major impact on the direct beneficiaries of the project. To ensure project achievement will be achieved, the PMU will continue to build active coordination and communication with the local government.
	Changes in project personnel can affect the availability of qualified staff	Low	In establishing working relationships with the PMU, the Consortium implements a recruitment system with output of work contracts during the project. With this mechanism, the personnel attachment with the consortium in achieving the project goal will be the legal basis.
Financial	Delays in disbursement of funds, procurement and institutional efficiency (long approval process and others) that delay project implementation.	Medium	Building active communication with the grantor and fulfilling all forms of financial procedures in budget disbursement. The roles and responsibilities of the Community for Sustainable Forest Foundation (TLKM Foundation) as a consortium lead to anticipate if at any time a delay in disbursement of funds can hamper the course of activities through the pre fund.
Social	Lack of community (direct beneficiaries) support to the project	Medium	<ul style="list-style-type: none"> <li>Building good relationships with local government (village level), community and the community leaders (direct beneficiaries) before the project starts</li> <li>The formation of groups at the village level can gather all people/levels that are in target community</li> <li>Utilization of activities in the form of training/workshops/group discussions to provide understanding of the project</li> </ul>
	Communities are less aware of climate change and have lack of enthusiasm to respond to disasters. If beneficiaries are not fully aware of the impacts of climate change, it is difficult to	Low	This project will implement and introduce participatory methods to the communities so that they can be provided with understanding on the impacts of climate change. In addition, the mentoring process will

Type of Risk	Description of Risk	Risk category (H/M/L)	Risk Mitigation Strategy
	gain their commitment in forest food development and climate change adaptation		be undertaken at the village level by utilizing field facilitators in each of the project target village.
	Conflict of community interest in land use by PMI in nursery development	Medium	This project will build trust with stakeholders in the utilization of nursery land. In addition, it will create land use mechanisms for the development of nursery that can be the basis of the PMU in selecting or determining nursery development lands.
	Low technical knowledge of farmers and communities to use modern forest food mining technology.	Low	This project will provide technical support to project beneficiaries in the use of forest food development technologies in the form of training, counseling and discussion room to transfer knowledge.

### C. Environmental and Social Risk Management

Describe the measures for environmental and social risk management, in line with the Environmental and Social Policy of the Adaptation Fund.

Project/program preparation has identified environmental or social risks, where the proposal should include environmental and social management plans that identify actions necessary to avoid, minimize, or mitigate potential environmental and social risks. The table below describes the environmental and social risk management, in accordance with the Adaptation Fund's Environmental and Social Policy.

Table 9. Environmental and Social Management Plan

Environmental and Social Principles	Description of Risks	Risk category (H/M/L)	Risk Mitigation Strategy
<i>Compliance with the Law</i>	Political dynamics in 2018-2019 resulting in weak commitment that has been built together with PMU from the local/provincial/central government	Medium	This project has activity component that can be used as a space in building follow-up communication to local/provincial/central government concerning matters which has become an agreement in the realization of the project.
	Conflicts on the use of land that will become social forest areas in the community	Medium	This project has a space in the activity that will identify the prospective community and the land that becomes the area of legal access to social forestry scheme
	Low technical knowledge of farmers and communities in legal access to social forestry	Medium	This project is full of village and group level facilitation throughout the project, so the facilitator

Environmental and Social Principles	Description of Risks	Risk category (H/M/L)	Risk Mitigation Strategy
			has room to provide assistance in handling legal access to social forestry

## D. Monitoring and Evaluation

Describe the monitoring and evaluation arrangements and provide a budgeted M&E plan.

In a project management cycle, monitoring and evaluation is an integral part of achieving the objectives of the program/project implementation. Monitoring and Evaluation will provide the information **needed to assess and guide the project strategy, to ensure effectiveness, to meet the needs of reporting requirements and to inform future planning**. M&E as an integral part of the Project management cycle is described as follow:

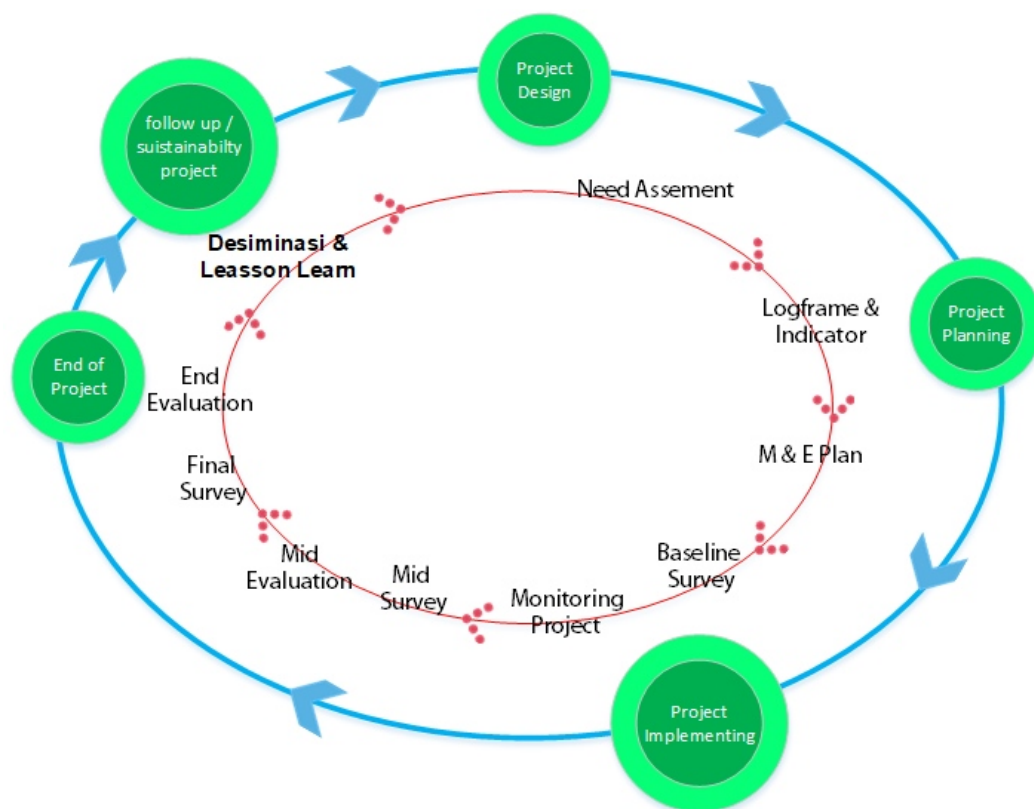


Figure 21. Monitoring Evaluation in Project Cycle

Monitoring is defined as a routine observation and recording of activities occurring within a program. This is a routine process of gathering information on all aspects of the program. To get an overview of the progress of the program implementation and ensure that the information obtained is used and useful both for the program implementation and other stakeholders. The monitoring and evaluation plan is prepared taking into account the Program Context, Institutional Capacity, Information Needs and Grant Requirements.

