

AFB/PPRC.29/21 6 March 2022

Adaptation Fund Board Project and Programme Review Committee Twenty-ninth Meeting Bonn, Germany, 4-8 April, 2022

Agenda Item 4 n)

PROPOSAL FOR LAO PEOPLE'S DEMOCRATIC REPUBLIC

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 "Enhancing adaptive capacity in Lao PDR provinces, and building resilient housing in vulnerable communities" was submitted for Lao People's Democratic Republic by the United Nations Human Settlements Programme (UN-Habitat), which is a Multilateral Implementing Entity of the Adaptation Fund.
- 10. This is the first submission of the proposal using the two-step submission process.
- 11. The current submission was received by the secretariat in time to be considered in the thirty-eighth Board meeting. The secretariat carried out a technical review of the project proposal, assigned it the diary number AF00000295, 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 UN-Habitat, 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 BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Regular-sized Project Concept

Country/Region: Lao PDR

Project Title: Enhancing adaptive capacity in Lao PDR provinces, and building resilient housing in vulnerable communities

Thematic Focal Area: Urban Development

Implementing Entity: United Nations Human Settlements Programme (UN-Habitat)

Executing Entities: Ministry of Public Works and Transport, Ministry of Natural Resources and Environment, Provincial Departments

of Public Works and Transport and Provincial Departments of Natural Resources and Environment in Bokeo.

Vientiane, Bolikhamxay, Khammouane, Champasak and Attapeu Provinces

AF Project ID: AF00000295

IE Project ID: Requested Financing from Adaptation Fund (US Dollars): 6,811,474

Reviewer and contact person: Hugo Remaury Co-reviewer(s): Patricia Marcos Huidobro

IE Contact Person: Bernhard Barth

Technical Summary

The project "Enhancing adaptive capacity in Lao PDR provinces, and building resilient housing in vulnerable communities" aims to enhance climate resilience of vulnerable communities across six provinces through the improvement of provincial adaptation capacity and increasing resilience of shelters and houses. This will be done through the three components below:

<u>Component 1</u>: Increasing adaptive capacity of communities and provincial institutions to develop and sustain community infrastructure and housing (USD 915,060);

<u>Component 2:</u> Empowering with adaptive measures through construction of community infrastructure and retrofitting of houses (USD 4,466,400);

<u>Component 3</u>: Strengthening community awareness and mainstreaming adaptation into policy through advocacy and knowledge management (USD 300,000).

Requested financing overview:

Project/Programme Execution Cost: USD 596,396 Total Project/Programme Cost: USD 6,277,856

	Implementing Fee: USD 533,618 Financing Requested: USD 6,811,474
	The initial technical review raised some issues, such as the sustainability of the benefits generated by the project and the identification of risks related to the Adaptation Fund Environmental and Social Policy (ESP), and Gender Policy, as discussed in the number of Clarification Requests (CRs) and Corrective Action Requests (CARs) raised in the review.
	The final technical review finds that the proposal has not addressed some of the CR and CAR requests. Namely, the fairness and impartiality of the project of distributing project benefits, the compliance with the ESP, the lack of overall and/or complementarity with relevant initiatives and evidence that interests and concerns of minority groups were considered, remain to be demonstrated.
Date:	February 20 th , 2022

Review Criteria	Questions	Comments Initial Technical Review	Comments Final Technical Review
Country Eligibility	Is the country party to the Kyoto Protocol?	Yes.	-
	Is the country a developing country particularly vulnerable to the adverse effects of climate change?	Yes. Lao PDR has been experiencing increasingly frequent and devastating natural disasters exacerbated by climate change including droughts, tropical storms, landslides, and flash floods.	-
Project Eligibility	Has the designated government authority for the Adaptation Fund endorsed the project/programme?	Yes. As per the Endorsement letter dated 3 rd January 2022.	-
	2. Does the length of the proposal amount to no more than Fifty pages for the project/programme concept, including its annexes?	Yes.	No. The proposal and its annexes inserted as hyperlinks are currently 85 pages long (50+35 pages of

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?

Not clear.

The project would support the enhancement of vulnerable communities' adaptive capacity through the provision and retrofitting of socially inclusive and resilient shelters and housing, recognizing that they play a major role in enhancing local communities' resilience to climate change, enhancing their capacity to cope with climate change effects, and safeguarding rights to housing under a changing climate. The proposal would benefit from providing a few clarifications regarding the proposed activities.

CR 1: Please briefly describe how the project will ensure that infrastructures proposed under Component 2 (i.e., demonstration resilient houses, retrofitted houses, community evaluation centers, coordination centers and meteorological and hydrological stations) will be made resilient to the climate threats described in the background section.

CR 2: For the fully developed proposal, the context and approach of meteorological and hydrological-related activities should be clarified and reframed following a climate

annexes). Please amend accordingly.

CR 1: Cleared, as per information provided on p.21.

The information provided expands on *Building Back Better* principles in the context of the proposed project.

CR 2: Not cleared.

No changes were made to the proposal framing the meteorological and hydrological-related activities according to a climate services value chain approach.

CR 3: Cleared, as per information provided on p.22.

At fully-developed proposal stage and as part of the outputs/activities' description, the project proposal is expected to expand on mitigation actions that the project will take to cope with the non-climatic barriers identified.

CR 4: Cleared, as per information provided on p.24-25.

Rehabilitating (now output 2.1.2) refers to significant changes in structural systems, whereas retrofitting refers to lesser adjustments not aimed at reinforcing supporting structures (now output 2.1.3).

services value chain approach, which key elements are i) data collection/analysis; ii) modelling for prediction; iii) model interpretation and forecast production; iv) dissemination of products and services for users; and v) understanding and use of forecasts. While elaborating upon such approach, please ensure to a) briefly outline capacity and investment needs at each point of the value chain to demonstrate the cohesion among these activities; b) clarify whether an Early Warning System is already in place in target provinces/towns and how the proposed project will complement such existing system.

CR 3: The background section describes a few non-climatic threats that seem important to take into consideration to achieve the project objectives (e.g., low willingness from local authorities to follow urban plans, weak land tenure with many vulnerable households not owing property deeds, unsustainable use of forests whose local timber may be used as traditional construction materials). Please briefly describe how such non-climatic threats have been considered in the project design and how will they be managed.

CR 5: Cleared, as per information provided in a dedicated paragraph on p.31.

CAR 1: Cleared.

CR 4: As currently worded, the proposal does not allow distinguishing between activities proposed under outputs 2.1.2 ("retrofitting houses") and 2.1.3 ("strengthening houses"). Please elaborate on how these activities differ from each other. **CR 5**: Please add a brief paragraph describing how the project will consider covid-19 related risks and potential opportunities. **CAR 1**: The reference to "Annex 5 to OPG Amended in October 2017" (see header) may be removed throughout the entire proposal, as needed. Not clear. CR 6: Cleared, as per information provided in table 8 (p.29). The description of the expected CR 7: Not cleared. environmental benefits. project beneficiaries is too generic. The proposal describes a process of particularly to vulnerable Efforts should be made to tailor it to distributing project benefits that is not the project areas as they are already aligned with the principle of equitable gender considerations, while identified. Contradictory elements are access to benefits (fairness and provided with respect to the impartiality) set forth in Principle 2 of distribution of benefits. This section the ESP. It should be revised does not describe the particular accordingly to ensure full compliance **Environmental and Social** benefits that the project would provide with the ESP. Policy and Gender Policy of to minority groups and to indigenous CR 8: Cleared, as per information communities, if any. A short provided on p.28. paragraph describes how gender The information outlines the specific considerations are reflected into the benefits provided to the minority project design. ethnic groups.

4. Does the project /

programme provide

economic, social and

communities, including

avoiding or mitigating

negative impacts, in

compliance with the

the Fund?

CR 6: Please provide a brief socioeconomic description of the beneficiaries in target provinces/towns to complement the nation-wide elements provided in the background section.

CR 9: Cleared, as per information provided on p.28.

CR 7: The proposal includes contradictory information acknowledging on one hand that "the project focuses on the poorest and most vulnerable people in the target towns" (p.30) but that "the selection of beneficiaries will be done by local authorities prior to the project starting" (p.27) and implying that only individuals owning property deeds would be eligible to receive project benefits (p.27). As a result, please briefly describe the process (and any associated criteria) that will be used to select beneficiaries for those activities targeting individuals/households (i.e., outputs 2.1.2 and 2.1.3) and demonstrate how the project will ensure an equitable distribution of benefits amongst vulnerable households/individuals.

CR 8: Given that the presence of minority ethnic groups in target areas is acknowledged, please outline the specific benefits provided by the project to such groups.

		CR 9: The proposal should confirm whether indigenous people are located in the target towns/areas. Should the presence of indigenous people be confirmed, please outline the specific benefits provided by the project to such groups.	
5.	. Is the project / programme cost effective?	Yes. The section provides a well-structured rationale demonstrating the likely project's cost-effectiveness. CR 10: Please clarify what is exactly meant by "land tenure will be guaranteed by the local authorities".	CR 10: Not cleared. The proposal remains evasive on the project approach to cope with the country weak land tenure system. It should elaborate on the "local systems of land tenure, which ensure security of housing" and explain how the project will ensure that vulnerable households deprived of land titles will not be excluded from receiving project benefits on the basis of not owning such titles.
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?	Not clear. The proposal demonstrates alignment with relevant national-level development plans and strategies. Very little information is provided with respect to alignment with provincial plans/strategies, if any. CR 11: Please identify any substantial provincial-level plans and strategies the project would align with, if any.	CR 11: Cleared, as per information provided on p.32 and 33.
7.	Does the project / programme meet the relevant national technical standards, where applicable, in compliance with the	Not clear. The proposal lists relevant national technical standards that would apply to each output, along with reference	CR 12: Not cleared. Compliance with some standards lacks substantiation. The proposal should describe in a logical manner

Environmental and Social Policy of the Fund?	to the applicable standards/regulations. However, it does not explain how compliance with some standards will be ensured. CR 12: Compliance is not stated for some of the identified regulations/standards (e.g., with Lao PDR IEE and ESIA and other EIA-related regulations). Please identify all applicable national technical standards and state compliance with each in a logical manner.	how the project will ensure compliance with each standard identified.
8. Is there duplication of project / programme with other funding sources?	Not clear. A list of projects with similar components is presented. Nevertheless, the proposal does not clearly state the extent to which the project will not overlap or how it will complement each project listed. CR 13: For each relevant initiative identified, please expand in a logical manner on lack of overlap and/or complementarity with the proposed project.	CR 13: Not cleared. Lack of overlap and/or complementarity with initiatives listed should be strengthened, as the project may overlap with some initiatives, either in terms of target areas and/or investments made.
9. Does the project / programme have a learning and knowledge management component to capture and feedback lessons?	Yes. Learning and knowledge management activities are included in Component 3.	-
10. Has a consultative process taken place, and has it involved all key stakeholders, and vulnerable	Yes. An initial consultative process took place in all targeted provinces/towns,	CR 14: Cleared, as per information provided on p.41. CR 15: Not cleared.

groups, including gender considerations in compliance with the Environmental and Social Policy and Gender Policy of the Fund?	in close collaboration with the Executing Entities. The proposal provides key outcomes of such consultations. Nevertheless, the proposal does not include any specific reference to consultation with indigenous people and minority groups, which may be present in the target areas. It should also briefly elaborate on how gender considerations were considered during such consultations. CR 14: Please briefly describe how gender considerations were taken into consideration during the initial	The proposal should demonstrate how interests and concerns of minority groups (as acknowledged in table 8) were considered when designing the proposed investments.
	consultative process. CR 15: In case indigenous people have been identified in the target areas, please briefly describe the extent to which they were consulted, and their interests or concerns taken into account when designing the proposal.	
11. Is the requested financing justified on the basis of full cost of adaptation reasoning?	Yes. The proposal outlines baselines and alternative scenarios for some key activities.	-
12. Is the project / program aligned with AF's results framework?	Yes. The proposal states its alignment with outcomes 1, 2, 3, 4, 7, and 8 of the AF's results framework in Part I (p.18-19).	-

13. Has the sustainability of the project/programme outcomes been taken into account when designing the project?	Not clear. Despite providing a multi-dimensional description of sustainability (technical, financial, institutional, social, economic, environmental), this section provides too few elements suggesting that the infrastructures proposed under Component 2 will be sustained at project end. CR 16: Please revise this section to describe in a specific way the arrangements through which each infrastructure proposed in Component 2 will be sustained once the project ends. Operations and maintenance costs as well as related governance and institutional arrangements are critical matters to consider in such description.	CR 16: Not cleared. The proposal should describe how operations and maintenance costs of the proposed evacuations centers and meteorological and hydrological stations will be sustained after the project ends.
14. Does the project / programme provide an overview of environmental and social impacts / risks identified, in compliance with the Environmental and Social Policy and Gender Policy of the Fund?	Not clear. The project provides a preliminary risk assessment, but most findings are not sufficiently substantiated at this stage. The project is categorized as Category B. An Environmental and Social Management Plan will be prepared at fully-developed proposal stage. No initial gender assessment is provided. CR 17: Principle 1 "Compliance with the law" always applies (see Guidance document for IEs on	CR 17: Cleared, as per information provided in tables 14 and 15 (p.47-49). CR 18: Not cleared. The process of allocating access to project benefits lacks fairness and impartiality. This process and related criteria should be revised to ensure compliance with Principle 2 of the ESP. CR 19: Not cleared. The implicitly acknowledged risk of adverse impacts on marginalized

compliance with the ESP for more information). On top of the risk acknowledged in Table 11, there is indeed always a risk of projects not complying with all applicable domestic as well as international laws. As a result, please revise tables 10 and 11 to acknowledge potential risks and impacts and needs for further assessment for this Principle and refer to relevant laws the project will be complying with.

