



ADAPTATION FUND

AFB/PPRC.30/11
03 October 2022

Adaptation Fund Board
Project and Programme Review Committee
Thirtieth Meeting
Bonn, Germany, 11-12 October 2022

Agenda Item 4 f)

PROPOSAL FOR INDONESIA (2)

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 project concept document titled, "Sustainable Landscape Governance; Towards Climate Resilience of Community in Tempe Lake Ecosystem" was submitted for Indonesia by the Partnership for Governance Reform in Indonesia (Kemitraan), which is the National Implementing Entity of the Adaptation Fund.
10. This is the first submission of the project concept proposal, using the two-step submission process.
11. The current submission was received by the secretariat in time to be considered in the thirty-ninth Board meeting. The secretariat carried out a technical review of the project proposal, assigned it the diary number AF00000302, 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.



ADAPTATION FUND

ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: SMALL-SIZED PROJECT CONCEPT

Country/Region: Indonesia

Project Title: Sustainable Landscape Governance; Towards Climate Resilience of Community in Tempe Lake Ecosystem

Thematic Focal Area: Rural development

Implementing Entity: Kemitraan (The Partnership for Governance Reform)

Executing Entities: Tim Layanan Kehutanan Masyarakat (TLKM); Yayasan Romang Celebes Indonesia; Yayasan AKU Rimba Indonesia

AF Project ID: AF00000302

IE Project ID:

Reviewer and contact person: Andrew Chilombo

IE Contact Person: Laode M. Syarif

Requested Financing from Adaptation Fund (US Dollars): 993,081

Co-reviewer(s): Hannah Fairbank

Technical Summary	<p>The project “Sustainable Landscape Governance; Towards Climate Resilience of Community in Tempe Lake Ecosystem” aims to encourage sustainable governance as an effort to adapt and increase the climate resilience of the Tempe Lake ecosystem community This will be done through the four components below:</p> <p><u>Component 1:</u> Improvements in land use of 500ha in forests landscapes ecosystem that contributes to sedimentation restraint in the Tempe Lake ecosystem (USD 375,874);</p> <p><u>Component 2:</u> Reinforcing the community’s economic resilience in the Tempe Lake ecosystem through creative business development in the forestry and fisheries sectors (USD 284,615);</p> <p><u>Component 3:</u> Strengthening collaborative action of stakeholders and cross-sectoral policies related for climate change adaptation (USD 98,252);</p> <p><u>Component 4:</u> Increasing knowledge capacity and community awareness regarding climate change adaptation through knowledge management and youth-based campaigns (USD 77,133).</p> <p><u>Requested financing overview:</u> Project/Programme Execution Cost: USD 79,408</p>
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	<p>Total Project/Programme Cost: USD 915,282 Implementing Fee: USD 77,799 Financing Requested: USD 993,081</p> <p>The proposal includes a request for a project formulation grant of USD 50,000.</p> <p>The initial technical review raised several issues, such as the lack of a coherent adaptation rationale, cost-effectiveness, stakeholder consultations and knowledge management components, among others, as is discussed in the number of Clarification Requests (CRs) and Corrective Action Requests (CARs) raised in the review.</p> <p>The final technical review finds that the proposal has not addressed some of the CRs and CARs requests. Namely, the following issues remain: strengthening the adaptation reasoning and climate rationale; elaborating on the cost-effectiveness, and the socioeconomic context of the youth and vulnerable groups, and clarifying the ecological sustainability dimensions on fisheries commodity.</p>
Date:	September 19, 2022

Review Criteria	Questions	Comments Initial Technical Review	Comments Final Technical Review
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. The proposed project area experiences increased erratic rainfall patterns that causes flooding and damage to property, erosion and siltation, including forcing people to change their livelihoods, and even difficult to determine the right livelihood according to climatic conditions.	-
Project Eligibility	1. Has the designated government authority for the Adaptation Fund endorsed the project/programme?	Yes. As per the Endorsement letter dated August 05, 2022.	-

	2. Does the length of the proposal amount to no more than Fifty pages for the project/programme concept, including its annexes?	Yes. The total number of pages is 49, including annexes.	-
	3. 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?	No. While the project document ably describes the vulnerable context of the proposed project area, the flow of information does not allow the appreciation of how proposed activities will address the issues raised in the project area. Overall, the coherence between the project area context and proposed activities is very weak in some cases and absent in others. It would be useful to restructure the project description to include an identification of main barriers that hinder or stifle communities' ability to cope with adaptation challenges (which also need to be clearly described) and render the socioecological system less resilient and more vulnerable to the vagaries of climate change. CR1: Please revise the project's description and outline the adaptation challenges as well as the barriers to address these challenges and articulate how the project will tackle them. In doing so, please make clear the links	CR1: Not cleared. Further information was provided to address CR1; however, adaptation challenges and barriers in the Tempe Lake ecosystem have not been systematically identified to clarify the rationale of the project components. Thus, the justification for the components remains weak. Please, consider reducing the number of components and associated activities to focus more on concrete activities that will address adaptation challenges of the Tempe Lake ecosystem. CR 2: Not cleared. Please, refer to comment CR1 above which is linked to CR2.

		<p>between the proposed activities and the vulnerability context of the proposed project. Please also consider including a Theory of Change which to clarify such links.</p> <p>CR2: Please improve the coherence of the project rationale and further elaborate and better articulate each of the components' description, and the basis for the proposed outputs and outcomes.</p> <p>Some of the links between the project's proposed indicators and AF's outcome and outcome indicators seem stretched. For example, it is not clear how <i>'200 people (farmers from villages) increased their capacity for erosion control' support 'strengthening institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses.'</i></p> <p>CR3: Please clarify the link between the project indicators and the AF' outcomes.</p> <p>CR4: For Outcomes 3.1 and 3.2 and associated outputs, please clarify the use of the term "encouraging" since this is an adjective, and we are looking for results e.g., outcomes and outputs. What will be the outcome and outputs of the proposed activities?</p>	<p>CR 3: Cleared.</p> <p>As per the additional information provided on pages 34-36.</p> <p>CR 4: Cleared.</p> <p>As per the additional information provided on page 11.</p>
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	<p>4. 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.</p> <p>The project makes explicit mention of economic, social and environmental benefits that will accrue to communities. However, the information is too thin and lacks clear specificities.</p> <p>CR5: The pathway to improving the economic opportunities is absent from the project description. Please clarify the type of the creative businesses that the project will support, including the estimated number of beneficiaries (women, youth and vulnerable groups e.g., minorities, marginalized groups, disabilities, elderly).</p> <p>The project mentions, ‘... the multi-stakeholder communication spaces initiated in this project are based on justice and inclusiveness so that all elements of society have the same opportunity to express their opinion and be actively involved in the development of climate-resilient regions.’ This is quite vague and too ambitious.</p> <p>CR6: Please clarify the mechanisms of multi-stakeholder engagement to ensure meaningful community participation, considering the power play among different stakeholders.</p> <p>CR7: Please provide additional information regarding the</p>	<p>CR 5: Cleared.</p> <p>As per the additional information provided on page 13.</p> <p>Please note that for the <u>fully developed proposal</u> additional information will be required to demonstrate the pathway of the creative businesses envisaged in the project proposal, vis-a-vis the adaptation challenges in the project area.</p> <p>CR 6: Cleared.</p> <p>As per the additional information provided on pages 20-24.</p> <p>CR 7: Not cleared.</p> <p>The additional information provided does not address the concerns raised regarding the socioeconomic context of the youth and vulnerable groups (e.g., minorities, marginalized groups, people with disabilities, and elderly in the project area.</p> <p>CR 8: Cleared.</p> <p>As per the additional information provided on pages 47-48.</p> <p>CR 9: Cleared.</p>
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	<p>socioeconomic context of the youth and vulnerable groups (e.g., minorities, marginalized groups, people with disabilities, elderly in the project area). Particularly, provide information on the women's and men's roles to highlight different needs, capabilities, and knowledge resources.</p> <p>CR8: The project has an initial gender assessment. However, more information on gender is required to identify and acknowledge gender norms, relations and inequalities, as a basis to propose concrete actions to address gender differentials to contribute to gender transformation in the proposed project area.</p> <p>The project intends to engage in agroforestry systems to control erosion. However, it is silent on the type of tree species, and how adaptable they are to the local environment.</p> <p>CR9: Please clarify what type of tree species will be used in the agroforestry systems and how they will adapt to the local environment.</p> <p>The use of suckermouth catfish (native to South America) needs further assessment, given that this type of fish is known to i) compete for food and space with native species; and ii) create burrows which cause increased erosion</p>	<p>As per the additional information provided on page 12. CR 10: Cleared.</p> <p>As per the additional information provided on page 16.</p>
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		<p>and sedimentation. Page 15, #52 Environmental Benefits: includes the “use of <i>suckermouth catfish</i> will reduce pets in Tempe Lake to keep the fish ecosystem in the lake in balance.” Whereas in other places in the concept this species is referred to as a threat and target for eradication activities. This is inconsistent and confusing.</p> <p>CR10: Please also note that the Adaptation Fund’s environmental and social policy explicitly prohibits the introduction of invasive species and requires that projects be designed and implemented “in a way that avoids any significant or unjustified reduction or loss of biodiversity.” (pg 5, #21). Therefore: <u>Please remove the use of, support or introduction of non-native and invasive species of all types (fish, plant, animal, insect etc), including suckermouth catfish, from this project, in line with AF policy.</u></p> <p>Notably this fish species is prohibited by law from entering Indonesia due to the potentially harmful impacts of introduction and has specifically been identified as a threat to endemic fish species of Tempe Lake specifically (AMIR, Nursinah; SYAHRUL, Syahrul; DJAMALUDDIN, Nursyamsi. Suckermouth Catfish (<i>Pterygoplichthys pardalis</i>) In Wajo Regency, South Sulawesi Province: The Heavy Metal Content of Lead (Pb), Mercury (Hg) and</p>	
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	<p>5. Is the project / programme cost effective?</p>	<p>Unclear.</p> <p>The project provides figures to highlight the project's cost-effectiveness. However, it is not clear how these figures were derived.</p> <p>CR11: Please provide additional information to clarify the cost-effectiveness of the selected approach. Additionally, the project needs to demonstrate how aspects of sustainability will contribute to its cost-effectiveness.</p>	<p>CR 11: Not cleared.</p> <p>The provided text needs to be better reformulated, as it is hard to understand.</p> <p>Please demonstrate the project's cost-effectiveness by drawing on the approach for the implementation of concrete adaptation activities (in light of CR1 above).</p>
	<p>6. 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>	<p>Partially.</p> <p>The project description alludes to the Nationally Determined Contributions (NDC), National Action Plan for Climate Change Adaptation (RAN-API), and the Presidential Regulation 60 of 2021. However, this section needs further development to include how the project contributes to LDN and SDGs.</p> <p>CR12: Please revise this section to outline more explicitly how the project is linked and consistent with national and sub-national priorities, strategies etc.</p>	<p>CR 12: Cleared.</p> <p>As per the additional information provided on pages 17-19.</p>

	<p>7. Does the project / programme meet the relevant national technical standards, where applicable, in compliance with the Environmental and Social Policy of the Fund?</p>	<p>No.</p> <p>The project alludes to a number of regulations, namely: the Minister of Environment and Forestry Regulation No. P. 89 of 2018 regarding guidelines for the development of social forestry groups; the Minister of Environment and Forestry Regulation No. 84 of 2016; the Law Number 20 of 2008 concerning Micro, Small, and Medium Enterprises; and the Wajo District Regulation No. 12 of 2017 Wajo District Regional Regulation Number 14 of 2016 concerning the use of Tempe Lake for aquaculture.</p> <p>However, these are more regulations than technical standards and would be more appropriate in the section 6 that is related to consistent with national or sub-national sustainable development strategies, national or sub-national development plans, poverty reduction strategies.</p> <p>CR13: Please amend this section and provide a list of all national technical standards, specifying how the project complies with each. These can include building codes, water quality regulations, land use or tenure regulations, etc.</p> <p>Furthermore, unidentified sub-projects may be present and should be screened for via the Environmental,</p>	<p>CR 13: Cleared.</p> <p>As per the additional information provided on page 19.</p>
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		Social and Gender Policies of the AF. Please refer to CR24 and CAR3 below.	
	8. Is there duplication of project / programme with other funding sources?	<p>Unclear.</p> <p>The proposal simply states that there's no duplication with other funding sources. However, no list of proposal was included. The Proponent should engage with other development partners to identify potentially all overlapping interventions and identify synergies and complementarities as well as lessons to inform the eventual design and implementation of the project.</p> <p>CAR1: Please identify and include a list of all potentially overlapping projects (past, ongoing and under-development) and state lack of overlap or complementarity in a logical manner. Please also outline all linkages and synergies with all relevant potentially overlapping projects / programmes, including areas of overlap and complementarity, drawing lessons from the earlier initiatives during the project design, learning from their problems/mistakes.</p>	<p>CAR 1: Cleared.</p> <p>As per the additional information provided on page 19, which is sufficient for concept stage.</p> <p>However, the project should engage further with other development partners to identify potentially all overlapping interventions and identify synergies and complementarities as well as lessons to inform the eventual design and implementation of the project.</p>
	9. Does the project / programme have a learning and knowledge management component to capture and feedback lessons?	<p>Unclear.</p> <p>Component 4 covers the learning and knowledge management aspects of the project. However, additional information is required to clarify the following.</p>	<p>CR 14: Not cleared.</p> <p>Please address the comment by providing additional information in the description of component 4.</p>

		<p>CR14: Please clarify i) the kind of lessons and knowledge products of the project; ii) dissemination mechanisms; and iii) target audience and how information will be tailored (including how many people are likely to benefit from the envisaged knowledge products).</p>	
	<p>10. 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>Unclear.</p> <p>The description of the section on the consultative process is vague.</p> <p>CR15: Please clarify the mechanisms of consultations that were conducted, if any.</p> <p>CR16: Please state how gender aspects were taken into account during the initial consultations, as well as other vulnerable groups identified in the proposed project area – including how their concerns are reflected in the project design. It is unclear whether and how these consultations have taken into account gender equality and women’s empowerment issues in line with the AF Gender Policy.</p> <p>CR17: Please clarify if the stakeholders in the table in par. 76 were the ones who were consulted during the preparation of this concept note, or if</p>	<p>CR 15: Cleared.</p> <p>As per the additional information provided on page 20.</p> <p>CR 16: Cleared.</p> <p>As per the additional information provided on pages 20-24.</p> <p>CR 17: Cleared.</p> <p>As per the additional information provided on pages 20-24.</p>

		they are intended to be consulted in the development of the project. Please note that at this stage of the proposal, an initial consultation with relevant stakeholder should have taken place.	
	11. Is the requested financing justified on the basis of full cost of adaptation reasoning?	<p>No.</p> <p>The project proposal talks about governance, land management, increasing resilience, reducing vulnerability, and increasing capacity. These aspects are important; however, there is no clear coherence to meaningfully understand the adaptation reasoning of the project. Please refer to CR1 above.</p> <p>The link between proposed interventions and increasing and reducing community vulnerability is weak. The case has not satisfactorily been made. The logical flow of information as well as proposed activities do not make it clear how the project will achieve its objective. Please refer to CR1 and CR2 above.</p> <p>CR18: The document in the Table in par. 78 has several statements that are unclear. Please clarify what is meant by the following statements:</p> <ul style="list-style-type: none"> - <i>"The number of people affected by climate change disasters continues to increase."</i> Please clarify if it is the number of 	<p>CR 18: Not cleared.</p> <p>The meaning of '<i>it will reduce the number of people affected by climate change</i>' still remains ambiguous. Please consider rephrasing to focus on building capacity to cope with climate change.</p>

		<p>people that is increasing or if it is the economic context of the affected people that keeps on worsening?</p> <ul style="list-style-type: none"> - <i>"It will reduce the number of people affected by climate change". Do you mean that the economic context of the affected people will be improved?</i> - <i>"There is no firm commitment due to the system's weakness and policymakers' capacity to reduce climate risk, which further exacerbates the impact of climate change on society."</i> Please clarify the argumentation behind this statement. - <i>"It will reduce the impact of climate change by increasing community resilience by encouraging the government to formulate policies and budgets related to climate change adaptation actions. Through this project funding, all these processes will be facilitated".</i> Please clarify what is meant by this. How will the government policies lead to increasing communities' resilience? And what processes will the project facilitate? 	
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	12. Is the project / program aligned with AF's results framework?	<p>Partially.</p> <p>CR19: Please clarify how “200 people increased their capacity for erosion control” is aligned with strengthening institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses (AF Outcome 2) and Capacity of staff to respond to, and mitigate impacts of, climate-related events from targeted institutions increased (AF Outcome indicator).</p> <p>CAR2: Please rephrase some of the indicators to ensure they read as indicators.</p>	<p>CR 19: Cleared.</p> <p>As per the additional information provided on pages 34-36.</p> <p>CAR 2: Cleared.</p> <p>As per the additional information provided on pages 32-34 and 34-36.</p>
	13. Has the sustainability of the project/programme outcomes been taken into account when designing the project?	<p>Partially.</p> <p>CR20: Please clarify the operationalisation of POKJA API beyond the life of the project. Will it operate as a funding mechanism?</p> <p>CR21: Please clarify how aquaculture groups are linked to the institutional arrangements in the country proposed regional levels? How will these be sustained? Additional information regarding what the project concretely intends to do to ensure environmental sustainability is required. Introduction of species to control erosion needs clarification and confirmation of the types of species to avoid invasive species or species that</p>	<p>CR 20: Not cleared.</p> <p>Information provided in paragraph 108 on page 26 does not address the concern regarding the operationalisation of POKJA API beyond the life of the project.</p> <p>CR 21: Not cleared.</p> <p>Please provide the information in the Concept Note to address the concern raised by the review.</p>

		<p>can potentially tip the biodiversity balance in the area of intervention (this is relevant to both water and terrestrial ecosystems). Please refer to CR9 and CR10 above.</p> <p>CR22: Please address the project's social sustainability.</p> <p>CR23: Please clarify how the project is integrating the ecological sustainability dimensions of further development and dependence on fisheries commodity through outputs 2.2.1 and 2.2.2. Both from the carrying capacity of capture-fisheries (e.g., need to diversify and lessen dependence and capture fishery off-take), as well as the potential environmental impacts/externalities of aquaculture development. Furthermore, are sustainable fishery management policies that consider climate change impacts in place? This may be a necessary complementary policy measure for any further fishery development.</p>	<p>CR 22: Cleared.</p> <p>As per the additional information provided on page 26.</p> <p>CR 23: Not cleared.</p> <p>Comment not addressed.</p> <p>Please clarify how the project is integrating the ecological sustainability dimensions of further development and dependence on fisheries commodity.</p>
	<p>14. Does the project / programme provide an overview of environmental and social impacts / risks identified, in compliance with the Environmental</p>	<p>Partially.</p> <p>An initial gender assessment has been included that gives information on gender roles in the proposed project area. The assessment will benefit from additional description of the gender</p>	<p>CAR 3: Cleared</p> <p>As per the additional information provided on pages 26-28, 30, and 46.</p>

	and Social Policy and Gender Policy of the Fund?	<p>context in the proposed project area as well as more quantitative data. Please refer to CR8 above.</p> <p>CAR3: Based on proposed activities such as the use of suckermouth catfish and non-identified trees for erosion control, further compliance assessment might be required for the Principle 10 Conservation of Biological Diversity; Principle 9. Natural Habitat Protection; and Principles 15. Soil and Land Conservation. Further assessment, mitigation measures and change to project design may be required for alignment with Principles 9, 10 and 15 to prevent harm and ensure positive impacts from the following activities: <i>agroforestry; planting erosion-controlling plants; and aquaculture development, among others.</i></p> <p>CR24: Please revisit the risks section to provide a more comprehensive and informed screening process of the environmental and social impacts in light of each of the 15 ESP principles.</p> <p>CAR4: Please consistent with the AF ESP, state the project's category as either A, B or C with adequate justification for the risk categorization.</p>	<p>CR 24: Cleared.</p> <p>As per the additional information provided on page 30.</p> <p>CAR 4: Cleared.</p> <p>As per the additional information provided on page 26.</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?	Yes. Implementing Entity Management Fee is \$77,799 or 8.5% of the total project budget (\$915,282).	-
	3. Are the Project/Programme Execution Costs at or below 9.5 per cent of the total project/programme budget (including the fee)?	Yes. Project/Programme Execution Costs is \$79,408 or 8.7% of the total project budget (\$915,282).	-
Eligibility of IE	1. Is the project/programme submitted through an eligible Implementing Entity that has been accredited by the Board?	Yes. Kemitraan (The Partnership for Governance Reform) is an accredited National Implementing Entity.	-
Implementation Arrangements	1. Is there adequate arrangement for project / programme management, in compliance with the Gender Policy of the Fund?	n/a at concept stage	
	2. Are there measures for financial and project/programme risk management?	n/a at concept stage	
	3. Are there measures in place for the management of for environmental and	n/a at concept stage	

	social risks, in line with the Environmental and Social Policy and Gender Policy of the Fund?		
	4. Is a budget on the Implementing Entity Management Fee use included?	n/a at concept stage	
	5. Is an explanation and a breakdown of the execution costs included?	n/a at concept stage	
	6. Is a detailed budget including budget notes included?	n/a at concept stage	
	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?	n/a at concept stage	
	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?	n/a at concept stage	
	9. Does the project/programme's	n/a at concept stage	

	results framework align with the AF's results framework? Does it include at least one core outcome indicator from the Fund's results framework?		
	10. Is a disbursement schedule with time-bound milestones included?	n/a at concept stage	



ADAPTATION FUND

ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: SMALL-SIZED PROJECT CONCEPT

Country/Region: Indonesia

Project Title: Sustainable Landscape Governance; Towards Climate Resilience of Community in Tempe Lake Ecosystem

Thematic Focal Area: Rural development

Implementing Entity: Kemitraan (The Partnership for Governance Reform)

Executing Entities: Tim Layanan Kehutanan Masyarakat (TLKM); Yayasan Romang Celebes Indonesia; Yayasan AKU Rimba Indonesia

AF Project ID: AF00000302

IE Project ID:

Reviewer and contact person: Andrew Chilombo

IE Contact Person: Laode M. Syarif

Requested Financing from Adaptation Fund (US Dollars): 993,081

Co-reviewer(s): Hannah Fairbank

Technical Summary	<p>The project “Sustainable Landscape Governance; Towards Climate Resilience of Community in Tempe Lake Ecosystem” aims to encourage sustainable governance as an effort to adapt and increase the climate resilience of the Tempe Lake ecosystem community This will be done through the four components below:</p> <p><u>Component 1:</u> Improving land use practices in the Tempe Lake ecosystem that contributes to sedimentation restraint (USD 375,874);</p> <p><u>Component 2:</u> Reinforcing the economic resilience of the community in the Tempe Lake ecosystem through livelihoods enhancement (USD 284,615);</p> <p><u>Component 3:</u> Encouraging collaborative action of stakeholders and cross-sectoral policies related to climate change adaptation (USD 98,252);</p> <p><u>Component 4:</u> Increasing knowledge capacity and community awareness regarding climate change adaptation through knowledge management and youth-based campaigns (USD 77,133).</p> <p><u>Requested financing overview:</u> Project/Programme Execution Cost: USD 79,408</p>
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	<p>Total Project/Programme Cost: USD 915,282 Implementing Fee: USD 77,799 Financing Requested: USD 993,081</p> <p>The proposal includes a request for a project formulation grant of USD 50,000.</p> <p>The initial technical review raises several issues, such as the lack of a coherent adaptation rationale, cost-effectiveness, stakeholder consultations and knowledge management components, among others, as is discussed in the number of Clarification Requests (CRs) and Corrective Action Requests (CARs) raised in the review.</p>
Date:	August 18, 2022

Review Criteria	Questions	Comments	Response
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. The proposed project area experiences increased erratic rainfall patterns that causes flooding and damage to property, erosion and siltation, including forcing people to change their livelihoods, and even difficult to determine the right livelihood according to climatic conditions.	
Project Eligibility	1. Has the designated government authority for the Adaptation Fund endorsed the project/programme?	Yes. As per the Endorsement letter dated August 05, 2022.	
	2. Does the length of the proposal amount to no more than Fifty pages for the	Yes. The total number of pages is 49, including annexes.	

	project/programme concept, including its annexes?		
	3. 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>No.</p> <p>While the project document ably describes the vulnerable context of the proposed project area, the flow of information does not allow the appreciation of how proposed activities will address the issues raised in the project area.</p> <p>Overall, the coherence between the project area context and proposed activities is very weak in some cases and absent in others. It would be useful to restructure the project description to include an identification of main barriers that hinder or stifle communities' ability to cope with adaptation challenges (which also need to be clearly described) and render the socioecological system less resilient and more vulnerable to the vagaries of climate change.</p> <p>CR1: Please revise the project's description and outline the adaptation challenges as well as the barriers to address these challenges and articulate how the project will tackle them. In doing so, please make clear the links between the proposed activities and the vulnerability context of the proposed project. Please also consider including a Theory of Change which to clarify such links.</p> <p>CR2: Please improve the coherence of the project rationale and further elaborate and better articulate each of the components'</p>	<p>CR1: Revised. We rewrote and added paragraphs in <u>PART I. 'Project Background and Context'</u> (paragraph <u>#14 #15 #16 #17 #18 #23 #24 #25</u>) and <u>PART II. A. Project Component</u> (paragraph <u>#34 #40 #49 #55</u>) to make it easier to read and understand.</p> <p>This project, in general, addresses four major issues:</p> <ol style="list-style-type: none"> 1) The sedimentation rate in Lake Tempe is 1-3 cm per year, so interventions are required to improve land use in Tempe Lake's upstream catchment area through erosion restraint efforts by planting agroforestry patterns and preventing erosion crops; 2) The land-based economical practices by community in forest landscapes (upstream catchment areas/highlands) is currently still dominated by monoculture agriculture. As a result, intervention is required in order to develop alternative commodities in forest landscapes. Meanwhile, due to flooding, fish catches in lake areas are decreasing. The intervention will focus on developing aquaculture businesses and diversifying processed fish products; 3) The lack of collaborative actions between parties in encouraging regional climate change adaptation actions makes it more difficult to