In this Program, Monitoring will be conducted by the money expert responsible for monitoring evaluation. Monitoring will be carried out in 1-month, 3-month, 6-month and mid-program stage to see the process (activity) and program outcomes (Output, Outcome) as planned. Monitoring is done using Document Review method, Field Survey, Interview or Discussion of the parties. Monitoring is directed to see Efficiency, Effectiveness and Results.

The results of monitoring and evaluation can be a learning material used for improvement or development elsewhere so the results of monitoring and evaluation obtained will be reported periodically to the relevant parties: Adaptation Fund, Kemitraan, and Stakeholders in the region.

The Monitoring and Evaluation Implementation Flow that will be implemented in this program is as described in the figure below:

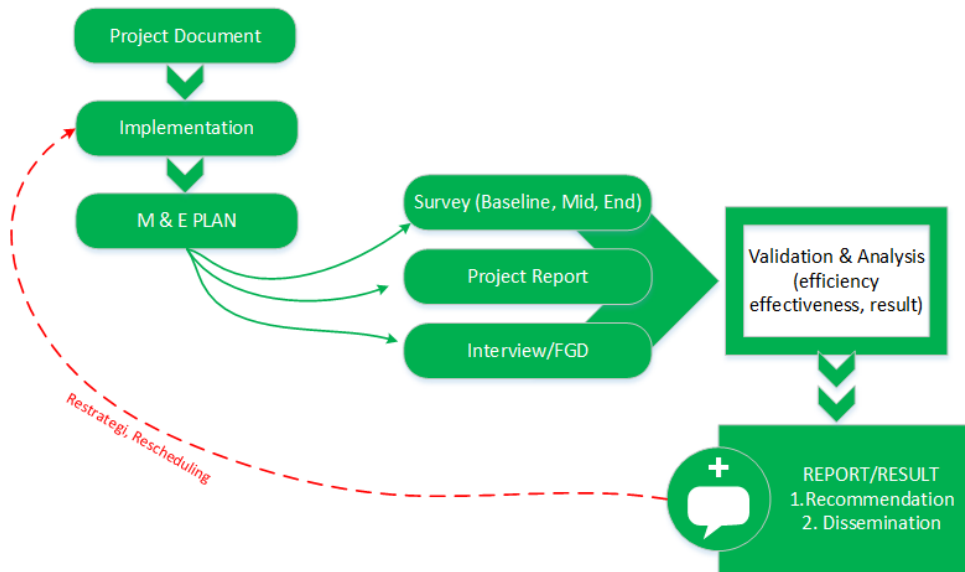


Figure 22. Monitoring and Evaluation Implementation Flow

From the result of validation and analysis conducted by the money expert, monitoring and evaluation reports will then be produced. The reports will take form of recommendations for strategic direction of the project, as well as some important matters to be disseminated in order to reinforce the project's achievements or increase the impact of the project.

### Monitoring and Evaluation Activities and Budget

Activities	Targets	Cost (\$)	Time
Baseline Survey	Outcome, output indicator targets	\$ 2,000	Start of Project
Mid Survey	Outcome, output indicator targets	\$ 2,000	Mid of Project
Final Project Survey	Target indicator outcome, output	\$ 2,000	End of Project
Report reviews, interviews, PMU FGD	Process, milestones, efficiency, effectiveness, results	\$ 800	1 time in a month
Money workshop	Process, milestones, efficiency, effectiveness, results	\$ 1,200	Six months
Internal Audit	Management	\$ 5,000	Annual



## Project Monitoring and Evaluation Plan

Project Results	Indicators	Target	Sort by	Monitoring Methods & Tools	Frequency	Responsibility
<b>Project Component 1. Strengthening of Social Forestry in pushing for forest food in the Upstream of Saddang Watershed which has implications for improving the environment and increasing the community's income</b>						
<b>Outcome 1.1</b> Increased extent of the Social Forestry scheme covering an area of 5,000 ha in the upstream of Saddang Watershed	5,000 ha of forest area using social forestry scheme (proposal/IUP/scheme strengthening)	Month 1-18	none	Proposal review Map review Permit/IUP review Quarterly Report review	Quarterly	Monev Expert
<b>Outcome 1.2</b> Strengthened actors and institution of Social Forestry schemes in support of climate change adaptation	10 Institutions/Groups in the Social Forestry Scheme are formed and increase their capacity to support climate change adaptation	Month 1-18	none	Quarterly Report review Review on List Of farmer/community	Quarterly	Monev Expert
<b>Outcome 1.3</b> Availability of forest food products that are ready for sale from social forestry groups	Sold 2 types of food products from the social forestry group	Month 3-17	Village/sub district gender	Baseline Survey Mid Survey Final Survey Quarterly Report review	Quarterly	Monev Expert
<b>Output Level:</b>						
1.1.1. Existing legal access to Community Forest or Village Forest	5,000 Ha of social forestry area obtaining Legal Access/reinforcement	Month 1-18	Village/sub district	Proposal review Map review Permit/IUP review Quarterly Report review	Quarterly	Monev Expert
1.1.2. Increased forest land cover	70% of seedlings grown from cultivation	Month 4-9	Forest area	Documentation Quarterly Report review	Quarterly	Monev Expert

1.2.1. Increased capacity of facilitators and local communities in Social Forestry scheme	55 people have increased capacity to encourage social forestry. (40 men and 15 women)	Month 1-18	Village/sub district gender	Activity report review	Quarterly	Monev Expert
1.2.2. Increased capacity of stakeholders in sustainable forest management.	50 people have increased capacity in sustainable forest management. (40 men and 10 women)	Month 2-4	Village/sub district gender	Activity report review Interview/FGD	Quarterly	Monev Expert
1.2.3. Increased support from the stakeholders in encouraging Social Forestry scheme	1 MoU on Social Forestry Acceleration	Month 1-18	none	Quarterly Report review	Quarterly	Monev Expert
1.3.1. Increased skills of Forest Farmer, Women and Vulnerable Group in managing sustainable forest food.	250 people from 10 Social Forestry, women and vulnerable groups have increased capacity to manage sustainable forest food	Month 3-17	Village/sub district gender	Activity report review Interview/FGD	Quarterly	Monev Expert
1.3.2. Available facilities and infrastructure of forest food processing technology	10 units of forest food processing facilities	Month 6-9	none	Activity report review Documentation Interview/FGD	Quarterly	Monev Expert
1.3.3. Absorbed forest food products to the market	The sale of two types of food products	Month 3-7	none	Activity report review Quarterly Report review	Quarterly	Monev Expert
<b>Project Component 2. Improved coastal governance and carrying capacity in support of climate change adaptation downstream of Saddang Watershed</b>						
<b>Outcome 2.1</b> Strengthened costal human resources and natural resources in the downstream of Saddang watershed in increasing coastal carrying capacity	60 people have increased capacity and 1.2 km of land and coastal areas are rehabilitated	Month 1-18	none	Quarterly report review Map review Baseline Survey Mid Survey Final Survey	Quarterly	Monev Expert
<b>Outcome 2.2</b>						