CR 18: Building upon the clarifications provided vis-à-vis the allocation process of benefits and selection of beneficiaries (see CR 7), please expand on the proposed mitigation measure for Principle 2 by demonstrating the fairness and impartiality of the process through which the project will allocate benefits and the absence of discrimination or favouritism in accessing such benefits.

CR 19: The proposal should briefly describe the characteristics of the marginalized and/or vulnerable groups identified (Principle 3), identify the adverse impacts that each marginalized and vulnerable group identified are likely to experience from the project (if any), and describe how the impacts will be mitigated or

and vulnerable, notably minority ethnic groups, should lead the proposal to elaborate on the "robust mechanisms" through which the project will mitigate and prevent such adverse impacts. This seems particularly important as the process of selecting beneficiaries has yet to demonstrate its fairness and impartiality.

CR 20: Cleared. As per information provided in table 15 (p.48).

CR 21: Not cleared.

The mitigation strategies listed are ambiguous and only relate to management services provided by UN-Habitat. The proposal should summarize how UN-Habitat will ensure that the proposed Executing Entities will implement the ILO core labor standards.

CR 22: Not cleared.

Additional information was provided in tables 14 and 15 (p.47-49). However, compliance with Principle 9 should be revised in lights of land tenure consideration and sites already identified. The proposal should identify the presence in or near the project area of natural habitats, and the potential for the project to impact directly, indirectly, or cumulatively natural habitats.

prevented so as not to be disproportionate.

CR 20: For Principle 4, please confirm that compliance with the Universal Declaration of Human Rights (UDHR) will be monitored.

CR 21: For Principle 6, please summarize how the IE will ensure that the EEs will implement the ILO core labor standards.

CR 22: Principles 3 and 7; 9 and 10; 9 and 15 are different. Please refer to Guidance document for IEs on compliance with the ESP on how to demonstrate compliance with principles 7, 10 and 15 and revise section K accordingly.

CR 23: Some of the proposed activities may trigger Principle 8 due to their very nature, notably those planned under Component 2. The AF ESP being risk-based, please confirm whether there is any risk of involuntary resettlements as per the definition included in the Guidance document for IEs on compliance with the ESP.

CR 24: For Principle 9, please briefly identify the presence in or near the project area of natural habitats, and the potential of the project to impact

Information pertaining to waste management plans should be shifted under Principle 12.

CR 23: Not cleared.

The proposal should clarify whether lands which were set apart for construction or will be selected are currently inhabited and/or used by individuals or communities. The proposal should revise its compliance with this Principle 8, as needed.

CR 24: Not cleared.

The proposal should revise its compliance with Principle 9, as outlined in **CR 22**.

CR 25: Cleared. As per information provided in table 15 (p.49).

CR 26: Cleared. As per information provided in table 15 (p.49). Further analysis of public health will be required at <u>fully developed proposal</u> stage and will be included into the Environmental and Social Impact Assessment (ESIA) and the Environmental and Social Management Policy (ESMP).

CR 27: Cleared. As per information provided in table 15 (p.49).

Resource	1. Is the requested project /	directly, indirectly, or cumulatively upon natural habitats and revise compliance with this principle as needed. CR 25: As per the Guidance document for IEs on compliance with the ESP, the project will require a greenhouse gas emissions calculation using internationally recognized methodologies since it relates to building materials (Principle 11), please describe accordingly. CR 26: Please confirm whether a health impact screening (process of rapidly and systematically identifying the project's potential impacts on public health) was undertaken or whether one is planned during implementation and revise this section as needed (Principle 13). CR 27: Please confirm whether any cultural heritage in or near the project target areas were identified and revise compliance with Principle 14 as needed. CAR 2: Please provide an initial gender assessment (see Guidance document for IEs on compliance with the GP for more information).	CAR 2: Not cleared. An initial gender assessment was provided. However, it should be significantly strengthened as per the Guidance document for IEs on compliance with the GP, notably by differentiating climate change impacts on men and women and their differentiated capabilities to adapt to these.
Availability	programme funding within the cap of the country?	100.	

	2.	Is the Implementing Entity Management Fee at or below 8.5 per cent of the total project/programme budget before the fee?	Yes. The Implementing Entity Management Fee is at 8.5% of the total budget before fee.	-
	3.	Are the Project/Programme Execution Costs at or below 9.5 per cent of the total project/programme budget (including the fee)?	Yes. The Project Execution Cost is at 9.5%.	-
Eligibility of IE	1.	Is the project/programme submitted through an eligible Implementing Entity that has been accredited by the Board?	Yes. UN-Habitat is an accredited Multilateral Implementing Entity to the Fund.	-
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 with the Environmental and Social Policy and Gender Policy of the Fund?	n/a at concept stage	
	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 BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Regular-sized Project Concept

Country/Region: Lao PDR

Project Title: Enhancing adaptive capacity in Lao PDR provinces, and building resilient housing in vulnerable communities

Thematic Focal Area: Urban Development

Implementing Entity: United Nations Human Settlements Programme (UN-Habitat)

Executing Entities: Ministry of Public Works and Transport, Ministry of Natural Resources and Environment, Provincial Departments

of Public Works and Transport and Provincial Departments of Natural Resources and Environment in Bokeo.

Vientiane, Bolikhamxay, Khammouane, Champasak and Attapeu Provinces

AF Project ID:

IE Project ID: Requested Financing from Adaptation Fund (US Dollars): 6,811,474

Reviewer and contact person: Hugo Remaury Co-reviewer(s): Patricia Marcos Huidobro

IE Contact Person: Bernhard Barth

Technical Summary

The project "Enhancing adaptive capacity in Lao PDR provinces, and building resilient housing in vulnerable communities" aims to enhance climate resilience of vulnerable communities across six provinces through the improvement of provincial adaptation capacity and increasing resilience of shelters and houses. This will be done through the three components below:

<u>Component 1</u>: Increasing adaptive capacity of communities and provincial institutions to develop and sustain community infrastructure and housing (USD 915,060);

<u>Component 2:</u> Empowering with adaptive measures through construction of community infrastructure and retrofitting of houses (USD 4,466,400);

<u>Component 3</u>: Strengthening community awareness and mainstreaming adaptation into policy through advocacy and knowledge management (USD 300,000).

Requested financing overview:

Project/Programme Execution Cost: USD 596,396 Total Project/Programme Cost: USD 6,277,856

	Implementing Fee: USD 533,618 Financing Requested: USD 6,811,474
	The initial technical review raises some issues, such as the sustainability of the benefits generated by the project and the identification of risks related to the AF Environmental and Social Policy and Gender Policy, as discussed in the number of Clarification Requests (CRs) and Corrective Action Requests (CARs) raised in the review.
Date:	January 23, 2022

Review Criteria	Questions	Comments and Responses
Country Eligibility	Is the country party to the Kyoto Protocol?	Yes.
	Is the country a developing country particularly vulnerable to the adverse effects of climate	Yes.
	change?	Lao PDR has been experiencing increasingly frequent and devastating natural disasters exacerbated by
		climate change including droughts, tropical storms, landslides, and flash floods.
Project Eligibility	Has the designated government authority for the Adaptation Fund endorsed the	Yes.
	project/programme?	As per the Endorsement letter dated 3 rd January 2022.
	2. Does the length of the proposal amount to no more than Fifty pages for the project/programme concept, including its annexes?	Yes.
	Does the project / programme support concrete adaptation actions to assist the country in addressing adaptive capacity to the adverse	Not clear.
	effects of climate change and build in climate resilience?	The project would support the enhancement of vulnerable communities' adaptive capacity through the provision and retrofitting of socially inclusive and resilient shelters and housing, recognizing that they play a major role in enhancing local communities' resilience to climate change, enhancing their capacity to cope with climate change effects, and safeguarding rights to housing under a changing climate. The proposal would benefit from providing a few clarifications regarding the proposed activities.

CR 1: Please briefly describe how the project will ensure that infrastructures proposed under Component 2 (i.e., demonstration resilient houses, retrofitted houses, community evaluation centers, coordination centers and meteorological and hydrological stations) will be made resilient to the climate threats described in the background section.

Response:

Clarification has been provided on p.21.

CR 2: For the fully developed proposal, the context and approach of meteorological and hydrological-related activities should be clarified and reframed following a climate services value chain approach, which key elements are i) data collection/analysis; ii) modelling for prediction; iii) model interpretation and forecast production; iv) dissemination of products and services for users; and v) understanding and use of forecasts. While elaborating upon such approach, please ensure to a) briefly outline capacity and investment needs at each point of the value chain to demonstrate the cohesion among these activities; b) clarify whether an Early Warning System is already in place in target provinces/towns and how the proposed project will complement such existing system.

Response:

Engagement with key stakeholders is underway to ensure that pertinent data is collected and analyzed within the context of best climate science which will ensure that products and services for communities deliver the best possible adaptation outcomes. The

full proposal will provide further details and frame these within the climate services value chain approach

CR 3: The background section describes a few nonclimatic threats that seem important to take into consideration to achieve the project objectives (e.g., low willingness from local authorities to follow urban plans, weak land tenure with many vulnerable households not owing property deeds, unsustainable use of forests whose local timber may be used as traditional construction materials). Please briefly describe how such non-climatic threats have been considered in the project design and how will they be managed.

Response:

Additional explanation of the consideration of nonclimatic threats is explained on p. 22

CR 4: As currently worded, the proposal does not allow distinguishing between activities proposed under outputs 2.1.2 ("retrofitting houses") and 2.1.3 ("strengthening houses"). Please elaborate on how these activities differ from each other.

Response:

Clarification has been provided on pp. 24-25

CR 5: Please add a brief paragraph describing how the project will consider covid-19 related risks and potential opportunities.

		Response:
		A paragraph has been added on p. 31
		CAR 1: The reference to "Annex 5 to OPG Amended in October 2017" (see header) may be removed throughout the entire proposal, as needed.
		Response:
		The header has been removed.
4.	Does the project / programme provide economic, social and environmental benefits, particularly to	Not clear.
	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?	The description of the expected project beneficiaries is too generic. Efforts should be made to tailor it to the project areas as they are already identified. Contradictory elements are provided with respect to the distribution of benefits. This section does not describe the particular benefits that the project would provide to minority groups and to indigenous communities, if any. A short paragraph describes how gender considerations are reflected into the project design.
		CR 6: Please provide a brief socio-economic description of the beneficiaries in target provinces/towns to complement the nation-wide elements provided in the background section.
		Response:

A table has been added on p. 29 showing socioeconomic data which was collected in initial consultations in the target towns. **CR 7**: The proposal includes contradictory information acknowledging on one hand that "the project focuses on the poorest and most vulnerable people in the target towns" (p.30) but that "the selection of beneficiaries will be done by local authorities prior to the project starting" (p.27) and implying that only individuals owning property deeds would be eligible to receive project benefits (p.27). As a result, please briefly describe the process (and any associated criteria) that will be used to select beneficiaries for those activities targeting individuals/households (i.e., outputs 2.1.2 and 2.1.3) and demonstrate how the project will ensure an equitable distribution of benefits amongst vulnerable households/individuals. Response: Page 25 of the Concept Proposal was edited to clarify the process and resolve any seeming contradiction. CR 8: Given that the presence of minority ethnic groups in target areas is acknowledged, please outline the specific benefits provided by the project to such groups.