		<p>description, and the basis for the proposed outputs and outcomes.</p> <p>Some of the links between the project's proposed indicators and AF's outcome and outcome indicators seem stretched. For example, it is not clear how <i>'200 people (farmers from villages) increased their capacity for erosion control support 'strengthening institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses.'</i></p> <p>CR3: Please clarify the link between the project indicators and the AF' outcomes.</p> <p>CR4: For Outcomes 3.1 and 3.2 and associated outputs, please clarify the use of the term "encouraging" since this is an adjective, and we are looking for results e.g., outcomes and outputs. What will be the outcome and outputs of the proposed activities?</p>	<p>address problems that occur in Tempe Lake that have a direct impact on the community. As a result, the intervention delivered is to promote cross-sectoral policies in the form of Regional Action Plans for Climate Change Adaptation (RAD-API), as well as to strengthen multi-stakeholder collaborative action through the formation and strengthening of the Climate Change Adaptation Working Group (POKJA API);</p> <p>4) Lack of widespread knowledge and understanding of climate change adaptation at the community level has resulted in a lack of local-based climate change adaptation actions, particularly among youth who can act as agents of change at the village level. As a result, through knowledge management, dissemination, and strengthening of youth-based movements, this project will intervene in capacity building and information dissemination.</p> <p>To make it easier to understand the flow of the context and intervention of this project, we created a Theory of Change which can be seen in <u>Part II. A. Project Component page 11 (Figure 9).</u></p> <p>CR 2: Revised. As previously explained in the response to CR 1, we have made the project description flow and project rationale more coherent. We have also</p>
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			<p>made sentence improvements to <u>Components (1, 2, 3), Outcomes (1.1, 1.2, 3.1, 3.2, 4.1, 4.2), and Output (1.1.1, 1.1.2, 1.2.1, 2.2.3, 3.1.1, 3.2.1, 4.1.1, 4.2.1).</u></p> <p>CR 3: Revised. We have changed the alignment of the proposed project indicators with the AF indicators, after further consideration. Improvements in this section can be seen in <u>PART III. F. Alignment With Adaptation Fund Framework table (page 34-36).</u></p> <p>CR 4: The use of the term "encouraging" that we mean here is forcing/urging local governments to take concrete actions in response to climate change. However, through further consideration, we have revised the use of the term "encourage" to "strengthen", so that achievements can be more easily measured.</p> <p>The result expected for in achievement 3.1 is the formation of 1 Working Group on Climate Change Adaptation (POKJA API) and the ratification of policies related to the climate change adaptation action plan. While achievement 3.2 is that there are 4 climate villages registered in the project intervention village</p>
	4. Does the project / programme provide economic, social and environmental benefits, particularly to vulnerable communities,	<p>Unclear.</p> <p>The project makes explicit mention of economic, social and environmental benefits that will accrue to communities. However, the information is too thin and lacks clear specificities.</p>	<p>CR 5: The project's creative businesses are based on local potential, such as creative businesses of candlenut, coffee, palm sugar, and honey [for forestry commodity], fish cultivation, and fish processed product [for fishery commodity]. 165 people will benefit from the entire</p>

	<p>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>CR5: The pathway to improving the economic opportunities is absent from the project description. Please clarify the type of the creative businesses that the project will support, including the estimated number of beneficiaries (women, youth and vulnerable groups e.g., minorities, marginalized groups, disabilities, elderly).</p> <p>The project mentions, ‘... the multi-stakeholder communication spaces initiated in this project are based on justice and inclusiveness so that all elements of society have the same opportunity to express their opinion and be actively involved in the development of climate-resilient regions.’ This is quite vague and too ambitious.</p> <p>CR6: Please clarify the mechanisms of multi-stakeholder engagement to ensure meaningful community participation, considering the power play among different stakeholders.</p> <p>CR7: Please provide additional information regarding the socioeconomic context of the youth and vulnerable groups (e.g., minorities, marginalized groups, people with disabilities, elderly in the project area). Particularly, provide information on the women’s and men’s roles to highlight different needs, capabilities, and knowledge resources.</p> <p>CR8: The project has an initial gender assessment. However, more information on</p>	<p>creative business that will be built later, including marginalized groups, women, and farmers. We've also updated PART II. A. Project Components that include information about the types of creative endeavors that will be undertaken. We already revised this section that can see at <u>page 13, paragraph 42 & 46</u>.</p> <p>CR 6: The multi-stakeholder communication space that will be formed from this project is the Climate Change Adaptation Working Group (POKJA API). The POKJA API includes elements from the government (provincial, district, and village), NGOs, universities, and community groups. Of course, this is a major challenge. To ensure inclusivity in this forum, proper stakeholder analysis, intensive and strong advocacy, and communication are required. At the very least, the existence of this working group allows the community to build communication and voice opinions about issues that they are directly experiencing.</p> <p>CR 7: Revised. We have added additional information on the context of youth as well as vulnerable groups in <u>PART I. ‘Project Background and Context – Socio-economic Context in paragraph 23</u>.</p> <p>Women are rarely involved in activities related to decision making and planning, according to the preliminary data we obtained. In general, when women are</p>
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		<p>gender is required to identify and acknowledge gender norms, relations and inequalities, as a basis to propose concrete actions to address gender differentials to contribute to gender transformation in the proposed project area.</p> <p>The project intends to engage in agroforestry systems to control erosion. However, it is silent on the type of tree species, and how adaptable they are to the local environment.</p> <p>CR9: Please clarify what type of tree species will be used in the agroforestry systems and how they will adapt to the local environment.</p> <p>The use of suckermouth catfish (native to South America) needs further assessment, given that this type of fish is known to i) compete for food and space with native species; and ii) create burrows which cause increased erosion and sedimentation. Page 15, #52 Environmental Benefits: includes the “use of <i>suckermouth catfish</i> will reduce pests in Tempe Lake to keep the fish ecosystem in the lake in balance.” Whereas in other places in the concept this species is referred to as a threat and target for eradication activities. This is inconsistent and confusing.</p> <p>CR10: Please also note that the Adaptation Fund’s environmental and social policy explicitly prohibits the introduction of invasive species and requires that projects be designed and implemented “in a way that avoids any significant or unjustified reduction</p>	<p>involved, their tasks are limited to providing meeting meals, so they are only minimally involved and do not learn much. We have added information on this context in paragraphs 24 & 25 (page 7).</p> <p>CR 8: The gender norms inherent in the current system of life have a structural problem. Gender is defined as a set of rules that require men and women to express themselves in accordance with that definition. As a result, unequal relationships between men and women emerge. This unequal gender construction produces other unequal products, such as women being treated as second-class citizens, exploiting energy, discrediting roles, and having little bargaining power (minimum wages).</p> <p>In the initial assessment, a concrete specific example from the data of female respondents stated that the division of labor in the household always places women in the domestic sphere and men are responsible for economic fulfillment. This strengthens men's roles as decision-making control holders, and women will always be forced to obey men's decisions (husbands). As a result, all economic standards will be identified with the condition of men as opposed to women. Women will be disguised as family members or primary breadwinners under this condition.</p>
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		<p>or loss of biodiversity.” (pg 5, #21). Therefore: <u>Please remove the use of, support or introduction of non-native and invasive species of all types (fish, plant, animal, insect etc), including suckermouth catfish, from this project, in line with AF policy.</u> Notably this fish species is prohibited by law from entering Indonesia due to the potentially harmful impacts of introduction and has specifically been identified as a threat to endemic fish species of Tempe Lake specifically (AMIR, Nursinah; SYAHRUL, Syahrul; DJAMALUDDIN, Nursyamsi. Suckermouth Catfish (<i>Pterygoplichthys pardalis</i>) In Wajo Regency, South Sulawesi Province: The Heavy Metal Content of Lead (Pb), Mercury (Hg) and Arsenic (As). Agrikan: Jurnal Agribisnis Perikanan, [S.I.], v. 13, n. 2, p. 168-174, dec. 2020. ISSN 2621-0193. Available at: https://ejournal.stipwunaraha.ac.id/index.php/AGRIKAN/article/view/398</p>	<p>We added some information about this context in <u>Annex 3. Gender Assessment (pages 47-48)</u></p> <p>CR 9: The trees that will be used in the agroforestry system will have multiple purposes (MPTs), in addition to ecological and economic functions. Rambutan (<i>Nephelium lappaceum</i>), breadfruit, candlenut, coffee, and other plants will be planted. The plant selection will be suited to the conditions of each planting location, considering the suitability of the land with plants. In addition to these trees, planting will be done to control the rate of erosion. The plant that is meant is vertiver, also known as <i>Arachis pintoii</i>. Additional information on this can be seen in <u>PART II. A. Project Components paragraph 36 (page 12).</u></p> <p>CR 10: This sentence has been rewritten. This project does not intend to use suckermouth catfish because we are well aware of how dangerous their presence can be. Suckermouth catfish is a type of fish that is invasive to other types of fish in Lake Tempe's waters. Suckermouth catfish, according to reports, have disrupted the breeding cycles of other fish species. The amount of fish consumed in Tempe Lake is decreasing year after year. Previously, fishermen could catch 2-3 baskets of fish, but now it is extremely difficult to catch even one basket. As a result, we define this</p>
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			<p>suckermouth catfish as a 'pest' (as stated in paragraph 30), and this project will deal with it by cultivating fish in cages. This is done to prevent consumption fish from interacting with this suckermouth catfish, allowing the consumption fish breeding cycle to continue indefinitely.</p> <p>Improvements in this section can be seen in <u>PART II. B. Economic, Social, and Environmental Benefits, paragraph 64 (page 16)</u>.</p>
	5. Is the project / programme cost effective?	<p>Unclear. The project provides figures to highlight the project's cost-effectiveness. However, it is not clear how these figures were derived.</p> <p>CR11: Please provide additional information to clarify the cost-effectiveness of the selected approach. Additionally, the project needs to demonstrate how aspects of sustainability will contribute to its cost-effectiveness.</p>	<p>CR 11: The results of the multi-stakeholder discussion explained that floods and erosion almost always occur in the area of Lake Tempe which causes the average cost of handling the two disasters to be USD \$ 4,000,000 per year. This condition is only a countermeasure step and does not have an impact on improving the quality of life and community welfare. Through the initiation of the AF project, we tried to intervene through an additional cost of \$993,081 with the aim of (1) improving land use of 500 Ha in forest landscapes that contribute to sedimentation control in the Tempe Lake ecosystem, (2) Increasing the economic resilience of the Lake Tempe community through development creative efforts in the forestry and fisheries sector, (3) strengthening multi-stakeholder collaborative action and cross-sectoral policies related to climate change adaptation and (4) increasing knowledge capacity and public awareness related to climate change adaptation that supports</p>

			<p>knowledge management and youth-based campaigns, and still includes components above average countermeasures costs. The final result in the projected effectiveness assessment during the project period has shown the value of improvement due to the improvement in the living standard of the community so that it affects the cost effectiveness which was initially assessed as equivalent to 4,000,000 to 3,287,770.</p> <p>Even this effectiveness, during the project period, did not include the value of the production of commodities developed by the community because we consider the 2 year period as the investment period for all stakeholders in developing their capacity. If we assess over the next 10 years, it is assumed that production functions can run quite well and have a production value of at least 6 years into the future, then the results of the analysis show changes in cost effectiveness which should have an average value of 4 million to 657,554</p>
	6. Is the project / programme consistent with national or sub-national sustainable development strategies, national or sub-national development plans, poverty reduction strategies, national	<p>Partially.</p> <p>The project description alludes to the Nationally Determined Contributions (NDC), National Action Plan for Climate Change Adaptation (RAN-API), and the Presidential Regulation 60 of 2021. However, this section needs further development to include how the project contributes to LDN and SDGs.</p>	<p>CR 12: We have included and explained how this project contributes to the development of the SDGs, Indonesia's Medium Term Development Plan (RPJMN) for 2020-2024, and regulations on Social Forestry, namely Minister of Environment and Forestry Regulation No. P. 9 of 2021, in this section. Furthermore, we have added Wajo District Regulation No. 14 of 2016 concerning the use of tempe lake as a cultivation area and Wajo</p>

	communications and adaptation programs of action and other relevant instruments?	CR12: Please revise this section to outline more explicitly how the project is linked and consistent with national and sub-national priorities, strategies etc.	District Regulation No. 12 of 2017 concerning micro, small, and medium enterprises on a subnational scale. Changes can be seen in <u>PART II. D. Alignment with National and Sub-National Sustainable Development Strategies (pages 17-19)</u>
	7. Does the project / programme meet the relevant national technical standards, where applicable, in compliance with the Environmental and Social Policy of the Fund?	<p>No.</p> <p>The project alludes to a number of regulations, namely: the Minister of Environment and Forestry Regulation No. P. 89 of 2018 regarding guidelines for the development of social forestry groups; the Minister of Environment and Forestry Regulation No. 84 of 2016; the Law Number 20 of 2008 concerning Micro, Small, and Medium Enterprises; and the Wajo District Regulation No. 12 of 2017 Wajo District Regional Regulation Number 14 of 2016 concerning the use of Tempe Lake for aquaculture.</p> <p>However, these are more regulations than technical standards and would be more appropriate in the section 6 that is related to consistent with national or sub-national sustainable development strategies, national or sub-national development plans, poverty reduction strategies.</p> <p>CR13: Please amend this section and provide a list of all national technical standards, specifying how the project complies with each. These can include building codes, water quality regulations, land use or tenure regulations, etc.</p>	<p>CR 13: We recognize that the rules listed earlier are better suited to the sub-national section, so we've included a few national standards that are more appropriate. P7/PDASHL/2017 regarding agroforestry procedures and guidelines, Director General of Fisheries No. 38 of 2021 regarding instructions for assisting floating net cages, and Minister of Marine Affairs and Fisheries Regulation No. 12 of 2007 concerning fish cultivation permits are among the rules included in the technical standard. Changes can be seen in <u>PART II. E. Compliance with National Technical Standards (page 19)</u></p>

		Furthermore, unidentified sub-projects may be present and should be screened for via the Environmental, Social and Gender Policies of the AF. Please refer to CR24 and CAR3 below.	
	8. Is there duplication of project / programme with other funding sources?	<p>Unclear.</p> <p>The proposal simply states that there's no duplication with other funding sources. However, no list of proposal was included. The Proponent should engage with other development partners to identify potentially all overlapping interventions and identify synergies and complementarities as well as lessons to inform the eventual design and implementation of the project.</p> <p>CAR1: Please identify and include a list of all potentially overlapping projects (past, ongoing and under-development) and state lack of overlap or complementarity in a logical manner. Please also outline all linkages and synergies with all relevant potentially overlapping projects / programmes, including areas of overlap and complementarity, drawing lessons from the earlier initiatives during the project design, learning from their problems/mistakes.</p>	<p>CAR 1: We include information about a Tempe Lake management plan program/project that was included in the Lake Rescue Movement (GERMADAN) in 2014. However, this program does not appear to have had a significant impact on Lake Tempe. This is evident from the flooding caused by overflowing lake water, which continues to occur and has increased in the last two years. The GERMADAN project intervention districts are generally the same as the proposed project intervention locations, but the intervention villages are markedly different. We added information about this in <u>PART II. F. Duplication of Project (page 19)</u>.</p>
	9. Does the project / programme have a learning and knowledge management component to	<p>Unclear.</p> <p>Component 4 covers the learning and knowledge management aspects of the project. However, additional information is required to clarify the following.</p>	<p>CR 14:</p> <p>i) Knowledge products that will be made are short video documentary, best practice book, poster, banner, infographic, operating website and social media platform which will</p>

	capture and feedback lessons?	<p>CR14: Please clarify i) the kind of lessons and knowledge products of the project; ii) dissemination mechanisms; and iii) target audience and how information will be tailored (including how many people are likely to benefit from the envisaged knowledge products).</p>	<p>provide the best learning from the project achievements.</p> <p>ii) The dissemination mechanism used differs depending on the knowledge product created. A short documentary video will be created from the beginning to the end of the project (the aim is to see what changes have occurred). We provide a team that creates video documentaries, and their job is simply to capture the changes that occur. Best Practice Book, a book based on the project's success stories, including how these changes can occur and what approach is used in the process, which is then published and disseminated to the general public as a lesson for others. Local governments, villages, and communities will receive posters, banners, and infographics. This is a lesson and resource for many aspects of the importance of climate change adaptation. The website and social media platforms will be used to disseminate information about program developments and adaptation actions.</p> <p>iii) The target of information dissemination is the beneficiaries in village interventions in the Lake Tempe ecosystem, including the governments. Approximately 20.000 persons from 11 villages interventions</p>
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			will get the information by the dissemination process.
	10. 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>Unclear.</p> <p>The description of the section on the consultative process is vague.</p> <p>CR15: Please clarify the mechanisms of consultations that were conducted, if any.</p> <p>CR16: Please state how gender aspects were taken into account during the initial consultations, as well as other vulnerable groups identified in the proposed project area – including how their concerns are reflected in the project design. It is unclear whether and how these consultations have taken into account gender equality and women’s empowerment issues in line with the AF Gender Policy.</p> <p>CR17: Please clarify if the stakeholders in the table in par. 76 were the ones who were consulted during the preparation of this concept note, or if they are intended to be consulted in the development of the project. Please note that at this stage of the proposal, an initial consultation with relevant stakeholder should have taken place.</p>	<p>CR 15: In this consultation process, there is no standard mechanism. We met with a variety of parties and had open but in-depth discussions. Depending on the stakeholders we meet, we share data and information about the state of the Tempe Lake ecosystem, which is deteriorating due to climate change. We also improved the description in <u>Part II, H. Consultative Process, paragraph 95-96 (page 20)</u>.</p> <p>CR 16: We have added additional information regarding the results of the consultation regarding gender context at the village/<i>kelurahan</i> level to the table in <u>PART II. H. Consultative Process (pages 20-24)</u></p> <p>CR 17: The initial consultation process with stakeholders has been completed, and all of the parties mentioned are those who provide data and information about the condition of the Tempe Lake ecosystem as it relates to climate change. In fact, all parties have given their full support in both the preparation of the concept note and the subsequent development of the project.</p>
	11. Is the requested financing justified on the basis of full cost of adaptation reasoning?	<p>No.</p> <p>The project proposal talks about governance, land management, increasing resilience, reducing vulnerability, and increasing capacity. These aspects are important;</p>	<p>CR 18:</p> <ul style="list-style-type: none"> - What we mean by "<i>The number of people affected by climate change disasters continues to increase</i>" sentence refers to economic context. According to the data, there has been

		<p>however, there is no clear coherence to meaningfully understand the adaptation reasoning of the project. Please refer to CR1 above.</p> <p>The link between proposed interventions and increasing and reducing community vulnerability is weak. The case has not satisfactorily been made. The logical flow of information as well as proposed activities do not make it clear how the project will achieve its objective. Please refer to CR1 and CR2 above.</p> <p>CR18: The document in the Table in par. 78 has several statements that are unclear. Please clarify what is meant by the following statements:</p> <ul style="list-style-type: none"> - <i>"The number of people affected by climate change disasters continues to increase."</i> Please clarify if it is the number of people that is increasing or if it is the economic context of the affected people that keeps on worsening? - <i>"It will reduce the number of people affected by climate change".</i> Do you mean that the economic context of the affected people will be improved? - <i>"There is no firm commitment due to the system's weakness and policymakers' capacity to reduce climate risk, which further</i> 	<p>a decrease in agricultural and fishery productivity as a result of weather anomalies. Farmers in the agricultural sector have experienced crop failure four times in the last two years, while fish catches in the fisheries sector have decreased for the last two years.</p> <ul style="list-style-type: none"> - The sentence <i>"It will reduce the number of people affected by climate change"</i> refers to an economic context. This project, with AF funding, will seek to develop creative businesses by carrying out cultivation and product processing processes in an effort to increase community productivity, which has recently decreased due to weather anomalies. - We state that there is no strong commitment to reducing climate risk due to the system's weakness and policymakers' capacity, which exacerbates the impact of climate change on the community, because there is no form of coordination and synergy from policymakers at the regional level in preparing regional development programs that lead to efforts to reduce climate risk. Regional policymakers only focus on their respective sectors, for example, agriculture only focuses on paddy fields, forestry only on forest areas, and so on, despite the fact that they are, in theory, a unit implementing development programs that should be
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		<p><i>exacerbates the impact of climate change on society.” Please clarify the argumentation behind this statement.</i></p> <ul style="list-style-type: none"> - <i>“It will reduce the impact of climate change by increasing community resilience by encouraging the government to formulate policies and budgets related to climate change adaptation actions. Through this project funding, all these processes will be facilitated”. Please clarify what is meant by this. How will the government policies lead to increasing communities’ resilience? And what processes will the project facilitate?</i> 	<p>able to coordinate and collaborate with each other in establishing development programs. Climate change adaptation or mitigation is related to the risks and impacts of climate change.</p> <ul style="list-style-type: none"> - This project component aims to persuade the government to establish cross-sectoral forums and develop policies for climate change adaptation. Furthermore, this forum and policy will serve as a space for communities to collaborate in developing development programs that increase community climate resilience or, at the very least, ensure that government development programs that lead to community economic improvement are not mistargeted, thereby reducing the community's potential vulnerability. The project will facilitate in the establishment of cross-sectoral forums and the formulation of climate change adaptation policies. Furthermore, we will facilitate ongoing coordination between parties.
	12. Is the project / program aligned with AF’s results framework?	<p>Partially.</p> <p>CR19: Please clarify how <i>“200 people increased their capacity for erosion control”</i> is aligned with strengthening institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses (AF Outcome 2) and Capacity of staff to respond to, and mitigate impacts of, climate-related events from</p>	<p>CR 19: After further consideration. we have adjusted the project indicators to the AF indicators (as explained also in CR 3). Changes can be seen in <u>PART III. F. Alignment With Adaptation Fund Framework table (page 34-36).</u></p> <p>CAR 2: Revised. Some of the indicator terms have been changed to make them easier to understand and measure. Can be seen in <u>PART III. E. Result Framework</u></p>

		<p>targeted institutions increased (AF Outcome indicator).</p> <p>CAR2: Please rephrase some of the indicators to ensure they read as indicators.</p>	<p>(page 32-34) and <u>PART III. F. Alignment With Adaptation Fund Framework table (page 34-36).</u></p>
	<p>13. Has the sustainability of the project/programme outcomes been taken into account when designing the project?</p>	<p>Partially.</p> <p>CR20: Please clarify the operationalisation of POKJA API beyond the life of the project. Will it operate as a funding mechanism?</p> <p>CR21: Please clarify how aquaculture groups are linked to the institutional arrangements in the country proposed regional levels? How will these be sustained? Additional information regarding what the project concretely intends to do to ensure environmental sustainability is required. Introduction of species to control erosion needs clarification and confirmation of the types of species to avoid invasive species or species that can potentially tip the biodiversity balance in the area of intervention (this is relevant to both water and terrestrial ecosystems). Please refer to CR9 and CR10 above.</p> <p>CR22: Please address the project's social sustainability.</p> <p>CR23: Please clarify how the project is integrating the ecological sustainability dimensions of further development and dependence on fisheries commodity through outputs 2.2.1 and 2.2.2. Both from the</p>	<p>CR 20: The POKJA API was formed by combining several elements, including the provincial government, local government, village government, local community, universities, and NGOs. This project will facilitate regular meetings, regional action plans, and regulatory advocacy at the regional level as part of the process of establishing the POKJA API. When this planning becomes a policy product, the planning implementation process can be funded through the Regional Revenue and Expenditure Budget (APBD) or other climate change adaptation funding. This group was formed primarily to integrate regional planning into project intervention areas.</p> <p>CR 21: Aquaculture groups will be formed in accordance with Article 24 of the Government Regulation of the Republic of Indonesia No. 50 of 2015 concerning Empowerment of Small Fishermen and Small Fish Cultivators. To ensure the group's sustainability, they will collaborate with fish business groups and other markets, allowing this group to become a fish supplier.</p> <p>CR 22: Addressed. We have added social sustainability, which includes community</p>

		<p>carrying capacity of capture-fisheries (e.g., need to diversify and lessen dependence and capture fishery off-take), as well as the potential environmental impacts/externalities of aquaculture development. Furthermore, are sustainable fishery management policies that consider climate change impacts in place? This may be a necessary complementary policy measure for any further fishery development.</p>	<p>group rules and planning. Changes can be seen on the <u>PART II. J. Sustainability (page 26, paragraph 109-110)</u>.</p> <p>CR 23: The presence of local fish cultivation activities demonstrates the ecological sustainability of fishery commodities. By continuing to keep and breed fish species that have been reduced. Fish farming is important because the type of suckermouth catfish has a large impact on the breeding of other types of fish. As a result, the later cultivation model will be through fish cages, which will reduce interaction between suckermouth catfish and cultured fish (consumed fish).</p> <p>So far, there is lack of sustainable fisheries management has been implemented in Tempe Lake; instead, the local community relies solely on fish traps known as "<i>bongkato'do</i>" in the local language and measuring 100 m x 100 m in size. As a result, cultivation using cage will be a local innovation to maintain the production and preservation of fish in Tempe Lake.</p>
	<p>14. Does the project / programme provide an overview of environmental and social impacts / risks identified, in compliance with the Environmental and</p>	<p>Partially.</p> <p>An initial gender assessment has been included that gives information on gender roles in the proposed project area. The assessment will benefit from additional description of the gender context in the</p>	<p>CAR 3: We have added Principle 15. Soil and Land Conservation in consideration of environmental risks.</p> <p>As for Principle 9. Protection of Natural Habitats and Principle 10. Conservation of Biodiversity, we consider that no further assessment needed. We have previously</p>

	Social Policy and Gender Policy of the Fund?	<p>proposed project area as well as more quantitative data. Please refer to CR8 above.</p> <p>CAR3: Based on proposed activities such as the use of suckermouth catfish and non-identified trees for erosion control, further compliance assessment might be required for the Principle 10 Conservation of Biological Diversity; Principle 9. Natural Habitat Protection; and Principles 15. Soil and Land Conservation. Further assessment, mitigation measures and change to project design may be required for alignment with Principles 9, 10 and 15 to prevent harm and ensure positive impacts from the following activities: <i>agroforestry; planting erosion-controlling plants; and aquaculture development, among others.</i></p> <p>CR24: Please revisit the risks section to provide a more comprehensive and informed screening process of the environmental and social impacts in light of each of the 15 ESP principles.</p> <p>CAR4: Please consistent with the AF ESP, state the project's category as either A, B or C with adequate justification for the risk categorization.</p>	<p>clarified that we will not be using or utilizing suckermouth catfish in this project. This project, as well, is not intended to reduce the suckermouth catfish population, but rather at avoiding its interaction with the cultured fish population through the use of cages.</p> <p>Changes can be seen in <u>PART II. K. Environmental and Social Impact and Risk (pages 26-28)</u>; <u>PART III C. Environmental and Social Risk Management (pages 30)</u>; and in <u>Annex 2. Environmental and Social Management Plan (page 46)</u>.</p> <p>CR 24: We have carried out a more detailed screening of environmental and social risks based on ESP principles.</p> <p>CAR 4: Revised. We categorize the environmental and social risks of this project in category C, as we stated in <u>PART II. K. Environmental and Social Impact and Risk (page 26) paragraph 114</u>.</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	Yes.	

	per cent of the total project/programme budget before the fee?	Implementing Entity Management Fee is \$77,799 or 8.5% of the total project budget (\$915,282).	
	3. Are the Project/Programme Execution Costs at or below 9.5 per cent of the total project/programme budget (including the fee)?	Yes. Project/Programme Execution Costs is \$79,408 or 8.7% of the total project budget (\$915,282).	
Eligibility of IE	1. Is the project/programme submitted through an eligible Implementing Entity that has been accredited by the Board?	Yes. Kemitraan (The Partnership for Governance Reform) is an accredited National Implementing Entity.	
Implementation Arrangements	1. Is there adequate arrangement for project / programme management, in compliance with the Gender Policy of the Fund?	n/a at concept stage	
	2. Are there measures for financial and project/programme risk management?	n/a at concept stage	
	3. Are there measures in place for the management of for environmental and social risks, in line	n/a at concept stage	

	with the Environmental and Social Policy and Gender Policy of the Fund?		
	4. Is a budget on the Implementing Entity Management Fee use included?	n/a at concept stage	
	5. Is an explanation and a breakdown of the execution costs included?	n/a at concept stage	
	6. Is a detailed budget including budget notes included?	n/a at concept stage	
	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?	n/a at concept stage	
	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?	n/a at concept stage	

	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?	n/a at concept stage	
	10. Is a disbursement schedule with time-bound milestones included?	n/a at concept stage	



ADAPTATION FUND

PROJECT/PROGRAMME PROPOSAL TO THE ADAPTATION FUND

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PART I: PROJECT/PROGRAMME INFORMATION

Project/Programme Category : Multi-sector Projects
Country/ies : Indonesia
Title of Project/Programme : **Sustainable Landscape Governance; Towards Climate Resilience of Community in Tempe Lake Ecosystem**
Type of Implementing Entity : National Implementing Entity
Implementing Entity : Kemitraan (The Partnership for Governance Reform)
Executing Entity/ies : 1. Tim Layanan Kehutanan Masyarakat (TLKM)
2. Yayasan Romang Celebes Indonesia
3. Yayasan AKU Rimba Indonesia
Amount of Financing Requested : **\$993,081** (in U.S Dollars Equivalent)

Project / Programme Background and Context

Provide brief information on the problem the proposed project/programme is aiming to solve. Outline the economic social, development, and environmental context in which the project would operate.