Increased community income in the downstream of Saddang Watershed through environmental friendly creative businesses and food diversification	100 people have increased income from creative businesses and food diversification	Month 1-18	none	Baseline Survey Mid Survey Final Survey Quarterly Report review	Quarterly	Monev Expert
<b>Output Level:</b>						
2.1.1. Established and running Climate Change Care Group (KPPI) as the driving force at the village and sub-district levels	5 KPPIs are established and running	Month 1-18	Village	Activity report review Interview/FGD	Quarterly	Monev Expert
2.1.2. Increased capacity and skills of KPPI and stakeholders in improving coastal governance and carrying capacity downstream of watershed	60 people have increased skills in improving coastal governance and carrying capacity (45 men and 15 women)	Month 1-18	Village Gender	Activity report review Interview/FGD	Quarterly	Monev Expert
2.1.3. Rehabilitated coastal areas downstream of Saddang Watershed	1,2 Km coastal land is rehabilitated	Month 3-10	none	Map review Documentation Quarterly Report review	Quarterly	Monev Expert
2.2.1. Improved skills of KPPI, forest farmer, women and vulnerable groups in the development of creative business and food diversification	150 people have increased capacity in development of creative business and food (105 men and 45 women)	Month 1-18	Gender	Activity report review Interview/FGD	Quarterly	Monev Expert
2.2.2 Available technology facilities and infrastructure in encouraging creative	5 units of household-scale processing tools used in creative business and food diversification	Month 5-8	none	Activity report review Documentation Interview/FGD	Quarterly	Monev Expert

business and food diversification.						
2.2.3. Existing marketing network for creative business and food diversification	2 marketing networks for creative business and food diversification	Month 9-15	none	Quarterly Report review Interview/FGD	Quarterly	Monev Expert
<b>Project Component 3. Strengthening of cross-cutting policies in ensuring the sustainability of climate change adaptation</b>						
<b>Outcome 3.1</b> Strengthened cross-cutting policies in ensuring the sustainability of climate change adaptation	3 policy products that support climate change adaptation	Month 4-15	none	Quarterly Report review	Quarterly	Monev Expert
<b>Output Level :</b>						
3.1.1. Established and operating Climate Change Adaptation Working Group Team (POKJA-API).	1 Decree on Pokja API for Scope of South Sulawesi	Month 4-14	gender	Quarterly Report review	Quarterly	Monev Expert
3.1.2. Internalized Climate Change Adaptation Plans to Local Government policies, as well as existing adaptation action plan documents at the regional level	2 regional planning documents that have RAN API internalized within	Month 3-15	none	Quarterly Report review Document review Regional planning	Quarterly	Monev Expert
3.1.3. Existing Climate Change Adaptation monitoring system that supports the strengthening of policies implemented by the stakeholders	1 adaptation monitoring application system used in supporting the implementation of the policy	Month 7 - 12	none	Quarterly Report review Documentation Interview/FGD	Quarterly	Monev Expert
<b>Project Component 4. Strengthening of capacity and support of stakeholder through knowledge management</b>						

<b>Outcome 4.1</b> Strengthened stakeholder capacity and understanding through the process of dissemination and early warning system for climate change adaptation	27,143 people received information from the dissemination process	Month 11-16	Village/sub district	Semester Report review Documentation Interview/FGD	Semester	Monev Expert
<b>Output Level :</b>						
4.1.1 Disseminated program to strengthen and encourage policies and alignments	1 film 1 lesson learned/best practice book 1 Journal 1 Leaflet/poster/banner 1 Digital Media	Month 13-16	none	Quarterly Report review Documentation Interview/FGD	Quarterly	Monev Expert
4.1.2 Existing early warning system platform for Climate Change Adaptation among Saddang Watershed Ecosystem Community	1 early warning system platform	Month 8 - 16	none	Activity report review Documentation	Quarterly	Monev Expert

## E. Result Framework

Include a results framework for the project / programme proposal, including milestones, targets and indicators.

Outcome/ Output	Indicator	Baseline	Target			Source of Verification	Risk & Assumption
			2018	2019	2020		
Component 1. Strengthening of Social Forestry in pushing for forest food in the Upstream of Saddang Watershed in the climate change adaptation scheme							
Outcome 1.1 Increased extent of the Social Forestry scheme covering an area of 5,000 ha in the upstream of Saddang Watershed	5,000 ha of forest area using social forestry scheme (proposal/IUP/scheme strengthening)	5.000 ha of forest area including those that have been declared as social forestry scheme but not yet managed through Social Forestry Management Permit		5,000		Social Forestry Management Permit, and reports	If there is no change in social forestry regulations
Output 1.1.1. Existing legal access to Community Forest or Village Forest	5,000 Ha of social forestry area obtaining Legal Access/reinforcement	0		10		Copy of Social Forestry Scheme Management Permit	The length of time for issuance of permits, social forestry working group and advocacy for permit management should be regularly done
Output 1.1.2. Increased forest land cover	70% of seedlings grown from cultivation	Condition of land cover before the project starts			70%	Activity Report, Documentation	There is no certainty of maintenance
Outcome 1.2 Strengthened actors and institution of Social Forestry schemes in support of climate change adaptation	10 Institutions/Groups in the Social Forestry Scheme are formed and increase their capacity to support climate change adaptation	Local institutions have no understanding of social forestry in climate change adaptation		10		Activity Report, Documentation	-
Output 1.2.1. Increased capacity of facilitators and local communities in Social Forestry scheme	55 people have increased capacity to encourage social forestry	0	15	40		Activity Report, Documentation	-
Output 1.2.2. Increased capacity of stakeholders in sustainable forest management.	50 people have increased capacity in sustainable forest management	0		50		Activity Report, Documentation	-

Outcome/ Output	Indicator	Baseline	Target			Source of Verification	Risk & Assumption
			2018	2019	2020		
Output 1.2.3. Increased support from the stakeholders in encouraging Social Forestry scheme	1 MoU on Social Forestry Acceleration	0		1		Copy of MoU on the Acceleration of Social Forestry, Activity Report	-
Outcome 1.3 Available of forest food products that are ready for sale from social forestry groups	Sold by 2 kind of forest food products from the social forestry group	Community income by not implementing a pattern within the area that has CF/HD management permits			30	Activity Report, Documentation	There are differences in the direction of development between the agriculture, forestry and livestock sectors  The difficulty of changing the pattern of community livestock maintenance management
Output 1.3.1. Increased skills of Forest Farmer, Women and Vulnerable Group in managing sustainable forest food.	250 people from 10 Social Forestry, women and vulnerable groups have increased capacity to manage sustainable forest food	0		200	50	Activity Report, Documentation	The farmer groups reject the project's new approach to skills upgrading because it differs from the customary pattern
Output 1.3.2. Available facilities and infrastructure of forest food processing technology	10 units of forest food processing facilities	0		10		Handover documents, Documentation, Activity Report	Engine specifications are not in accordance with product specifications from market demand
Output 1.3.3. Absorbed forest food products to the market	2 kind of food products are sold	0			75	Purchase Documents/ Contract	-
<b>Component 2. Improved coastal governance and carrying capacity in support of climate change adaptation downstream of Saddang Watershed</b>							
Outcome 2.1 Strengthened costal human resources and natural resources in the downstream of Saddang watershed in increasing coastal carrying capacity	60 people have increased capacity and 1.2 km of land and coastal areas are rehabilitated	Critical/open land and costal areas that need to be rehabilitated		1.2		Activity Report, Documentation	The number of plant seeds swept by the waves
Output 2.1.1. Established and running Climate Change Care Group	5 KPPIs are established and running	0		5		Activity Report, Documentation	-