	Response: Additions have been made to the concept note on p. 28.
	CR 9: The proposal should confirm whether indigenous people are located in the target towns/areas. Should the presence of indigenous people be confirmed, please outline the specific benefits provided by the project to such groups.
	Response: The concept note has been edited on p. 5 and p. 28 and clarification provided why the term indigenous people should not figure in the Lao context.
5. Is the project / programme cost effective?	Yes.
	The section provides a well-structured rationale demonstrating the likely project's cost-effectiveness.
	CR 10: Please clarify what is exactly meant by "land tenure will be guaranteed by the local authorities".
	Response:
	The concept note has been edited on p. 25.
6. Is the project / programme consistent with national or sub-national sustainable development	Not clear.
strategies, national or sub-national development plans, poverty reduction strategies, national communications and adaptation programs of action and other relevant instruments?	The proposal demonstrates alignment with relevant national-level development plans and strategies. Very little information is provided with respect to alignment with provincial plans/strategies, if any.

	CR 11: Please identify any substantial provincial-level plans and strategies the project would align with, if any. Response: The alignment has been further demonstrated on pp. 32-33 of the amended concept proposal and will be further elaborated on in the full proposal.
7. Does the project / programme meet the relevant national technical standards, where applicable, in compliance with the Environmental and Social Policy of the Fund?	Not clear. The proposal lists relevant national technical standards that would apply to each output, along with reference to the applicable standards/regulations. However, it does not explain how compliance with some standards will be ensured. CR 12: Compliance is not stated for some of the identified regulations/standards (e.g., with Lao PDR IEE and ESIA and other EIA-related regulations). Please identify all applicable national technical standards and state compliance with each in a logical manner. Response: Compliance has been inserted into the table on Relevant rules, regulations, standards and procedures on p. 35 of the concept note.
8. Is there duplication of project / programme with other funding sources?	Not clear. A list of projects with similar components is presented. Nevertheless, the proposal does not clearly state the extent to which the project will not overlap or how it will complement each project listed.

	CR 13: For each relevant initiative identified, please expand in a logical manner on lack of overlap and/or complementarity with the proposed project.
	Response: The table on p.37 has been expanded to include lack of overlap and/or complementarity
Does the project / programme have a learning and knowledge management component to capture and feedback lessons?	Yes. Learning and knowledge management activities are included in Component 3.
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?	An initial consultative process took place in all targeted provinces/towns, in close collaboration with the Executing Entities. The proposal provides key outcomes of such consultations. Nevertheless, the proposal does not include any specific reference to consultation with indigenous people and minority groups, which may be present in the target areas. It should also briefly elaborate on how gender considerations were considered during such consultations. CR 14: Please briefly describe how gender considerations were taken into consideration during the initial consultative process.
	Response:

	Additional clarifications are provided in the concept note on p. 41
	CR 15: In case indigenous people have been identified in the target areas, please briefly describe the extent to which they were consulted, and their interests or concerns taken into account when designing the proposal.
	Response:
	Additional clarification is provided in the concept note on p. 41.
11. Is the requested financing justified on the basis of full cost of adaptation reasoning?	Yes.
g	The proposal outlines baselines and alternative scenarios for some key activities.
12. Is the project / program aligned with AF's results framework?	Yes.
	The proposal states its alignment with outcomes 1, 2, 3, 4, 7, and 8 of the AF's results framework in Part I (p.18-19).
13. Has the sustainability of the project/programme outcomes been taken into account when designing	Not clear.
the project?	Despite providing a multi-dimensional description of sustainability (technical, financial, institutional, social, economic, environmental), this section provides too few elements suggesting that the infrastructures

14. Does the project / programme provide an overview of environmental and social impacts / risks identified, in compliance with the Environmental and Social Policy and Gender Policy of the Fund?	proposed under Component 2 will be sustained at project end. CR 16: Please revise this section to describe in a specific way the arrangements through which each infrastructure proposed in Component 2 will be sustained once the project ends. Operations and maintenance costs as well as related governance and institutional arrangements are critical matters to consider in such description. Response: A paragraph on infrastructure sustainability has been inserted on pp.44-45 of the concept note. Not clear. The project provides a preliminary risk assessment, but most findings are not sufficiently substantiated at this stage. The project is categorized as Category B. An Environmental and Social Management Plan will be prepared at fully-developed proposal stage. No initial gender assessment is provided. CR 17: Principle 1 "Compliance with the law" always applies (see Guidance document for IEs on compliance with the ESP for more information). On top of the risk acknowledged in Table 11, there is indeed always a risk of projects not complying with all applicable domestic as well as international laws. As a result, please revise tables 10 and 11 to acknowledge potential risks and impacts and people for further.
	of the risk acknowledged in Table 11, there is indeed always a risk of projects not complying with all applicable domestic as well as international laws. As a
	Response:

Tables 10 and 11 have been edited. Please note that all tables are now numbered resulting in Table 10 being renumbered as Table 14, and Table 11 being renumbered as Table 15.

CR 18: Building upon the clarifications provided vis-àvis the allocation process of benefits and selection of beneficiaries (see CR 7), please expand on the proposed mitigation measure for Principle 2 by demonstrating the fairness and impartiality of the process through which the project will allocate benefits and the absence of discrimination or favouritism in accessing such benefits.

Response:

Table 11 (now Table 15) has been expanded for clarification

CR 19: The proposal should briefly describe the characteristics of the marginalized and/or vulnerable groups identified (Principle 3), identify the adverse impacts that each marginalized and vulnerable group identified are likely to experience from the project (if any), and describe how the impacts will be mitigated or prevented so as not to be disproportionate.

Response:

Table 11 (now Table 15) has been expanded for clarification

CR 20: For Principle 4, please confirm that compliance with the Universal Declaration of Human Rights (UDHR) will be monitored.

Response:

Table 11 (now Table 15) has been expanded for clarification

CR 21: For Principle 6, please summarize how the IE will ensure that the EEs will implement the ILO core labor standards.

Response:

Table 11 (now Table 15) has been expanded for clarification

CR 22: Principles 3 and 7; 9 and 10; 9 and 15 are different. Please refer to <u>Guidance document for IEs on compliance with the ESP</u> on how to demonstrate compliance with principles 7, 10 and 15 and revise section K accordingly.

Response:

Section K has been revised.

CR 23: Some of the proposed activities may trigger Principle 8 due to their very nature, notably those planned under Component 2. The AF ESP being risk-based, please confirm whether there is any risk of involuntary resettlements as per the definition included in the <u>Guidance document for IEs on compliance with</u> the ESP.

Response:

This has been clarified in Table 11 (now Table 15).

CR 24: For Principle 9, please briefly identify the presence in or near the project area of natural habitats, and the potential of the project to impact directly, indirectly, or cumulatively upon natural

habitats and revise compliance with this principle as needed.

Response:

Table 11 (now Table 15) has been expanded for clarification

CR 25: As per the Guidance document for IEs on compliance with the ESP, the project will require a greenhouse gas emissions calculation using internationally recognized methodologies since it relates to building materials (Principle 11), please describe accordingly.

Response:

Table 11 (now Table 15) has been expanded for clarification

CR 26: Please confirm whether a health impact screening (process of rapidly and systematically identifying the project's potential impacts on public health) was undertaken or whether one is planned during implementation and revise this section as needed (Principle 13).

Response:

Table 11 (now Table 15) has been expanded for clarification

CR 27: Please confirm whether any cultural heritage in or near the project target areas were identified and revise compliance with Principle 14 as needed.

Response:

Table 11 (now Table 15) has been expanded for clarification

		CAR 2: Please provide an initial gender assessment (see Guidance document for IEs on compliance with the GP for more information). Response: To comply with the AF policy on gender, a gender sub-section has been added analysing current gender issues in adaptation planning and DRR, and their
		integration throughout the project. The gender assessment is partly based on our comprehensive consultations with women of all ethnicities in the target areas. Fuller localised details will be provided at the full proposal stage.
Resource Availability	 Is the requested project / programme funding within the cap of the country? 	Yes.
	Is the Implementing Entity Management Fee at or below 8.5 per cent of the total project/programme budget before the fee?	Yes. The Implementing Entity Management Fee is at 8.5% of the total budget before fee.
	3. Are the Project/Programme Execution Costs at or below 9.5 per cent of the total project/programme budget (including the fee)?	Yes. The Project Execution Cost is at 9.5%.
Eligibility of IE	Is the project/programme submitted through an eligible Implementing Entity that has been accredited by the Board?	Yes. UN-Habitat is an accredited Multilateral Implementing Entity to the Fund.
Implementation Arrangements	Is there adequate arrangement for project / programme management, in compliance with the Gender Policy of the Fund?	n/a at concept stage
	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 with	n/a at concept stage

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



PROJECT/PROGRAMME PROPOSAL TO THE ADAPTATION FUND

PART I: PROJECT/PROGRAMME INFORMATION







Typical houses of poor people in Laos, Source: UN-Habitat

Project/Programme Category: Regular

Country: Lao PDR

Title of Project: Enhancing adaptive capacity in Lao PDR provinces, and

building resilient housing in vulnerable communities

Type of Implementing Entity:

Multilateral Implementing Entity

Implementing Entity: United Nations Human Settlements Programme (UN-

Habitat)

Executing Entities: Ministry of Public Works and Transport, Ministry of Natural

Resources and Environment, Provincial Departments of Public Works and Transport and Provincial Departments of Natural Resources and Environment in Bokeo, Vientiane, Bolikhamxay, Khammouane, Champasak and Attapeu

Provinces

Amount of Financing Requested: US\$6,811,474

Project / Programme Background and Context:

The Problem

Climate change is having increasing adverse impacts on vulnerable communities and is hindering the achievement of development objectives.

Lao PDR is experiencing climate change impacts both in the form of an increasing occurrence of extreme weather events, and also in changes in seasonal weather patterns. The most severe impacts are resulting from floods, landslides, tropical storms, cyclones and droughts. Impacts are borne in social, economic and environmental fields and include loss of life, population displacement, shelter destruction and severe economic loss. It is estimated that 2.8% to 3.6% of Lao PDR's annual GDP is lost due to

floods alone.¹ Although extreme weather events are occurring with increasing frequency, particular years stand out in terms of the amount of damage sustained. A comparison of selected impacts of disasters from 2008 - 2020 is shown in Table 1. It shows that especially severe losses were experienced from devastating floods in 2018 and 2019.

Table 1: Losses from disasters 2008-2020

Disaster Type	Year	People Affected	Deaths	Cost of damages (USD)
Flood	2008	243,342 ²	3 ²	17,157,2242
Typhoon Ketsana	2009	271,943 ²	28 ²	58,000,0002
Tropical Storms Haima and Nokten	2011	429,954 ²	42 ²	220,568,3822
Flood	2013	353,966 ²	25 ²	280,375,000 ²
Flood	2014	15,308 ²	12	
Flood	2015	37,815 ²	O ²	7,434,6042
Drought	2016	NA	0^{2}	126,200 ²
Floods after Tropical Storms Son- Tinh and Bebinca	2018	616,145 ³	56 (as of Oct 2018) ³	147,000,000 + losses of 224,500,000 ³
Floods	2019	1,000,000+4	19 ⁴	
Drought	2019 - 2020	67,800 ⁴		
Floods	2020	69,7644	2 ⁵	

The low level of adaptive capacity in Lao PDR makes its population particularly vulnerable to the climate related events to which it is exposed. The 2021 INFORM Risk country profile for Lao PDR gave it a rating of 6/10 for lack of coping capacity. This shows that it has significantly less coping capacity than that of other countries in the region. The mandate for climate change adaptation is held by the Ministry of Natural Resources and Environment (MoNRE) which was only established in 2011, and which is still establishing itself at the subnational level in terms of infrastructure, systems and human capacity. In some provinces there is little understanding of climate change and minimal cross-sectoral coordination. The lack of a strong focal point and technical support at the provincial and district levels hinders relevant sectors in progressing the integration of climate change adaptation into their plans and activities. This is evident in the case of the housing and urban planning sector. At the same time, the country is experiencing rapid development, with high rates of urbanisation and a critical lack of basic services provision, which increases exposure, vulnerabilities and inequalities while contributing to environmental degradation. In terms of urban development and human settlements, the country is largely focused on the development of infrastructure projects aimed at economic growth, while other sectors such as public spaces, basic service provision and housing remain underfunded and overlooked.