1. As a unity, the **Tempe Lake Ecosystem does not only cover the waters territorial but also includes areas that affect and are affected by the lake, namely the watershed landscape.**^[1] The regions that affect Tempe Lake are the Walanae Watershed and Bila Watershed. Meanwhile, the areas affected by Tempe Lake are the Cenranae Watershed and some parts of the Walanae Watershed.^[2] Tempe Lake, located in South Sulawesi Province, is one of the 15 critical lakes in Indonesia that the Government of Indonesia has designated since 2009. Currently, the Government of Indonesia has issued Presidential Regulation Number 60 of 2021 concerning Saving National Priority Lakes and including 15 critical lakes as priority lakes, including Tempe Lake.
2. Administratively, the districts that contribute as sources of impact and recipients of both positive and negative effects in the Tempe Lake ecosystem include three districts, namely Soppeng, Wajo, and Sidenreng Rappang Districts. These three districts are directly adjacent to Tempe Lake. The Tempe Lake ecosystem is surrounded by a mountain range with an elevation of 1,500 to 3,000 meters above sea level (masl). The north watershed area in the Tempe Lake ecosystem is bounded by Bulu Simauran Mountains, Rantemario Mountains, and Latimojong Mountains in Enrekang District, with an altitude of 3,397 masl. While in the west, it is bounded by the Bulu Mallochi Mountains, Sidenreng Rappang District, and the Bulu Niniconang Mountains, Soppeng District in the south with an elevation of 1,022 masl. These areas are the upstream of the Tempe Lake ecosystem, which affect the water volume in Tempe Lake.^[3]
3. The water supply of Tempe Lake comes from the catchment area of the surrounding rivers, so Tempe Lake becomes a secondary reservoir that collects water before flowing out into Bone Bay. As a secondary reservoir for many rivers, the water level fluctuations of Tempe Lake depend on the inflow and outflow to and from Tempe Lake.^[4] Twenty-three rivers are flowing into Tempe Lake. All of these rivers are included in the two main watersheds, the Bila Watershed with an area of $\pm 1,410 \text{ km}^2$ that crosses three districts, namely Enrekang, Sidenreng Rappang, and Wajo, and Walanae Watershed with an area of $\pm 3,170 \text{ km}^2$ that crosses four districts, namely, Maros, Bone, Wajo, and Soppeng.^[5]
4. Meanwhile, the water bodies of Tempe Lake are located in three districts, namely Sidenreng Rappang 1,092.80 ha (8.67%), Soppeng 3,548.07 ha (28.16%), and Wajo 7,958.85 ha (63.17%).^[6] With a total area reaching $\pm 13,000 \text{ ha}$, Tempe Lake is a source of raw water needs for approximately 23,000 people around

^[1] Ministry of Environment and Forestry, Indonesia. (2019). Ecosystem-Based Climate Change Adaptation: Tempe Lake Ecosystem

^[2] Anila, C. (2022). The Directions for Land Use in the Batu-Batu Watershed as an Effort to Mitigate Siltation of Tempe Lake, Hasanuddin University: unpublished.

^[3] Ministry of Environment and Forestry, Indonesia. (2019). Ecosystem-Based Climate Change Adaptation: Tempe Lake Ecosystem.

^[4] Albiantir M. Parandangi, Rita Tahir Lopa, Bambang Bakri, 2020, Handling Floods in Tempe Lake with Regulatory Pools on Inflow, Journal of Engineering Research (JPE), Vol. 24, No. 2.

^[5] Fajar Setiawan and Hendro Wibowo, 2013, Physical Characteristics of Tempe Lake as a Flood Exposure Lake, Limnology Research Center – LIPI.

^[6] Primary Data Analyzed by Tim Layanan Kehutanan Masyarakat. (2022)

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Tempe Lake. In addition, there are about 26,883 ha of production paddy fields spread over four sub-districts directly adjacent to Tempe Lake.^[7] Tempe Lake is also a habitat for 19 fish types. Farmers and fishers are the primary jobs of the people around Tempe Lake. Most people take advantage of the lake tidal conditions to perform agricultural and fishing activities. The smallholders plant corn and chilies at low tide (dry season), while they become fishers at high tide (rainy season).

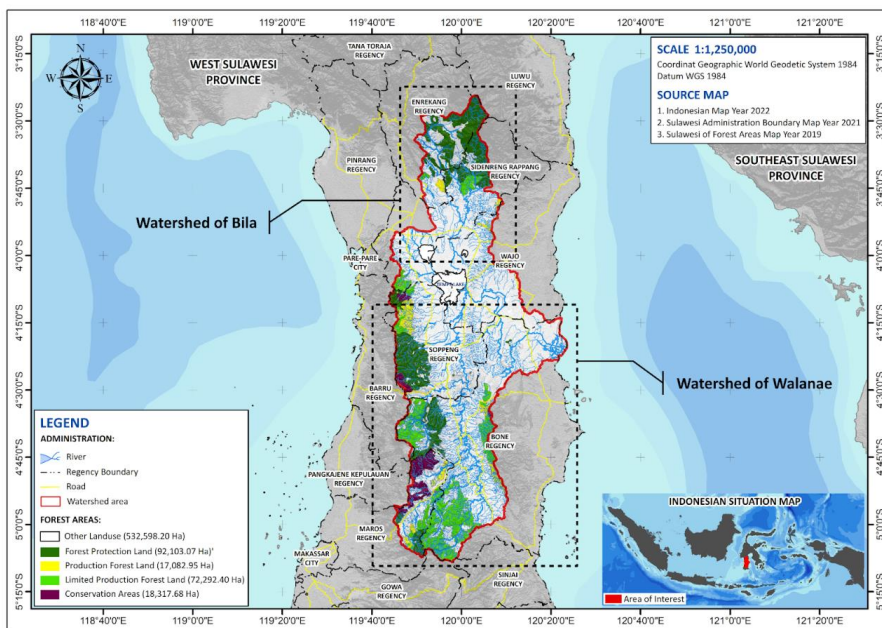


Figure 1. Tempe Lake Ecosystem Situation Map
Figure 1. Tempe Lake Ecosystem Situation Map

Environmental and Climate Change Context

- In the Tempe Lake Ecosystem context, **climate change has impacted weather anomalies**. The increased rainfall in an erratic time causes erosion and convey sediment to flow through rivers, toward Tempe Lake. This incident causes silting in the lake area and reduces the water capacity so that when the rainfall increases, flooding will occur. Floods arise almost yearly, forcing people to change their livelihoods, and even difficult to determine the right livelihood according to climatic conditions.
- The rainy and dry season occurs in March – July, and August – February, respectively, with annual rainfall in the lake area of 1,400 - 1,800 mm per year. Meanwhile, the lake catchment area is 1,400 - 4,000 mm per year. The average air temperature from March to May and from September to November is high, while from June to August and from December to February, it is low. The annual mean temperature is 25.9°C with slight seasonal variation. The maximum air temperature of 28.6°C was observed at Kanyuara station in November, and a minimum air temperature of 21.4°C was observed at Mallanroe station in July. Monthly evaporation between July – October is high, while between November – June is low. The maximum monthly evaporation was 310 mm recorded at Mallanroe station in October, and the minimum was 100 mm at Tanru Tedong station in June. The average annual evaporation is about 2,010 mm.^[8]
- Rainfall changes in the Tempe Lake Ecosystem area show an intensity increase every year. The highest rainfall in one decade (2009 - 2019) occurred in June 2018, around 2,000 mm. This rainfall increase caused catastrophic floods that submerged 52 villages and seven sub-districts in Wajo District, with a flood height of three meters.^[9] The flood level has exceeded the floor height of the stilt houses of most people, which generally have a height of 2 - 2.5 m. The flood also resulted in crop failure covering an area of 11,480 ha in three districts in South Sulawesi Province, namely Wajo 7,591 ha, Soppeng 2,969 ha, and Bone 920

⁷ Darti, B.S., Bariroh, L., Herman, S.R.W. (2022). The Dilemma of the Revitalization Policy for the Utilization of Tempe Lake, Wajo Districts. Politics and Humanism. 1(1); Thing. 1 -9.
⁸ Using the RCP4.5 scenario which is a moderate scenario.
⁹ <https://regional.kompas.com>

ha.^[10]

8. The number of flood events in the Tempe Lake ecosystem is increasing due to the rivers surrounding the lake experiencing siltation and causing a decrease in the Tempe Lake effective area. It has an impact on the overflow area expansion. This condition is caused by the high intensity of erosion in the upstream area, causing sediment flow to major lakes every rainy season. The high erosion in the upstream area of the lake is caused by the land use for the cultivation of dry land plantations (e.g., corn and cloves).

9. The monthly rainfall in Tempe Lake ranges from 90 - 270 mm per month. The results of the rainfall projection show the percentage change in the value of future rainfall ranging from -15% to 45%, which tends to be the same throughout the Tempe Lake area. However, by two models used, the CSIRO model projects an increase in rainfall of up to 45% in August-November in almost the entire area of Tempe Lake.^[11]



4- Figure 2. Flood Potrait

10. In addition, to impacting flood events around Tempe Lake, climate change also puts pressure on the Tempe Lake ecosystem. It will result in productivity and lake water quality changes in the next few decades. Climate change will affect the lake's physical, chemical, and biological characteristics. High rainfall will cause erosion which causes lake silting and reduces water quality. Increased rainfall carries not only sediment but also contaminants. Various contaminants from agricultural activities and other sources are carried away by run-off flows and further exacerbate pollution in the lake. Sedimentation also causes the loss or change of aquatic biota due to changes in the physical structure of the lake ecosystem in the form of shrinking water surface area and reduced lake depth.

11. Table 1. C The sedimentation rate in Tempe Lake is 1 – 3 cm per year. The total sediment that enters Tempe Lake is 1,069,099 m³ per year from the upstream area of the Walanae and Bila watersheds, while that which is discharged through the Cenranae River is 550,490 m³ per year. The remaining sediment that settles at the bottom of the lake is 518,609 m³ per year. If not maintained, the worst impact of sedimentation is the loss of Tempe Lake in the future. The rate of decline in the area of Tempe Lake reaches 1.48 km² per year, and it is estimated that in the dry season in 2093, Tempe Lake will disappear.

Table 1. Changes in rainfall using the outputs of the Worldclim compiled climate model

Region	Rainfall (%)				
	Baseline	Future		Delta	
		CSIRO	MIROC	CSIRO	MIROC
Sidenreng Rappang	90 – 210	105 – 255	90 – 285	-15 – 45	-15 – 20
Wajo	90 – 255	105 – 270	90 – 240	-15 – 45	-15 – 20
Soppeng	90 – 270	135 – 300	75 – 300	-15 – 45	-15 – 20
Tempe Lake	90 - 210	105 - 255	90 - 210	-15 - 45	-15 - 20

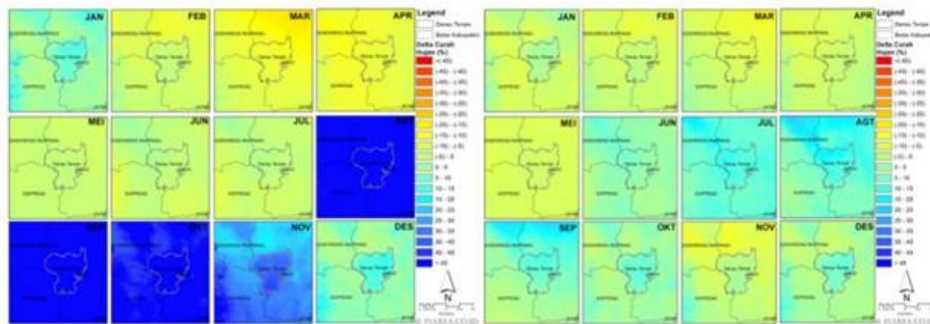


Figure 3. Percentage change in monthly rainfall models CSIRO (left) and MIROC (right) using the Worldclim compiled climate model outputs.

Figure 3. Percentage change in monthly rainfall models CSIRO (left) and MIROC (right) using the Worldclim compiled climate model outputs.

11. In the climate change analysis, the air temperature needs considering is the decrease of the minimum air temperature value and the increase of maximum air temperature because these changes tend to have the potential extreme air temperature values in the future, both extreme cold and heat. The baseline air temperature in the Tempe Lake area ranges from 21.5 - 23.5°C for the minimum and 29 - 31.5°C for the

¹⁰ <https://katadata.co.id>

¹¹ Ministry of Environment and Forestry, Indonesia. (2019). Ecosystem-Based Climate Change Adaptation: Tempe Lake Ecosystem

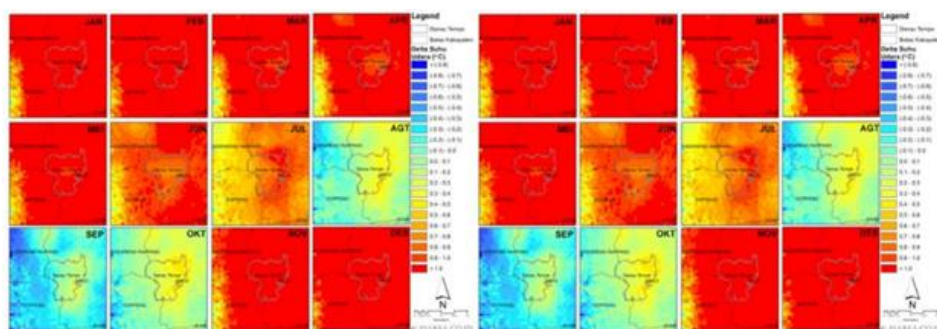
maximum temperature. The minimum air temperature changes in the Tempe Lake area range from -0.5 - 1°C, and the maximum air temperature changes between 0.3 - 1°C. For changes in maximum air temperature, the highest increase occurred in the Sidenreng Rappang and Soppeng districts from April-September. For minimum air temperature changes, the temperature values rise occurred in almost all regions except in August, September, and October.

43.12. Temperature changes will affect ecosystem functions, especially when interacting with chemical pollution. When warmer water is associated with excess nutrients from agricultural fertilizers, eutrophication and explosive plankton growth on the lake's surface will reduce dissolved oxygen in the waters, endangering the lives of other organisms in the lake ecosystem.

Table 2. Minimum Temperature Change using the Worldclim compilation climate model output

Region	Minimum Temperature (°C)				
	Baseline	Future		Delta	
		CSIRO	MIROC	CSIRO	MIROC
Sidenreng Rappang	21.5 – 23.5	21.5 – 24.5	21.5 – 24.5	-0.5 – 1	-0.5 – 1
Wajo	21.5 – 23.5	21.5 – 24.5	21.5 – 24.5	-0.5 – 1	-0.5 – 1
Soppeng	21.5 – 23.5	21.5 – 24.5	21.5 – 24.5	-0.5 – 1	-0.5 – 1
Tempe Lake	21.5 – 23.5	21.5 – 24.5	21.5 – 24.5	-0.5 – 1	-0.5 – 1

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Figure 4. Changes in the monthly minimum temperature of the CSIRO (left) and MIROC (right) models using the Worldclim compiled climate model outputs

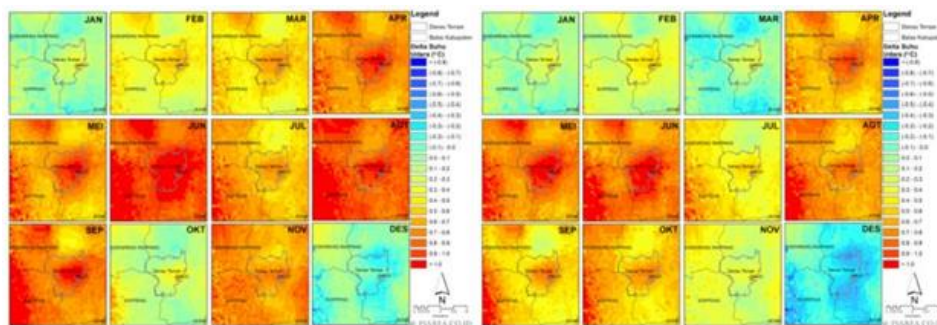
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Figure 4. Changes in the monthly minimum temperature of the CSIRO (left) and MIROC (right) models using the Worldclim compiled climate model outputs

Table 3. Maximum Temperature Change using Worldclim compiled climate model outputs

Region	Maximum Temperature (°C)				
	Baseline	Future		Delta	
		CSIRO	MIROC	CSIRO	MIROC
Sidenreng Rappang	29 - 31.5	29 - 31.5	29 - 31.5	29 - 31.5	29 - 31.5
Wajo	29 - 33	29 - 33	29 - 33	29 - 33	29 - 33
Soppeng	29 - 33	29 - 33	29 - 33	29 - 33	29 - 33
Tempe Lake	-0.3 - 1	-0.3 - 1	-0.3 - 1	-0.3 - 1	-0.3 - 1

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Figure 5. Changes in the monthly maximum temperature of the CSIRO (left) and MIROC (right) models by releasing the output of the Worldclim compiled climate model

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[44-13](#) Climate change and human activities **threaten the systematic destruction of the entire Tempe Lake ecosystem, both on the terrestrial and lake border, as well as the lake water ecosystem.** The high erosion in the upstream area is due to reduced forest land cover encouraged by land conversion for dry land plantation activities such as corn and cloves cultivation. Rice fields dominate the Tempe Lake ecosystem's land cover by 39.66%, dry land mixed with bush agriculture by 23.41%, secondary forest by 10.20%, and dry land agriculture by 7.34%. In contrast, primary and plantation forests are only 5.23% and 0.63%.

Table 4. Tempe Lake Ecosystem Land Cover

Land Cover	Area (ha)	Percentage (%)
Secondary Mangrove Forest	352	0.05
Primary Forest	38,944	5.23
Secondary Forest	75,960	10.20
Plantation Forest	4,729	0.63
Open land	1,323	0.18
Settlement	16,142	2.17
Plantation	431	0.06
Dryland farming	54,706	7.34
Mixed shrub and dryland farming	174,377	23.41
Swamp	171	0.02
Savanna	7,584	1.02
Rice field	295,437	39.66
Shrubs	39,194	5.26
Swamp Scrub	8,777	1.18
Fishpond	393	0.59
Waterbody	22,376	3.00
Grand Total	744,896	100.00

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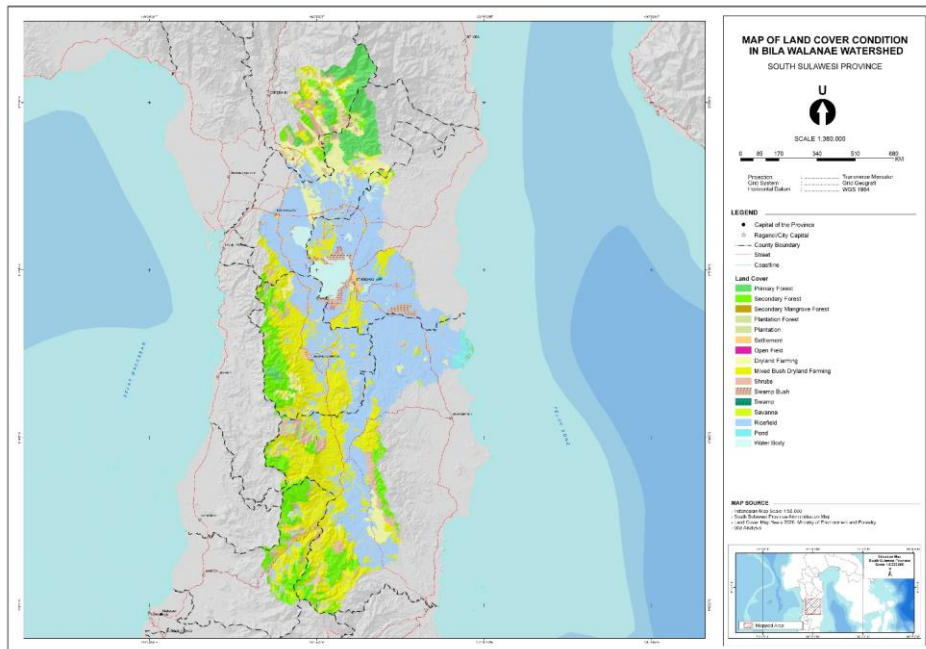


Figure 6. Map of Land Cover Conditions in the Tempe Lake Ecosystem Area

Figure 6. Map of Land Cover Conditions in the Tempe Lake Ecosystem Area

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14. **The sedimentation rate in Tempe Lake is 1 – 3 cm per year.^[12]** The total sediment that enters Tempe Lake is 1,069,099 m³ per year from the upstream area of the Walanae and Bila watersheds, while that which is discharged through the Cenranae River is 550,490 m³ per year. The remaining sediment that settles at the bottom of the lake is 518,609 m³ per year.^[13] **If not maintained, the worst impact of sedimentation is the loss of Tempe Lake in the future.** The rate of decline in the area of Tempe Lake reaches 1.48 km² per year, and it is estimated that in the dry season in 2093, Tempe Lake will disappear.^[14]

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15. Approximately 37% of the land area in the Lake Tempe ecosystem has a slope of more than 45%. The

¹² Siti Aisyah and Eldest Nomosatryo. (2016). Spatial and Temporal Distribution of Nutrients in Tempe Lake, South Sulawesi, OLDI . LIPI.

¹³ Jeneberang-Saddang Watershed and Protected Forest Management Center (BPDASHL Jeneberang-Saddang). (2018). The role of BPDASHL Jeneberang-Saddang in the Management of Tempe Lake. Paper presented at the Priority Lake Management Coordination Meeting. 8-10 August 2018.

¹⁴ Ministry of Environment. (2014). Tempe Lake Rescue Movement (GERMADAN).

majority of the land area (70%) is sensitive to soil erosion. The level of environmental damage in the Lake Tempe ecosystem's watersheds is very serious and concerning. The sedimentation rate in Lake Tempe is extremely high. Based on sediment discharge data from 1976 to 1995, the annual sedimentation rate is 519,000 m³. The Walanae River accounts for 74% of the total sediment. Lake Tempe's sedimentation varies depending on land conditions in the Bila-Walanae watershed.^[15]

16. Meanwhile, the sedimentation rate in Lake Tempe is 1.0 - 3.0 cm per year, according to the Research Center for Limnology - LIPI. Because of this sedimentation, the lake becomes shallow, resulting in floods during the rainy season and drought during the dry season. If the average sedimentation rate is assumed to be 0.37 - 0.38 cm per year, the lake will be silted up by 22-23 cm after 61 years.

17. Furthermore, it was stated that the silting in Lake Tempe was caused naturally by sediment carried by rivers that emptied into the lake, such as the Lawo, Batu-Batu, Belokka, Bila, and Walanae rivers. The occurrence of siltation reduced Lake Tempe's capacity and triggered a flood disaster in the surrounding area.^[16] The table below shows the volume of sediment transported out of Lake Tempe and the volume of sediment supplied by the river.

Table 5. Annual Sedimentation Volume

River	Base Flow	Suspended Sedimentation	Total
A. Entering the Lake			
1. Bila River	23,944 m ³	168,598 m ³	192,542 m ³
2. Walanae River	153,437 m ³	632,629 m ³	786,066 m ³
3. Other Rivers	19,094 m ³	71,397 m ³	90,491 m ³
B. Out of the Lake			
1. Cenranae River	81,000 m ³	469,490 m ³	518,609 m ³
C. Sediment Balance in Lake			
			518,609 m ³
D. Sediment Thickness			
			0.37 cm

18. Forest encroachment, shifting cultivation, and illegal logging are all sources of damage to the Lake Tempe ecosystem. This activity will result in changes in land use, which will result in erosion, which will increase the rate of sedimentation in Lake Tempe. The main cause of erosion is land use that is not in accordance with its capabilities, poor land management, and inadequate use of techniques or principles of soil and water preservation (conservation). Soil erosion can cause decreased soil fertility and productivity, the risk of flooding during the rainy season, the possibility of drought during the dry season, the silting of rivers and reservoirs, and the expansion of critical lands.^[17] Changes in land cover contribute to increased erosion, which has a direct impact on Lake Tempe's increasing sedimentation.

Socio-Economic Context

45-19. Farmers in the Tempe Lake ecosystem cultivate corn and cloves as their main livelihood. Corn and cloves are intolerant to other plant species, including trees, causing forest area clearing. It causes erosion which leads to sedimentation accumulation in Tempe Lake. As such, flooding always hits the residents on the coast of Tempe Lake at least twice a year, between April and June and November and February. Besides, in the last two years (2020-2021), farmers experienced crop failures and the sinking of public facilities. The flood occurred when the rice was ready to be harvested, so the farmers did not have time to reap the fruits of their farming, likewise with other commodities such as corn, chili, and soybeans. There are 4,677 ha of rice fields and 2,311 ha of corn yearly, and 36,685 women and 33,274 men are affected by flooding.^[18] Currently, Tempe Lake is flooded over the year, resulting in fish breeding cycle disruption, and smallholders have not yet found an adjustment form to this cycle change. Besides, fishers' catches are reduced. Recently, fishers caught around one bucket (if they are lucky to get three buckets), which collector traders value in the village at around IDR 100,000 per bucket (approximately 25 kg per bucket). Generally, fishers got 3-4 buckets per day.

46-20. Smallholders cultivate corn because it is easy to grow on various types of soil, does not require much irrigation like rice fields, and most importantly, has a stable market. One hectare of a corn field can produce five tons of corn grain in four months. One hectare of corn land can produce IDR 20,000,000 per harvest, with an expenditure of around IDR 5,000,000 for production purposes (such as fertilizers, pesticides, herbicides, and others). Sometimes, farmers have to get into debt to start their farming business. Farmers cultivate corn at least twice a year, producing a minimum of IDR 30,000,000. Market access for corn

^[15] Soewaeli, S A dan Yuningsih SM. 2014. Jurnal Teknik Hidraulik, Vol. 5 No. 1, Juni 2014: 79-82.

^[16] Regional Environmental Agency (BLHD) of South Sulawesi Province, 2012b. Report: Study of Tempe Lake Water Pollution Load Capacity. CV. Celebes Pratama Consultant. Makassar.

^[17] Husein, R and Musdah, E. (2014). Analysis of Non-structural Mitigation of Tempe Lake Flood Disaster. Journal of Government Science and Public Policy vol I. No. 3

^[18] Wajo District Central Bureau of Statistics (2021)

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commodities is also easily absorbed by the market, and traders directly come to buy from farmers. Some companies even finance farmers to cultivate corn, starting from seeds, pesticides, herbicides, and fertilizers, on the condition that farmers have to sell their crops to those companies.

47-21. In highland areas where cloves are the villager choice, the spacing of cloves is 10 x 10 meters, so there can be around 100 trees in one hectare. One tree can produce 25 kg of dry cloves, with a selling price of IDR 120,000. Cloves are harvested once a year to make IDR 300,000,000 in a year. Meanwhile, candlenut, originally the main commodity of the community in the catchment area, is currently experiencing a decline in production. According to the villager, this is caused by the aging plants, which are very old and unproductive. One farmer said that the candlenuts in his garden could only produce 500 kg of round candlenuts. The highest candlenut round is IDR 30,000, so they can get only IDR 15,000,000 in a year. This condition makes small farmers reluctant to collect candlenuts into the forest, not to mention after the process of breaking the seeds takes more time for farmers. So that farmers slowly shift to corn or cloves.