Outcome/ Output	Indicator	Baseline	Target			Source of Verification	Risk & Assumption
			2018	2019	2020		
(KPPI) as the driving force at the village and sub-district levels							
Output 2.1.2. Increased capacity and skills of KPPI and stakeholders in improving coastal governance and carrying capacity downstream of watershed	60 people have increased skills in improving coastal governance and carrying capacity	0		60		Activity Report, Documentation	-
Output 2.1.3. Rehabilitated coastal areas downstream of Saddang Watershed	1,2 km coastal land is rehabilitated	0		1.2		Activity Report, Documentation	Land location is not on the fishing boat entrance
Outcome 2.2 Increased community income in the downstream of Saddang Watershed through environmental friendly creative businesses and food diversification	100 people have increased income from creative businesses and food diversification	Community income is not gained through creative businesses and food diversification		100		Activity Report, Documentation	Changes in the pattern of financial management
Output 2.2.1. Improved skills of KPPI, forest farmer, women and vulnerable groups in the development of creative business and food diversification	150 people have increased capacity in development of creative business and food	0		150		Activity Report, Documentation	-
Output 2.2.2 Available technology facilities and infrastructure in encouraging creative business and food diversification.	5 units of household-scale processing tools used in creative business and food diversification	0		5		Handover documents, Documentation, Activity Report	-
Output 2.2.3. Existing marketing network for creative business and food diversification	2 marketing networks for creative business and food diversification	0			75%	Purchase Documents/ Contract	Engine specifications are not in accordance with market demand
<b>Component 3. Strengthened system and institutional capacity to reduce risk associated with climate induced socio-economic and environmental</b>							
Outcome 3.1 Strengthened cross-cutting policies in ensuring the sustainability of climate	3 policy products that support climate change adaptation	Policy products that support climate change adaptation before the project		1	2	Copy of Policy documents, Activity Report	There are conflicting development acceleration and economic policies



Outcome/ Output	Indicator	Baseline	Target			Source of Verification	Risk & Assumption
			2018	2019	2020		
change adaptation		starts					
Output 3.1.1. Established and operating Climate Change Adaptation Working Group Team (POKJA-API).	1 Decree on Pokja API for Scope of South Sulawesi	0		1		Copy of Decree on Pokja, Work Plan	-
Output 3.1.2. Internalized API to Local Government policies within regional plan	2 regional planning documents that have RAN API internalized within	0			2	Copy of policy documents	-
Output 3.1.3. Existing Climate Change Adaptation monitoring system that supports the strengthening of policies implemented by the stakeholders	1 adaptation monitoring application system used in supporting the implementation of the policy	0		1		Purchase Documents/ Contracts, Activity Report	Input data is not optimal  The measurement system and measurement indicator are not implemented
<b>Component 4. Strengthening of capacity and support of stakeholder through knowledge management</b>							
Outcome 4.1 Strengthened stakeholder capacity and understanding through the process of dissemination and early warning system for climate change adaptation	27,143 people received information from the dissemination process	0			27,143	Activity Report, Documentation	
Output 4.1.1 Disseminated program to strengthen and encourage policies and alignments	1 film 1 lesson learned/best practice book 1 Journal 1 Leaflet/poster/banner 1 Digital Media	0		3	2	Documentation	
Output 4.1.2 Existing early warning system platform for Climate Change Adaptation among Saddang Watershed Ecosystem Community	1 early warning system platform	0		1		Activity Report, Documentation	

## F. Alignment with Adaptation Fund Result Framework

Demonstrate how the project / programme aligns with the Results Framework of the Adaptation Fund

Project Objective(s) <sup>24</sup>	Project Objective Indicator(s)	Fund Outcome	Fund Outcome Indicator	Grant Amount (USD)
1. Strengthened Social Forestry scheme in developing forest food in climate change adaptation in the upstream of Saddang watershed	5,000 ha Social Forestry Area in 1 (one) watershed ecosystem (upstream) which expands its vegetation cover	Outcome 5. Increased ecosystem resilience in response to climate change and variability-induced stress	5,000 ha natural resource assets maintained or improved under climate change and variability-induced stress	\$344,069
	185 heads of household who develop forest food through social forestry schemes	Outcome 6. Diversified and strengthened livelihoods and sources of income for vulnerable people in targeted areas	5% of households having more secure (increased) access to livelihood assets	
2. Improved coastal governance and carrying capacity in support of climate change adaptation downstream of Saddang watershed	5 Climate Change Care Groups encourage improvement of coastal carrying capacity in adaptation to climate change	Outcome 3: Strengthened awareness and ownership of adaptation and climate risk reduction processes at local level	10% targeted population aware of predicted adverse impacts of climate change, and of appropriate responses  Modification in behavior by 10% of Population	\$176,843
	Over 1.2 km of land and coastal areas in 1 (one) watershed ecosystem (downstream) that expands its vegetation cover	Outcome 5. Increased ecosystem resilience in response to climate change and variability-induced stress	1,2 km natural resource assets maintained or improved under climate change and variability-induced stress	
	80 heads of household who develop creative businesses and food diversification in the context of climate change adaptation	Outcome 6. Diversified and strengthened livelihoods and sources of income for vulnerable people in targeted areas	3% of households having more secure (increased) access to livelihood assets	
3. Strengthened cross-cutting policies and climate early warning systems in ensuring the sustainability of	3 policy products and systems that will drive climate change adaptation	Outcome 2: Strengthened institutional capacity to reduce risks associated with	Fifty-three (53) Institutions from Provincial, District, and Village Governments, with increased capacity to minimize exposure to climate	\$90,504