Adaptation is a pressing priority in Lao PDR, and the provision of socially inclusive and resilient housing can play a critical role in enhancing local resilience, advancing capacities to cope with climate change

¹ World Bank, 'Recovery and Resilience in Lao PDR', The World Bank, 2019, https://www.worldbank.org/en/news/feature/2019/04/09/recovery-and-resilience-in-lao-pdr.

² Laos Statistics Bureau, 'Laos Country Report',

https://www.unescap.org/sites/default/files/Country%20Report_drought%20monitoring%20and%20early%20warning_Lao%2 0PDR.pdf.

³ Government of Lao PDR, 'Post-Disaster Needs Assessment, 2018 Floods, Lao PDR', 2018, https://laopdr.un.org/sites/default/files/2019-08/2018%20PDNA_English.pdf.

⁴ CFE-DM, 'Lao PDR Disaster Management Reference Handbook', 2021,

https://reliefweb.int/sites/reliefweb.int/files/resources/disaster-mgmt-ref-hdbk-lao-pdr2021.pdf.

⁵ AHA Centre, 'Tropical Storms "Linfa" & "Nangka" Cambodia, Lao PDR, Viet Nam: Flash Update #4', 2020, https://reliefweb.int/sites/reliefweb.int/files/resources/FlashUpdate_04_21Oct2020-TS-NANGKA-LINFA-MEKONG.pdf.

⁶ INFORM, 'Lao PDR: INFORM Risk Country Risk Profile', 2021, https://drmkc.jrc.ec.europa.eu/inform-index/Portals/0/InfoRM/CountryProfiles/LAO.pdf.

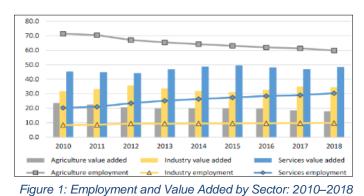
effects, and safeguarding rights to housing in times of climate change. There has, to date, been no adaptation intervention in Lao PDR with a focus on housing, and the Government is of the view that the housing sector is in need of urgent attention. UN-Habitat's knowledge of the sector is informed by experience in shelter cluster recovery and reconstruction which dates back to 2008 in Lao PDR. Most recently, UN-Habitat successfully implemented a shelter recovery project in southern Lao PDR following extreme flooding. As the co-lead of the Inter-Agency Standing Committee (IASC) shelter cluster, and the lead of the UN Sustainable Development Cooperation Framework (UNSDCF) shelter output, UN-Habitat is keenly aware of the vulnerability in housing and urban planning.

Economic Context

At a macroeconomic level, the trajectory of Lao PDR's economy has been significantly affected by the Covid-19 pandemic. Following a growth of 7% in 2016, the rate of growth in real GDP gradually dropped over the following years to 6.9%, 6.2% and then 4.7% in 2019. With the advent of the pandemic, real GDP decreased to -0.5% in 2020 but <u>iwas</u> predicted to increase to 4% in 2021 and 4.5% in 2022⁷, providing that the global and local economies recover from the pandemic. Table 2 shows selected macroeconomic indicators as shown by the International Monetary Fund (IMF) Datamapper dated April 2021.8

Table 2: Macroeconomic indicators 2021

E. Madrocoonomic malcatoro 2021	
GDP (billion USD)	20.44
GDP per capita (USD)	2,770
GDP growth	4.6%
Current account balance (billion USD)	-1.525
Current account balance, percent of GDP	-7.5
Inflation rate, average consumer prices (Annual percent change)	4.9
General government gross debt (Percent of GDP)	68.3



Source: ADB, 'Analysis of Human Capital and Labour Force Participation', 2019, https://www.adb.org/sites/default/files/linked-documents/50399-003-sd-03.pdf.

The budget for domestic development is constrained by several macroeconomic factors. Lao PDR has an increasing external debt which stood at 9.935 billion USD in 2019. A 2019 study found that Lao PDR's debt carrying capacity had deteriorated and its debt distress was assessed as high. The maturing of major sovereign debts together with limited external financing options were the major factors causing the country to be downgraded in 2020 by both Moody's Investors Service and Fitch Ratings. Although the 2019 current account deficit of 12.1% of GDP decreased to 7.3% of GDP in 2020 due to a slowdown on imports during the Covid-19 pandemic, this is not expected to

⁷ Asian Development Bank, 'Asian Development Outlook 2021: Financing a Green and Inclusive Recovery', 2021, https://www.adb.org/publications/asian-development-outlook-2021.

⁸ International Monetary Fund@, 'World Economic Outlook Database', 2021, https://www.imf.org/en/Countries/LAO#whatsnew.

⁹ 'World Bank Open Data' (World Bank), accessed 14 June 2021, https://data.worldbank.org/indicator/DT.DOD.DLXF.CD?locations=LA.

¹⁰ International Development Association and International Monetary Fund, 'Lao PDR Joint World Bank-IMF Debt Sustainability Analysis', 2019, https://openknowledge.worldbank.org/bitstream/handle/10986/32557/Lao-Peoples-Democratic-Republic-Joint-World-Bank-IMF-Debt-Sustainability-Analysis-August-2019.pdf?sequence=1&isAllowed=y.

signal a new trend, and it is projected to increase to 7.8% of GDP in 2021 and 8.0% in 2022.11

Lao PDR's tenuous external position places restrictions on its fiscal operations and has resulted in a number of strategies and action plans being put on hold due to a scarcity of funding. Fiscal stress was exacerbated in 2020 by a 14.6% contraction in revenue collection. This contributed to a 2020 budget deficit equivalent to 5.3% of GDP.

Macroeconomic indicators do not convey the situation of local populations in Lao PDR especially since comparably high levels of economic growth have not translated into corresponding poverty reduction, and inequality is rising. Much of GDP is driven by foreign investment in sectors which employ a small percentage of the workforce. Figure 1 shows that, although the percentage is gradually declining, the

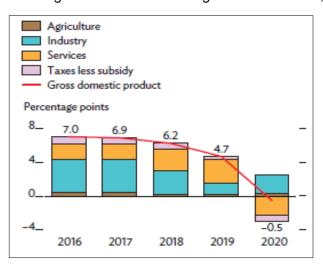


Figure 2: Sector contributions to growth
Source: Asian Development Bank, 'Asian Development
Outlook 2021: Financing a Green and Inclusive Recovery'

majority of the workforce is employed in the agricultural sector. However, this sector is only responsible for a small percentage of GDP. The agriculture sector is particularly vulnerable to extreme weather events and climate change, potentially increasing pre-existing vulnerabilities. The industry sector is dominated by major projects in the electricity, mining and infrastructure sectors. The services sector has grown in recent years however, this was the sector which was most severely impacted by Covid-19 and the ensuing lockdowns in both 2020 and 2021 as shown in Figure 2. In urban areas in particular, service sectors such as travel, tourism and hospitality constitute a significant proportion of the workforce, and the major contraction in these areas, as a result of the pandemic, caused high unemployment, with an estimated 96,000 to 214,000 additional people projected to fall into poverty. 13 A lack of organised

social protection leaves a large proportion of poor workers and unemployed people vulnerable to socioeconomic shocks.

Lockdowns have disproportionately affected the livelihoods of those engaged in the informal work sector. According to a 2017 labour force survey, this sector comprises approximately 35 per cent of total employment in Lao PDR and includes a higher percentage of women than men. ¹⁴ There is no social security provision for workers in the informal economy, and vulnerable groups often face food and income insecurity as a result. Human resource capabilities to design and implement social protection are limited.

Social Context

The most recent census in Lao PDR was carried out in 2015. According to the census, there were 3,237,458 females in Lao PDR and 3,254,770 males, making a total population of 6,492,228.¹⁵ The World Bank gives a more recent figure of 7,169,455 for the total population in 2019.¹⁵ The population is

¹¹Asian Development Bank, 'Asian Development Outlook 2021: Financing a Green and Inclusive Recovery'.

¹² Asian Development Bank.

World Bank, 'COVID-19 to Impact Lao PDR Growth, Debt in 2020: New World Bank Report', 2020,
 https://www.worldbank.org/en/country/lao/publication/covid-19-to-impact-lao-pdr-growth-debt-in-2020-new-world-bank-report.
 UNFPA & UN-Habitat, 'Impacts of COVID-19 in Vulnerable Settlements and Communities in Lao PDR', Position paper,

<sup>2020.

15</sup> Laos Statistics Bureau, 'Results of Population and Housing Census 2015' (Vientiane, 2015),

relatively young, with the 2015 census showing 32 percent of the population aged 0-14 years, 64 percent of working age (15-64 years) and 4 percent aged 65 years or over. The 2015 dependency ratio was 57 dependent persons for every 100 persons of working age. This percentage of dependent people has been decreasing as the age structure has changed, with population growth slowing down. The population increased by 1.45% per annum from the 2005 census to the 2015 census.

Having a culturally and linguistically diverse population, there has been a focus to create a unified population of the state of Lao PDR, which was formed in 1975 and has been governed by the Lao People's Revolutionary Party (LPRP) since its formation. There are 49 officially recognized ethnic groups in Lao PDR. The largest group is Lao Loum, making up 53 percent of the population in 2015. Khamu make up 11 percent of the population, Hmong make up 9 percent and the remaining groups are smaller in number. The most widely spoken language is Lao and the dominant religion is Buddhism, although many smaller ethnic groups have animist beliefs. Having waves of migrants moving into Laos over thousands of years, with an intermingling of early groups, the term, "indigenous people" is not used in Lao PDR. Rather, the diversity of all ethnic groups is acknowledged and respected. As such, the term, "indigenous peoples" is not used in this concept note. Rather, "ethnic groups" is used, in keeping with the language used in Lao PDR. Ethnic groups are often concentrated in particular regions and in particular villages within regions. Minority ethnic groups are unique and diverse. In some areas of the country, there are ethnic groups, particularly women in these groups, which are not well represented in decision making processes.¹⁶

With regard to gender, progress has been made on the advancement of women's status. However, this has not been evenly spread over geographic areas, ethnic groups and wealth levels. An example is that, based on a 2017 report, less than 60 percent of women in poor households are able to read and write, whereas the figure is over 80 percent for men. 17 Areas of concern include early marriage and adolescent pregnancies, of which Lao PDR has had the highest rates in Asia. 18 This contributes to a disparity between the numbers of males and females in secondary and tertiary education, with 48.6% of boys but only 42.9% of girls enrolled in upper secondary school in 2014/2015.19 In terms of employment, the percentage of women in wage employment in the non-agricultural sector is low while a relatively higher percentage of women are self-employed or employed in informal non-wage jobs.²⁰ Businesses with female ownership are, on average, smaller than those owned by males. In political representation, as of 2017 Lao PDR had one of the highest proportions of women (27.5 percent) in national parliaments.²¹ However, women are much less represented in decision-making at local levels, even though evidence worldwide has shown that women can become leaders of adaptation at the local scale. There is limited awareness and research for policy dialogue on urbanisation issues in Laos, including how they relate to gender, ethnicity, and inclusion in the local context, and this is a key challenge to be addressed to support sustainable development.²²

Development Context—

Since Lao PDR's formation in 1975, it has made steady developmental progress, as measured by the Human Development Index (HDI). In 2019, Lao PDR scored 0.613 on the HDI, which gave it a rank of

¹⁶ Ministry of Agriculture and Forestry, 'Lao PDR: Northern Rural Infrastructure Development Sector Project: Ethnic Groups Development Framework', 2016, https://www.adb.org/sites/default/files/linked-documents/42203-025-ippfab.pdf.

¹⁷ World Bank Group, 'Country Gender Action Plan for Lao People's Democratic Republic for the Period FY2017 - FY2021 (English)' (Washington, D.C., 2017), http://documents.worldbank.org/curated/en/824181495177203647/Country-gender-action-plan-for-Lao-People-s-Democratic-Republic-for-the-period-FY2017-FY2021.