2- Figure 7. Portrait of a corn plant in the highlands

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22. The communities living in the catchment area of Tempe Lake, especially those settling within and around forest areas, have access to manage forest areas through the social forestry scheme (*Perhutanan Sosial/PS*). Social forestry is a sustainable forest management system implemented in state forest areas, private forests, customary forests by communities surrounding the forest, or customary law communities as the main actors for 35 years. In Indonesia, social forestry is regulated by Minister of Environment and Forestry Regulation No. 9 of 2021. Social forestry permits provide access for communities in and around forests to utilize forest sources. A Social Forestry Business Group (*Kelompok Usaha Perhutanan Sosial/KUPS*) was formed to improve the forest farmer's economy based on the strategic mandate of the Indonesian government's policy on social forestry. This business group is expected to be a center for developing value-added for existing commodities in the social forestry permit area. Social Forestry Business Groups have been formed in various business types, including commodity-based businesses (such as candlenuts, palm sugar, and honey), agroforestry-based, and eco-tourism-based businesses. **However, no social forestry business group is truly independent and sustainably delivered products.** Lack of knowledge in terms of cultivation and post-harvest commodities, lack of adequate means of product production, and lack of market access are the causes of the business group's stagnation.

23. The occurrence of rice harvest failure and the shrinking fish catches as a result of flooding have increased the level of community vulnerability. This incident prompted young people and their parents to leave the village in search of work as farm laborers or construction workers to meet their daily needs. Besides that, it was discovered that one community group lived quite far from the village center, making access to education and energy such as electricity difficult, and they received less attention from the local government. As a result, this project will seek the full participation of youth and marginalized groups because youths have easier access to information and knowledge, which will serve as their capital to effect change in the village through the implementation of the information and knowledge they receive. Furthermore, by pursuing independence and sustainability in the management of natural resources around them, this project will provide as much space as possible to marginalized groups.

24. Disregarding gender issues that have become stereotypes and are well established in society, resulting in the marginalization of vulnerable groups, including women. Women who are classified as domestic workers have very limited access to contexts outside the household. At the intervention site, male dominance in economic fulfillment forced women to face physical and biological standardization as the primary breadwinners. Furthermore, the community maintains a habit that places women only in matters of domestic fulfillment due to the non-disclosure of information and the lack of access provided to women.

25. In the initial gender assessment, information was gathered about the groups that bring women together in the village, whether they are involved in all group activities and what kind of benefits and information they receive, whether there are community norms that are passed down from generation to generation, and so on. So that information is obtained, there are no groups that specifically involve women or other vulnerable people in the proposed project site, and later this project will develop them as small industries so that women and vulnerable people have a space to access the benefits provided by this project. This is exacerbated by a lack of coverage of forms of adaptation fulfillment for women and other vulnerable groups, making it difficult for them to adapt to climate change. There are no economic-improvement activities that bring together women and the vulnerable. In fact, the social forestry groups formed did not include women or the vulnerable.

18.-

Developmental Context

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19-26. The Tempe Lake ecosystem, which includes three districts classified as quite vulnerable to climate change, **does not yet have policies encouraging adaptation plans for affected communities**. In addition, the issue of adaptation is a sectoral issue of the environmental service which should be a joint issue with regional agencies at the district level so that this problem can be resolved by encouraging the formation of a working group consisting of related regional stakeholders. This working group is intended to develop a **Regional Action Plan for Climate Change Adaptation (Rencana Aksi Daerah Adaptasi Perubahan Iklim/RAD-API)**. The document supports national programs to make program interventions and is supposed to ensure sustainable climate change adaptation programs at the village level.

20-27. Social forestry, which is included in the national plan, has not been generated according to the target; in South Sulawesi, **93% of social forestry business groups do not have a market and capital access**. Therefore, it is vital to strengthen the cooperatives to increase income through capacity-building activities, expansion of market access, and market information. The lack of social forestry business group development is caused by the failure of regional initiatives to support business development in the forestry sector.^[19]

21-28. Efforts to build a sustainable management system from upstream to downstream using the Tempe Lake ecosystem approach will directly impact controlling sedimentation in Tempe Lake through land management that can reduce soil erosion in the upstream area (Soppeng District) and simultaneously maintain land cover. Changes in livelihoods around Tempe Lake due to rising water levels and volumes make villagers adapt to livelihoods that rely on lakes; this adaptation should maintain the lake ecosystem sustainability. Therefore, it needs interventions to encourage awareness of sustainable management. The new Tempe Lake management working group was formed in 2018 and will end in 2022; while the condition for improving the Tempe Lake ecosystem has not yet been optimally performed, it remains necessary to continue multi-stakeholder efforts in improving and adapting the Tempe Lake ecosystem to climate change.

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Project Context

22-29. Climate change and human activities threaten the systematic destruction of the Tempe Lake ecosystem. **The threat occurs in the whole part of Tempe Lake ecosystem, terrestrial, borders, and water bodies**. The high erosion in the upstream area is due to reduced forest land cover caused by land conversion for dry land plantation cultivation activities.

23-30. Based on the previous context, it was found that livelihoods in the catchment area of Tempe Lake had various significant impacts. Erosion upstream is caused by clearing and converting land to monoculture agricultural land. Weather anomalies cause erratic rainfall and, in turn, cause flooding. The flood submerged public facilities and rice fields, causing crop failure, and the fish reproduction cycle was disrupted, which caused the declined productivity of the fisheries sector. Moreover, it also causes decreasing the villagers' income of those affected by climate change. Likewise, agricultural activities upstream remain intense in using pesticides and chemical fertilizers, worsening the quality of the Tempe Lake ecosystem. Polluted lake water indirectly causes a high population of invasive fish (suckermouth catfish), a massive growth of water hyacinth, and decreasing availability of clean water.

24-31. Although various adaptive actions have been generated to reduce climate change's impact, both by community and government, policies and multi-stakeholder institutions remain unintegrated. Therefore, collaborative action from various related parties is required. Building stakeholder capacity and advocating for cross-sectoral policies will trigger joint initiatives that strengthen climate resilience.

25-32. The **"Sustainable Landscape Governance; Towards Climate Resilience of Community in Tempe Lake Ecosystem"** project will lead to improved governance based on the Tempe Lake ecosystem. The primary elements that this project will address include ecosystem resilience (including but not limited to improving land governance, erosion restraint, and strengthening institutions to ensure sustainability), economic resilience (forestry and fisheries sector), and strengthening multi-stakeholders collaborative actions and cross-cutting policies that are integrated. The principal components of this project include:

- a) **Improving land use** in ecosystems that contribute to erosion and sedimentation restraint in Tempe Lake. It will be achieved through strengthening agroforestry management practices that can prevent erosion. In implementing land management practices that contribute to erosion restraint, the capacity building of community knowledge about the causes, impacts, and restraint method of erosion is also

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¹⁹ Presentation by Social Forestry and Environmental Partnership Center Reigion Sulawesi, MoEF (2020).

performed.

- b) **Reinforcing economic resilience** of the Tempe Lake ecosystem community through **livelihoods enhancement** **creative business development in forestry and fishery sectors that can contribute to community livelihood enhancement**. It will be executed through increasing product value, capacity building, and delivering access to market information, in the context of developing community-based businesses in product management and development, both in the forestry business sector (in the **upstream-forest** landscape) and fisheries in the water body/lake landscape. There will be sustainable group-based business development in the Tempe Lake ecosystem, involving vulnerable groups, especially women.
- c) **Encouraging Strengthening multi-stakeholder collaborative action** and **cross-sectoral policies** will strengthen the parties' synergy to develop sustainable climate resilience. It will be achieved by establishing and strengthening multi-stakeholder forums as a means of communication and coordination in encouraging regional initiatives for climate change adaptation in the Tempe Lake ecosystem. Besides, it will be generated by advocating policies intended to develop Regional Action Plans for Climate Change Adaptation (RAD-API). Furthermore, this project will also encourage adaptation actions through the Climate Town Program (*Program Kampung Iklim/ProKlim*) to strengthen adaptation actions at the village level.
- d) Developing collective intelligence by **increasing knowledge capacity and awareness of community climate change adaptation** through knowledge management and youth-based campaigns. Dissemination of information and development of appropriate learning systems will increase local communities' adaptive capacity. Thus, local initiatives can be strengthened to prevent potential losses from climate change impacts from being more significant. The involvement of youth, as the center of the change movement, at the local level will be initiated in this project to build awareness of the importance of climate change adaptation issues at the local level. Digital-based communication is encouraged to expand the information recipients (direct and indirect beneficiaries) through social media engagement and photo essay exhibitions. It will stimulate the attention of youth to actively participate in disseminating information about climate change adaptation actively.

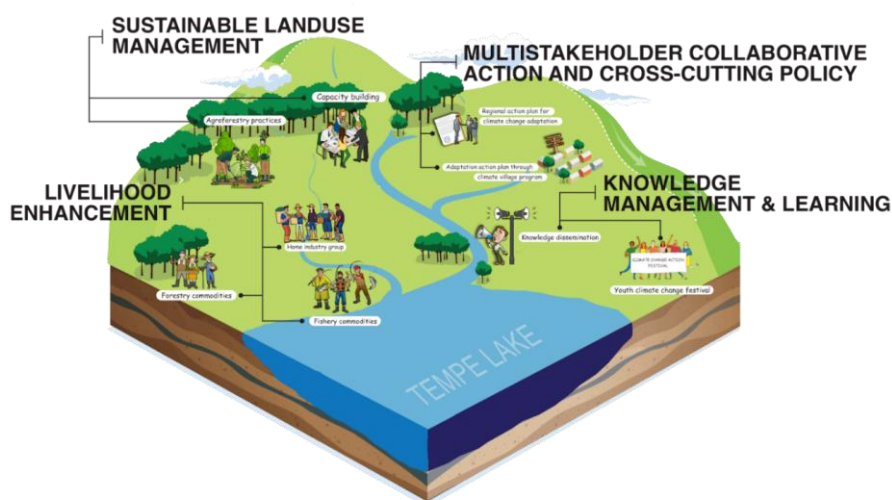


Figure 8. Project Framework

Figure 8. Project Framework

Project / Programme Objectives

List the main objectives of the project/programme.

26-33. The ultimate objective of this project is to encourage sustainable governance as an effort to adapt and increase the climate resilience of the Tempe Lake ecosystem community. Specifically, the objectives of this project address:

- 1) ~~Improving land use practices in the Tempe Lake ecosystem that contributes to sedimentation~~

~~restraint~~Improvements in land use of 500 ha in forest landscapes that contribute to sedimentation restraint in the Tempe Lake ecosystem

- 2) Reinforcing the ~~economic resilience of the community's~~ economic resilience in the Tempe Lake ecosystem ~~through creative business development in the forestry and fisheries sectors through livelihoods enhancement~~

~~2)~~

- 3) ~~Encouraging-Strengthening~~ collaborative action of stakeholders and cross-sectoral policies ~~related to~~ for climate change adaptation

- 4) Increasing knowledge capacity and community awareness regarding climate change adaptation through knowledge management and youth-based campaigns.

Project / Programme Components and Financing

Fill in the table presenting the relationships among project components, activities, expected concrete outputs, and the corresponding budgets. If necessary, please refer to the attached instructions for a detailed description of each term.
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. Improving Improvements in land use of 500 ha land-use practices in the Tempe Lake in forest landscapes ecosystem that contributes to sedimentation restraint in the Tempe Lake ecosystem	1.1.1. The presence of 500 ha agroforestry plantation and erosion barrierImproved land management practices that contribute to erosion restraint 1.1.2. The availability of facilities and infrastructure for plant cultivation in an agroforestry pattern to support land management activities 1.2.1. Increased community knowledge capacity on regarding the causes and impacts of erosion, as well as land management-based erosion restraint	1.1. Strengthening agroforestry management practices that can prevent erosion in the Tempe Lake ecosystem forest landscape 1.2. Building community capacity for erosion restraintCommunity capacity building for erosion restraint	\$375,874
2. Reinforcing the community's economic resilience in the Tempe Lake ecosystem through creative business development in the forestry and fisheries sector economic resilience of the community in the Tempe Lake ecosystem through livelihoods enhancement	2.1.1 Increased capacity and skills for developing forestry commodity businesses 2.1.2. Increasing the added value of forestry commodity 2.1.3. Strengthening the marketing information of forestry commodity product 2.2.1 Increased capacity and skills for developing fishery commodity businesses 2.2.2. Increasing the added value of fishery commodity 2.2.3. Establishment of a sustainable fisheries commodity cycleEncouraging the sustainable commodity cycle	2.1. Development of forestry commodity business through social forestry business groups 2.2. Development of fisheries commodity business based on women and vulnerable groups	\$284,615
3. Encouraging Strengthening collaborative action of stakeholders and cross-sectoral policies related to for climate change adaptation	3.1.1. The establishment of the Climate Change Adaptation Working Group (POKJA API) and the presence of Regional Climate Change Adaptation Action Plan (RAD-API) Presence of Regional Action Plan for Climate Change Adaptation (RAD-API) policies 3.2.1. Establishment of Climate Town (ProKlim) -Program (ProKlim)- as the climate change adaptation actions at the local level	3.1. Encouraging Strengthening the cross-cutting-cutting policies in the Tempe Lake ecosystem 3.2. Encouraging Strengthening collaborative action based on the in local level community through Climate Town Program (ProKlim)	\$98,252
4. Increasing knowledge capacity and community awareness regarding climate change adaptation through knowledge management and youth-based campaigns.	4.1.1. The dissemination of learning on climate change adaptation programs based on the Tempe Lake landscapeecosystems 4.1.2. Increased knowledge capacity of the community in improving local-based climate change adaptation actions in the Tempe Lake ecosystems 4.2.1. Strengthening youth initiatives in promoting climate change adaptation actionsThe establishment of youth initiatives in promoting climate change adaptation actions	4.1. Increasing community knowledge capacity to enhance resilience to climate changeIncreased knowledge capacity of the community in the Tempe Lake ecosystem to increase resilience to climate change 4.2. Increased public awareness of climate change adaptation actions based on local youth-based campaign movements	\$77,133
5. Project/Programme Execution cost			\$79,408
6. Project/Programme Cost			\$915,282
7. Project/Programme Cycle Management Fee charged by the Implementing Entity			\$77,799

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Project/Programme Components	Expected Concrete Outputs	Expected Outcomes	Amount (US\$)
<i>(if applicable)</i>			
Amount of Financing Requested			\$993,081

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Projected Calendar

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

Milestones	Expected Dates
Start of Project/Programme Implementation	April 2023
Mid-term Review (if planned)	March 2024
Project/Programme Closing	March 2025
Terminal Evaluation	June 2025

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PART II: PROJECT / PROGRAMME JUSTIFICATION

A. Project Component

Describe the project / programme components, particularly focusing on the concrete adaptation activities of the project, and how these activities contribute to climate resilience. For the case of a programme, show how the combination of individual projects will contribute to the overall increase in resilience.

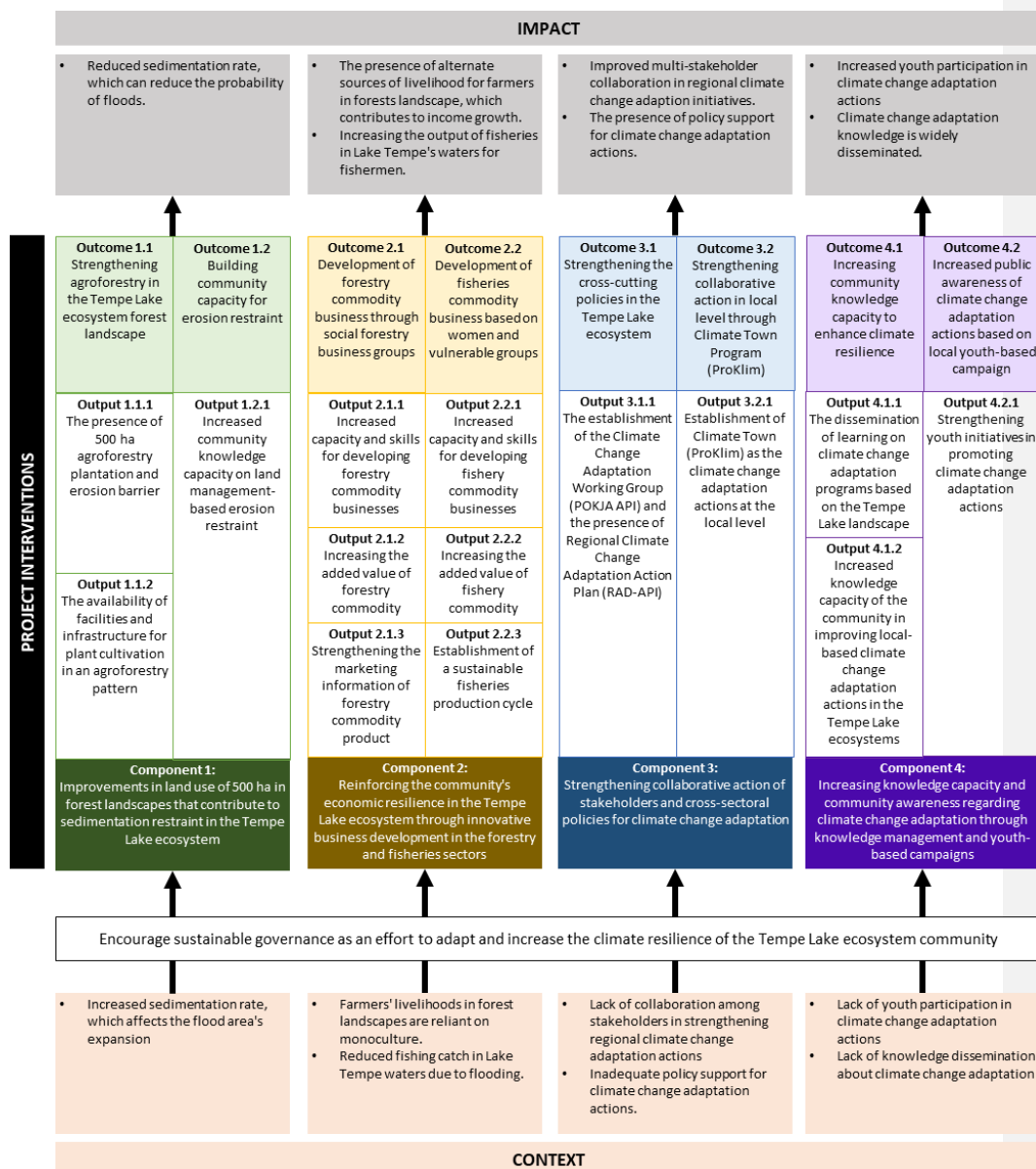


Figure 9. Theory of Change

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Component 1: Improving land use practices in the Tempe Lake ecosystem that contributes to sedimentation restraintImprovements in land use of 500 ha in forest landscapes ecosystem that contributes to sedimentation restraint in the Tempe Lake ecosystem

—Lake Tempe's sedimentation rate is 1-3 cm per year. This is influenced by extremely high rainfall and land use patterns in upstream areas that are dominated by monoculture agriculture such as corn and cloves. As a result, these factors increase the rate of erosion into Tempe Lake. As a result, this project will improve land use practices on 500 hectares by focusing on agroforestry management and crop planting to reduce erosion in the upstream catchment area. This component objective will be realized as a result of the following outcomes:

34.

Outcome 1.1. Strengthening agroforestry in the Tempe Lake ecosystem forest landscape Strengthening agroforestry management practices that can prevent erosion

35. This project is directed to improving land governance with sustainable agroforestry systems in ecosystems to intervene in the adaptive behavior of the parties. This effort is expected to minimize land clearing for agricultural purposes in the forest area of the Tempe Lake ecosystem and will contribute to the control of sedimentation in Tempe Lake. This outcome will be achieved through:

27- **Output 1.1.1. The presence of 500 ha agroforestry plantation and erosion barrier**

36. **Crops Planting:** Planting types of crops that can prevent erosion in the catchment area that contributes to the sedimentation of Tempe Lake, covering an area of 500 ha. The types of plants selected are Multi Purpose Tree Species (MPTs) and erosion-reducing plants that can improve soil quality, protect the soil surface from rainwater collisions, reduce runoff water velocity and volume, retain soil particles through the root system, increase infiltration and percolation rates of water in the soil, and has economic value that can increase farmers' income. Planting options will include breadfruit, rambutan (*Nephelium lappaceum*), candlenut, and other woody and fruiting plants. Plants such as Arachis pintoi and Vetiver are also planted to help reduce erosion rates; these plants are highly recommended for planting along riparian areas. This type of plant will be determined by identifying land suitability at the location to be planted.

28- **Output 1.1.2. The availability of facilities and infrastructure for plant cultivation in an agroforestry pattern**

29-37. **Procurement of Cultivation Facilities:** The project will facilitate the procurement of facilities and infrastructure to support sustainable agroforestry management. This facility is in the form of construction of "Seedling Houses" and procurement of commodity cultivation equipment in eight villages. It will be done by field facilitators using the live-in method to assist farmers in conducting nurseries independently in producing superior seeds and reducing costs in the cultivation process.

Outcome 1.2. Building community capacity for erosion restraintCommunity capacity building for erosion restraint

38. To ensure the Tempe Lake ecosystem improvement initiative, capacity building is also a significant concern in this project. Capacity building is directed at building community understanding and perspectives more oriented towards environmental improvement, in line with the sustainability of their livelihoods. This project will facilitate the community in understanding and realizing the causes and impacts of erosion, which will then become the basis for the community to switch to land management with a sustainable agroforestry system. This outcome will be achieved through:

30- **Output 1.2.1. Increased community knowledge capacity on land management-based erosion restraint**

31-39. **Training & FGDs:** This project targets 200 direct beneficiaries from eight villages through a training and Focus Group Discussions (FGDs) series at the village level concerning the causes and impacts of erosion. Some of the leading capacity building elements in this project are training on agroforestry development, training on plant cultivation of MPTs, and training on the cultivation of erosion-reducing plants to support the success and sustainability of agroforestry management.

Component 2: Reinforcing the economic resilience of the community in the Tempe Lake ecosystem through livelihoods enhancementReinforcing the community's economic resilience in the Tempe Lake ecosystem through creative business development in the forestry and fisheries sectors

40. Monoculture farming is more common in the highlands of Lake Tempe's upstream catchment area. This is due to the community's high economic needs, as well as the lack of alternative livelihoods. Monoculture

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farming in the upstream catchment area has a significant impact on Lake Tempe's high sedimentation. Furthermore, weather anomalies caused by climate change cause annual floods in the area surrounding Lake Tempe. Because of the disruption of the fish breeding cycle, as well as the large population of pests (suckermouth fish) in Lake Tempe, fish yields are greatly reduced. All of this has an effect on people's income, so efforts to strengthen the Tempe Lake ecosystem community's economy are important. This component objective will be realized as a result of the following outcomes:

Outcome 2.1 Development of forestry commodity business through social forestry business groups

41. This project will strengthen the economy of communities that are members of social forestry groups by encouraging existing agroforestry commodities in the village. This effort is expected to reduce the potential for land clearing directed at monoculture agriculture while at the same time increasing livelihood resilience to the impacts of climate change around Tempe Lake. This outcome will be achieved through:

32. Output 2.1.1 Increased capacity and skills for developing forestry commodity businesses

42. **Business Groups Institutional Strengthening**: Strengthening and developing social forestry business group institutions (KUPS) through entrepreneurship training to increase group institutional capacity with knowledge related to financial management, capital management, determining the cost of production, and financial management. Comparative studies will enrich the group's insight into running and developing their business. So that existing knowledge and capacity can be recorded and documented, a module will be made to serve as a reference for the group. This project will generate forestry businesses such as candlenut, coffee, honey, and palm sugar.

33. Output 2.1.2 Increasing the added value of forestry commodity

43. **Product Quality Enhancement**: Facilitating business licensing, lab tests, and halal certificates can make products have good standards and be marketed more widely with higher sales values. Regular meetings will be held to monitor and evaluate fellow group members to ensure this standard is maintained. In order for production to be sustainable and sustainable while at the same time making work more effective, it will be necessary to procure home industry facilities and production houses to concentrate and more easily organize group business activities.

34. Output 2.1.3 Strengthening the marketing information of forestry commodity product

35-44. **Market Research**: Research on market potential is needed to ensure that group members know the flow of goods, the types of markets they can access, and how the market accepts the products produced by the group. This research shows that the group has several market access options.

Outcome 2.2 Development of fisheries commodity business based on women and vulnerable groups

45. This project is oriented towards strengthening the community's economy around Tempe Lake, which focuses on increasing the adaptability of women and vulnerable groups to have an economic foundation and gain access to a more equal and sustainable livelihood. This outcome will be achieved through:

36. Output 2.2.1 Increased capacity and skills for developing fishery commodity businesses

46. **Institutional Strengthening**: Groups formed of women and vulnerable people will be carried out around the lake to diversify livelihoods other than being captured fishers by creating business groups that manage fishery products. To support this plan will ensure the addition of the members' capacity through a series of entrepreneurship training. Group institutions will be strengthened with administrative training and preparation of group rules so that there are routine group procedures and activities as a medium for recording and monitoring member evaluations of the group running. For production to have shared standard procedures, a module will be created for the group. This project's fishery businesses will include fish processing and fish farming.

37. Output 2.2.2 Increasing the added value of fishery commodity

47. **Product Added-Value Enhancement**: It will perform by procuring production tools and facilities and facilitating business licensing to obtain standards that can access a broader market. Besides, the lab test results and halal certificates displayed on the packaging also add to the product's feasibility on the market. Aquaculture groups will also be strengthened to ensure sustainability, especially in fisheries business groups. The development of the cage demonstration plot will be carried out as an effort to initiate alternative methods for capturing fishers and ensure the availability of fish raw materials in Tempe Lake. The main activities to ensure this group can run are procurement of facilities and supporting cages for cages and procurement of fish seeds.

Output 2.2.3 Establishment of a sustainable fisheries commodity cycle

38-48. The first stage is to strengthen group capacity by forming fish farming groups involving

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fishermen - capture fishermen with the goal of increasing fish production. Fish farming training, administrative training, and planning training are all used to build community capacity. Then, conduct market research to add information about the fishery market. The research findings will be used to assist the community in carrying out business activities. The group now understands the target market and market segmentation of the products they manufacture as a result of this research. The project will then facilitate to establish production facilities and infrastructure. The infrastructure and facilities in inquiry are creative business production tools and fish farming cages.

Component 3: Strengthening collaborative action of stakeholders and cross-sectoral policies for climate change adaptation
Encouraging collaborative action of stakeholders and cross-sectoral policies related to climate change adaptation

49. The lack of multi-stakeholder collaboration in efforts to adapt to climate change in the Tempe Lake ecosystem has resulted in a lack of improvement. Furthermore, there are inefficient regional policies for climate change adaptation. So, this component objective will be realized as a result of the following outcomes:

Outcome 3.1 3.1- Encouraging Strengthening the cross-cutting policies in the Tempe Lake ecosystem the cross-cutting policies in the Tempe Lake ecosystem

50. This project will encourage strengthening cross-sectoral actions in the regions to ensure the sustainability of adaptation actions in the Tempe Lake ecosystem. Local governments from various sectors will further improve Tempe Lake governance in dealing with climate change. Multi-stakeholder involvement will be strengthened through establishing and strengthening the Climate Change Adaptation Working Group (*Kelompok Kerja Adaptasi Perubahan Iklim/POKJA API*) consisting of various elements, namely the government, academics, CSOs, and other related parties. The POKJA API will be directed to carry out climate change adaptation initiatives at the regional level based on their duties that are relevant to their institutional characteristics. This outcome will be achieved through:

39. Output 3.1.1 The establishment of the Climate Change Adaptation Working Group (POKJA API) and the presence of Regional Climate Change Adaptation Action Plan (RAD-API)

40-51. **Policy Advocacy:** This project will facilitate all processes, from establishing the POKJA-API to preparing the Regional Action Plan for Climate Change Adaptation (RAD-API). The intervention elements in this RAD-API will focus on reducing disaster risk and increasing community preparedness against the threat of climate change within a single unit of governance of Tempe Lake. Each local government unit related to the environment, agriculture, and climate, CSOs, and academics will be involved in each process of preparing the RAD-API. Preparing the RAD-API begins with a climate change vulnerability study by formulating risks and constraints on climate change conditions at the district level. RAD-API can be encouraged to be internalized into part of Draft Regional Regulations and Strategic Plans in each local level agency. With this, stakeholders can optimize initiatives at the regional level and ensure their sustainability in the future.