<sup>24</sup> The AF utilized OECD/DAC terminology for its results framework. Project proponents may use different terminology but the overall principle should still apply

climate change adaptation		climate-induced socioeconomic and environmental losses	variability risks	
		Outcome 7. Improved policies and regulations that promote and enforce resilience measures	Three (3) integrated climate change adaptation policy products in the National Strategy for Climate Change Adaptation	
4. Strengthened stakeholder capacity and support through knowledge management	27,143 people received information from the dissemination process	Outcome 3: Strengthened awareness and ownership of adaptation and climate risk reduction processes at local level	3% targeted population aware of predicted adverse impacts of climate change, and of appropriate responses	<b>\$81,154</b>
<b>Project Outcome(s)</b>	<b>Project Outcome Indicator(s)</b>	<b>Fund Output</b>	<b>Fund Output Indicator</b>	<b>Grant Amount (USD)</b>
1. Increased extent of the Social Forestry scheme covering an area of 5,000 ha in the upstream of Saddang Watershed	5,000 ha of forest area using social forestry scheme (proposal/IUP/scheme strengthening)	5.1. Increase forest rehabilitation area as response to climate change impact	5.1. 5,000 ha of forest area enhanced for climate change adaptation	<b>\$93,369</b>
2. Strengthened actors and institution of Social Forestry schemes in support of climate change adaptation	10 Institutions/Groups in the Social Forestry Scheme are formed and increase their capacity to support climate change adaptation	6. Strengthened of local community and livelihood strategies	6.1.1 Ten (10) local community are created and strengthened in support of livelihood strategies	<b>\$135,412</b>
3. Available of forest food products that are ready for sale from social forestry groups	Sold by 2 kind of forest food products from the social forestry group	6. Increase household income in targeted area	6.1.2 Agroforestry as income source for households under climate change scenario	<b>\$115,288</b>
4. Strengthened costal human resources and natural resources in the downstream of Saddang watershed in increasing coastal carrying capacity	60 people have increased capacity and 1.2 km of land and coastal areas are rehabilitated	3.1 involve targeted group participating in rehabilitation  5. Strengthened of natural asset in response to climate change impact	3.1.1 Land and coastal Rehabilitation as one type of risk reduction action at local level  5.1 1.2 km of natural resources asset created, maintained, or improved	<b>\$112,258</b>
5. Increased community income in the	80 households who have increased income from creative businesses and food	6. Increase and strengthened community	6.1.1 Two (2) type of adaptation asset created in support of household –	<b>\$64,585</b>

downstream of Saddang Watershed through environmental friendly creative businesses and food diversification	diversification	livelihood strategies to climate change impact	livelihood strategies	
6. Strengthened cross-cutting policies in ensuring the sustainability of climate change adaptation	3 policy products that support climate change adaptation	2.1 Strengthened Capacity of staff institutional to respond climate-related events  7. Improved regulation of climate-resilience strategies	2.1.1 Twenty-five (25) staff trained to respond and mitigate impacts of climate related events  7.1 Three (3) regulation will introduced to address climate change risks	\$90,504
7. Strengthened stakeholder capacity and understanding through the process of dissemination and early warning system for climate change adaptation	27,143 people received information from the dissemination process	3.Targeted population groups participating adaptation and risk reduction awareness activities	3.1.2 Five (5) of news outlets in the local press and media that have covered the topic	\$81,154

## G. Budget

Include a detailed budget with budget notes, broken down by country as applicable, a budget on the Implementing Entity management fee use, and an explanation and a breakdown of the execution costs.

Description Item			Cost
<b>Total Project/Programme Cost</b>			<b>\$702,334</b>
<b>Component 1: Strengthening of Social Forestry in pushing for forest food</b>			<b>\$344,069</b>
Outcome	1.1	Increased extent of the Social Forestry scheme covering an area of 5,000 ha in the upstream of Saddang Watershed	\$93,369
Output	1.1.1	Existing legal access to Community Forest or Village Forest	\$53,942
Activity	1.1.1.1	Multistakeholder meetings proposing social forestry schemes	\$1,558
	1.1.1.2	Facilitation of document preparation and legal advocacy for Social Forestry	\$42,000
	1.1.1.3	Operationalization of Social Forestry Outcome Leader	\$10,385
Output	1.1.2	Increased forest land cover	\$39,426
Activity	1.1.2.1	Need assessment of forest land rehabilitation area	\$3,288
	1.1.2.2	Rehabilitation of forest land with agroforestry pattern	\$24,599
	1.1.2.3	Nursery development	\$11,538
Outcome	1.2	Strengthened actors and institution of Social Forestry schemes in support of climate change adaptation	\$135,412
Output	1.2.1	Increased capacity of facilitators and local communities in Social Forestry scheme	\$105,958
Activity	1.2.1.1	Field Officer Training	\$5,785
	1.2.1.2	Facilitation of Field Officer operationalization	\$91,385
	1.2.1.3	Dissemination of information on social forestry in each project target village	\$4,173
	1.2.1.4	Regular meetings in each village to strengthen group capacity	\$4,615
Output	1.2.2	Increased capacity of stakeholders in sustainable forest management.	\$12,088
Activity	1.2.2.1	Facilitation of KTH establishment	\$2,442
	1.2.2.2	Workshop on the management and utilization of sustainable forest resources	\$2,846

Description Item			Cost
	1.2.2.3	POKJA-PPS training in supporting climate change adaptation	\$2,396
	1.2.2.4	Multistakeholder meetings to internalize climate change adaptation actions	\$1,558
	1.2.2.5	Workshop on climate change adaptation actions	\$2,846
Output	1.2.3	<b>Increased support from the stakeholders in encouraging Social Forestry scheme</b>	\$17,365
Activity	1.2.3.1	Multistakeholder meeting on Social Forestry acceleration in each intervention area	\$2,577
	1.2.3.2	Workshop on Social Forestry Acceleration and MoU signing	\$2,096
	1.2.3.3	Regular FGDs to monitor the achievements of the POKJA PPS	\$3,692
	1.2.3.4	Operationalization of Officer Coord. in the upstream area	\$9,000
Outcome	1.3	Available of forest food products that are ready for sale from social forestry groups	\$115,288
Output	1.3.1	<b>Increased skills of Forest Farmer, Women and Vulnerable Group in managing sustainable forest food</b>	\$45,792
Activity	1.3.1.1	Technical training on agroforestry model forest processing	\$6,500
	1.3.1.2	Product packaging training	\$6,192
	1.3.1.3	Facilitation of module preparation for forest food cultivation	\$5,186
	1.3.1.4	Regular discussions among forest farmer, women's and vulnerable groups	\$3,654
	1.3.1.5	Comparative study of flagship forest food management	\$17,846
	1.3.1.6	Entrepreneurship training	\$6,413
Output	1.3.2	<b>Available facilities and infrastructure of forest food processing technology</b>	\$56,471
Activity	1.3.2.1	Facilitation of processing permits for household products	\$7,692
	1.3.2.2	Provision of forest food processing equipment	\$43,131
	1.3.2.3	Facilitation of technical module preparation for operation and maintenance of equipment	\$5,648
Output	1.3.3	<b>Absorbed forest food products to the market</b>	\$13,026