¹⁸ World Bank Group.

¹⁹ World Bank Group.

²⁰ World Bank Group.

²¹ World Bank Group.

²² UN-Habitat (2020). Urbanisation: a rapid emerging development issue for Lao PDR. https://www.fukuoka.unhabitat.org/docs/publications/pdf/habitat_newsletter/1_Urbanization_Rapidly_Emerging_Developme https://www.fukuoka.unhabitat.org/docs/publications/pdf/habitat_newsletter/1_Urbanization_Rapidly_Emerging_Developme https://www.fukuoka.unhabitat.org/docs/publications/pdf/habitat_newsletter/1_Urbanization_Rapidly_Emerging_Developme https://www.fukuoka.unhabitat.org/docs/publications/pdf/habitat_newsletter/1_Urbanization_Rapidly_Emerging_Developme

Table 3: Key Human Development Indicators for Lao PDR

Life expectancy at birth, female (years)	67.9
Life expectancy at birth, male (years)	66.1
Mortality rate, infant (per 1,000 live births)	37.6
Maternal mortality ratio (deaths per 100,000 live births)	185
Literacy rate, adult (% ages 15 and older)	84.7
Mean years of schooling, female (years)	4.9
Mean years of schooling, male (years)	5.7
Population in multidimensional poverty, headcount (%)	23.1
Vulnerable employment (% of total employment)	80.1
Internet users, total (% of population)	25.5

Source: http://hdr.undp.org/en/countries/profiles/LAO

137 out of 189 countries and placed it in the range of medium human development.²³ Table 3 shows selected human development indicators as shown in the 2020 Human Development Report. Major progress has been made from the year 2000, when the HDI score was 0.471.²⁴

A key focus of the Government is graduation from Least Developed Country (LDC) status with a vision of achieving upper-middle income status by 2030. In February 2021, the UN Committee for Development Policy (CDP) recommended that Lao PDR graduate with an extended 5-year preparatory period, in effect setting a date of 2026 as the graduation date assuming continued positive progress until then.

The Government of Lao PDR has recently ratified the country's 9th National Socioeconomic

Development Plan (NSEDP) 2021-2025. This is the main development plan to which sectoral and subnational plans are aligned. In the past, there was a development focus on the exploitation of natural resources in the form of mining, hydropower and land concessions to foreign companies. Although major projects in these areas generated rapid economic growth, the benefits were not distributed equitably throughout the population, and there were adverse environmental consequences. A paradigm shift in recent years has seen an emphasis on inclusive, sustainable and green economic growth. Key concerns in the 9th NSEDP development have been, "the challenges associated with COVID-19 response and recovery, sustainability and climate change, quality and inclusive growth, human capital, infrastructure development and the graduation from Least Developed Country status."25 Outcome 4 of the 9th NSEDP targets Environmental Protection and Natural Disaster Risk Reduction.²⁶ Activities under Outcome 4 include striving to register and issue 1.6 million land titles nation-wide; mainstreaming climate change adaptation and mitigation into sectoral and local development plans; accelerating the development of nature-based solutions for environmental preservation and sustainable development; and ensuring that all people in Lao PDR, especially the most vulnerable and marginalised, have equitable access to natural resources in a responsible and transformative manner.²⁷ While the vision for inclusivity and sustainability is evident in national planning, there is limited financial and human capacity to implement the strategy at subnational levels. There is therefore, a need for capacity building at local levels in order to decrease marked socioeconomic disparities between geographical areas.

Lao PDR is committed to the 2030 Agenda for Sustainable Development, aided by the UN Country Team which has a renewed impetus under Our Common Agenda.²⁸ This agenda includes re-embracing global solidarity and finding new ways to work together for the common good, with an exhortation to take bold steps to address the triple planetary crisis of climate disruption, biodiversity loss and pollution. Approximately 60 percent of the 160 indicators in the 8th NSEDP were linked to the Sustainable Development Goals (SDGs). An 18th SDG is to have "lives safe from UXO [unexploded ordnance]" since

²³ UNDP, 'Human Development Report 2020: The Next Frontier—Human Development and the Anthropocene', 2020, http://hdr.undp.org/en/content/human-development-report-2020.

²⁴ UNDP, 'Lao PDR: Human Development Indicators', 2020, http://hdr.undp.org/en/countries/profiles/LAO.

²⁵ Government of Lao PDR, 'Lao PDR 2nd Voluntary National Review: Main Message', 2021, https://sustainabledevelopment.un.org/content/documents/277122021 Main Message Lao PDR.pdf. p. 1.

²⁶ The 9th Five-Year National Socioeconomic Development Plan (2021-2025), Draft 5, 8 Dec 2020.

²⁷ Government of Lao PDR, 'Lao PDR 2nd Voluntary National Review: Main Message', 2021, https://sustainabledevelopment.un.org/content/documents/277122021_Main_Message_Lao_PDR.pdf, 1.

²⁸ United Nations, 'Our Common Agenda: Report of the Secretary-General', 2021, https://www.un.org/en/content/common-agenda-report/assets/pdf/Common_Agenda_Report_English.pdf.

there are large areas of land which are still contaminated by UXOs, rendering the land unsafe to be used. The 2nd voluntary national review (VNR) of the SDGs is underway in 2021. As conveyed in its main message, lessons learned include a need for:

i.greater involvement of line ministries and provincial authorities;

- ii.strengthening of administrative data systems along with enhancing institutional and statistical capacity building;
- iii.a multi-stakeholder approach which promotes collaboration and coordination across line ministries and between central-local levels;
- iv.continued partnership to identify practical development financing strategy; and v.greater public awareness leading to increased support and partnerships.²⁹

These lessons learned are relevant to much of the development interventions that are carried out in Lao PDR. There is an imbalance between national and subnational levels in terms of capacity, a lack of good, accessible data and a constant need to source finance in order to implement action plans.

Housing

Housing is a key developmental sector and an important driver for sustainable development and poverty reduction in both social and economic terms. Linking people's needs, demands and social processes with land, infrastructure, building materials, technology, labour, and housing finance, a functioning housing sector offers appropriate, affordable housing and sustainable patterns of settlement.³⁰ In Lao PDR there are evident disparities in housing between rural and urban areas, and between small towns and large cities. A 2018 Post -Disaster Needs Assessment (PDNA) found the sector to be highly vulnerable to the effects of climate change. Most of the more robust houses are in Vientiane Capital and four secondary towns where the primary material used for construction is concrete or brick.³¹ However, construction methods are sometimes inadequate and non-climate-resilient, using rigid systems dependant on air cooling which international research has shown to contribute significantly to GHG emissions.³² In the rest of the country, wood is mostly used for walls and flooring.³³ In small towns, families often construct their own house to designs which differ across the provinces, depending on cultural factors and the construction materials available. Poor households live in semi-permanent houses constructed of grass, bamboo and plywood, with 15.7% of the houses in Attapeu Province being of this nature. Many houses show little resilience to flooding and storms, and some villages are in areas which are susceptible to these events. Houses in these locations, along with the householders' possessions and means of livelihood, are therefore damaged or destroyed when these weather events occur. This necessitates the construction of new houses, which are often constructed in the same manner as the previous ones.

Urbanisation

There is a growing trend of urbanisation across Lao PDR, with the 2016 UN-Habitat World Cities Report³⁴ identifying the Lao PDR as the most rapidly urbanising country in Southeast Asia. According to the 2015 census, approximately 33% of the Lao population lived in urban areas, mainly in Vientiane

²⁹ Government of Lao PDR, 'Lao PDR 2nd Voluntary National Review: Main Message'.

³⁰ UN-Habitat, 'A Practical Guide for Conducting: Housing Profiles', 2011, https://unhabitat.org/sites/default/files/documents/2019-07/a_practical_guide_for_conducting_housing_profiles_-_revised_version.pdf.

³¹ Government of Lao PDR, 'Post-Disaster Needs Assessment: 2018 Floods, Lao PDR', 2018, https://laopdr.un.org/en/12913-2018-floods-post-disaster-needs-assessment.

The Climate Institute (2018). Cooling your home but warming the planet.

https://climate.org/cooling-your-home-but-warming-the-planet-how-we-can-stop-air-conditioning-from-worsening-climate-change/

³³ Government of Lao PDR, 'Post-Disaster Needs Assessment: 2018 Floods, Lao PDR', 2018, https://laopdr.un.org/en/12913-2018-floods-post-disaster-needs-assessment.

³⁴ UN-Habitat, 'World Cities Report 2016: Urbanization and Development - Emerging Futures' (Nairobi, 2016), https://unhabitat.org/sites/default/files/download-manager-files/WCR-2016-WEB.pdf.

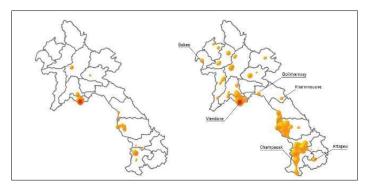


Figure 3: Densely populated areas

(Source: UN-Habitat Lao PDR, based on Population and Household Census 2015)

Capital.³⁵ However, there are many smaller settlements which are becoming more urban in nature due to a range of factors including rural-urban migration and government policy such as the practice of grouping a number of villages together to form a town.

Urban planning is not strong, particularly at local levels, with no comprehensive urban strategy, and many towns do not show evidence of having followed their urban plans, which often date from the 1990's or 2000's.³⁶ Along with poor coordination between the multiple ministries responsible for various aspects of urban

planning and management, the populations of many small towns do not have access to basic services, and infrastructure such as waste management is often lacking. Consultation with DHUP – MPWT and MoNRE has highlighted the necessity to update and revise master plans, in the process mainstreaming climate change issues and concerns. Figure 3 shows areas of high-density population.

Land-use planning, and management is also poor, and urbanisation has resulted in agricultural lands and wetlands being converted to residential and economic developments in fast-growing urban and periurban areas. Land use plays a critical role in ensuring that all people, including the most vulnerable, have access to land tenure. In 2019 the Land Law was amended, and a Land-use Master Plan was developed. The Land Law includes an aim to register and issue 1.6 million land titles nation-wide by 2025. Some towns have a book which records family land plots, but the land plots have often not been measured, mapped or recorded in a database. Despite legislative and policy documents, much development at the local level is still unplanned and arbitrary, and land titling is therefore a priority to ensure sustainable development and advance climate resilience.

Urban poverty is expected to rise as the urban population increases because of the trends listed above. The increase in poverty is also being exacerbated by the Covid-19 pandemic and returning migrants. Moreover, many urban migrants are likely to be landless in their new place of residence, and therefore more dependent on cash income than if they were living in their place of birth. Research to date has shown that inequality within Laos has grown, with Vientiane Capital recording the highest rate of inequality. Finally, urban policies are often targeting large-scale infrastructure development, and yet little attention has been paid to affordable and resilient housing development, or informal and vulnerable settlements upgrading.

Environmental Context

Having a wealth of natural resources on which much of the country depends, Lao PDR's development trajectory is reliant on the sustainable exploitation of its natural resources and the inclusive distribution of the benefits of their exploitation.³⁸

Lao PDR is a landlocked country of 236,000 km² located in the Mekong region. The altitude ranges from

³⁵ Laos Statistics Bureau, 'Results of Population and Housing Census 2015'.

³⁶ Bosoni, N., Epprecht, M., & Hayward, D., 'Urbanization Processes in the Lao PDR: Processes, Challenges and Opportunities.', 2018, https://www.shareweb.ch/site/Poverty-Wellbeing/equality-equity-inclusion/Documents/Lao_Urbanization_Study_CDE_final.pdf.

³⁷ Epprecht et al. (2018. Urbanization processes in the Lao PDR.

³⁸ Matthew McCartney and Jake Brunner, 'Improved Water Management Is Central to Solving the Water-Energy-Food Trilemma in Lao PDR', International Journal of Water Resources Development 37, no. 4 (4 July 2021): 619–39, https://doi.org/10.1080/07900627.2020.1754175.

104 to 2,820 metres above sea level, with approximately 80% of the land area being mountainous. The remaining 20% of land area is a low-lying plain through which the Mekong River flows and on which more than 50% of the population live. In addition to the Mekong, numerous contributary rivers are an essential resource for socioeconomic development, particularly agriculture and hydropower, however the rivers also present a threat of seasonal flooding which is exacerbated by damage to ecosystems due to rapid development.