Outcome 3.2 Encouraging collaborative action based on the local community
Strengthening collaborative action in local level through Climate Town Program (ProKlim)

41. This project is directed at building climate resilience at the village level and involving all elements of the village community to participate in efforts to increase the adaptive capacity of local communities both upstream and around the water body of Tempe Lake. This project will encourage the implementation of the Climate Town Program (*Program Kampung Iklim/ProKlim*) at the intervention sites. ProKlim is a national program guided by the Ministry of Environment and Forestry. The implementation of ProKlim refers to the Regulation of the Minister of Environment and Forestry Number 84 of 2016 concerning the Climate Town Program. This outcome will be achieved through:

52.

Output 3.2.1 Establishment of Climate Town (ProKlim) as the climate change adaptation actions at the local level

42-53. **Facilitation or Technical Assistance:** ProKlim will encourage the involvement of the community and other stakeholders to increase adaptive capacity to the impacts of climate change and reduce greenhouse gas emissions, as well as gain recognition for the adaptation and mitigation efforts of climate change that have been conducted. To achieve this, a Climate Town Program Working Group will first be formed, which involves all elements of society: the Village Government, fishers' groups, farmer

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groups, and marginal groups such as youth and women. Furthermore, the group is strengthened through training and regular working group meetings to build mutual understanding and commitment to collective action on climate change.

43-54. Advocacy: The Climate Town Program Working Group will be encouraged to take decisive adaptation actions to climate change at the village level. It will perform by building collective intelligence so that adaptation actions are carried out in the face of climate change, one of which is by carrying out sustainable land use practices. It will perform by developing a Participatory Land-Use Plan at the village level. Together with villagers, the Climate Town Program Working Group will collect data on landscape conditions to local socio-economic activities, process it into information, and compile it into knowledge products that describe the objective and ideal conditions of land use in the village. The knowledge product is then internalized into the Village Government Work Plan to be applied as a whole.

Component 4: Increasing knowledge capacity and community awareness regarding climate change adaptation through knowledge management and youth-based campaigns

55. Climate change knowledge and awareness have not been widely disseminated throughout the community, particularly at the district level. As a result, efforts to increase knowledge and awareness among youth are important. This component objective will be realized as a result of the following outcomes:

Outcome 4.1 Increased knowledge capacity of the community knowledge capacity in the Tempe Lake ecosystem to increase enhance resilience to climate change

56. Climate change adaptation action is not only a question of how to achieve community resilience but also provides broad access to information. Strengthening access to information and increasing knowledge capacity in projects is carried out by disseminating project lessons learned, from capturing and processing, to disseminating climate learning to beneficiaries. To ensure the learning process will continue, the project will build a knowledge management system, which is carried out through data and information system management and knowledge production. Knowledge and lessons learned from climate change adaptation actions obtained from the village are expected to be accepted and replicated in various regions in the future. This outcome will be achieved through:

44. Output 4.1.1 The dissemination of learning on climate change adaptation programs based on the Tempe Lake ecosystems,

57. Dissemination: Data from the field will be processed into audio-visual content and text. The information will be published and practically can be used by the parties to gain knowledge and learn about climate change adaptation actions. The knowledge products produced include short documentary videos, posters, leaflets, infographics, and banners. Digital publications will also be encouraged through social media and websites to reach a wider audience and contribute to the greater mainstreaming of climate change issues.

45. Output 4.1.2 Increased knowledge capacity of the community in improving local-based climate change adaptation actions in the Tempe Lake ecosystems

46-58. Training & Workshops: Capacity building is encouraged through training and workshops at local (village) and regional (district and province) scales. The training is aimed at increasing beneficiaries' capacity to read and understand the village microclimate. Local knowledge in reading climate patterns for rural communities will be strengthened by the design of integrating scientific knowledge that is relevant to stakeholders to ensure that learning can be accepted readily.

Outcome 4.2. Increased public awareness of climate change adaptation actions based on local youth-based campaign movements

59. Project orientation is centered on participatory, transparent, and open activities because climate change adaptation will target all levels of society in adapting and anticipating the worst climate conditions, including youth groups. As the next generation, youth must be actively involved in climate change adaptation actions and be the center of efforts to increase local community awareness. Especially in today's digital era, youth can be a stimulus for change in society, including a change in mindset. This outcome will be achieved through:

47. Output 4.2.1 Increased knowledge capacity of the community in improving local-based climate change adaptation actions in the Tempe Lake ecosystems,

48. Festivals & Youth Competitions: This activity opens access to youth groups' involvement and becomes an arena for campaigns to increase collective awareness of environmental issues. The festival will be held at Tempe Lake with an environmentally friendly concept, prioritizing community participation, especially youth groups. The festival will be coupled with a poster competition and creative content presenting

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environmental issues. This competition work will be used as campaign material for festival visitors to see. This activity will leave an impression on the youth in promoting climate change adaptation actions.

60.

B. Economic, Social, and Environmental Benefits

Describe how the project / programme provides 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 will avoid or mitigate negative impacts, in compliance with the Environmental and Social Policy and Gender Policy of the Adaptation Fund

49-61. This project will provide various benefits from an economic, social, and environmental point of view for the community in the Tempe Lake ecosystem, the government, and all parties involved in this project. All activities will be oriented towards participatory, transparent, and inclusive principles so that all parties who receive benefits can be actively involved in achieving project objectives. This project will pay attention to gender mainstreaming and equitable inclusion of vulnerable groups in every implementation. Providing access and active involvement of women in achieving goals will be the primary concern to be more gender-responsive.

50-62. Economic Benefits: This project will provide economic benefits to the communities most affected by climate change. Smallholders whose income is affected by climate change can be strengthened by developing creative businesses and expanding market access, and it will save them from market uncertainty. It is also hoped that strengthening community-based businesses will develop and contribute to regional income at the village and district levels. Beneficiaries' economic gains from creative business such as candlenut, coffee, palm sugar, honey (forestry sectors), and also fish processing and fish cultivation (fishery sectors).

51-63. Social Benefits: This project will increase access to information and knowledge for stakeholders related to climate change adaptation initiatives. Increased knowledge capacity for stakeholders will contribute to increasing independent action initiatives, even after this project ends. In addition, the multi-stakeholder communication spaces initiated in this project are based on justice and inclusiveness so that all elements of society have the same opportunity to express their opinion and be actively involved in the development of climate-resilient regions. This project also targets the active involvement of youth in campaigning for climate change adaptation actions, where the younger generation can become trendsetters for the climate change adaptation movement, starting from the village level, and is expected to develop further so that it can have an impact at the regional level. Benefits for affected communities, in this case, women and vulnerable groups, can open up opportunities to participate and be involved in achieving project objectives. Thus, it can create a constellation of resilient communities to climate change. This project will also involve women and vulnerable groups [e.g., minorities, marginalized groups, disabilities, elderly] in decision-making on every activity in this program. The involvement of women and vulnerable groups is expected to increase their resilience to the impacts of climate change.

52-64. Environmental Benefits: This project will contribute to the control of erosion and sedimentation in Tempe Lake through ecosystem improvement interventions in the catchment area. Strengthening social forestry schemes, which are directed at sustainable community-based forest management systems, will ensure that land cover will be maintained with agroforestry systems. Land cover improvement is beneficial in reducing erosion in the upstream area, which has implications for controlling sedimentation in Tempe Lake. The presence of suckermouth catfish in Lake Tempe, an invasive fish, disrupts the ecosystem by preventing other fish from reproducing, so we define these fish as 'pests.' To overcome the presence of suckermouth catfish, this project intends to establish fish farming using floating net cages that will prevent suckermouth catfish from interacting with cultured fish. It also maintains the presence of consumed fish in Lake Tempe. Using suckermouth catfish will reduce pests in Tempe Lake to keep the fish ecosystem in the lake in balance. This pest control allows other fish (especially those with high economic value) to breed.

Category	Description of Benefits	Beneficiaries
Economy	Increasing the income of affected community groups through business development	Community
	Contribute to local and/or regional revenue	Government
	Expanding opportunities for cooperation in improving the economy, especially in the development of small and medium	Community CSO

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Category	Description of Benefits	Beneficiaries
	enterprises	Government
Social	<ul style="list-style-type: none"> Expanding opportunities for the most affected groups (women and vulnerable groups) to be involved in regional development, especially those oriented to climate change adaptation Access to information and knowledge about climate change adaptation The existence of policies that are directed to support the initiation of climate change adaptation down to the village level (RAD-API, ProKlim) The existence of a multi-stakeholder communication forum so that various parties can have the same opportunity to initiate climate change adaptation 	Community Community Academics CSO Government Community Community Government CSO Academics
Environment	<ul style="list-style-type: none"> Ecosystem improvement (especially sedimentation and erosion control) from planting with agroforestry patterns Through agroforestry schemes, it helps to absorb atmospheric carbon dioxide, reduce emissions and global warming The implementation of sustainable land management practices in the catchment area with the presence of a nursery 	Government Community Government Community Community

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C. Cost Effectiveness

Describe or provide an analysis of the cost-effectiveness of the proposed project / programme

Intervention alternative	Cost Effectiveness Ratio for 10 years Projection (\$)	Cost Effectiveness Ratio Over Project Period (\$)	Cost Effectiveness Incremental Ratio for 10 years Projections (\$)	Cost Effectiveness Incremental Ratio for Production Over Project Period (\$)
Without Project	11,428,571	11,428,571	657,554	3,287,770
With Project AF	8,197,266	8,986,331		

53-65. The high average cost of repair and disaster management of the ecosystem areas affecting Tempe Lake, which can reach an average of \$4,000,000 per year, is very significant for project effectiveness.

54-66. During the project period, if implemented optimally, it is projected to have an impact on the financing effectiveness, which should be \$4,000,000 to \$3,287,770, and more effective if it is projected for 10 years when the land improvement of 500 ha can be optimal, then the financing effectiveness will be \$657,554.

D. 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 adaptation plan (NAP), national or sub-national development plans, poverty reduction strategies, national communications, or national adaptation programs of action, or other relevant instruments, where they exist.

National Development Strategies

67. This project aims to participate in Indonesia's national development related to improving the economic standard of the community in each region, reducing inequality through development that minimizes the risk of natural disasters based on environmentally friendly natural resource management and climate change adaptation, as stated in the Indonesia **Nationally Determined Contributions (NDC)** one of them is maintaining forest sustainability through community-based management contained in social forestry.^[20] This NDC document includes climate resilience directives such as: (1) Planning and land use certainty. This project will support this path by developing forest area management plans and blocks in the Social Forestry area in Soppeng District; (2) Promotes water resistance. The project will contribute to this path by implementing erosion control through agroforestry plantings.

55-68. To ensure collaborative and integrated work in overcoming the impacts of climate change through national planning, namely the **National Action Plan for Climate Change Adaptation (RAN-API)** to increase disaster and climate resilience through maintaining land cover and preventing erosion.^[21] This project will work in tandem with the National Action Plan for Climate Change Adaptation by establishing a climate change adaptation working group (POKJA-API) comprised of various parties, including relevant regional officials, to develop a joint program plan for climate change adaptation in the regions.

69. The Indonesian Government issued **Presidential Regulation 60 of 2021 concerning Saving National Priority Lakes**. The Presidential Regulation is then used as a reference for all relevant ministries and institutions to build collaborative actions and strengthen synergy in efforts to accelerate the rescue of 15 national priority lakes, one of which is Tempe Lake. In point (3), the rescue of aquatic ecosystems, riparian ecosystems, and lake water catchment areas, a sedimentation control program is included, which will be realized by maintaining land cover in the upper Walanae watershed, Soppeng Regency. At this point, the goal is also to ensure the availability of a reference for the use of aquaculture in the lake using floating net cages. This project also constructs floating net cages for local fish farming and manages the lake area in a sustainable and environmentally friendly sort of way. The South Sulawesi Provincial Government has incorporated the Tempe Lake Management Plan into the Regional Medium-Term Management Plan (Rencana Pengelolaan Jangka Menengah Daerah/RPJMD) for 2018-2023.

56-70. It contains an agenda to support social forestry programs in the **Presidential Regulation of the Republic of Indonesia Number 59 of 2017** concerning the Implementation of the Achievement of Sustainable Development Goals (SDGs), which is then described in the **National Action Plan years 2021-2024**. This goal will be supported by the project by strengthening and developing social forestry groups in the Soppeng District. This document also contains information on lake revitalization, which is in line with project activities that will form a fishery group in Wajo District to create a culture group to protect the fish in Lake Tempe from surviving invasive fish.

²⁰ Nationally Determined Contributions Indonesia, (2017).

²¹ National Action Plan for Climate Change Adaptation (RAN-API), (2020)

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57. Lake damage control is taken through various ecosystem-scale approaches in the form of upstream erosion control to reduce Tempe Lake sedimentation. In addition, water hyacinth control is also carried out, disrupting the lake ecosystem and controlling the population of suckermouth catfish into pellets. This intervention is integrated with the Strategic Plan of the Directorate General of Watershed Control and Protected Forests for 2020-2024 concerning the prevention of priority lake damage.

71. Improvement of land use in lake ecosystems, the intervention of agroforestry in social forestry areas through the cultivation of erosion-preventing plants, and strengthening of group institutions through capacity building and business development skills in line with the policy direction of the **National Strategic Plan 2020-2024 of Social Forestry and Environmental Partnership, Ministry of Environmental and Forestry (MoEF)** on page 37 points 2 and 3 namely increasing the capacity of social forestry groups to carry out social forestry business and improving the quality of access that has been provided to the community marked by the more excellent value of benefits to the community.^[22]

72. Increased added value, employment, and investment in the real sector and industrialization are carried out in the **Republic of Indonesia's 2020-2024 Mid-Term Development Plan**, one of which is by increasing commodity processing-based industrialization in the forestry and fishery sectors. The project will help to carry out the plan by strengthening social forestry business groups in Soppeng District and fisheries business groups in Wajo District.

58. The project's implementation to strengthen social forestry groups is based on Minister of Environment and Forestry Regulation No. 9 of 2021 concerning Social Forestry. This regulation also including the guidelines for formation and development of social forestry groups and development of social forestry business groups (KUPS). The Regulation of the Director General of Watershed and Protected Forests Control No. P.7/PDASHL/SET/KUM.1/8/2017 will be used to assist Forest Farmers Groups in managing agroforestry to maximize the area's potential. The Minister of Environment and Forestry Regulation No. 89 of 2018 on Forest Farmer Groups will be used as guidelines to form a Forest Farmer Group, which will be transformed into a Social Forestry Group.

59. Water hyacinth control is carried out as a raw material for liquid fertilizer and biogas, in line with the draft program recommendations contained in the Ecosystem-Based Climate Change Adaptation Plan: Tempe Lake Ecosystem through water hyacinth processing activities.[†]

60. Strengthening the economy of the community around Tempe Lake, the formation of village-based fishing business groups in line with the priority program of the Tempe Lake Rescue Movement by the Ministry of the Environment in 2014, namely increasing the role and participation of the community through the development of small business management groups for rural catch fishers of Tempe Lake.[†]

61. Strengthening agroforestry upstream (Walanae Watershed, Batu-Batu sub-watershed) through land cover improvement and planting along river borders to reduce soil erosion that can accumulate sediment in Tempe Lake is in line with the **Super Priority Program for Saving Ecosystems in the Bila and Walanae Watersheds**.

73.

Sub-National Development Strategies

74. Social forestry management to maintain and conserve forest areas is in line with Regional Regulation Number 3 of 2022 concerning the South Sulawesi Province Spatial Plan 2022-2041, which regulates areas that protect subordinate areas such as Soppeng to protect river boundaries and areas around lakes. Based on the Amendment to the Medium Term Development Plan of South Sulawesi Province for 2018 - 2023, which states that it will optimize the management of Tempe Lake to improve the quality of the environment as well as the ability to adapt and mitigate climate change, this is in line with the project's big goals, namely towards climate resilience of the Tempe Lake ecosystem community.[†]

75. The Tempe Lake Management Plan has been incorporated into the Regional Medium-Term Management Plan for 2018-2023 by the South Sulawesi Provincial Government. This project will begin to reduce the volume of water and sediment entering Lake Tempe by encouraging agroforestry planting patterns.

76. Strengthening agroforestry upstream (Walanae Watershed, Batu-Batu sub-watershed) through land cover improvement and planting along river borders to reduce soil erosion that can accumulate sediment in Tempe Lake is in line with the **Super Priority Program for Saving Ecosystems in the Bila and Walanae Watersheds**.^[23]

62-77. Strengthening the economy of the community around Tempe Lake, the formation of village-based fishing business groups in line with the priority program of the Tempe Lake Rescue

²² Strategic Plan of the Directorate General of Social Forestry and Environmental Partnership 2020-2024, Ministry of Environment and Forestry. (2020).p.37

²³ Lake Rescue Movement (GERMADAN) Tempe Lake. (2014). p.37

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Movement by the Ministry of the Environment in 2014, namely increasing the role and participation of the community through the development of small business management groups for rural catch fishers of Tempe Lake.^[24]

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63-78. Utilization of Tempe Lake as a fishery cultivation area will refer to the Long Term Development Plan of Wajo District for 2005-2025, which regulates the division of areas for aquaculture use, covering an area of 9,100 ha. It aligns with the program's objective to strengthen the community's economy through fishery resources.

64-79. To initiate the fisheries business group, it will cooperate with the relevant agencies as stated in the Wajo Regent's Regulation No. 142 of 2019 concerning the Strategic Plan of the 2019-2024 Regional Apparatus within the Wajo District Government, which regulates the provision of support for the implementation of fishery areas.

65-80. Business development in the fisheries sector will be encouraged through the provision of business development facilities as the problems in the fisheries business sector are listed in the Regional Medium-Term Development Plan of Wajo District for 2019-2024, which targets the development of the fisheries business sector by providing business support facilities.

66-81. The development of the business sector in the forestry sector through Social Forestry Business Group (KUPS) follows Soppeng Regent Regulation Number 29 of the 2020 Soppeng District Work Plan, namely optimizing regional income through natural resources management in the forestry sector by considering the principle of sustainability. As well as improving the quality of the environment through the maintenance of forests and land cover around rivers.

82. The role of forest management in preserving, protecting, restoring, and increasing the sustainable use of ecosystems is stated in the Decree of the Head of the Regional Research and Development Planning Agency of Sidenreng Rappang District in 2021 regarding changes to regional strategic plans.

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83. To take care of household business licenses, refer to Law Number 20 of 2008 concerning Micro, Small, and Medium Enterprises and Wajo District Regulation No. 12 of 2017, which regulates the procedures and conditions for business formation and licensing. The formation of cage cultivation groups and fish processing household businesses around Tempe Lake will adhere to the Minister of Maritime Affairs and Fisheries of the Republic of Indonesia Regulation Number PER.12/MEN/2007 regarding fish cultivation business licensing, as well as the Wajo District Regional Regulation Number 1 of 2012 regarding Retribution Fishery Business License.

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67. Fish cultivation is governed by Wajo District Regional Regulation Number 14 of 2016, which governs the use of Tempe Lake for aquaculture and also governs lake zoning. Fish farming in Tempe Lake is also included in the Soppeng District Department of Livestock, Animal Health, and Fisheries' strategic plan for 2019-2024.

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E. 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.

68. The implementation of the project in order to strengthen social forestry groups refers to the Minister of Environment and Forestry Regulation No. P. 89 of 2018 regarding guidelines for the development of social forestry groups. The development of social forestry business groups that have been formed will follow the guidelines of the Minister of Environment and Forestry Regulation No. 9 of 2021 regarding the formation and development of social forestry business groups (KUPS). Assistance for Forest Farmers Groups to manage agroforestry to optimize the area's potential will refer to the Regulation of the Director General of Watershed and Protected Forests Control No. P.7/PDASHL/SET/KUM.1/8/2017.

85. Encouraging the assisted villages to adopt the climate town program will refer to the Minister of Environment and Forestry Regulation No. 84 of 2016, and its guidelines will depart from the regulation of the Director General of Climate Change Control No. P4/PPI/API/PPI.0/3/2021. To ensure local action in dealing with climate change, the project will facilitate the formulation of the Climate Change Adaptation Regional Action Plan (RAD-API), referring to the Minister of Environment and Forestry Regulation No. P.33/Menlhk/Setjen/Kum.1/3/2016 concerning guidelines for the preparation of climate change adaptation actions.

86. Agroforestry will be implemented to maintain land cover and control soil erosion in accordance with the Regulation of the Director General of Watershed Control and Protected Forests Number P.7/PDASHL/SET/KUM.1.8/2017 on procedures for determining agroforestry in forest areas beginning

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²⁴ Lake Rescue Movement (GERMADAN) Tempe Lake. (2014). p.55

with classification, concept, pattern, planning, implementation, and control.

87. Fish farming groups will be formed in accordance with Government Regulation of the Republic of Indonesia Number 28 of 2017 concerning Fish Cultivation, which governs concepts, procedures, and aspects of planning, utilization, development, and protection. The Regulation of the Director General of Aquaculture No. 38/PER-DPJB/2021 regarding technical guidelines for marine aquaculture floating net cages is derived from this rule. covers cage management concepts and procedures

69-88. Through the Regulation of the Minister of Marine Affairs and Fisheries of the Republic of Indonesia Number PER. 12/MEN/2007 concerning fish farming business licensing, which contains licensing procedures, requirements, and fish farming business mechanisms, a fish cultivation group and a fish processing business group will be formed with reference to this rule.

70. To take care of household business licenses will refer to Law Number 20 of 2008 concerning Micro, Small, and Medium Enterprises and Wajo District Regulation No. 12 of 2017, which regulates the procedures and conditions for the formation and business licenses. The formation of cage cultivation groups and fish processing household businesses around Tempe Lake will follow the Regulation of the Minister of Maritime Affairs and Fisheries of the Republic of Indonesia Number PER.12/MEN/2007 concerning fish cultivation business licensing and also refers to the Wajo District Regional Regulation Number 1 of 2012 concerning Retribution Fishery Business License.

71. Fish cultivation is regulated in the Wajo District Regional Regulation Number 14 of 2016 concerning the use of Tempe Lake for aquaculture, which also regulates the zoning of the use of the lake. Fish farming in Tempe Lake is also included in the strategic plan of the Department of Livestock, Animal Health, and Fisheries of Soppeng District for 2019-2024.

F. Duplication of Project

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

Currently, no similar program has been implemented using other funding sources. So that this program can continue to run and the intervention village can continue, it will develop cooperation with related institutions through multi-stakeholder communication forums to oversee the intervention villages that have started climate change adaptation actions.

89. The Lake Rescue Movement Planning Movement (GERMADAN) is one of the planned programs/projects for the Tempe Lake ecosystem. This plan, which was released in 2014, includes the following components: (1) determining the spatial layout of the lake waters; (2) saving lake water ecosystems; and (3) saving the lake border land ecosystem. The planning, which is expected to be completed in five years, does not appear to have had a significant impact on Lake Tempe, as flooding from the lake's overflow continues and has increased in the last two years.

90. The project "Sustainable Landscape Governance: Towards Community Climate Resilience in Tempe Lake Ecosystem" will intervene in the target areas, particularly in the Soppeng, Sidenreng Rappang, and Wajo Regencies. The agroforestry system and the economic development of the forestry sector will intervene in land management in the forest landscape, particularly in the Soppeng and Sidenreng Rappang districts. Meanwhile, it will intervene in the economic development of the fishery sector in Wajo Regency.

72-91. In comparison, the two projects are using different approaches. The proposed project takes a vegetation approach through an agroforestry system, whereas GERMADAN takes a civil engineering approach through DAM construction. These findings are derived from a comparison of the proposed project planning with GERMADAN. Although the GERMADAN intervention area is the same as the proposed project intervention area, namely the districts of Soppeng, Sidenreng, Rappang, and Wajo, there are clear village differences.

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G. Learning and Knowledge Management

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

73-92. Efforts to strengthen the learning process are carried out to build and increase community capacity to take appropriate and relevant climate change adaptation actions in the regional context. The project will also initiate climate change adaptation actions based on youth movements directed at initiating climate awareness campaign actions in the regions. These principles, methodologies, and mechanisms for managing knowledge and learning are contained in **Component 4 of the project**. The following are strategies to ensure effective management of this knowledge:

74-93. **Knowledge Cycle:** To ensure the mainstreaming of knowledge management and learning in the program management cycle, the project will establish a knowledge management team with competent personnel with expertise in producing knowledge based on information and stories obtained from the field. The knowledge management team will also be directed to manage data and information, making it easier for project management to make strategic decisions to achieve the project's main objectives. The involvement of other parties, such as practitioners and academics, will also be encouraged to gain diverse perspectives in seeing the learning needs required for each element of the project.

75. **Youth-based Climate Adaptation Campaign:** Youth will disseminate knowledge on climate change adaptation through photo essay competitions and content creation on social media. This competition is expected to ignite the youth creativity who are attached to digital technology trends and use. Through this activity, the dissemination of information among youth can be massive and expansive. Indirectly, this activity makes youth more aware of the impacts and actions of climate change adaptation.

94.

H. Consultative Process

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

95. Collecting essential data and information is carried out in consultation with several related parties. In addition to gathering information, this consultation is also intended to seek agreement and support for grant funding applications to address community problems related to climate change. Consultations on potential intervention sites have also been carried out. This consultation process is carried out in a participatory manner to identify the interests of each beneficiary which will then be optimally accommodated in project implementation. The initial consultation process included face-to-face meetings and discussions with various parties at the provincial, district, and village government levels to communities affected by the environmental and economic impacts of climate change. This consultation process is carried out by gathering data and information on the state of the Tempe Lake ecosystem as it is affected by climate change from various perspectives. The provincial and regional governments as compilers and implementers of the development program, the village government and community as recipients of the development program, and the parties affected by the decline in environmental quality and decreased productivity caused by climate change. As a result, this initial consultation process was also carried out to determine the level of vulnerability of various groups, such as marginalized groups, smallholders, youth, and women, who are groups directly and indirectly affected by the decline in Tempe Lake's environmental quality and the decline in agricultural and fishery productivity as a caused by climate change. The interests of each party (who will benefit from this project) will be optimally accommodated through this consultation. This consultation process with various stakeholders will continue throughout the project to ensure that each stakeholder can play a role and contribute to the project's development and sustainability.

76-96. The data collection process for gender and vulnerable groups was carried out through direct interviews with several groups of women met in prospective intervention villages. This interview contains information about the daily lives of women's groups in the village, whether special women's groups have been formed in the village, how household work is divided, and information about the

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Figure 1140. Consultation with the Center for Control of Climate Change and Forest and Land Fires in Sulawesi



Figure 1044. Consultation with Soppeng Regent

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environment and disasters in the village. This interview did not spare any effort in gathering information about economic fulfillment or activities outside the home from the perspective of women. Similarly, youth and vulnerable groups (such as elderly groups). The information gathered will be used as the initial data in carrying out the project's steps. The goal of the project will then be to create an agenda by providing access and space for participation so that women and vulnerable people can participate in obtaining benefits and control over the agenda created at the project intervention sites.