Description Item			Cost
Activity	1.3.3.1	Study of supply chain and value chain of forest food products	\$8,643
	1.3.3.2	Dissemination of supply chain and value chain study results	\$2,325
	1.3.3.3	Meetings of business actors at the supply and demand level	\$2,058
<b>Component 2: Improved coastal governance and carrying capacity in support of climate change adaptation downstream of Saddang Watershed</b>			<b>\$176,843</b>
Outcome	2.1	<b>Strengthened costal human resources and natural resources in the downstream of Saddang watershed in increasing coastal carrying capacity</b>	\$112,258
Output	2.1.1	<b>Established and running Climate Change Care Group (KPPI) as the driving force at the village and sub-district levels</b>	\$47,360
Activity	2.1.1.1	Dissemination of information and meetings on group formation	\$3,033
	2.1.1.2	Facilitation of regular KPPI meetings	\$6,250
	2.1.1.3	Operationalization of Downstream Field Officer	\$38,077
Output	2.1.2	<b>Increased capacity and skills of KPPI and stakeholders in improving costal governance and carrying capacity downstream of watershed</b>	\$33,718
Activity	2.1.2.1	Leadership training for climate change care cadres	\$2,922
	2.1.2.2	Training on facilitation and mentoring	\$2,092
	2.1.2.3	Mangrove cultivation training	\$2,915
	2.1.2.4	Regular consultation meetings	\$5,250
	2.1.2.5	Study of pond aquaculture	\$11,538
	2.1.2.6	Operationalization of Downstream Fled Officer Coord	\$9,000
Output	2.1.3	<b>Rehabilitated coastal areas downstream of Saddang Watershed</b>	\$31,181
Activity	2.1.3.1	Provision of coastal land rehabilitation equipment	\$15,857
	2.1.3.2	Facilitation of technical guidelines preparation for the operation and maintenance of equipment	\$6,177
	2.1.3.3	Planting area distribution meeting for each group	\$1,827
	2.1.3.4	Procurement of mangrove seeds	\$397



Description Item			Cost
	2.1.3.5	Mangrove plantings	\$6,923
Outcome	2.2	Increased community income in the downstream of Saddang Watershed through environmental friendly creative businesses and food diversification	\$64,585
Output	2.2.1	Improved skills of KPPI, forest farmer, women and vulnerable groups in the development of creative business and food diversification	\$24,632
Activity	2.2.1.1	Entrepreneurship training	\$4,291
	2.2.1.2	Creative business training from coastal resources products	\$5,794
	2.2.1.3	Cultivation and post-harvest training	\$4,163
	2.2.1.4	Operationalization of coastal outcome leader	\$10,385
Output	2.2.2	Available technology facilities and infrastructure in encouraging creative business and food diversification.	\$29,792
Activity	2.2.2.1	Procurement of processing equipment for coastal natural resources	\$13,577
	2.2.2.2	Procurement of diversified food processing equipment (on-farm and off farm)	\$11,731
	2.2.2.3	Facilitation of technical module preparation for operation and maintenance of equipment	\$4,485
Output	2.2.3	Existing marketing network for creative business and food diversification	\$10,160
Activity	2.2.3.1	Study of supply chain and value chain of forest food products	\$5,615
	2.2.3.2	Dissemination of supply chain and value chain study results	\$2,673
	2.2.3.3	Meetings of business actors at the supply and demand level	\$1,872
<b>Component 3: Strengthened cross-cutting policies in ensuring the sustainability of climate change adaptation</b>			<b>\$90,504</b>
Outcome	3.1	Strengthened cross-cutting policies in ensuring the sustainability of climate change adaptation	\$90,504
Output	3.1.1	Established and operating Climate Change Adaptation Working Group Team (POKJA-API)	\$12,704
Activity	3.1.1.1	Multistakeholder meeting for the formation of POKJA API for the Saddang Watershed Ecosystem	\$2,829
	3.1.1.2	Workshop on the establishment of POKJA AP for the Saddang Watershed Ecosystem	\$2,565
	3.1.1.3	Training on preparing climate change adaptation action plans	\$2,387
	3.1.1.4	Facilitation of regular meetings with POKJA API for the Saddang Watershed Ecosystem	\$4,923

Description Item			Cost
Output	3.1.2	Internalized API to Local Government policies, as well as existing adaptation action plan documents at the regional level	\$48,100
Activity	3.1.2.1	Multistakeholder meetings in climate change adaptation action plan of Saddang Watershed ecosystem	\$4,154
	3.1.2.2	Vulnerability and risk assessment of climate change	\$15,385
	3.1.2.3	Facilitation of regular meetings of POKJA-API in preparing the Climate Change Adaptation Action Plan at the Regional Level	\$4,892
	3.1.2.4	Facilitation of proposed climate change adaptation action plan into Village Regulations	\$11,769
	3.1.2.5	Facilitation of proposed Climate Change Adaptation Action Plan into Local Regulations	\$4,246
	3.1.2.6	Multistakeholder meetings in integrating the Climate Change Adaptation Action Plan into the Strategic Plan of the Local Government Unit (Renstra SKPD)	\$7,654
Output	3.1.3	Existing Climate Change Adaptation monitoring system usable by stakeholders to ensure sustainability	\$29,700
Activity	3.1.3.1	Training on preparing climate change adaptation monitoring system	\$5,665
	3.1.3.2	Facilitation in developing climate change adaptation action monitoring application	\$15,385
	3.1.3.3	Dissemination of climate change adaptation monitoring system	\$2,154
	3.1.3.4	Training on operationalizing the application to stakeholders	\$6,496
<b>Component 4: Strengthening of capacity and support of stakeholder through knowledge management</b>			<b>\$90.918</b>
Outcome	4.1	Strengthened stakeholder capacity and understanding through the process of dissemination and early warning system for climate change adaptation	\$90,918
Output	4.1.1	Disseminated program to strengthen and encourage policies and alignments	\$54,362
Activity	4.1.1.1	Making and launching of documentary film related to climate change adaptation action	\$11,708
	4.1.1.2	Development and launching of best practice and lessons learned book on climate change adaptation and climate change adaptation journal	\$23,646
	4.1.1.3	Development of policy brief related to the climate change adaptation strategy based on sustainable forest food security	\$4,419
	4.1.1.4	Development of leaflets, posters, banners	\$4,519
	4.1.1.5	Development of website and social media on climate change adaptation in Saddang watershed ecosystem	\$3,846
	4.1.1.6	Facilitation of partnership with providers in publication of climate change adaptation action	\$2,762
	4.1.1.7	Rental of promotional billboard on climate change adaptation in Saddang watershed ecosystem	\$3,462
Output	4.1.2	Existing early warning system platform for Climate Change Adaptation among Saddang Watershed Ecosystem Community	\$36,557
Activity	4.1.2.1	Facilitation of multistakeholder cooperation for the application of disaster response early warning system	\$3,658

Description Item			Cost
	4.1.2.2	Development of application and supporting tools for disaster response early warning system	\$11,872
	4.1.2.3.	Training on the use of applied technology for disaster response early warning system	\$6,496
	4.1.2.4.	Dissemination of information/Workshop on the application of disaster response early warning system	\$3,531
	4.1.2.5	Monitoring dan Evaluation	\$11,000
<b>A. Project/Program Execution Cost</b>			<b>\$68,373</b>
	A.1	Spatial Adaptation to Climate Change Specialist	\$3,462
	A.2	Forest management and Environmental Specialist	\$3,462
	A.3	Monev Specialist	\$4,154
	A.4	Social Gender Specialist	\$3,462
	A.5	Food and Disversification Specialist	\$3,462
	A.6	Program Director	\$8,308
	A.7	Project Coordinator	\$13,846
	A.8	Finance Manager	\$6,923
	A.9	Assistant to Finance Manager	\$5,538
	A.10	Office boy	\$1,938
	A.11	Office Rent	\$7,200
	A.12	Stationary	\$489
	A.13	Communication	\$208
	A.14	Electricity, WIFI, Water	\$2,077
	A.15	Program audit	\$3,846
<b>B. Project Cycle management Services</b>			<b>\$64,758</b>
	B.1	Project identification and Development	\$3,238
	B.2	Project Implementation and Supervision	\$48,569
	B.3	Evaluation	\$12,952
<b>Amount of Financing Requested</b>			<b>\$835,645</b>

## H. Disbursement Schedule

Include a disbursement schedule with time-bound milestones.