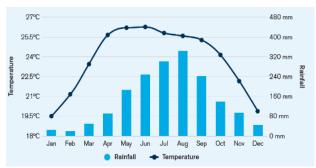


Figure 4: Average monthly temperature and rainfall in Lao PDR (1991–2020)

Source: The World Bank Group and the Asian and Development Bank., 'Climate Risk Country Profile: Lao PDR', 2021'

The tropical climate is split into a monsoon season from May to mid-October, and a dry

season from mid-October to April. Figure 4 shows average monthly rainfall and temperatures. There are three climatic zones:

- i. The northern mountainous areas above 1,000m in altitude which are relatively dry and the coolest region of the country.
- ii. The central mountainous areas of 500 1,000m in altitude which have a tropical monsoon climate with an average annual rainfall of 2,500 to 3,500 mm.
- iii. The tropical lowland plain and floodplains which have an average annual rainfall of 1,500 2,000 mm

A key natural resource has been forests, which are now valued for their contribution to socio-economic development, environmental protection and biodiversity conservation, Work is underway to improve forest management and to integrate climate change concerns in order to protect forest ecosystems, improve productivity and increase carbon sinks. The previously high forest cover has significantly decreased over the years, mainly due to commercial logging, household use, shifting cultivation, agriculture extension, mining, hydropower, infrastructure development and expansion of settlement areas.³⁹ Forest cover reduced from 70% of land area in 1940 to 41.5% in 2002, before increasing to 58% in 2015.⁴⁰ Forest management is, therefore, a key focus and funding has come into the country through projects under the umbrella of Reducing Emissions from Deforestation and Forest Degradation (REDD+). A 2021 REDD+ strategy has a vision of forests that by 2030 are, "sustainably managed, protected, developed and utilised through the participation of all stakeholders in the whole society; forest management systems are enhanced; and forest can provide efficient economic, social and environment services." Forestry has close links to nearby towns through the provision of livelihoods, provision of resources and their impact on ecosystems with resulting effects on vulnerability to climate change impacts.

Lao PDR is also rich in mineral resources which have been increasingly exploited for socioeconomic gains. However, the mining sector has recently lost appeal as an investment opportunity as a result of a global decline in prices, the depletion of mineral ores, a lack of clear legislation and, since 2020, lockdowns which have disrupted operations.⁴² For local communities, economic potential in mining has

³⁹ Government of Lao PDR, 'Lao PDR First Biennial Update Report (Draft)', 24 July 2020, https://unfccc.int/sites/default/files/resource/867493251_Lao%20Peoples%20Republic-BUR1-1-Draft%20Biennial%20Update%20Report-BUR_Lao%20PDR_24July2020.pdf.

⁴⁰ Government of Lao PDR, 'Lao PDR First Biennial Update Report (Draft)', 24 July 2020, https://unfccc.int/sites/default/files/resource/867493251_Lao%20Peoples%20Republic-BUR1-1-Draft%20Biennial%20Update%20Report-BUR_Lao%20PDR_24July2020.pdf.

⁴¹ Ministry of Agriculture and Forestry, 'National REDD+ Strategy', 2021, https://redd.unfccc.int/uploads/697_2_lao_nrs_final_2021_eng.pdf. p, iv.

⁴²Oliver Tappe, 'Artisanal, Small-Scale and Large-Scale Mining in Lao PDR', ISEAS Perspective 44, no. 2021 (15 April 2021), https://www.iseas.edu.sg/articles-commentaries/iseas-perspective/2021-44-artisanal-small-scale-and-large-scale-

often come at the expense of environmental and social well-being. Weak law enforcement has enabled a continued disruption to local communities.

With its network of rivers, Lao PDR has abundant water resources which are of generally good quality. Despite this, deteriorating water quality is a concern in light of population growth and urbanisation. The hydrological profiles of rivers are being affected by irrigation and economic development strategies involving hydropower, agricultural commercialisation and mining, as well as climate change. This is affecting the livelihoods of local communities and options for economic development. Water management is therefore a key focus.

As with other sectors, there are strategies and action plans to achieve environmental goals but with limited resources and little cross-sector collaboration. many of the plans have not achieved their targets.

Climate Change

Lao PDR is vulnerable to the impacts of climate change as shown by its 2018 ranking of 142 out of 181 countries in the 2020 ND-GAIN Index.⁴³ Country or subnational climate analysis has been carried out relatively recently and the Second National Communication noted a dearth of long-term historical climate data at the country level.⁴⁴ For this reason, international data has been relied on to give climate projections.

Climate change projections

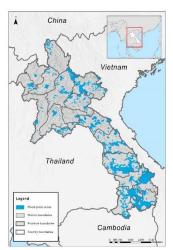


Figure 6: Flood-prone areas Source: UN-Habitat

In terms of temperature, World Bank data shows a long-time trend of warming. It has been estimated that the temperature near Vientiane rose 1.03°C from 1900-1917 to 2000-2017, with a marked acceleration in warming throughout the country in the 21st century.45 The temperature is expected to continue to rise largely in keeping with the global average. Out of four scenarios, the maximum temperature rise by the 2090's from a 1986 – 2005 baseline is predicted to be 4.1° C. while the minimum is 1.2°C.46 Minimum and maximum temperatures are expected to rise more rapidly than average temperatures, with the highest increases being in the hottest months. Dry seasons are expected to lengthen, with droughts becoming more severe and more frequent.47



Figure 7: Landslide-prone areas. Source: UN-Habitat

There is also projected to be an increase in precipitation, with data from 1951–2012 showing a 1.6mm

mining-in-lao-pdr-by-oliver-tappe/.

⁴³ University of Notre Dame, 'Notre Dame Global Adaptation Initiative.', 2021, https://gain.nd.edu/our-work/country-index/. The ND-GAIN Country Index summarizes a country's vulnerability to climate change and other global challenges in combination with its readiness to improve resilience.

⁴⁴ Government of Lao PDR, 'Second National Communication: Lao PDR', 2013, https://unfccc.int/resource/docs/natc/laonc2.pdf.

World Bank Group and the Asian Development Bank, 'Climate Risk Country Profile: Lao PDR', 2021, https://www.adb.org/sites/default/files/publication/709846/climate-risk-country-profile-lao-pdr.pdf.

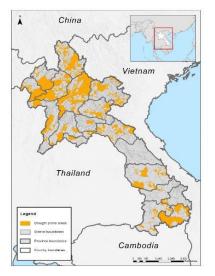
⁴⁶ World Bank Group and the Asian Development Bank.

⁴⁷ Lao Statistics Bureau, 'Laos Country Report: 2019 KOICA-ESCAP Fellowship Programme, Capacity Building on Drought Monitoring and Early Warning', https://www.unescap.org/sites/default/files/Country%20Report_drought%20monitoring%20and%20early%20warning_Lao%2

https://www.unescap.org/sites/default/files/Country%20Report_drought%20monitoring%20and%20early%20warning_Lao%20PDR.pdf.

increase in rainfall per decade.⁴⁸ Mean annual rainfall is expected to increase further in the future, with the increases more pronounced during the wet season.⁴⁹ World Bank data projects potential increases of 10-30% particularly in the eastern and southern part of Lao PDR, and an increase in the number of annual wet days in the southern area of the Mekong River.⁵⁰ Intense and heavy rainfall has been associated with severe flooding and landslides.

Lao PDR is extremely vulnerable to floods with the INFORM Country Profile showing a score of 9.1 on a scale of 0 – 10 for risk to floods.⁵¹ Despite these projections, climate change impacts in Lao PDR are highly localised and may not play out the same in all districts. In 2019, UN-Habitat and MoNRE carried out a national vulnerability assessment. All 8,500 villages, urban and rural, were covered in the assessment. Resulting data is shown in the maps in this section. Figure 6 and Figure 7 show areas that are prone to floods and landslides respectively.





storm-prone areas.

Figure 8: Drought-prone areas Source: UN-Habitat

Figure 9:Storm-prone areas Source: UN-Habitat

Nationally, there are projected increases in droughts and tropical storms or cyclones. although . Mmore research is needed for detailed projections. but data suggests an increased annual likelihood of drought. 52 In recent years, drought has been experienced in Lao PDR in 2015, 2016 and 2019.53 Research shows a strong correlation also between drought and El Niño-Southern Oscillation (ENSO) events, with 71 percent of flood or drought disasters in Lao PDR coinciding with ENSO events.54 Added to heavy rainfall and droughts, Lao PDR experiences tropical storms and cyclones which are projected to increase in intensity. Figure 8 and Figure 9 show drought and

It can be seen that some areas are prone to multiple hazards. An example of this is shown in a UN-Habitat vulnerability

assessment in Attapeu.⁵⁵ The last 30 years has seen a significant decrease in rainfall in Attapeu, with annual rainfall ranging from 1,196 millimetres in 2010, to 3,265 in 1996. Figure 10 shows the high variability in rainfall in Attapeu, with an overall downward trajectory. The variation has resulted in both

⁴⁸ Government of Lao PDR, 'Post-Disaster Needs Assessment, 2018 Floods, Lao PDR'. https://laopdr.un.org/sites/default/files/2019-08/2018%20PDNA_English.pdf

⁴⁹ World Bank Group, 'Lao PDR', Knowledge portal, Climate Change Knowledge Portal, 2021, https://climateknowledgeportal.worldbank.org/country/lao-pdr/climate-data-projections.

⁵⁰ World Bank Group.

⁵¹ INFORM, 'Lao PDR: INFORM Risk Country Risk Profile'.

⁵² World Bank Group and the Asian Development Bank, 'Climate Risk Country Profile: Lao PDR'.

⁵³ Sutton, William R., Jitendra P. Srivastava, Mark Rosegrant, and Jawoo Koo, and Ricky Robertson, 'Striking a Balance: Managing El Niño and La Niña in Lao PDR's Agriculture', 2019,

https://documents1.worldbank.org/curated/en/448941554201199810/pdf/Striking-a-Balance-Managing-El-Ni%C3%B1o-and-La-Ni%C3%B1a-in-Lao-PDR-s-Agriculture.pdf.

⁵⁴ Sutton, William R., Jitendra P. Srivastava, Mark Rosegrant, and Jawoo Koo, and Ricky Robertson.

⁵⁵ UN-Habitat, 'Climate Change Vulnerability Assessment: Attapeu Province', 2019.

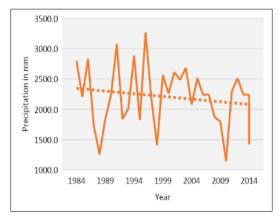


Figure 10: Average annual rainfall in Attapeu Province

(Source: UN-Habitat, Climate change vulnerability assessment: Attapeu Province)

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Figure 11: Number of hazards per village.
Source: UN-Habitat

already been experienced in Lao PDR, affecting multiple sectors. Preliminary

extreme flooding and also droughts.

Figure 11 shows the number of hazards that a village is exposed to. The four identified hazards are floods, droughts, landslides and storms. Towns targeted by this proposal are highly vulnerable to the effects of climate change, stressing the need to improve urban planning and provide adequate and resilient shelter to the most vulnerable.

Climate change impacts

The impacts of climate-related severe weather events have and they are projected to increase, results from the national climate

and

change Vulnerability Assessment, conducted by UN-Habitat and MoNRE, show that 46% of villages have been exposed to at least one climate change-related hazard, affecting about 3 million people⁵⁶. Extreme weather events have impacted agriculture, food security, access to water and public health among other areas. However, the full impacts may not be recognized as there is likely an under-reporting of climate-related hazards such as landslides and flash flooding in remote areas,⁵⁷ and impacts are often very localised. Drought and flood events are likely to push many already poor households into extreme poverty. In terms of human impacts, it is widely recognized that the poor will suffer more severe impacts, with women and children being particularly at risk. Poor households live day to day and do not have the resources to mitigate the impacts of climate – related shocks, with monoculture, a lack of diversity in livelihoods and limited infrastructure.⁵⁸ Women and children are particularly at risk as are households that depend on agriculture and fishing. Extreme weather events hinder efforts to build resilience for the future, as exemplified by the 2018 floods which impeded work to create a national rice reserve.⁵⁹ In a similar way, efforts to build resilience into the country's housing stock are constrained by a cycle of floods







Figure 12: Flood-damaged houses

Source: June 2021 Floods in Lao PDR: Inputs to Simplified Post-Disaster Needs Assessment Housing and Settlements & WASH. UN-Habitat, 2021

⁵⁶ UN-Habitat, 'Lao PDR National Climate Change Vulnerability Assessment: Preliminary Results', 2020.