Figure 12. Consultation in Village level



Figure 13. Consultation with women groups

No-Date	Consulted Stakeholder	Consultation Techniques	Issue/Key Point Findings	Incorporation of Findings into Project Design
Province Level				
Province Level				
06 July 2022 4	Yudho S. Mustiko, SP, M.Si Head of Center for Control of Climate Change and Forest and Land Fires in Sulawesi (Acting) Wakit Hasim, SE, M.Si Head of Climate Change Section, Center for Control of Climate Change and Forest and Land Fires in Sulawesi	• Presentati on of Project Proposals then proceed to FGD (8 Male, 2 Female)	<ul style="list-style-type: none"> • Condition of the watershed and ecosystem of Tempe Lake affected by climate change • Progress of the Climate Town Program in South Sulawesi • The direction of the climate Town Program in the future. 	• Verbal Approval and Support Project Implementation and Development
07 July 2022 2	Jr. Andi Parenrengi, MP Head of Forestry Service in South Sulawesi Province	• Meeting and Sharing Session	<ul style="list-style-type: none"> • The widespread activity of clearing forest land into monoculture agriculture. • In addition, Forestry Agency also stated that the sedimentation contribution to Tempe Lake came from Sidenreng Rappang District, whose land cover is dominated by rice fields. 	• Provide letters of recommendation and full support to the consortium in project proposal and implementation
25 June 2022 3	H. Muh. Fajar, ST., M.Si Head of Environmental Management, Environmental Service in	• Meeting and Sharing Session	<ul style="list-style-type: none"> • Information on the deteriorating water quality of the Walanae and Bila watersheds and Tempe Lake. • They also confirmed that the increase in the 	• Provide data and information related to the climate village program which

No-Date	Consulted Stakeholder	Consultation Techniques	Issue/Key Point Findings	Incorporation of Findings into Project Design
	South Sulawesi Province		suckermouth catfish population indicated a decrease in water quality.	will then be included in the project proposal concept note
4	Environmental Service in Soppeng District		<ul style="list-style-type: none"> Information related to the floods that always hit the shores of Tempe Lake. In addition, they also conveyed the potential for the development of floating agriculture in Tempe Lake. 	
			Wajo District	
Wajo District				
28 Juni 2022 5	Dr. H. Amran Mahmud S.Sos., M.Si. Regent of Wajo District	<ul style="list-style-type: none"> Meeting and Sharing Session 	<ul style="list-style-type: none"> Information that in Wajo District, there has been a policy in the form of a regional regulation related to the management of Tempe Lake, but there is no specific policy regarding climate change adaptation. We also found data and information about local governments, which are still weak in developing integrated development policies. 	<ul style="list-style-type: none"> Provide letters of recommendation and full support to the consortium in project proposal and implementation
13 Juni 2022 6	Urban-village (kelurahan) Salomenraleng Fishermen: Poni', Budi, H. Lokeng Farmers: Ambo Asse Women: Fatmawati, Hasma, Gusnawati, Indo upe, Sukami, Indo Ake, Nurhayani	<ul style="list-style-type: none"> Survey (questionnaire), interview, and discussion 	<ul style="list-style-type: none"> The majority of the people make a living as fishermen. Very prone to flooding with an intensity of two to three times every year with a height of more than 2 meters which causes a lot of material losses, transportation difficulties, fish catch areas are getting further away, and catches are drastically reduced. The low participation of women in strategic activities, such as in village/kelurahan planning deliberations. Women are not getting enough information, so they are not participating in village/kelurahan activities. 	<ul style="list-style-type: none"> Provide data and information used in drafting concept notes
14 Juni 2022 7	Urban-village (kelurahan) Laelo Head of Kelurahan: Baharuddin, S.Pd Women: Gusti, Gusnawati	<ul style="list-style-type: none"> Survey (questionnaire), interview, and discussion 	<ul style="list-style-type: none"> Information that Laelo is one of the worst flood-affected areas. Floods occur due to high rainfall and cause rivers and lakes to overflow. This incident occurs yearly and causes agricultural land to be submerged, resulting in crop failure in the last two years. Women are rarely involved in activities 	<ul style="list-style-type: none"> Provide data and information used in drafting concept notes
14 Juni 2022 8	Urban-village (kelurahan) Tancung Head of Kelurahan: Idham, S.Sos., M.Si Farmer: Muh. Idrus Fishermen: Nawir, Baso Mappa, Tabri, Svamsul, Tanim Women: Multasam, Suriati, Indo Masse, Masni, Herlina	<ul style="list-style-type: none"> Survey (questionnaire), interview, and discussion 	<ul style="list-style-type: none"> Information that Tancung is one of the flood-affected areas. Floods occur due to heavy rainfall and cause rivers and lakes to overflow. The flood submerged two hamlets and caused considerable losses to farmers and fishermen. There are some women who work as silk weavers but are still overwhelmed because the cost of silk weaving is so low for them. 	<ul style="list-style-type: none"> Provide data and information used in drafting concept notes
14 Juni 2022 9	Urban-village (kelurahan) Baru Tancung Head of Kelurahan: Andi Taufik, S.Pd., M.M Farmer: Mustang Fishermen: Sari, Lode, Asse, Emmang, Abdul Fattah Women: Rasni, Imma, Ikar,	<ul style="list-style-type: none"> Survey (questionnaire), interview, and discussion 	<ul style="list-style-type: none"> Information that Baru Tancung is one of the flood-affected areas. Floods occur due to heavy rainfall and cause rivers and lakes to overflow. The flood submerged two hamlets and caused considerable losses to farmers and fishers. 	<ul style="list-style-type: none"> Provide data and information used in drafting concept notes

No-Date	Consulted Stakeholder	Consultation Techniques	Issue/Key Point Findings	Incorporation of Findings into Project Design
	Yamma, Isame, Yulianti			
14 June 2022 49	Ujung Pero Village Head of Village: H. Abidin Farmers: Svamsuddin Alias La Fase', Rose', Marandi, Juma' Women: Sunrewang, Lamming	• Survey (questionnaire), interview, and disucssion	• Information that Ujung Pero is one of the areas affected by flooding and cut-off access to one of the hamlets. The flood also submerged most of the houses and public facilities and caused damage to the water retaining embankment.	• Provide data and information used in drafting concept notes
14 June 2022 44	Mallusesalo Village Head of Village: Tantu Women: Nurhayati, Suwarni, Nurlina, Lina, Hasnatan, St. Nurhayati	• Survey (questionnaire), interview, and disucssion	• Information on the existence of an annual record of the times when floods come. Floods have become part of people's lives, and this condition forms a pattern of adaptation to people's livelihoods. The community has prepared themselves before the flood by making additional buildings above the houses using bamboo to secure equipment and places for activities.	• Provide data and information used in drafting concept notes
15 June 2021 2	Limporilau Village Head of Village: Abdul Rakhim, S.Pd Women: Sulpiana, Rahmayanti, Kamari, Inar	• Survey (questionnaire), interview, and disucssion	• Information that floods and submerges agricultural land. Floods have also caused farmers to fail their crops in the last two years. Floods submerged not only agricultural land but also submerged entire villages.	• Provide data and information used in drafting concept notes
15 June 2022 43	Wele Village Head of Village: Nurdin S. Farmers: Rais, Rasyid, Sukriadi, Baharuddin, Ace' atau Ce', Salihe Perempuan: Ummining, Nurhidayah, Herlina	• Survey (questionnaire), interview, and disucssion	• Floods occurred and inundated agricultural land. • Floods have also caused farmers to fail their crops in the last two years. • Floods only submerge agricultural land.	• Provide data and information used in drafting concept notes
			Soppeng District	
Soppeng District				
14	H. A. Kaswadi Razak, SE Regent of Soppeng District	• Meeting and Sharing Session	• Regent suggested encouraging improvements in water management through the construction of soil and water conservation buildings such as dams. • Regent stated that by encouraging the construction of reservoirs, water could be used for the agricultural sector. Regarding the development of forestry businesses • The government continues to encourage the strengthening of the development of village products.	• Provide letters of recommendation and full support to the consortium in project proposal and implementation
26 June 2022	Drs. A. Aswan A. Said Environmental Service in Soppeng District	Meeting and Sharing Session	• Information related to the floods that always hit the shores of Tempe Lake. • In addition, they also conveyed the potential for the development of floating agriculture in Tempe Lake.	Provide support in the implementation of the project
15 July 2022	Pesse Village Head of Village: Fatmawati Mappa, S.Sos (Female) Women: Safitriani, Farida, Samsiah Social Forestry Group: Faisal, Suardi, Muis	• Survey (questionnaire), interview, and disucssion	• The current information shows there is a Social Forestry (PS) scheme in the form of Village Forests (<i>Hutan Desa/HD</i>) with 1 permit and Community Forest (<i>Hutan Kemasyarakatan/ HKm</i>) with 3 permits. • Involvement of women, youth groups and vulnerable groups is still lacking. Currently, only HD shows progress with the KUPS product, palmsugar. Even then, it is still in plain packaging.	• Provide data and information used in drafting concept notes

No. Date	Consulted Stakeholder	Consultation Techniques	Issue/Key Point Findings	Incorporation of Findings into Project Design	
			<ul style="list-style-type: none"> Currently, the community cultivates rice fields, corn, cloves, and candlenuts as their livelihoods. <u>Women's participation in social forestry groups is still very low, despite the fact that they are listed as members, and their participation in activities is almost non-existent.</u> <u>This village has a sub-village that is approximately 5 km from the village center and has severe and difficult road access. As a result, very little assistance or programs enter the village..</u> 		Formatted: Font: 8 pt Formatted: Font: 8 pt Formatted Table Formatted: Font: 8 pt Formatted: Font: 8 pt Formatted: Font: 8 pt
467 July 2022	Sering Village Head of Village: <u>Muhammad Tang, S.Sos</u> Social Forestry Group: <u>Syamsu K, Muhammad Nasir</u>	• Survey (questionnaire), interview, and discussion	<ul style="list-style-type: none"> There are currently Social Forestry (PS) schemes in the form of Village Forests (HD) and Community Forests (HKM). Villagers in the HD permit area routinely utilize Non-Timber Forest Products (NTFPs), namely pine resin. The amount of production can reach 20 tons per month. The commodities developed in the HKM permit area are candlenut and honey, which are still managed traditionally. The involvement of women and youth groups and Vulnerable Groups in social forestry groups remains lacking. The condition of social forestry groups is not yet active, nor is the Social Forestry Business Group (KUPS). Smallholders cultivate corn, rice fields, and candlenut as their main livelihood. Clearing land for corn farming is still routinely carried out by smallholders to meet their daily needs. 	• Provide data and information used in drafting concept notes	Formatted: Font: 8 pt Formatted: Font: 8 pt, Bold Formatted: Left, No bullets or numbering Formatted: Font: 8 pt Formatted: Left, Indent: Left: 0", Hanging: 0.2" Formatted: Left, No bullets or numbering Formatted: Font: 8 pt Formatted: Font: 8 pt
8 July 2022 17	Patampanua Village Head of Village: <u>Amiruddin, S.Ag</u>	• Survey (questionnaire), interview, and discussion	<ul style="list-style-type: none"> There are currently Social Forestry (PS) schemes in the form of Village Forests (HD) and Community Plantation Forests (HTR). Institutional conditions are still less active due to the lack of assistance from forestry agencies. The involvement of women, youth groups, and vulnerable groups in the social forestry group is still lacking. Currently, smallholders cultivate rice fields, corn, and candlenut as their livelihood. Clearing land for corn farming is still routinely carried out by smallholders to meet their daily needs. 	• Provide data and information used in drafting concept notes	Formatted: Font: 8 pt, Bold Formatted: Left, No bullets or numbering Formatted: Font: 8 pt Formatted: Left, Indent: Left: 0", Hanging: 0.2" Formatted: Left, No bullets or numbering Formatted: Font: 8 pt
8 July 2022 18	Bulue Village Head of Village: <u>Abdul Majid</u> Social Forestry Group: <u>Sukardi, A. Syamsu Alam, Agunisman, Ambo Tang, Abu Bakar, Budiman</u>	• Survey (questionnaire), interview, and discussion	<ul style="list-style-type: none"> There are currently Social Forestry (PS) schemes in the form of Village Forests (HD) and Community Forests (HKM). HD has 1 permit, HKM has 4 permits, and there is also 2 social forestry scheme that is currently in the proposal stage. Institutional conditions are still less active due to the lack of assistance from forestry agencies. The involvement of women, youth groups and vulnerable groups in the social forestry group is still lacking. There are two villages located in the forest area, which cultivate cloves, corn, and rice fields as commodities. Corn has been found since entering the village. When it rains, the river water that passes through Bulue Village is dark brown, indicating land clearing upstream of the river. 	• Provide data and information used in drafting concept notes	Formatted: Font: 8 pt, Bold Formatted: Left, No bullets or numbering Formatted: Font: 8 pt Formatted: Left, Indent: Left: 0", Hanging: 0.2" Formatted: Left, No bullets or numbering Formatted: Font: 8 pt
498 July 2022	Mattabulu Village Head of Village: <u>Jumaldi Bakri, S.Sos</u> Women: <u>Mastura, S.Pd, Darmawati, Satmawati, Haslinda</u> Social Forestry Group:	• Survey (questionnaire), interview, and discussion	<ul style="list-style-type: none"> There is currently a Social Forestry (PS) scheme in the form of Village Forest (HD) with 1 permit. Currently, the Village Forest Management Institute (<i>Lembaga Pengelola Hutan Desa/LPHD</i>) is proposing a map revision because it is not following forest area boundaries and management. A social forestry business group focused on environmental service and commodity-based businesses (pine, palm sugar, honey, ginger, 	• Provide data and information used in drafting concept notes	Formatted: Font: 8 pt Formatted: Font: 8 pt, Bold Formatted: Left, No bullets or numbering Formatted: Font: 8 pt Formatted: Left, Indent: Left: 0", Hanging: 0.2" Formatted: Left, No bullets or numbering Formatted: Font: 8 pt

No. Date	Consulted Stakeholder	Consultation Techniques	Issue/Key Point Findings	Incorporation of Findings into Project Design
	Aride, Rudi Hartono, Endri Rosihin, Abdul Kadir		and coffee). • Smallholders in Bulue Village depend on the forest for their livelihood. The commodities outside the forest area are rice fields, corn, and cloves.	
208 July 2022	Tellu Limpoe Village Head of Village: Darwis Women: Suharti, Hartina, Fatmawati, Nurhidayanti Social Forestry Group: Latareng, Jumri, Laentang	• Survey (questionnaire), interview, and discussion	• Tellu Limpoe Village is located in the middle of the Batu-Batu sub-watershed • The main livelihood of the residents in this village is rice farmers. • Farmers routinely use chemical fertilizers and pesticides in their rice fields. Currently, it is complicated for farmers to get subsidized fertilizers. • Women's groups in the village are also still less active in decision-making in the agricultural and social sectors.	• Provide data and information used in drafting concept notes

I. Justification for Funding Requested

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

77-97. This project will make forest areas and aquatic ecosystems and policy reforms a key component in efforts to improve climate change adaptation in the Tempe Lake ecosystem. The proposed project will be implemented to increase resilience and reduce community vulnerability by optimizing land management, household economic resilience, and increasing capacity against climate-related risks and hazards. It will be achieved through capacity building, which is then used in land management practices and sustainable development of productive enterprises.

98. Without Adaptation Fund's support, the Tempe Lake ecosystem community will continue to suffer from weather anomalies that cause floods and then inundate houses, public facilities, and productive land. In addition, environmental damage will get worse if the incident continues.

78.

Component	Baseline (Without AF)	Additional (With AF)
<u>Improvements in land use of 500 ha in forest landscapes ecosystem that contributes to sedimentation restraint in the Tempe Lake ecosystem</u> Improved land use in the Tempe Lake ecosystem that contributes to sedimentation control	The amount of sedimentation continues to increase, causing silting of rivers and lakes, plus weather anomalies resulting in catastrophic flooding in the Tempe Lake ecosystem. These events continue to occur and make the community suffer huge losses.	It will reduce the amount of sedimentation, which is the cause of climate risk disasters, and reduce the number of people affected systematically.
<u>Reinforcing the community's economic resilience in the Tempe Lake ecosystem through creative business development in the forestry and fisheries sectors</u> Improving the economic resilience of the Tempe Lake ecosystem community through livelihoods enhancement	The number of people affected by climate change disasters continues to increase. Economic losses continue to occur every year and impact the level of community vulnerability to climate change which also continues to increase.	It will reduce the number of people affected by climate change. Structured economic strengthening can be carried out sustainably in the Tempe Lake ecosystem.
<u>Strengthening collaborative action of stakeholders and cross-sectoral policies for climate change adaptation</u> Encouraging collaborative action of stakeholders and cross-sectoral policies related to	There is no firm commitment due to the system's weakness and policymakers' capacity to reduce climate risk, which further exacerbates the impact of climate change on society.	It will reduce the impact of climate change by increasing community resilience by encouraging the government to formulate policies and budgets related to climate change adaptation actions. Through this project funding, all these processes will be facilitated.

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Component	Baseline (Without AF)	Additional (With AF)
<u>climate change adaptation</u>		
Increase knowledge capacity and awareness of community climate change adaptation through knowledge management and youth-based campaigns	There is not yet massive action on climate change adaptation widely due to weak capacity and collective awareness.	It will reduce vulnerability to the impacts of climate change by encouraging the development of sensitivity and mutual concern through social movements carried out based on awareness of the risks of climate change.

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J. Sustainability

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

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79-99. This project will guarantee some kind of sustainability after the project ends. Several categories of sustainability are intended, including:

Financial Sustainability:

80-100. The sustainability of funding for beneficiaries after the project period ends will be strengthened through the internalization of climate change adaptation through the Climate Change Adaptation Working Group (POKJA API) to follow up on activities that have been built so that the target site receives funding and follow-up from the local government. In addition, the village will later take part in continuing through village budgeting in village funds.

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81. Financial sustainability for the community will be guaranteed through group cooperation with the market, as evidenced by a business cooperation agreement letter, so that the absorption of products produced by business groups can be maximally absorbed and financial turnover is stable.

101.

Institutional Sustainability

82-102. This project will ensure several types of institutions that will continue in the future, including:

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83-103. **Forest Farmer Groups (KTH):** To ensure the sustainability of forest farmer groups, productive activities will be carried out for them, such as capacity building, planting of economically valuable crops, as well as group collaboration with social forestry business groups.

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84-104. **Social Forestry Business Groups (KUPS):** To ensure the sustainability of the social forestry business group, activities will be carried out to ensure the smooth marketing of its products through cooperation with potential markets. In addition, cooperation with forest farmer groups will also ensure the supply of raw materials to continue producing products.

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85-105. **Aquaculture Groups:** To ensure the group's sustainability, productive activities will be carried out for them, such as capacity building and provision of fish seeds as a core part of cultivation, so this process will continue. In addition, group collaboration with fisheries business groups will determine where the supply will go.

86-106. **Fishery Business Groups:** To ensure the sustainability of the fishery business, activities will be carried out to ensure the smooth marketing of products through cooperation with potential markets, as well as cooperation in supplying raw materials from aquaculture groups and several other suppliers.

87-107. **Climate Town Working Group:** To ensure the sustainability of the Climate Village Working Group, capacity building activities will be carried out, and the climate change action plan will be internalized into the village. So, this group will continue because of the support from the village.

108. **Climate Change Adaptation Working Group (POKJA-API):** To ensure the sustainability of the working group on climate change adaptation, activities that will build cooperation and mutual commitment will be carried out so that an action plan is drawn up, which will form the basis for future actions.

Social Sustainability

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109. **Group Rules:** In order to ensure social sustainability, each group that is formed or developed will establish rules through deliberation, so that there are boundaries as to what should be done in groups.

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88-110. **Group Planning:** to ensure the sustainability of the group, group planning will be carried out in terms of group management and business, so that the planning becomes a common reference and common goal.

Environmental Sustainability

89. Environmental sustainability in this project involves two different landscapes, namely:

111. **Forests:** To ensure sustainability in forest areas, activities that have a positive impact on the environment will be carried out, such as capacity building, especially on how to prevent erosion, as well as planting erosion-reducing plants and providing cultivation facilities and infrastructure. So that good practices for the environment are developed.

90-112. **Water Body (Lake):** To ensure sustainability in the Tempe Lake area, activities will be carried out to reduce/control invasive populations and disturb other populations.

91-113. **Water Body (Lake):** To ensure sustainability in the Tempe Lake area, activities will be carried out to reduce/control invasive populations and disturb other populations.

K. 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.

114. This project does not provide significant environmental and social impacts and risks. Based on the OPG Annex 3-Environmental and Social Policy Adaptation Fund, it can be categorized in **category C**.

Checklist of environmental and social principles	No further compliance assessment required	Potential impacts and risks – further compliance assessment and management are required
Compliance with the Law	✓	
Access and Equity	✓	
Marginalized and Vulnerable Groups		✓
Human Rights	✓	
Gender Equality and Women's Empowerment	✓	
Core Labour Rights	✓	
Indigenous Peoples	✓	
Involuntary Resettlement	✓	
Protection of Natural Habitats	✓	
Conservation of Biological Diversity	✓	
Climate Change	✓	
Pollution Prevention and Resource Efficiency	✓	
Public Health	✓	
Physical and Cultural Heritage	✓	
Lands and Soil Conservation	✓	
Checklist of environmental and social principles	No further compliance assessment required	Potential impacts and risks – further compliance assessment and management are required
Compliance with the Law	Further compliance assessment is not required	The project implementation will ensure that all activities comply with the law, and in principle, the project implementer will ensure that all licensing components follow the applicable regulations. Every permit will follow the regulations written in Part II - D & E on this project concept note
Access and Equity	Further compliance assessment is not required	The project does not hinder access to basic health services, clean water and sanitation, energy, education, housing, safe and decent working conditions, and land rights. The project also does not exacerbate existing inequities, particularly concerning marginalized or vulnerable groups. The project has been designed not to impede any group's access to the essential services and rights stated in principle
Marginalized and Vulnerable Groups	Compliance assessment during the implementation may be required	The project to be implemented does not harm marginalized and vulnerable groups, and instead, this project will touch on and intervene for these marginalized and vulnerable groups. However, what needs to be considered is that there is a possibility of marginalized and vulnerable groups due to limited data and information regarding the number of marginalized and vulnerable groups in the target area

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Checklist of environmental and social principles	No further compliance assessment required	Potential impacts and risks – further compliance assessment and management are required
Human Rights	Further compliance assessment is not required	The project will respect and, if possible, promote international human rights. Promoting human rights will be achieved by creating awareness with everyone involved in the project, including planning, implementation, monitoring, and evaluation. The International Declaration of Human Rights became the guiding principle for the entire project
Gender Equality and Women's Empowerment	Further compliance assessment is not required	The project will be designed in such a way as to maintain gender equality. So that women and men can be sure to have equal opportunities in project involvement. The project will actively involve equal participation in project/program activities and stakeholder consultation. The project also ensures that both men and women effectively access positions in the project/program, and women are encouraged to undertake and take positions, which in essence, project design and implementation will ensure equal access for men and women. Gender involvement is assessed through the proportion of work in the household so that it can support their livelihood. Activities related to the beneficiaries of training and capacity building are 30% women. The planned intervention will positively impact women's empowerment and ensure gender equality due to specific livelihoods. The principle of gender equality and women's empowerment in project activities is designed using an integrated gender plan as a safeguard that sees the proportion of involvement between men and women in all project activities as much as possible.
Core Labour Rights	Further compliance assessment is not required	The proposed project will meet the required work standards determined by international and national standards. The ILO labor standards are stated in the Declaration of Principles and Fundamental Rights and Rights in 1998. Meanwhile, the National standards follow the fulfillment of rights for workers such as health insurance, work safety, and others. Thus, the project will incorporate the core ILO labor standards in the design and implementation of the project or program and create awareness among all involved on how these standards are applied. Apart from that, this project will also follow Law No. 11 of 2020 concerning <i>Cipta Kerja</i> , which includes how employment is regulated. The entire program is not related to violations of core labor rights
Indigenous Peoples	Further compliance assessment is not required	The proposed project does not involve indigenous peoples because the project site does not have indigenous peoples in it
Involuntary Resettlement	Further compliance assessment is not required	The proposed project will not involve resettlement, loss of assets, or transfer of economic facilities and infrastructure
Protection of Natural Habitats	Further compliance assessment is not required	The proposed project will not intervene in the conversion or degradation of nature, and instead, it will further improve the quality of nature through cultivation and management models
Conservation of Biological Diversity	Further compliance assessment is not required	The proposed project is not located in an area with endemic animals or plants. So that it does not interfere with the biodiversity continuity
Climate Change	Further compliance assessment is not required	The proposed project does not add a positive contribution to climate change; it is precisely through this program that the community can adapt to the current climate change impacts
Pollution Prevention and Resource Efficiency	Further compliance assessment is not required	The project does not generate any pollutants or waste production
Public Health	Further compliance assessment is not required	The project did not focus on activities related to avoiding significant negative impacts on public health, access to medical care, and health facilities

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Checklist of environmental and social principles	No further compliance assessment required	Potential impacts and risks – further compliance assessment and management are required
Physical and Cultural Heritage	Further compliance assessment is not required	The project is also not subject to attempts to alter, damage, or remove physical and cultural resources, cultural sites, and sites of unique nature, such as in the community. This national or international level is World Cultural and Natural Heritage
Lands and Soil Conservation	Compliance assessment during the implementation may be required	Planting activities are carried out during project implementation by planting in areas with a high sedimentation impact. Plantings will include vetiver, shrubs, Arachis pinto, and MPTs. The plant fails to grow when the intended species is incompatible. Plant species selection mistakes can cause soil damage

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Principles 1. Compliance with the Law

92. The project implementation will ensure that all activities comply with the law, and in principle, the project implementer will ensure that all licensing components follow the applicable regulations. Every permit will follow the regulations written in Part II - D & E on this project concept note. Therefore, there are no risks and negative impacts arising from the project, so no further assessment is needed.

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Principles 2. Access and Equity

93. The project does not hinder access to basic health services, clean water and sanitation, energy, education, housing, safe and decent working conditions, and land rights. The project also does not exacerbate existing inequities, particularly concerning marginalized or vulnerable groups. The project has been designed not to impede any group's access to the essential services and rights stated in principle and therefore does not require further compliance assessment.

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Principles 3. Marginalized and Vulnerable Groups

94. The project to be implemented does not harm marginalized and vulnerable groups, and instead, this project will touch on and intervene for these marginalized and vulnerable groups. However, what needs to be considered is that there is a possibility of marginalized and vulnerable groups due to limited data and information regarding the number of marginalized and vulnerable groups in the target area. So further assessment is needed to see the extent of the intervention that can be carried out.

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Principles 4. Human Rights

95. The project will respect and, if possible, promote international human rights. Promoting human rights will be achieved by creating awareness with everyone involved in the project, including planning, implementation, monitoring, and evaluation. The International Declaration of Human Rights became the guiding principle for the entire project. So, it does not require further assessment of compliance.

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Principles 5. Gender Equality and Women's Empowerment

96. The project will be designed in such a way as to maintain gender equality. So that women and men can be sure to have equal opportunities in project involvement. The project will actively involve equal participation in project/program activities and stakeholder consultation. The project also ensures that both men and women effectively access positions in the project/program, and women are encouraged to undertake and take positions, which in essence, project design and implementation will ensure equal access for men and women. Gender involvement is assessed through the proportion of work in the household so that it can support their livelihood. Activities related to the beneficiaries of training and capacity building are 30% women. The planned intervention will positively impact women's empowerment and ensure gender equality due to specific livelihoods. The principle of gender equality and women's empowerment in project activities is designed using an integrated gender plan as a safeguard that sees the proportion of involvement between men and women in all project activities as much as possible. It does not require further assessment of compliance.