### Disbursement Milestones

	Upon signature of Agreement	One Year after Project Start <sup>a)</sup>	Total
Scheduled date	1 Januari 2019	1 januari 2020	
Project Funds	\$539,494.90	\$231,212.10	\$770,707.00
Implementing Entity Fees	\$48,568.50	\$16,189.50	\$ 64,758
<b>Total</b>	<b>588,063.4</b>	<b>247,401.60</b>	\$835,465.00

a) Use projected start date to approximate first year disbursement

b) Subsequent dates will follow the year anniversary of project start

c) Add columns for years as needed

### Time-bound project activities

Component	Outputs	Activities	Timeframe/Months																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1. Strengthening of Social Forestry in pushing for forest food in the upstream of Saddang watershed	1.1.1. Existing legal access to Community Forest or Village Forest	1.1.1.1. Multistakeholder meetings proposing social forestry schemes																		
		1.1.1.2. Facilitation of document preparation and legal advocacy for Social Forestry																		
		1.1.1.3. Operationalization of Social Forestry Outcome Leader																		

Component	Outputs	Activities	Timeframe/Months																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	1.1.2. Increased forest land cover	1.1.2.1. Need assessment of forest land rehabilitation area																		
		1.1.2.2. Rehabilitation of forest land with agroforestry pattern																		
		1.1.2.3. Nursery development																		
	1.2.1. Increased capacity of facilitators and local communities in Social Forestry scheme	1.2.1.1. Field Officer Training																		
		1.2.1.2. Facilitation of Field Officer operationalization																		
		1.2.1.3. Dissemination of information on social forestry in each project target village																		
		1.2.1.4. Regular meetings in each village to strengthen group capacity																		
	1.2.2. Increased capacity of stakeholders in sustainable forest management	1.2.2.1. Facilitation of KTH establishment																		
		1.2.2.2. Workshop on the management and utilization of sustainable forest resources																		
		1.2.2.3. POKJA-PPS training in supporting climate change adaptation																		
		1.2.2.4. Multistakeholder meetings to internalize climate change adaptation actions																		
		1.2.2.5. Workshop on climate change adaptation actions																		
	1.2.3 Increased support from the stakeholders in encouraging Social Forestry scheme	1.2.3.1. Multistakeholder meeting on Social Forestry acceleration in each intervention area																		
		1.2.3.2. Workshop on Social Forestry Acceleration and MoU signing																		
		1.2.3.3. Regular FGDs to monitor the achievements of the POKJA PPS																		
		1.2.3.4. Operationalization of Officer Coord. in the upstream area																		
	1.3.1 Increased skills of Forest Farmer,	1.3.1.1. Technical training on agroforestry model forest processing																		
		1.3.1.2. Product packaging training																		

Component	Outputs	Activities	Timeframe/Months																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	Women and Vulnerable Group in managing sustainable forest food	1.3.1.3. Facilitation of module preparation for forest food cultivation																		
		1.3.1.4. Regular discussions among forest farmer, women's and vulnerable groups																		
		1.3.1.5. Comparative study of flagship forest food management																		
		1.3.1.6. Entrepreneurship training																		
	1.3.2. Available facilities and infrastructure of forest food processing technology	1.3.2.1. Facilitation of processing permits for household products																		
		1.3.2.2. Provision of forest food processing equipment																		
		1.3.2.3. Facilitation of technical module preparation for operation and maintenance of equipment																		
	1.3.3. Absorbed forest food products to the market	1.3.3.1. Study of supply chain and value chain of forest food products																		
		1.3.3.2. Dissemination of supply chain and value chain study results																		
		1.3.3.3. Meetings of business actors at the supply and demand level																		
2. Improved coastal governance and carrying capacity in support of climate change adaptation downstream of Saddang Watershed	2.1.1 Established and running Climate Change Care Group (KPPI) as the driving force at the village and sub-district levels	2.1.1.1 Dissemination of information and meetings on group formation																		
		2.1.1.2 Facilitation of regular KPPI meetings																		
		2.1.1.3 Operationalization of Downstream Field Officer																		
	2.1.2 Increased capacity and skills of KPPI and stakeholders in improving costal governance and carrying capacity downstream of watershed	2.1.2.1 Leadership training for climate change care cadres																		
		2.1.2.2 Training on facilitation and mentoring																		
		2.1.2.3 Mangrove cultivation training																		
		2.1.2.4 Regular consultation meetings																		
		2.1.2.5. Study of pond aquaculture																		
		2.1.2.6. Operationalization of Downstream Field Officer Coord																		
		2.1.3.1 Provision of coastal land																		

Component	Outputs	Activities	Timeframe/Months																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	2.1.3 Rehabilitated coastal areas downstream of Saddang Watershed	rehabilitation equipment r																		
		2.1.3.2 Facilitation of technical guidelines preparation for the operation and maintenance of equipment																		
		2.1.3.3 Planting area distribution meeting for each group																		
		2.1.3.4 Procurement of mangrove seeds																		
		2.1.3.5 Mangrove plantings																		
	2.2.1 Improved skills of KPPI, forest farmer, women and vulnerable groups in the development of creative business and food diversification	2.2.1.1 Entrepreneurship training																		
		2.2.1.2 Creative business training from coastal resources products																		
		2.2.1.3 Cultivation and post-harvest training																		
		2.2.1.4 Operationalization of coastal outcome leader																		
	2.2.2 Available technology facilities and infrastructure in encouraging creative business and food diversification.	2.2.2.1 Procurement of processing equipment for coastal natural resources																		
		2.2.2.2 Procurement of diversified food processing equipment (on-farm and off farm)																		
		2.2.2.3 Facilitation of technical module preparation for operation and maintenance of equipment																		
	2.2.3 Existing marketing network for creative business and food diversification	2.2.3.1 Study of supply chain and value chain of forest food products																		
		2.2.3.2 Dissemination of supply chain and value chain study results																		
		2.2.3.3 Meetings of business actors at the supply and demand level																		
3. Strengthened cross-cutting	3.1.1. Established and operating Climate Change	3.1.1.1. Multistakeholder meeting for the formation of POKJA API for the Saddang Watershed Ecosystem																		
		3.1.1.2. Workshop on the																		