⁵⁷ World Bank Group and the Asian Development Bank, 'Climate Risk Country Profile: Lao PDR'.

⁵⁸ Government of Lao PDR, 'Post-Disaster Needs Assessment, 2018 Floods, Lao PDR'.

⁵⁹ The World Bank Group and the Asian and Development Bank., 'Climate Risk Country Profile: Lao PDR', 2021, https://www.adb.org/publications/climate-risk-country-profile-lao-pdr.

emergency recovery interventions. Figure 12 shows houses which were damaged in floods caused by Tropical Storm Koguma in June 2021.

Climate change limpacts are expected in the agriculture sector although details remain uncertain. Changing weather and seasonal patterns may directly impact crops but there may be indirect impacts from soil erosion, the appearance of invasive species, decline in arable areas due to flooding or desertification, and changes in water resources, soil organic matter, and pest and disease profiles. While the effects on rice-growing are uncertain, it has been suggested that changing temperature and rainfall patterns could see rice yields fall by 5–20% by the 2040s, with potentially more losses on higher emissions pathways. Since rice is the staple food on which many households depend, changes such as this will have a significant impact on food security.

Climate Change Institutional Setup

In 2020, Lao PDR submitted its first Biennial Update Report (BUR) and its Nationally Determined Contribution (NDC) as part of its commitment to the Paris Agreement. Regarding adaptation, Lao PDR has completed a National Adaptation Program of Action (NAPA), National Climate Change Strategy and Climate Change Action Plan for 2013-2020. These focus on building resilience in the key sectors of agriculture, forestry and land use, water resources, transport and urban development and health.

Climate change was initially dealt with under the umbrella of the environment but there has been an increasing focus on it as a standalone issue (albeit within the Environment arena). Over the past two decades there have been many institutional changes relating to climate change but the current key ministry is the Ministry of Natural Resources and Environment (MONRE), which was established in 2011. In depth understanding of climate change and technical capacity is concentrated in MoNRE, with staff at the Ministry of Agriculture and Forestry (MAF) also having capacity.

Key MoNRE departments for climate change are the Department of Climate Change (DCC) and the Department of Meteorology and Hydrology (DMH). Perhaps due to the climate-related disasters which have impacted Lao PDR in recent times, there is often a conflation of climate change and natural disasters. This has resulted in institutional changes. When the Climate Change Office was upgraded to a department of MoNRE in 2011, it became DCC was formerly the Department of Disaster Management and Climate Change. The Disaster Management mandate was moved from its previous place in the Ministry of Labour and Social Welfare (MLSW) to MoNRE in 2013 but the decision was made for it to returnmoved to the Ministry of Labour and Social Welfare (MLSW) in 2017. It is only since this time in 2017 that an independent Department of Climate Change has existed, separate from disaster management, although Disaster Risk Reduction remains within DCC. DCC has the mandate to develop policy frameworks related to climate change but the responsibility for implementation rests with the relevant sectors. The focal points for the UNFCCC and related organisations are also found in DCC. While there is a high level of expertise at the national level, climate change capacity at the subnational level is more limited.

The Provincial Office of Natural Resources and Environment (PoNRE) has fewer people working on climate change than the central level does. With the moving of the Disaster Management mandate to Labour and Social Welfare in 2017, it took some time for climate change responsibilities to be organised at the subnational level but mandates have now been clarified, with the Provincial Office of Natural Resources and Environment (PoNRE) being the climate change focal point with other sectors, with the provincial government, and with the national and district levels.

As a recently established ministry, MoNRE is still building capacity and infrastructure. While capacity is

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⁶⁰ The World Bank Group and the Asian and Development Bank.

⁶¹ Li, S., Wang, Q., & Chun, J. A., 'Impact Assessment of Climate Change on Rice Productivity Inthe Indochinese Peninsula Using a Regional-Scale Crop Model', *International Journal of Climatology* 37, no. S1 (August 2017): 1147–60.

being built in some PoNREs through a project-based approach, capacity in many District Offices of Natural Resources and Environment (DoNRE)s is extremely low, and some districts do not yet have an office at all. Instead, district level staff are currently sitting in offices belonging to other sectors such as Agriculture and Forestry, among others. The lack of basic infrastructure at the district level is impeding

Hydro-Meteorological data collection system **GTS Network** WMO Centers' MTSAT; CMACAT, COMS! Services of DMH's Meteorology and Hydrology Doppler **Telecommunication** Weather RADAR Center **Early Warning Center** District /leteorological nd Hydrological

Figure 13: Hydro-Meteorological Data Collection System Source: The Current Status of Lao National Meteorological and Hydrological Monitoring, DMH, Vientiane, 2018

accurate data, and also as communication nodes

operations and climate change adaptation coordination at the local level.

The DMH is also still developing its capacity throughout the country. A 2017 Meteorology and Hydrology Law gives MONRE the responsibility of developing and improving a meteorological and hydrological station network

extension plan, and managing the network. However, with a limited budget, the required number of stations have not yet been built, leaving communities where there is no data and forecasting, vulnerable to hazards, particularly floods, since the data is not available to inform the early warning system. Figure 13 shows the data collection system which informs weather forecasting and the early warning system, illustrating the critical role that meteorological and hydrological services play both-in providing

Urbanisation and Climate Change Nexus

Considering the critical adaptation needs in the housing and urban planning sector, and their inherent links to the Natural Resources and Environment sector, considering also the needs for improved climate change coordination, this project brings together these sectors with the aim of strengthening the climate change adaptation coordination system, which will contribute to enhancing the resilience building components in housing and urban planning. Mainstreaming climate change considerations into town master plans and into housing construction practices is not only a central element of adaptation in the housing and urban planning sector but it is also a key requirement for meeting sector goals.

In preparation for the project, UN-Habitat, in partnership with District authorities in each of the target towns, has conducted an analysis, with resulting data shown in Figure 14 to Figure 19. These maps show the administrative boundaries of the towns and the areas within the town which are at risk of climate-induced hazards.

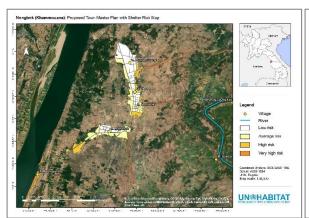


Figure 14:Nongbok (Khammouane) Proposed Town Master Plan showing risk areas. Source: UN-Habitat

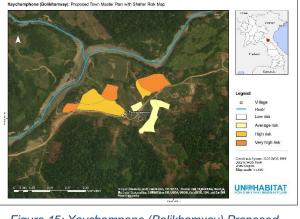


Figure 15: Xaychampone (Bolikhamxay) Proposed Town Master Plan showing risk areas Source: UN-Habitat

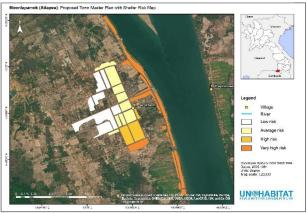


Figure 16: Moonlapamok Champasak) Proposed Town Master Plan showing risk areas. Source: UN-Habitat

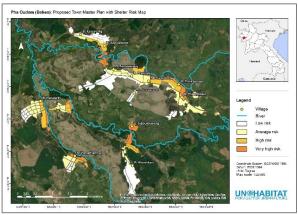


Figure 17: Pha Oudom (Bokeo) Proposed Town Master Plan showing risk areas. Source: UN-Habitat

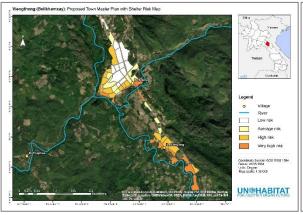


Figure <u>2</u>48: Viengthong (Bolikhamxay) Proposed Town Plan showing risk areas. Source: UN-Habitat

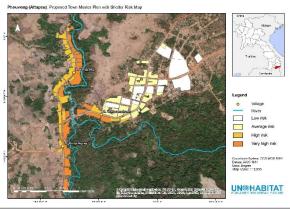
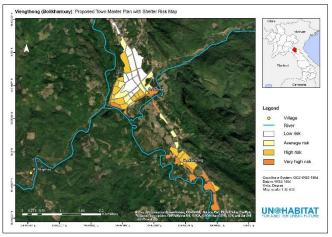
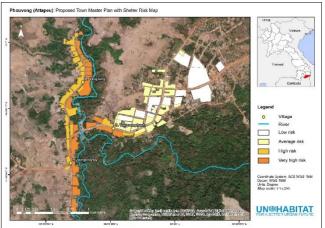


Figure 19: Phouvong (Attapeu) Proposed Town Plan showing risk areas. Source: UN-Habitat

Project / Programme Objectives:

The main objective of the project is to build climate resilience in vulnerable, poor communities in six provinces in Lao PDR through improving provincial adaptation capacity, and through building resilience in housing. The project will take a comprehensive





<u>Figure 38: Viengthong (Bolikhamxay) Proposed Town</u> <u>Plan showing risk areas. Source: UN-Habitat</u>

<u>Figure 49: Phouvong (Attapeu)Proposed Town Plan</u> showing risk areas. Source: UN-Habitat

approach to increasing resilience in shelter and housing by working to improve and localise government adaptation systems as well as strengthening houses and community evacuation centres in selected vulnerable towns. This recognises that there are

many dimensions to building resilience in the housing sector, including policy, planning and regulation; capacity building; strengthening construction practices; and improving early warning and evacuation systems. Houses will be rehabilitated, and a small number of demonstration houses constructed, in a manner which is designed to withstand climate induced hazards such as storms and floods as well as to meet the manner which is designed to withstand climate induced hazards such as storms and floods as well as to meet the needs of all subsectors of the communities in which they are situated, including women, children, disabled people and all represented ethnic groups. In addition to improving the resilience of housing for the poorest and most vulnerable members of the communities, the house rehabilitation and demonstration houses will spread awareness of climate resilient construction designs and techniques in order to promote changing local norms relating to housing construction. Many of the towns do not have effective town planning, and the project will build capacity at provincial and district levels in climate-resilient urban planning, including land titling and management, resulting in adaptation being mainstreamed into the town plans, particularly regarding land use as the towns cope with rapid growth.

In addition to strengthening urban planning and house construction, the project will strengthen early warning systems by the provision of equipment for meteorological and hydrological stations in vulnerable districts of the target provinces which do not currently have a means of collecting the

necessary data. As part of emergency preparations, community evacuation centres will be constructed to provide a safe place for displaced people to shelter in times of crisis.

The final infrastructure component of the project comprises the construction of six Coordination Centres for Adaptation and DRR, which will double as DoNRE offices, to coordinate adaptive and disaster risk management activities of the provinces.

inform To the project, stakeholder consultations have been carried out at national and provincial levels, and in the target districts in all six provinces, with all identified subsectors of the communities included. The project will be implemented in a participatory manner, with inclusive decision making at all stages. For newly constructed demonstration houses, two designs have been developed, based on the data provided by the consultations.

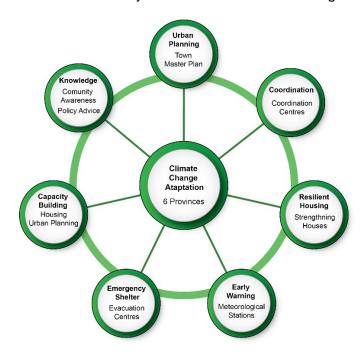


Figure 20: Multidimensional nature of the project

The project takes a multidimensional approach to enhancing the adaptive capacity of the target provinces, as shown in Figure 20. Recognising that strong coordination is a key component, the project bolsters coordination including the building of Coordination Centres as the focal point for adaptation. Strong coordination will facilitate the urban planning component of the project, in which climate change adaptation will be integrated into town master plans. The housing sector will benefit through the strengtheningrehabilitation and retrofitting of houses. In preparation for extreme climate-induced events, the early warning system will be strengthened through equipment to enable_-accurate data collection in the target areas, and community evacuation centres will be constructed or improved to provide shelter to affected households. Capacity building will be incorporated into the activities to ensure that the provinces are able to operate in an increasingly adaptive and resilient manner independently of the project.

Selection of Target locations.