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Principles 6. Core Labour Rights

97. The proposed project will meet the required work standards determined by international and national standards. The ILO labor standards are stated in the Declaration of Principles and

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Fundamental Rights and Rights in 1998. Meanwhile, the National standards follow the fulfillment of rights for workers such as health insurance, work safety, and others. Thus, the project will incorporate the core ILO labor standards in the design and implementation of the project or program and create awareness among all involved on how these standards are applied. Apart from that, this project will also follow Law No. 11 of 2020 concerning *Cipta Kerja*, which includes how employment is regulated. The entire program is not related to violations of core labor rights, so no further assessment is required.

Principles 7. Indigenous People

98. The proposed project does not involve indigenous peoples because the project site does not have indigenous peoples in it, so it does not require further compliance assessment.

Principles 8. Involuntary Resettlement

99. The proposed project will not involve resettlement, loss of assets, or transfer of economic facilities and infrastructure. So, it does not require further assessment related to compliance.

Principles 9. Natural Habitat Protection

100. The proposed project will not intervene in the conversion or degradation of nature, and instead, it will further improve the quality of nature through cultivation and management models. So, no further assessment is needed.

Principles 10. Biodiversity Conservation

101. The proposed project is not located in an area with endemic animals or plants. So that it does not interfere with the biodiversity continuity. Therefore, no further assessment is needed.

Principles 11. Climate Change

102. The proposed project does not add a positive contribution to climate change; it is precisely through this program that the community can adapt to the current climate change impacts. So, no further assessment is needed.

Principles 12. Pollution Prevention and Resource Efficiency

103. The project does not generate any pollutants or waste production, so no further assessment is required.

Principles 13. Public Health

104. The project did not focus on activities related to avoiding significant negative impacts on public health, access to medical care, and health facilities and thus did not require further compliance assessments.

Principles 14. Physical and Cultural Heritage

105. The project is also not subject to attempts to alter, damage, or remove physical and cultural resources, cultural sites, and sites of unique nature, such as in the community. This national or international level is World Cultural and Natural Heritage, so no further compliance assessment is required.

Principles 15. Soil and Land Conservation

106. In project implementation, all activities will not impact land damage and other activities that can cause land loss and degradation. Instead, this project will restore good land use. Thus, no further compliance assessment is required.

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PART III: IMPLEMENTATION ARRANGEMENTS

A. Project Implementation Arrangements

Describe the arrangements for project / programme implementation.

407-115. This project will be implemented 24 months with the Partnership for Governance Reform as the Implementing Entity (IE) Adaptation Fund in Indonesia. In implementing the project in the target area, NIE will work together with institutions that work a lot on landscape issues in South Sulawesi, including (1) Tim Layanan Kehutanan Masyarakat (TLKM); (2) Yayasan Romang Celebes Indonesia; and (3) Yayasan AKU Rimba Indonesia, which in this project acts as the Executing Entity (EE). TLKM as the lead Executing Entity (EE). In this case, the personnel is directly involved in the project as Project Director. The Project Director is in charge of leading the EE, which will be responsible for reporting project results to National Implementing Entity (NIE) and National Designated Authority (NDA). TLKM already has experience running watershed ecosystem-based projects, where TLKM, as the lead of the KAPABEL Consortium, previously became EE in the Project Adaptation Fund for 2020-2022 with the title "Community Adaptation for Forest-Food Based Management in Saddang Watershed Ecosystem" in Indonesia. Yayasan Romang Celebes Indonesia has experience in managing marine resources in South Sulawesi. Yayasan AKU Rimba Indonesia is also a member of the KAPABEL consortium and has a series of experiences in improving forest landscapes in South Sulawesi. With the capacity and experience of each institution involved in this project, it is hoped that this project will significantly impact the beneficiaries in a targeted, effective, efficient, and gender-responsive way.

408-116. This project will be managed by the **Project Management Unit (PMU)** with the composition of the Project Manager, Finance, Experts, and M&E. The Project Manager (PM) will lead the implementation or execution of the project, ensure that all project outcome-output-objective indicators are following the plan, report the results based on the M&E plan to the Project Director, and coordinate and report to relevant stakeholders both at the provincial and district levels. The Project Manager will also be supported by experts based on the areas of expertise needed based on the needs of achieving project components. Experts become a consultancy tool to strengthen the right decision making in project implementation and ensure that project activities comply with the ESMP. To ensure project implementation goes on track, M&E Specialists are needed as the main person responsible for maintaining the quality and achievement of project output-outcome-objectives indicators.

409-117. To ensure that the project implementation agenda is carried out correctly, effectively, and efficiently in the field, it is necessary to obtain assistance from operational personnel at the site level through the Project Component Team. Elements in this team include the Project Component Leader, who assists PM tasks in pursuing the project indicators achievement; team personnel in each component such as field facilitators, policy advocacy staff, and multi-stakeholder involvement, as well as knowledge management and communication personnel.

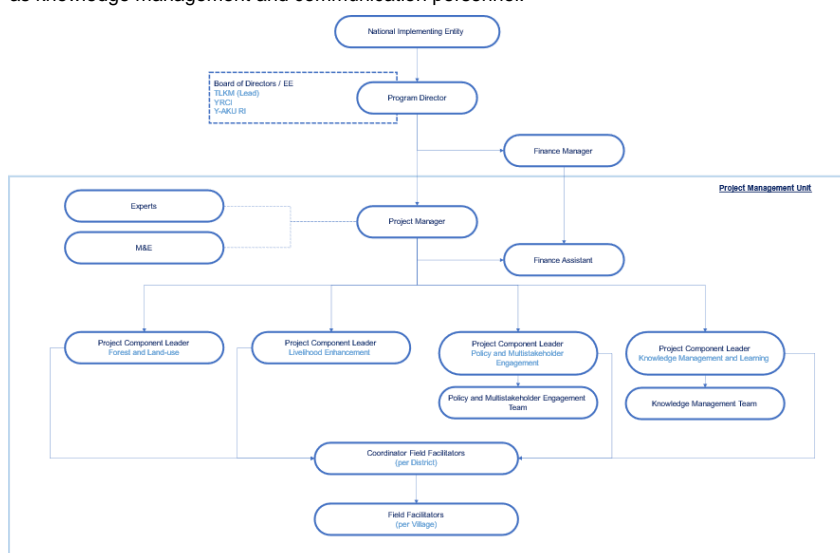


Figure 14. Project Implementation Arrangements Structure

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Figure 13. Project Implementation Arrangements Structure

B. Financial and Project Risk Management

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

410-118. In project implementation, all phases of planning are analyzed to see the level of risk of the proposed project. A risk mitigation strategy is loaded to manage risk appropriately. The following is a table of types of risks, risk descriptions, and risk mitigation strategies to minimize project risks

Category	Potential Risk	Level	Risk Mitigation Strategy
Institutional	Structural changes to local government with great potential will occur in 2024, so it will weaken project management in intervening at the local government level	Medium	The project intervention will not have a significant effect, especially in the beneficiary village/urban-village (<i>kelurahan</i>) community. However, the project intervention in the government will be very influential, so it is necessary to carry out intense coordination and communication.
	Personnel changes in project management that will affect project achievement	Low	In the recruitment process, commitment from management personnel is required, which is marked by a contract that becomes the legal basis for project personnel
Financial	Delays in the disbursement of funding, procurement, and others that require a relatively lengthy process that delays the project's progress	Low	Active communication with grant providers regarding the fulfillment of needs. The Community Forestry Service Team will also play a role in meeting temporary funding
	Delays in financial reporting due to accessibility barriers in the field	Medium	Field Finance is needed, which will collect all reports in the field, as well as create a financial reporting system that is relevant to field conditions
	Changes in currency exchange rates led to changes in the proposed budget system and their impact on the activities and work plans of the proposed budget	Medium	Adjustments to changes in exchange rates and funding reductions

C. Environmental and Social Risk Management

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

Environmental and social principles	Impact and Risk	Mitigation Strategy
Compliance with the Law	-	-
Access and Equity	-	-
Marginalized and Vulnerable Groups	Uneven involvement of marginalized and vulnerable groups	<ul style="list-style-type: none"> Further assessment of marginalized and vulnerable groups Involve marginalized and vulnerable groups
Human Rights	-	-
Gender Equality and Women's Empowerment	-	-
Core Labour Rights	-	-
Indigenous Peoples	-	-
Involuntary Resettlement	-	-
Protection of Natural Habitats	-	-
Conservation of Biological Diversity	-	-
Climate Change	-	-
Pollution Prevention	-	-

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Environmental and social principles	Impact and Risk	Mitigation Strategy
and Resource Efficiency		
Public Health	-	-
Physical and Cultural Heritage	-	-
Lands and Soil Conservation	The plant fails to grow when the intended species is incompatible. Plant species selection mistakes can cause soil damage.-	<ul style="list-style-type: none"> • Further assessment of land suitability • Choosing local plants to plant -

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D. Monitoring & Evaluation

Describe the monitoring and evaluation arrangements and provide a budgeted M&E plan, in compliance with the ESP and the Gender Policy of the Adaptation Fund.

111-119. Monitoring and Evaluation (M&E) of the project will refer to the framework that has been prepared by considering the components (1) Strategy and objectives; (2) Achievement Indicators; (3) Implementation of Activities; (4) Financial Use, which later these components will assist in:

- 1) **Compliance:** M&E determines whether the actions of administrators, staff, and all involved follow established standards and procedures.
- 2) **Auditing:** M&E determines whether resources and services destined for specific parties (targets) have reached them.
- 3) **Accounting:** M&E produces information that helps to "calculate" the results of social and societal change due to policy implementation after a certain period.
- 4) **Explanation:** M&E generates information that helps explain the hows of policy outcomes and why planning and implementation do not match.

112-120. Monitoring and Evaluation are performed using document review methods, field visits, interviews, or parties' discussions. Monitoring is directed to see Efficiency, Effectiveness, and Results. The monitoring and evaluation results can be used as learning materials for improvement or development in other places so that the results of monitoring and evaluation obtained will be reported periodically to the relevant parties: adaptation funds, partnerships, and stakeholders in the region. Reporting within the M&E framework is in the form of:

- 1) **Activity Report:** Reports will be issued on every activity so that there is monitoring through the report, thus helping to prove the progress that has been made, including assessing finance use on activities that have been carried out.
- 2) **Quarterly Report:** Reports will be made every 3 months. The Quarterly Report section will summarize the related activities and output levels contributing to the expected results.
- 3) **Annual Performance Report:** A performance assessment system carried out by superiors to their subordinates. The elements that are assessed are loyalty, work performance, responsibility, obedience, honesty, cooperation, initiative, and leadership. Assessment will be conducted at the middle and end of each project.
- 4) **Final Project Report:** This evaluation was carried out two months before the end of the project. This evaluation is carried out through reporting that summarizes the results achieved (Objectives, Outcomes, and Outputs), problems, and results not achieved. These evaluation results will become recommendations for each region to ensure the sustainability of the projects that have been implemented. Evaluation is carried out in a comprehensive, transparent, and accountable manner.

Monitoring and Evaluation Budget

Activities	Targets	Cost (\$)	Time
Baseline Survey	Outcome, Output indicator targets	\$2,797	Starting Project
Midline Survey	Outcome, Output indicator targets	\$2,797	Mid of Project
Final Survey	Outcome, Output indicator targets	\$8,392	Final Project
Report Reviews, Interview, FGD Management	Process, milestones, efficiency, effectiveness, results	\$3,357	once every 3 months
Monev Workshop	Process, milestones, efficiency, effectiveness, results	\$5,594	once every 6 months

Internal Audit	Managements	\$13,986	Annual
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E. Results Framework

Include a results framework for the project proposal, including milestones, targets and indicators, including one or more core outcome indicators of the Adaptation Fund Results Framework, and in compliance with the Gender Policy of the Adaptation Fund.

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Outcome/Output	Indicator	Baseline	Target			Source of Verification
			2023	2024	2025	
Component 1. Improvements in land use of 500 ha in forest landscapes ecosystem that contributes to sedimentation restraint in the Tempe Lake ecosystem Improving land-use practices in the Tempe Lake ecosystem that contributes to sedimentation restraint						
Outcomes 1.1. <u>Strengthening agroforestry in the Tempe Lake ecosystem forest landscape</u> <u>Strengthening agroforestry management practices that can prevent erosion</u>	improvement of agroforestry pattern on 500 ha land <u>improvement</u>	0	0	0	500	Reports, Documentation
Outputs 1.1.1. <u>The presence of 500 ha agroforestry plantation and erosion barrier</u> <u>Improved land management practices that contribute to erosion restraint</u>	<u>500 ha area covering of planting agroforestry and erosion prevention plants covering an area of 500 Ha</u>	0	0	0	500	Reports, Documentation
Outputs 1.1.2. <u>The availability of facilities and infrastructure for plant cultivation in an agroforestry pattern</u> <u>The availability of facilities and infrastructure to support land management activities</u>	as many as 8 villages will get facilities and infrastructure	0	0	8	0	Reports, Documentation, Minutes of Handover of Goods
Outcomes 1.2. <u>Building community capacity for erosion restraint</u> <u>Community capacity building for erosion restraint</u>	200 farmers increase their capacity	0	200	0	0	Reports, Documentation
Outputs 1.2.1. <u>Increased community knowledge capacity on land management-based erosion restraint</u> <u>Increased community knowledge capacity regarding the causes and impacts of erosion, as well as land management-based erosion restraint</u>	200 farmers increase their capacity	0	200	0	0	Reports, Documentation
Component 2. 2. Reinforcing the community's economic resilience in the Tempe Lake ecosystem through creative business development in the forestry and fisheries sectors Reinforcing the economic resilience of the community in the Tempe Lake ecosystem through livelihoods enhancement						
Outcomes 2.1. Development of forestry commodity business through social forestry business groups	8 growing social forestry enterprise groups	0	0	0	8	Reports, Documentation
Outputs 2.1.1. <u>2.1.1</u> Increased capacity and skills for developing forestry commodity businesses	8 business groups increase their capacity	0	8	0	0	Reports, Documentation

Outcome/Output	Indicator	Baseline	Target			Source of Verification
			2023	2024	2025	
Outputs 2.1.2. Increasing the added value of forestry commodity	8 products of social forestry business groups that have been certified 8 social forestry business groups get business development facilities and infrastructure	0	0	4	4	Reports, Documentation, Minutes of Handover of Goods
Output 2.1.3 Strengthening the marketing information of forestry commodity product	1 market potential information document for forestry commodity dokumen informasi potensi pasar kehutanan	0	1	0	0	Reports, Documentation
Outcomes 2.2. Development of fisheries commodity business based on women and vulnerable groups	3 home-industry-based business groups in each village	0	0	3	0	Reports, Documentation
Outputs 2.2.1. Increased capacity and skills for developing fishery commodity businesses	3 business groups increase their capacity	0	3	0	0	Reports, Documentation
Outputs 2.2.2. Increasing the added value of fishery commodity	3 certified fishery products 3 groups get facilities and infrastructure	0	0	3	0	Reports, Documentation, Minutes of Handover of Goods
Outputs 2.2.3. Establishment of a sustainable fisheries commodity cycle Encouraging the sustainable commodity cycle	1 market potential information document for fishery commodity 3 cages and a cage management group	0	1	3	0	Reports, Documentation
Component 3. Strengthening collaborative action of stakeholders and cross-sectoral policies for climate change adaptation Encouraging collaborative action of stakeholders and cross-sectoral policies related to climate change adaptation						
Outcomes 3.1. Strengthening the cross-cutting policies in the Tempe Lake ecosystem Encouraging the cross-cutting policies in the Tempe Lake ecosystem	1 regional policy	0	0	0	1	Reports, Documentation
Outputs 3.1.1. The establishment of the Climate Change Adaptation Working Group (POKJA API) and the presence of Regional Climate Change Adaptation Action Plan (RAD-API) Presence of Regional Action Plan for Climate Change Adaptation (RAD-API) policies	1 Decree of POKJA API Formation 1 RAD Document	0	0	0	1	Reports, Documentation
Outcomes 3.2. Strengthening collaborative action in	4 Proklam villages in the Tempe Lake	0	0	0	4	Reports, Documentation

Outcome/Output	Indicator	Baseline	Target			Source of Verification
			2023	2024	2025	
local level through Climate Town Program (ProKlim) Encouraging collaborative action based on the local community	ecosystem					
Outputs 3.2.1. <u>Establishment of Climate Town (ProKlim) as the climate change adaptation actions at the local level</u> Establishment of the Climate Town Program (ProKlim) as the climate change adaptation actions at the local level	4 POKJA-ProKlim	0	0	0	4	Reports, Documentation, Decree of POKJA Formation
Component 4. Increasing knowledge capacity and community awareness regarding climate change adaptation through knowledge management and youth-based campaigns						
Outcomes 4.1. <u>Increasing community knowledge capacity to enhance resilience to climate change</u> Increased knowledge capacity of the community in the Tempe Lake ecosystem to increase resilience to climate change	100 people increased capacity	0	0	0	100	Reports, Documentation
Outputs 4.1.1. <u>The dissemination of learning on climate change adaptation programs based on the Tempe Lake ecosystems</u> The dissemination of learning on climate change adaptation programs based on the Tempe Lake landscape	1 short video dDocumentary 1 best practice book 3 posters, banners, infographics 1 operating website 1 social media platform	0	0	0	7	Reports, Documentation
Outcomes 4.1.2. Increased knowledge capacity of the community in improving local-based climate change adaptation actions in the Tempe Lake ecosystems	100 people increased capacity	0	20	20	60	Reports, Documentation
Outcomes 4.2. Increased public awareness of climate change adaptation actions based on local youth-based campaign movements	100 people are involved in the climate change adaptation campaign	0	0	0	100	Reports, Documentation
4.2.1. <u>Strengthening youth initiatives in promoting climate change adaptation actions</u> The establishment of youth initiatives in promoting climate change adaptation actions	100 youths involved in the campaign	0	0	0	100	Reports, Documentation

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F. Alignment with Adaptation Fund Framework

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

Project Objective(s) ²⁵	Project Objective Indicator(s)	Fund Outcome	Fund Outcome Indicator	Grant Amount (USD)
1. Improving land use practices in the Tempe Lake ecosystem that contributes to sedimentation restraint <u>Improvements in land use of 500 ha in forest landscapes ecosystem that contributes to sedimentation restraint in the Tempe Lake ecosystem</u>	500 ha of agroforestry is strengthened (enhanced) through crop management that can prevent erosion 200 people increased their capacity for erosion control <u>200 people increased their capacity for erosion control</u>	Outcome 5: Increased ecosystem resilience in response to climate change and variability -induce stress Outcome 2: Strengthening institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses Outcome 3: Strengthened awareness and ownership of adaptation and climate risk reduction processes at local level	5. Ecosystem services and natural assets maintained or improved under climate change and variability-induced stress 2.1. Capacity of staff to respond to, and mitigate impacts of, climate-related events from targeted institutions increased <u>3.1. Percentage of targeted population aware of predicted adverse impact of climate change and of appropriate responses</u>	\$375,874
2. Reinforcing the economic resilience of the community in the Tempe Lake ecosystem through livelihoods enhancement <u>Reinforcing the community's economic resilience in the Tempe Lake ecosystem through creative business development in the forestry and fisheries sectors</u>	120 people who are members of the social forestry group improve their economy through the development of forestry businesses by the social forestry businesses group 45 people on the coast have improved their economy through the development of fisheries businesses by women and vulnerable groups <u>45 people on the coast have improved their economy through the development of fisheries businesses by women and vulnerable groups</u>	Outcome 6: Diversified and strengthened livelihoods and sources of income for vulnerable people in targeted areas	6.1 Percentage of households and communities having more secure access to livelihood asset 6.2. Percentage of targeted population with sustained climate-resilient alternative livelihoods <u>6.2. Percentage of targeted population with sustained climate-resilient alternative livelihoods</u>	\$284,615
3. Encouraging collaborative action of stakeholders and cross-sectoral policies related to climate change adaptation <u>Strengthening collaborative action of</u>	Approval of the 1 regional action plan of climate change adaptation (RAD-API) policy in the form of a Regent's Regulation <u>approved</u>	Outcome 7: Improved policies and regulations that promote and enforce resilience measures	7. Climate change priorities are integrated into the national development strategy	\$98,252

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²⁵ The AF utilized OECD/DAC terminology for its results framework. Project proponents may use different terminology but the overall principle should still apply

<u>stakeholders and cross-sectoral policies for climate change adaptation</u>	Encouraging four (4) villages in the climate village-town program (ProKlim) in order to strengthen climate change adaptation actions in the Tempe Lake ecosystem. 15 institutions (key actors) increasing capacity, awareness and alignment related to climate change adaptation			
4. Increasing knowledge capacity and community awareness regarding climate change adaptation through knowledge management and youth-based campaigns 4.	1 short video documentary, 1 best practice book, 3 posters, banners, infographics, 1 operating website, 1 social media platform to increase public knowledge capacity Involving 100 youths in climate change adaptation campaigns 100 youths in climate change adaptation campaigns involved	Outcome 2: Strengthening institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses Outcome 3: Strengthened awareness and ownership of adaptation and climate risk reduction processes at the local level	2.1. Capacity of staff to respond to, and mitigate impacts of, climate-related events from targeted institutions increased 3.1. Percentage of the targeted population aware of predicted adverse impacts of climate change and appropriate responses 3.2. Percentage of targeted population applying appropriate adaptation responses 3.2. Percentage of targeted population applying appropriate adaptation responses	\$77,133
Project Outcome(s)	Project Outcome Indicator(s)	Fund Output	Fund Output Indicator	Grant Amount (USD)
1.1. <u>Strengthening agroforestry in the Tempe Lake ecosystem forest landscape</u> Strengthening agroforestry management practices that can prevent erosion	500 Ha of agroforestry land use practices that contribute to erosion control 8 intervention villages receive infrastructure and facilities to support agroforestry management. Procurement of facilities and infrastructure to support land management activities in 8 intervention villages	Output 5: Vulnerable ecosystem services and natural resource assets strengthened in response to climate change impacts, including variability Output 4: Vulnerable development sector services and infrastructure assets strengthened in response to climate change impacts, including variability	5.1. No. of natural resource assets created, maintained or improved to withstand conditions resulting from climate variability and change (by type and scale) 4.1.2. No. of physical assets strengthened or constructed to withstand conditions resulting from climate variability and change (by sector and scale)	\$225,874
1.2. <u>Building community capacity for erosion restraint</u> Community capacity building for erosion restraint	200 people increase their knowledge capacity about the causes and impacts of erosion, as well as land management-based erosion control	Outcome 3: Strengthened awareness and ownership of adaptation and climate risk reduction processes at local levelOutput 3.2 Strengthened capacity of national and subnational stakeholders and entities to capture and disseminate knowledge and learning	3.1. Percentage of targeted population aware of predicted adverse impact of climate change and of appropriate responses3.2.1. No. of technical committees/ associations formed to ensure transfer of knowledge 3.2.2 No. of tools and guidelines	\$150,000

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			developed (thematic, sectoral, institutional) and shared with relevant stakeholders	
2.1. Development of forestry commodity business through social forestry business groups	<p>8 social forestry business groups increase their capacity and skills in business development</p> <p><u>8 social forestry business products receive equipment, business certification, and permit facilities to increase product added value. Increasing the added value of forestry products through facilitation of business facilities and licensing of 8 social forestry business groups</u></p> <p><u>1 document market research to strengthen market forestry product</u> Strengthening of forestry product marketing information through the preparation of 1 market potential document</p>	Output 6: Targeted individual and community livelihood strategies strengthened in relation to climate change impacts, including variability	<p>6.1.1. No. and type of adaptation assets (tangible and intangible) created or strengthened in support of individual or community livelihood strategies</p> <p>6.2.1. Type of income sources for households generated under climate change scenario</p>	\$153,147
2.2. Development of fisheries commodity business based on women and vulnerable groups	<p><u>Forming 3 business groups formed</u> on a home industry scale and increasing their capacity and skills in developing fishery businesses</p> <p><u>3 home industry-scale products receive equipment, business certification, and permit facilities to increase product added value. Increasing the added value of 3 home industry-scale products through the facilitation of facilities and business certification</u></p> <p><u>Building 3 floating net cages built, forming 3 management groups formed, and having presence. 1 market potential document in order to ensure a sustainable fish production cycle</u></p>	<p>Output 6: Targeted individual and community livelihood strategies strengthened in relation to climate change impacts, including variability</p> <p>Output 4: Vulnerable development sector services and infrastructure assets strengthened in response to climate change impacts, including variability</p>	<p>6.1.1. No. and type of adaptation assets (tangible and intangible) created or strengthened in support of individual or community livelihood strategies</p> <p>6.2.1. Type of income sources for households generated under climate change scenario</p> <p>4.1.2. No. of physical assets strengthened or constructed to withstand conditions resulting from climate variability and change (by sector and scale)</p>	\$131,469
3.1 <u>Strengthening the cross-cutting policies in the Tempe Lake ecosystem</u> Encouraging the cross-cutting policies in the Tempe Lake ecosystem	1 planning document on RAD-API in the regions in order to encourage joint action of the parties in climate change adaptation	Output 7: Improved integration of climate-resilience strategies into country development plans	7.1. No. of policies introduced or adjusted to address climate change risks (by sector)	\$73,077

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			7.2. No. of targeted development strategies with incorporated climate change priorities enforced	
3.2. <u>Strengthening collaborative action in local level through Climate Town Program (ProKlim) Encouraging collaborative action based on the local community</u>	Encouraging 4 ProKlim Villages in the Tempe Lake ecosystem in the context of Village-Based Joint Action in Adapting to Climate Change	Output 7: Improved integration of climate-resilience strategies into country development plans Output 5: Vulnerable ecosystem services and natural resource assets strengthened in response to climate change impacts, including variability	7.1. No. of policies introduced or adjusted to address climate change risks (by sector) 7.2. No. of targeted development strategies with incorporated climate change priorities enforced 5.4. No. of natural resource assets created, maintained or improved to withstand conditions resulting from climate variability and change (by type and scale)	\$25,175
4.1. <u>Increasing community knowledge capacity to enhance resilience to climate change</u> Increased knowledge capacity of the community in the Tempe Lake ecosystem to increase resilience to climate change	Making 1 short video documentary, 1 best practice book, 3 posters, 3 banners, 3 infographics, 1 operating website, & 1 social media platform in order to disseminate learning on climate change adaptation programs based on the Tempe Lake ecosystem through Increased knowledge capacity of 100 people in improving village-based climate change adaptation actions in the Tempe Lake ecosystem <u>increasing knowledge capacity</u>	Output 3.2: Strengthened capacity of national and subnational stakeholders and entities to capture and disseminate knowledge and learning	3.2.2 No. of tools and guidelines developed (thematic, sectoral, institutional) and shared with relevant stakeholders	\$33,217
4.2. Increased public awareness of climate change adaptation actions based on local youth-based campaign	100 youths initiate and promote climate change adaptation actions through climate change adaptation campaigns	Output 3.1: Targeted population groups participating in adaptation and risk reduction awareness activities Output 3.2: Strengthened capacity of national and subnational stakeholders and entities to capture and disseminate knowledge and learning	3.1 No. of news outlets in the local press and media that have covered the topic 3.2.1 No. of technical committees/associations formed to ensure transfer of knowledge <u>3.2.2 No. of tools and guidelines developed (thematic, sectoral, institutional) and shared with relevant stakeholders</u>	\$43,916

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G. Budget

Include a detailed budget with budget notes, a budget on the Implementing Entity management fee use, and an explanation and a breakdown of the execution costs.