Component	Outputs	Activities	Timeframe/Months																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
policies in ensuring the sustainability of climate change adaptation	Adaptation Working Group Team (POKJA-API)	establishment of POKJA AP for the Saddang Watershed Ecosystem																		
		3.1.1.3. Training on preparing climate change adaptation action plans																		
		3.1.1.4. Facilitation of regular meetings with POKJA API for the Saddang Watershed Ecosystem																		
	3.1.2. Internalized API to Local Government policies, as well as existing adaptation action plan documents at the regional level	3.1.2.1. Multistakeholder meetings in climate change adaptation action plan of Saddang Watershed ecosystem																		
		3.1.2.2. Vulnerability and risk assessment of climate change																		
		3.1.2.3. Facilitation of regular meetings of POKJA-API in preparing the Climate Change Adaptation Action Plan at the Regional Level																		
		3.1.2.4. Facilitation of proposed climate change adaptation action plan into Village Regulations																		
		3.1.2.5. Facilitation of proposed Climate Change Adaptation Action Plan into Local Regulations																		
		3.1.2.6. Multistakeholder meetings in integrating the Climate Change Adaptation Action Plan into the Strategic Plan of the Local Government Unit (Renstra SKPD)																		
	3.1.3. Existing Climate Change Adaptation monitoring system usable by stakeholders to ensure sustainability	3.1.3.1. Training on preparing climate change adaptation monitoring system																		
		3.1.3.2. Facilitation in developing climate change adaptation action monitoring application																		
		3.1.3.3. Dissemination of climate change adaptation monitoring system																		
		3.1.3.4. Training on operationalizing the application to stakeholders																		
4. Strengthening of capacity and support of	4.1.1. Disseminated all stories from program components to strengthen and	4.1.1.1. Making and launching of documentary film related to climate change adaptation action																		
		4.1.1.2. Development and launching of best practice and lessons learned book																		

Component	Outputs	Activities	Timeframe/Months																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
stakeholder through knowledge management	encourage policies and alignments	on climate change adaptation and climate change adaptation journal																		
		4.1.1.3. Development of policy brief related to the climate change adaptation strategy based on sustainable forest food security																		
		4.1.1.4. Development of leaflets, posters, banners																		
		4.1.1.5. Development of website and social media on climate change adaptation in Saddang watershed ecosystem																		
		4.1.1.6. Facilitation of partnership with providers in publication of climate change adaptation action																		
		4.1.1.7. Rental of promotional billboard on climate change adaptation in Saddang watershed ecosystem																		
	4.1.2. Existing early warning system platform for Climate Change Adaptation among Saddang Watershed Ecosystem Community	4.1.2.1. Facilitation of multistakeholder cooperation for the application of disaster response early warning system																		
		4.1.2.2. Development of application and supporting tools for disaster response early warning system																		
		4.1.2.3. Training on the use of applied technology for disaster response early warning system																		
		4.1.2.4. Dissemination of information/Workshop on the application of disaster response early warning system																		

## PART IV: ENDORSEMENT BY GOVERNMENTS AND CERTIFICATION BY THE IMPLEMENTING ENTITY


### A. Record of Endorsement on Behalf of the Government

Provide the name and position of the government official and indicate date of endorsement for each country participating in the proposed project / programme. Add more lines as necessary. The endorsement letters should be attached as an annex to the project/programme proposal. Please attach the endorsement letters with this template; add as many participating governments if a regional project/programme:

<b>Dr. Kalatiku Paembonan, M.Si</b> Regent of Toraja Utara District	Date: <i>March, 31, 2017</i>
<b>Dr. H. Muslimin Bando, M. Pd</b> Regent of Enrekang District	Date: <i>March, 23, 2017</i>
<b>Aslan Patonangi</b> Regent of Pinrang District	Date: <i>April, 04, 2017</i>
<b>Ir. H. Muhammad Tamzil, MP</b> Head of Forestry Department South Sulawesi Province	Date: <i>April, 04, 2017</i>
<b>Ir. Andi Hasmi, M.T</b> Head of Environment Management Department South Sulawesi Department	Date: <i>March, 24, 2017</i>
<b>Daud Balalimbang, S.STP</b> Head of Environment Department Tana Toraja District	Date: <i>March, 03, 2017</i>

### B. Implementing Entity certification

Provide the name and signature of the Implementing Entity Coordinator and the date of signature. Provide also the project/programme contact person's name, telephone number and email address

<p>I certify that this proposal has been prepared in accordance with guidelines provided by the Adaptation Fund Board, and prevailing National Development and Adaptation Plans (President Decree No. 16 year 2015; P.13/Menlhk/Setjen/OTL.0/1/2016; P.33/Menlhk/Setjen/Kum.1/3/2016; Indonesia Intended Nationally Determined Contribution/INDC; COP 21 Paris Agreement signed by Government of Indonesia; Book and Map of Information System of Vulnerability Index Data (SIDIK); Permen-KP No. 2 year 2013; Climate Change Adaptation National Action Plan) and subject to the approval by the Adaptation Fund Board, <u>commit to implementing the project/programme in compliance with the Environmental and Social Policy of the Adaptation Fund</u> and on the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this project/programme.</p>	
	
<p><b>Monica Tanuhandaru</b> Executive Director of Partnership for Governance Reform in Indonesia (Kemitraan) Implementing Entity Coordinator</p>	
Date: <i>August, 6, 2018</i>	<p>Tel. and email: +62-21-7279 9566; <a href="mailto:Monica.Tanuhandaru@kemitraan.or.id">Monica.Tanuhandaru@kemitraan.or.id</a></p>

Project Contact Person:	Dewi Rizki
Tel. And Email:	+62-21-7279 9566; <a href="mailto:Dewi.Rizki@kemitraan.or.id">Dewi.Rizki@kemitraan.or.id</a>



REPUBLIK INDONESIA  
KEMENTERIAN LINGKUNGAN HIDUP DAN KEHUTANAN

Gedung Manggala Wanabakti, Jalan Gatot Subroto,  
Jakarta 10270, Kotak Pos 6505  
Telepon : 5730191, Faximile : 5738732

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Jakarta, 8 August 2018

Ref : No. S.43/NFP/VIII/2018  
Attach :  
Subject: Letter of Endorsment

To:  
The Adaptation Fund Board  
c/o The Adaptation Fund Board Secretariat  
Email: [secretariat@adaptationfund.org](mailto:secretariat@adaptationfund.org)  
Fax: +1 202 522 3405

Dear Adaptation Fund Board Secretariat,

We have received a full proposal from Kemitraan entitled:  
**"Community Adaptation for Forest-Food Based Management in Saddang Watershed Ecosystem"**.

I am writing to you as in my capacity as the National Designated Authority for the Adaptation Fund in Indonesia. We see this proposal is in accordance with the National priorities in implementing adaptation program and activities to reduce adverse impact of, and risks, poses by Climate Change in the vulnerable regions in Indonesia.

With this consideration, we strongly recommend the above proposal to be granted support from the Adaptation Fund Board. The program will be implemented and executed by The Konsorsium adaptasi Perubahan Iklim dan Lingkungan (KAPABEL).

Yours Sincerely,

Dr. Nur Masripatin  
National Focal Point to the UNFCCC  
Senior Advisor to the Minister of Environment and Forestry on  
Climate Change and International Conventions