Budget Description	Cost
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Component 1.	Component 1. Improvements in land use of 500 ha in forest landscapes ecosystem that contributes to sedimentation restraint in the Tempe Lake ecosystem	\$375,874
Outcome 1.1.	Strengthening agroforestry in the Tempe Lake ecosystem forest landscape	\$225,874
Output 1.1.1.	The presence of 500 ha agroforestry plantation and erosion barrier	\$24,476
Activity	1.1.1.1. Identification of land suitability	\$3,497
	1.1.1.2. Planting with agroforestry pattern	\$6,993
	1.1.1.3 Planting erosion control plants	\$13,986
Output 1.1.2.	The availability of facilities and infrastructure for plant cultivation in an agroforestry pattern	\$201,399
Activity	1.1.2.1. Seedling House Construction	\$27,972
	1.1.2.2. Facilitation of commodity cultivation equipment	\$33,566
	1.1.2.3. Operationalization Functional Forest and Landuse	\$139,860
Outcome 1.2.	Building community capacity for erosion restraint	\$150,000
Output 1.2.1.	Increased community knowledge capacity on land management-based erosion restraint	\$150,000
Activity	1.2.1.1. FGD on the causes and impacts of hamlet-based erosion	\$1,399
	1.2.1.2. Agroforestry development training	\$1,748
	1.2.1.3. MPTs plant cultivation training	\$5,245
	1.2.1.4. Erosion-resisting plant cultivation training	\$1,748
	1.2.1.5. Operationalization Capacity Building and Learning functional	\$139,860
Component 2.	Reinforcing the community's economic resilience in the Tempe Lake ecosystem through creative business development in the forestry and fisheries sectors	\$284,615
Outcome 2.1.	Development of forestry commodity business through social forestry business groups	\$153,147
Output 2.1.1.	Increased capacity and skills for developing forestry commodity businesses	\$34,266
Activity	2.1.1.1. Business development training series	\$13,986
	2.1.1.2. Comparative study of business development	\$11,189
	2.1.1.3. Strengthening business institutions	\$5,594
	2.1.1.4. Product processing module creation	\$3,497
Output 2.1.2.	Increasing the added value of forestry commodity	\$41,958
Activity	2.1.2.1 Regular business group meetings	\$6,993
	2.1.2.2 Business licensing facilities	\$6,993
	2.1.2.3. Facilitation of home industry facilities and infrastructure	\$27,972
Output 2.1.3.	Strengthening the marketing information of forestry commodity product	\$76,923
Activity	2.1.3.1 Research on forestry business market potential	\$3,497
	2.1.3.2 Facilitate meetings with potential business partners	\$3,497
	2.1.3.3. Operationalization forest livelihood functional	\$69,930
Outcome 2.2.	Development of fisheries commodity business based on women and vulnerable groups	\$131,469
Output 2.2.1.	Increased capacity and skills for developing fishery commodity businesses	\$84,615
Activity	2.2.1.1. Program Socialization at the Village level	\$2,098
	2.2.1.2. Operationalization of aquaculture livelihood	\$69,930
	2.2.1.3. Establishment of a household business group	\$2,098
	2.2.1.4. Serial-Training Aquatic Business Development	\$4,196

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	2.2.1.5. Strengthening business institutions	\$4,196
	2.2.1.6. Making aquatic product processing modules	\$2,098
Output 2.2.2.-	Increasing the added value of fishery commodity	\$28,671
Activity	2.2.2.1 Regular business group meetings	\$3,497
	2.2.2.2 Business licensing facilities	\$4,196
	2.2.2.3. Facilitation of home industry facilities and infrastructure	\$20,979
Output 2.2.3.-	Establishment of a sustainable fisheries commodity cycleEncouraging the sustainable commodity cycle	\$18,182
Activity	2.2.3.1 Research on the market potential of marine business	\$1,748
	2.2.3.2 Facilitating meetings with potential business partners	\$2,098
	2.2.3.3 Formation of pond management group	\$2,098
	2.2.3.4. Fisheries Cultivation Training Series	\$2,098
	2.2.3.5. Group institutional strengthening	\$1,748
	2.2.3.6. Procurement of group facilities and infrastructure	\$8,392
Component 3.-	Strengthening collaborative action of stakeholders and cross-sectoral policies for climate change adaptationEncouraging collaborative action of stakeholders and cross-sectoral policies related to climate change adaptation	\$98,252
Outcome 3.1.-	Strengthening the cross-cutting policies in the Tempe Lake ecosystemEncouraging the cross-cutting policies in the Tempe Lake ecosystem	\$73,077
Output 3.1.1.-	The establishment of the Climate Change Adaptation Working Group (POKJA API) and the presence of Regional Climate Change Adaptation Action Plan (RAD-API)Presence of Regional Action Plan for Climate Change Adaptation (RAD-API) policies	\$73,077
Activity	3.1.1.1 Meeting to Build Mutual Understanding Regarding Regional Action Plans for Climate Change Adaptation Wajo District	\$6,993
	3.1.1.2 Establishment of the Working Group on Climate Change Adaptation (Pokja API) Wajo District	\$3,497
	3.1.1.3 Facilitating Climate Change Vulnerability Assessment Wajo District	\$2,098
	3.1.1.4 Seminar on Climate Change Vulnerability Study Results Wajo District	\$2,797
	3.1.1.5 Preparing Regional Action Plans for Climate Change Adaptation (RAD - API)	\$5,245
	3.1.1.6 Facilitating the Preparation of the RAD-API Regent's Regulation	\$1,399
	3.1.1.7 Advocacy of bupati regulations related to RAD-API Wajo District	\$51,049
Outcome 3.2.-	Strengthening collaborative action in local level through Climate Town Program (ProKlim)Encouraging collaborative action based on the local community	\$25,175
Output 3.2.1.-	Establishment of Climate Town (ProKlim) as the climate change adaptation actions at the local levelEstablishment of Climate Town Program (ProKlim) as the climate change adaptation actions at the local level	\$25,175
Activity	3.2.1.1 Socialization of the Climate Village Program	\$3,497
	3.2.1.2 Meeting for the Establishment of the Climate Village Working Group	\$4,196
	3.2.1.3 Regular Meetings of Climate Village Working Group Working Group	\$5,594
	3.2.1.4 Preparation of a Climate Change Adaptation Action Plan Document	\$5,594
	3.2.1.5 Socialization of climate change adaptation action plans	\$3,497
	3.2.1.6 Climate Village Program Proposal Training	\$1,399
	3.2.1.7 Facilitation of Proklm Desa Village Proposals	\$1,399
Component 4.-	Increasing knowledge capacity and community awareness regarding climate change adaptation through knowledge management and youth-based campaigns	\$77,133
Outcome 4.1.-	Increasing community knowledge capacity to enhance resilience to climate changeIncreased knowledge capacity of the community in the Tempe Lake ecosystem to increase resilience to climate change	\$33,217
Output 4.1.1.-	The dissemination of learning on climate change adaptation programs based on the Tempe Lake ecosystemsThe dissemination of learning on climate change adaptation programs based on the Tempe Lake landscape	\$20,280
Activity	4.1.1.1. Making short video documentary	\$10,490

	4.1.1.2. Compilation of best practice books	\$3,497
	4.1.1.3. Local knowledge-based banners and posters	\$1,748
	4.1.1.4. Website and social media management	\$3,147
	4.1.1.5. Operationalization Communication Functional	\$1,399
Output 4.1.2-	Increased knowledge capacity of the community in improving local-based climate change adaptation actions in the Tempe Lake ecosystems	\$12,937
Activity	4.1.2.1. Workshop on Climate Change Adaptation in the Tempe Lake landscape	\$4,196
	4.1.2.2. Training on recognizing and reading village-based microclimates	\$3,497
	4.1.2.3. Tempe Lake Climate Change Adaptation Festival	\$1,748
	4.1.2.4. Field Facilitator Training	\$3,497
Outcome 4.2-	Increased public awareness of climate change adaptation actions based on local youth-based campaign-movements	\$43,916
Output 4.2.1-	Strengthening youth initiatives in promoting climate change adaptation actions The establishment of youth initiatives in promoting climate change adaptation actions	\$43,916
Activity	4.2.1.1. Youth climate change action festival	\$3,497
	4.2.1.2. Climate change adaptation photo essay competition in Tempe Lake	\$1,748
	4.2.1.3. Competition for climate change adaptation content creation in Tempe Lake	\$1,748
	Monitoring and Evaluation	\$36,923
Project Execution Cost		\$79,408
Forest and Land Use Specialist		\$3,462
Monev Specialist		\$4,154
Social Gender Specialist		\$3,462
Livelihood and Economic Specialist		\$3,462
Climate Change and Spatial Specialist		\$3,462
Program Director		\$8,308
Project Manager		\$13,846
Finance Manager		\$6,923
Finance Assistant (x3)		\$20,417
Office Rent		\$7,200
Stationary		\$1,458
Communication		\$1,177
Electricity, WIFI, Water		\$2,077
Project Cycle Management Services		\$77,799
Total Components		\$993,081

H. Disbursement Schedule

Include a disbursement schedule with time-bound milestones.

	Upon signature of the Agreement	One Year after Project Start. ^{a)}	Total
Scheduled date	April 2023	Marret 2024	

Project Cost	\$540,594	\$295,280	\$835,874
Execution Cost	\$40,706	\$38,702	\$79,408
Implementing Entity Fee	\$38,899	\$38,899	\$77,799
Total	\$616,800	\$371,482	\$993,081

	<u>Upon signature of the Agreement</u>	<u>One Year after Project Start</u>	<u>Total</u>
<u>Scheduled date</u>	<u>April 2023</u>	<u>March 2024</u>	
<u>Project Cost</u>	<u>\$540,594</u>	<u>\$295,280</u>	<u>\$835,874</u>
<u>Execution Cost</u>	<u>\$40,706</u>	<u>\$38,702</u>	<u>\$79,408</u>
<u>Implementing Entity Fee</u>	<u>\$38,900</u>	<u>\$38,899</u>	<u>\$77,799</u>
<u>Total</u>	<u>\$620,200</u>	<u>\$372,881</u>	<u>\$993,081</u>

PART IV: ENDORSEMENT BY GOVERNMENT AND CERTIFICATION BY THE IMPLEMENTING ENTITY

A. Record of endorsement on behalf of the government²⁶

Provide the name and position of the government official and indicate date of endorsement. If this is a regional project/programme, list the endorsing officials all the participating countries. The endorsement letter(s) should be attached as an annex to the project/programme proposal. Please attach the endorsement letter(s) with this template; add as many participating governments if a regional project/programme.

Ir. Laksmi Dhewanthi, M.A. IPU Director General of Climate Change Ministry of Environment and Forestry, Indonesia	Date: <u>August, 5, 2022</u>
Dr. Amran Mahmud, S.Sos., M.Si Regent of Wajo District	Date: <u>June, 20, 2022</u>
H. Andi Kaswadi Razak, SE Regent of Soppeng District	Date: <u>July, 14, 2022</u>
Ir. Andi Parenrengi, M.P Head of Forestry Service of South Sulawesi	Date: <u>July, 07, 2022</u>

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

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; President Decree No. 60 Year 2021; MoEF Regulations No. P.13/Menlhk/Setjen/OTL.0/1/2016; MoEF Regulations No. 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); Climate Change Adaptation National Action Plan) and subject to the approval by the Adaptation Fund Board, commit to implementing the project/programme in compliance with the Environmental and Social Policy and the Gender Policy of the Adaptation Fund and on the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this project/programme.

Laode M. Syarif
Executive Director of Partnership for Governance Reform in Indonesia (KEMITRAAN)
Implementing Entity Coordinator

Date: July/September, 15, 2022 Tel. and email:

Project Contact Person:

Tel. and Email:

²⁶ Each Party shall designate and communicate to the secretariat the authority that will endorse on behalf of the national government the projects and programmes proposed by the implementing entities.

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Annex 1. Endorsement Letter



MINISTRY OF ENVIRONMENT AND FORESTRY DIRECTORATE GENERAL OF CLIMATE CHANGE

Mangga Wanabakti Building Block VII 12th Floor, Jalan Gatot Subroto – Senayan, Jakarta 10270
Phone +62 21 5730144 Fax. : +62 21 5720194

Website : <http://ditjenppi.menlhk.go.id>

email : tusetditppi@gmail.com;

Our Ref. : *S. 282 / PP1 / API / PP1.0 / 8 / 2022*

Jakarta, 5 August 2022

Attachments :

Subject : Letter of endorsement

To:

The Adaptation Fund Board
c/o Global Environment Facility
Mail stop: N 7-700
1818 H Street NW
Washington DC 20433, USA

Dear Board Member,

Directorate General of Climate Change Ministry of Environment and Forestry as the National Designated Authority of Adaptation Fund in Indonesia through *Kemitraan* – Partnership for Governance Reform as the National Implementing Entity, have received and appraised 37 incoming concept notes.

After a thorough assessment process of the incoming concept notes, we come to the decision that the following 10 (ten) concept notes from 10 (ten) different organizations have met and are in accordance with the national priorities in the implementation of adaptation programs and activities to increase adaptive capacity and to reduce the impact and risks of climate change in vulnerable regions in Indonesia:

1. Yapeka; *Ecosystem-based Adaptation to Support Climate Resilience in Coastal and Small Islands of Rote Ndao and Sabu Raijua Districts in the Savu Sea*
2. TLKM; *Sustainable Landscape Governance; Towards Climate Resilience of Community in Tempe Lake Ecosystem*
3. KAPASITAS; *Adaptation to climate change through integrated forest management and sericulture business to achieve ecosystem resilience to food security for the Lake Tempe Catchment Area Community*
4. Garis Biru; *Strengthening the Adaptive Capacity of Coastal Village Communities in Supporting Food Security as a Response to Climate Change Through Stakeholder Elaboration Actions in West Sulawesi Province*
5. Sajogyo Institute; *Collaboration for the Conservation of Cimandiri Watershed Landscapes through the Potential of Silvopasture and Community Agroforestry*
6. KOAKSI; *Building Climate Resilient District in Indonesia: Case of Sigi District*
7. KEMITRAAN; *Village Based Coastal Adaptation and Resilience in Lombok Province of West Nusa Tenggara*
8. HUMA; *Change Climate and Adaptation in the Buffer Area of the New National Capital*
9. Mitra Aksi; *Increasing the resilience of smallholders from climate impacts through Smart Agriculture based on Livelihood Diversification in Indonesia*
10. KUAT (KARSA); *Strengthening Community Adaptation toward Climate Change through ProKlim in Ecoregion Neck of Sulawesi Island*

With this consideration, and in my capacity as the National Designated Authority of Adaptation Fund in Indonesia, I recommend the above proposals be granted support from the Adaptation Fund Board. All those programs will be executed by each of the submitting entities under the supervision of *Kemitraan* – Partnership for Governance Reform.

Sincerely Yours,



Laksmi Dhewanthi
Director General of Climate Change
Ministry of Environment and Forestry
as Indonesia Designated Authority of Adaptation Fund

Copy to:
Kemitraan (Partnership Governance Reform in Indonesia)



Certificate No. QSC 01469



BUPATI WAJO

SURAT REKOMENDASI

Nomor: 800/501/Setda

Yang bertanda tangan di bawah ini:

Nama : Dr. H. Amran Mahmud, S.Sos., M.Si
Jabatan : Bupati Wajo
Instansi : Pemerintah Kab. Wajo

Mewakili Pemerintah Kabupaten Wajo dengan ini memberikan rekomendasi dan dukungan penuh kepada Yayasan Tim Layanan Kehutanan Masyarakat (TLKM) sebagai *Non-Government Organization (NGO)* yang aktif dalam pemberdayaan masyarakat desa, untuk mengajukan daerah di Kabupaten Wajo, Sulawesi Selatan sebagai lokasi pengusulan program/project Adaptasi Perubahan Iklim dengan tema "Penguatan Ketahanan Iklim Masyarakat Ekosistem Danau Tempe Melalui Tata Kelola Berkelanjutan". Dalam hal ini Yayasan TLKM akan mengajukan usulan program/proyek kepada lembaga pemberi dana hibah internasional "Adaptation Fund" melalui Kemitraan (*The Partnership for Governance Reform*).

Demikian Surat Rekomendasi ini untuk digunakan sebagaimana mestinya.

Sengkang, 20 Juni 2022

BUPATI WAJO

DR. H. AMRAN MAHMUD, S.Sos., M.Si



BUPATI SOPPENG

SURAT REKOMENDASI
Nomor : 811 / KDS / VII / 2022

Yang bertanda tangan di bawah ini:

Nama : **H. A. KASWADI RAZAK, SE**
Jabatan : Bupati Soppeng
Instansi : Pemerintah Kabupaten Soppeng

Mewakili Pemerintah Kabupaten Soppeng dengan ini **memberikan Rekomendasi** dan dukungan penuh kepada Yayasan Tim Layanan Kehutanan Masyarakat (TLKM) sebagai *Non-Government Organization (NGO)* untuk mengajukan daerah di Kabupaten Soppeng Sulawesi Selatan sebagai lokasi pengusulan program/project Adaptasi Perubahan Iklim dengan tema **"Penguatan Ketahanan Iklim Masyarakat Ekosistem Danau Tempe Melalui Tata Kelola Berkelanjutan"**. Dalam hal ini Yayasan TLKM akan mengajukan usulan program/proyek kepada lembaga pemberi dana hibah internasional *"Adaptation Fund"* melalui Kemitraan (*The Partnership for Governance Reform*) dengan ketentuan sebagai berikut :

1. Dalam melaksanakan kegiatannya tidak bertentangan dengan peraturan dan perundang - undangan yang berlaku.
2. Pemerintah Kabupaten Soppeng tidak bertanggungjawab terhadap penyalahgunaan Surat Rekomendasi ini.

Demikian Surat Rekomendasi ini untuk digunakan sebagaimana mestinya

Watansoppeng, 14 Juli 2022





PEMERINTAH PROVINSI SULAWESI SELATAN

DINAS KEHUTANAN

Jl. Bajiminas No. 14 Telp (0411) 873181-854638 Fax (0411) 873182 E-mail: dishtutasulselprov.go.id

M A K A S S A R 90126

SURAT REKOMENDASI

Nomor: 800/2018/DISEHT

Yang bertanda tangan di bawah ini:

Nama : Ir. H. ANDI PARENRENGI, MP.
Jabatan : Kepala Dinas
Instansi : Dinas Kehutanan Provinsi Sulawesi Selatan

Mewakili Dinas Kehutanan Provinsi Sulawesi Selatan dengan ini memberikan rekomendasi dan dukungan penuh kepada Yayasan Tim Layanan Kehutanan Masyarakat (TLKM) dan Yayasan Romang Celebes Indonesia (YRC) sebagai *Non-Government Organization (NGO)* yang aktif dalam pemberdayaan masyarakat desa, untuk mengajukan daerah Kabupaten Wajo dan Soppeng, Sulawesi Selatan sebagai lokasi pengusulan program/project Adaptasi Perubahan Iklim dengan tema "Penguatan Ketahanan Iklim Masyarakat Ekosistem Danau Tempe Melalui Tata Kelola Berkelanjutan". Dalam hal ini Yayasan TLKM dan YRC akan mengajukan usulan program/proyek kepada lembaga pemberi dana hibah internasional "Adaptation Fund" melalui Kemitraan (*The Partnership for Governance Reform*).

Demikian Surat Rekomendasi ini untuk digunakan sebagaimana mestinya.

Makassar, 07 Juli 2022

Kepala Dinas Kehutanan
Provinsi Sulawesi Selatan



Ir. H. ANDI PARENRENGI, MP.

Pangkat : Pembina Utama Muda
NIP : 19631231 199703 1 020

Annex 2. Environment and Social Management Plan

This Environmental and Social Management Plan (ESMP) aims to identify and assess potential environmental and social risks that may be detrimental as a result of the project. Therefore, a framework for monitoring impacts and mitigation strategies has been developed to minimize the negative potential that may arise.

Impact and Risk of Activities			Risk Mitigation & Monitoring Plan		Location	Period	Implementing Management and Monitoring
ESP Safeguards	Description of Risk	Risk Category (H/M/L)	Mitigation/ Action Plan	Monitoring			
ESP Principle 3: Marginalized and Vulnerable Groups	Uneven involvement of marginalized and vulnerable groups	L	<p>Assessment of vulnerable groups will be carried out further by assessing age, occupation, income, family responsibilities, adaptability, and others. The data will then be equitably selected for the group's involvement in the project</p> <p>Assistance and involvement of marginalized groups in capacity building</p> <p>Carry out defects to assess how much involvement of marginalized and vulnerable groups as beneficiaries</p> <p>Monitor and evaluate the involvement of marginalized and vulnerable groups in each project activity</p>	<p>Assessment Report</p> <p>ESMP Reports</p>	Sidenreng Rappang, Soppeng and Wajo Districts	April 2023 – September 2023	Implementer: Grantee Monitoring; ESMP Specialist
<u>ESP Principle 15: Soil and Land Conservation</u>	<u>The plant fails to grow when the intended species is incompatible. Plant species selection mistakes can cause soil damage.</u>	<u>L</u>	<p><u>Conduct further assessments related to soil conditions in the intervention area.1</u></p> <p><u>Choosing plants for socialization with local communities based on the principle of Free Prior and Informed Consent (FPIC).</u></p> <p><u>Selection of local and deep rooted plant species</u></p>	<p><u>Assessment Report</u></p> <p><u>ESMP Report</u></p>	<u>Sidenreng Rappang and Soppeng</u>	<u>April 2023 – September 2023</u>	<u>Impelementer: Grante Monitoring; Agroforestry and Soil Specialist</u>

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Annex 3. Gender Assessment

A. Gender Assessment and Methodology

To observe the way in which gender involvement at the project intervention sites, an assessment was conducted with several women representatives using the individual interview approach at the village. ~~This is an effort to ensure that the data obtained can describe gender facts in their entirety. The following are the results of the field research: So that the information acquired can describe the gender setting as a whole and in its entirety. The findings obtained during the field are as follows:~~

Women Groups

The dominant activities of the women in intervention sites were settling in household work and helping their husbands in farming. Some of them are single parents who work as breadwinners and housekeepers. Each of them carries out their various routines individually, and there is no activity carried out jointly by women. For this reason, it is necessary to have a forum that involves women so that they will have activities other than those previously mentioned. This project is designed to empower women by encouraging groups that will involve them fully, from giving them access to participate until they can manage and/or get direct benefits.

Division of Labor within the family

There is no division of labor within the family. The village's customary rule suggests that women do household (domestic work) activities while men usually do work related to family earnings (public work).

The restrictions for women

There are no restrictions on activities specifically for women in the intervention sites.



Economy Sector

Based on the results of the assessment in several villages at the location of the Tempe Lake ecosystem project intervention in the catchment area and around Tempe Lake, data on the dynamics of community livelihoods were obtained, namely:

1. Upstream Catchment Area Community

Most people make a living as farmers, and people who live and or own arable land in forest areas have obtained social forestry permits and have been included as members of the social forestry business group (KUPS) whose members only involve men. Despite the fact that women are members of social forestry groups and social forestry business groups, they do not have control over group activities. This states that women only play a role in carrying out the administrative group's responsibilities. Women also contribute to the labor force in other ways. For example, Meanwhile, the specific role of women in one of the candlenuts business groups is to collect fruit and break candlenuts. Some women work as candlenut crushers to increase household income. Another specific role is to provide meeting consumption (food and beverages) in the Tourism - Social Forestry Business Group (KUPS), which is based in one of the potential intervention villages.

In the agricultural sector, there is a division of roles between men and women, starting from preparing agricultural land to marketing commodity products. Men have the role of preparing the land before planting, planting, caring for the plants, and harvesting, and they dominate the decision-making regarding the types of crops to be planted. Meanwhile, the women's role is to prepare the seeds, helping plants, caring and harvest plants, and post-harvest treatments such as drying the crops. The role of women in the agricultural sector is seen as assistance, while men are the main actors. In the marketing of crops, men dominate market information and price determination. Several women work as entrepreneurs selling agricultural products but in tiny numbers, while most women rely more on marketing matters to men.

In this case, women's groups typically serve only as supplement workers. Women's participation is much lower than men's due to their ambiguous role in terms of economic fulfillment. This is based on societal stereotypes of men's and women's roles and is considered absolute. Such patterns, of course, will have an impact on the female head of the household or the primary breadwinner.

2. Community Around the Water Body (Lake)

The community's livelihood pattern is strongly influenced by the flood disaster, where people work as farmers during the dry season, and during the rainy season, people work as fishermen. The division of roles between men and women is apparent, and men work as fishermen while women sell their catch. In addition, some women work as trawlers (fish fishing gear), weavers, and harvest workers to increase household income. This normative division of labor that occurs between men and women identifies women as additional workers. As a result of the inadequate wage structuralization, women become more vulnerable, and the bargaining power of women's services weakens.

Roles, functions, positions, and responsibilities at the village level

The results of the interviews showed that most of the critical positions at the village level were dominated by men. This fact was obtained during visits to several village offices at the project intervention sites. Head officials at the village and sub-village levels are always male, while women are in charge of administration and finance. During meetings and deliberation involving the village community, the invitation to the meeting is more often addressed to men. Meetings are always dominated by men in terms of decision making, while women only attend. This indicates that women's control over decisions is lacking.

B. Gender Analysis Pathway

Assist planners in planning gender-responsive programs, identify gender gaps in access, participation, control, and benefits obtained by male and female citizens, find out the background to the occurrence of gender gaps, formulate problems as a result of gender gaps and identify steps/ necessary intervention.

The above gender mainstreaming efforts will be pursued by:

- 1) Involve women's groups in all activities supporting income-generating activities and the household economy.
- 2) Involve gender groups equitably in decision making.
- 3) Activities targeting beneficiaries, such as capacity building and training that, involve women.
- 4) Gender mainstreaming will apply the principles of access, participation, control, and benefits approach.





ADAPTATION FUND

Project Formulation Grant (PFG)Submission Date: **August 8, 2022****Adaptation Fund Project ID:**Country/ies: **Indonesia**Title of Project/Programme: **Sustainable Landscape Governance; Towards Climate Resilience of Community in Tempe Lake Ecosystem.**Type of IE (NIE/MIE): **NIE**Implementing Entity: **Kemitraan – The Partnership for Governance Reform**Executing Entity/ies: **TLKM (Tim Layanan Kehutanan Masyarakat – Community Forest Services Team) & Partners****A. Project Preparation Timeframe**

Start date of PFG	1 September 2022
Completion date of PFG	30 November 2022

B. Proposed Project Preparation Activities (\$)

Describe the PFG activities and justifications:


List of Proposed Project Preparation Activities	Output of the PFG Activities	USD Amount
Data collection for baseline and analysis for each component	Collected data required to setup the basis for argument formulation and programme justification in the proposal	\$ 13.793
Travel meetings required for data collection and consultation	Confirmation of assumptions and situation on the ground before programme document finalized	\$ 12.931
Expert hiring for proposal writing	Assist Kemitraan in writing and use of collected baseline data to justify programme and enhance the proposal	\$ 19.655
Focus Group Discussion with Multistakeholders	To receive feedback and input on the Goal, Objective, Outcome and Output of the proposal which to be submitted to AF, so as to ensure it is in line with the national programmes and strategies of climate change adaptation	\$ 3.621
Total Project Formulation Grant		\$ 50.000

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C. Implementing Entity

This request has been prepared in accordance with the Adaptation Fund Board's procedures and meets the Adaptation Fund's criteria for project identification and formulation

Implementing Entity Coordinator, IE Name	Signature	Date (Month, day, year)	Project Contact Person	Telephone	Email Address
Laode M. Syarif, KEMITRAAN		08 August 2022	Dewi Rizki	+6221-22780580	dewi.rizki@kemitraan.or.id