The project targets six provinces in Lao PDR, as shown in Table <u>54</u>. Activities are designed to meet the specific needs of each province and its towns. Detailed information on the target locations is shown in Annex 1 and Annex 5.

The target locations were selected based on data from the 2019 national vulnerability assessment that was jointly carried out by UN-Habitat and MoNRE. The data collection had been carried out in partnership with provincial and district Natural Resources and Environment offices. From analysis of the vulnerability assessment, UN-Habitat identified the provinces with high vulnerabilities, and then identified highly vulnerable districts within those provinces. Next, incidence of poverty was examined in the districts. The conclusions from this process, and suggested target districts, were then discussed with MoNRE and MPWT who were in agreement with the suggestions, which were backed by scientific evidence. A further focus of the consultations with MoNRE concerned weaknesses in the target

provinces' adaptive capacity due to the lack of key infrastructure in certain districts, exacerbating those districts' vulnerability. The needed infrastructure was built into the project to enhance the overall adaptive capacity of the target provinces.

Table 4: Target provinces for project activities

Province	Housing rehabilitation and demonstration	Town master plan	DONRE office	New evacuation centre	Improved evacuation centre	New meteorology /hydrology station	Equipment for existing meteorology/hydrology station
Bokeo	1	1	1	1		1	1
Vientiane		1	1				1
Bolikhamxay	2	2	1	1	1	1	1
Khammouane	1	1	1		1	1	1
Champasak	1	1	1		1	1	1
Attapeu	1	1	1		1		1

Components:

Component 1: Increasing adaptive capacity of communities and provincial institutions to develop and sustain community infrastructure and housing.

Adaptive capacity at provincial and district levels of Natural Resources and Environment, and Housing and Urban Planning sectors will be increased through activities including improved urban planning that promotes and enforces resilience measures in shelter, land-use and spatial planning in seven target district capitals from six provinces, and through capacity building in adaptation practices including hydrometeorological data gathering, climate-resilient construction, and management of evacuation centres. This capacity building is necessary to enable the hardware activities in Component 2.

This component aligns with the following AF outcomes:

Outcome 1: Reduced exposure to climate-related hazards and threats

Output 1.1: Risk and vulnerability assessments conducted and updated. (Risk and vulnerability assessments will be conducted or updated in the target districts.)

Outcome 2:Strengthened institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses

Output 2.1: Strengthened capacity of national and sub-national centres and networks to respond rapidly to extreme weather events

(Early warning systems will be improved, and community evacuation centres will be constructed or improved. Local housing sector will be enabled to mitigate exposure to risks through strengthened houses)

Outcome 7: Improved policies and regulations that promote and enforce resilience measures

Output 7: Improved integration of climate-resilience strategies into country development plans

(At a local level, climate-resilience strategies will be integrated into town master plans)

China Vietnam Vietnam Vietnam Vanguero Vanguero Vanguero Vanguero Vanguero Vanguero Vanguero Vanguero Control boutenies Country boundaries Cambodia

Figure 21: Target towns for town planning component Source: UN-Habitat

Component 2: Empowering with adaptive measures through construction of community infrastructure and retrofitting of houses

The resilience of the housing, focussing on poor households, of the target districts will be increased through retrofitting rehabilitating and retrofitting to enable households to withstand climate change impacts such as extreme weather events. The rehabilitation and retrofitting will employ Building Back Better (BBB) and other principles which will be innovations in the target districts. Furthermore, the provision of district and community level infrastructure including equipment for meteorological and hydrological stations, Coordination Centres and community evacuation centres will also enhance

adaptation.

This component aligns with the following AF outcomes:

Outcome 2: Strengthened institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses

Output 2.1: Strengthened capacity of national and sub-national centres and networks to respond rapidly to extreme weather events

(Early warning systems will be improved, and community evacuation centres will be constructed or improved. Local housing sector will be enabled to mitigate exposure to risks through improved houses)

Outcome 4: Increased adaptive capacity within relevant development sector services and infrastructure assets

Outcome 8: Support the development and diffusion of innovative adaptation practices, tools and technologies

Component 3: Strengthening community awareness and mainstreaming adaptation into policy through advocacy and knowledge management

Community knowledge of climate change adaptation and its application in the housing sector will be strengthened in the target communities. Advocacy in the housing and urban planning sector in the target provinces will strengthen multilevel governance and sustainability, and provide input into national policy and planning. These activities will enable sustainability and scaling up of the Component 2 hardware activities.

This component aligns with the following AF outcomes:

Outcome 3: Strengthened awareness and ownership of adaptation and climate risk reduction processes at local level

Outcome 7: Improved policies and regulations that promote and enforce resilience measures

Table 5: Project Components and Financing

Project/ Programme Components	Expected Concrete Outputs	Expected Outcomes	Amount (US\$)
1. Increasing adaptive capacity of	1.1.1. Capacity assessment conducted on integrating climate change into urban plans for seven district capitals	1.1. Accurate data is available to inform training for provincial and district staff.	
communities and provincial institutions to develop and sustain community	1.2.1. Risk and vulnerability assessments conducted or updated in seven district capitals	1.2. Institutions in seven district capitals have data to guide urban planning, and the capacity to conduct and update vulnerability assessments	
infrastructure and housing	1.3.1. Training provided to 1,733 provincial and district staff, as well as national government staff on mainstreaming climate adaptation into urban planning, including adaptive measures in spatial planning and land-use; and on resilient housing construction.	1.3. Officials in government institutions have capacity to develop climate resilient town master plans.	915,060
	1.4.1. Seven town level master plans developed to guide the integration of climate change adaptation into socially inclusive housing construction, spatial planning and land-use, ensuring sustainability of the houses constructed	1.4. Seven district capitals have working master plans to guide adaptive measures in urban planning, serving the towns' combined populations.	

2.2.2. 4 existing community evacuation centres assessed, and necessary improvements made, including provision of WASH facilities 2.3.1. Six Coordination Centres for Adaptation and DRR (doubling as DoNRE Offices) constructed over six provinces, serving as a base for climate change adaptation coordination. 2.4.1. New meteorological and hydrological stations constructed in 4 provinces 2.4.2. Existing meteorological and hydrological stations upgraded in 6 provinces 3. Strengthening community awareness and mainstreaming adaptation into policy through 3. 1.1. Project activities and results are captured and disseminated through dissemination workshop. 4.2.3. The Natural Resources and Environment sector has a physical presence in the district, enabling improved climate change adaptation coordination and activities. 2.4.4. People in target districts are able to be provided with climatic information and early warning of impending hazards. 3.1. Knowledge and awareness enhanced in the housing and urban planning sector at national and subnational levels, ensuring sustainability and influencing policy changes from the national level.	and rehabilitated under this project as well		
operation of meteorological and hydrological stations, and on olimate information communication and early warning system. 1.6.1. Building guidelines developed which integrate climate change resilience 1.7.1. Training provided for district officials on managing community evacuation centres. 1.8.1. Training provided for district officials on managing community evacuation centres. 1.8.1. Training of trainers to build capacity in local carpenters and masons in climatersilient construction practices, and community-level trainings. 2. Empowering with adaptive measures through constructed. 2. 1.1. 8D Demonstration resilient houses through constructed. 2. 1.2. 4. 9.42 existing houses (for 3,000 people) retrofitted rehabilitated to increase resilience to climate change impacts. 2. 2.1. 2 community evacuation centres constructed as a safe place for people to shelter in the event of textreme flooding. 2.2. 2. 4 existing community evacuation centres assessed, and necessary improvements made, including provision of WASH facilities 2.3.1. Six Coordination Centres for Adaptation and DRR (doubling as DoNRE Offices) constructed over six provinces, serving as a base for climate change adaptation coordination. 2.4.1. New meteorological and hydrological stations constructed in 4 provinces 2.4.2. Existing meteorological and hydrological stations constructed in 6 provinces 3. 3. 1.1. Project activities and results are captured and disseminated through dissemination into policy changes from the national levels, ensuring adaptation into policy changes from the national levels, ensuring adaptation into policy changes from the national levels, ensuring adaptation into policy changes from the national levels.	influencing policy changes from the		
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document for policy development on the climate policy and planning to	advocacy and 3.2.1. Strategy developed as guidance	3.2. Knowledge available to inform climate policy and planning to	

knowledge management.	integration of climate change adaptation measures in the housing sector 3.2.2. Strategy on Housing, Land and Property (HPL) – this can also include a HPL mapping to better understand the land and property-related context (https://www.sheltercluster.org/hlp).	enhance climate change adaptation in the shelter sector	
	3.3.1. IEC materials produced for target communities 3.3.2. Community awareness raising activities conducted.	3.3. Town populations aware of predicted adverse impacts of climate change, and of resilient shelter construction and adaptive measures in spatial planning and land-use	
	3.4.1. Shelter response profile (technical document) that can feed the Shelter Cluster community of practice (https://www.sheltercluster.org/global/communities-practice) and contribute to the "promoting safer building" initiative (https://www.sheltercluster.org/working-group/promoting-safer-building) 3.4.2. Manual on managing community evacuation centres 3.4.3. Technical manual on construction practices for climate-resilient housing for carpenters 3.4.4. Training guidelines produced on resilient shelter construction and adaptive measures in spatial planning and land-use for Subnational DHUP staff.	3.4. Guidelines and manuals available for future reference and use	
4.Total Output Cost:			5,681,460
5. Project/Prog	ramme Execution cost		596,396
6. Total Project	t/Programme Cost		6,277,856
7. Project/Progapplicable)	gramme Cycle Management Fee charge	ed by the Implementing Entity (if	533,618
Amount of Fin	ancing Requested		-6,811,474

Table 6: Projected Calendar:

Milestones	Expected Dates
Start of Project/Programme Implementation	August 2022
Mid-term Review (if planned)	August 2024
Project/Programme Closing	August 2026
Terminal Evaluation	July - August 2026

PART II: PROJECT / PROGRAMME JUSTIFICATION

A. Project Components

The project focuses on the enhancement of adaptive capacity through the provision of socially inclusive and resilient shelter and housing, recognising that these play a major role in enhancing local resilience, enhancing adaptive capacity to cope with climate change effects, and safeguarding rights to housing in times of climate change. The comprehensive nature of the project is a response to the intertwining factors that contribute to the high level of vulnerability in the target communities. The hardware component of the project (Component 2) is supported by capacity building and knowledge management activities to gain the greatest benefit and enable sustainability and scaling up.

ADB reports that there is poor connectivity between urban planning and environmental management. At the same time, there is a need to develop community-based processes to enhance resilience at the local level. The National Strategy for DRR reports that housing comes second to agriculture in terms of total damage from natural disasters, most of which are climate related. Housing is, therefore, a key sector in building human settlements' resilience. An initial step is ensuring DRR, CC and e Environmental concerns are taken into consideration in risk assessments and communities engaged in decisionmaking processes. The project will improve existing houses in areas prone to climate related risks using Building Back Better (BBB) principles such as improving footings to fix posts securely; replacing wooden columns with precast concrete; upgrading or replacing the main frame; adjusting or installing new walls; bracing the roof structure; upgrading or replacing the roof structure and covering and fixing securely to rafters and purlins to ensure that they are resilient to storms and floods. The community evacuation centres, coordination centres and meteorological and hydrological stations will all be built in areas assessed to be at a low risk of exposure to hazards and will be constructed or strengthened using BBB principles to ensure their resilience before responsibility for operations and maintenance is passed to government authorities such as Provincial or District Natural Resources and Environment Offices. At a global level, UN-Habitat has considerable experience in BBB and the Lao PDR office has contextualized the principles to suit the Lao context.

The project has been designed to strengthen vertical integration in the context of Lao PDR's centrally directed government. It has been developed in partnership with government authorities from the national to the district level, involving in-depth consultations in the target districts and provinces, and at the national level. The project supports the aspirations of the Natural Resources and Environment sector, which has the mandate for climate change adaptation, in improving adaptation coordination in the target provinces, as well as supporting the planning of the Housing and Urban Development sector.

The project was conceived in the aftermath of devastating floods in 2018 and 2019, which destroyed the houses, possessions and livelihoods of thousands of people, as described in Part I. A key reason for the destruction of many houses was the fragile nature of their construction. UN-Habitat has previously worked on shelter recovery projects in Lao PDR, including after the 2018 floods, and has constructed houses according to Building Back Better (BBB) principles, using plans specifically designed for local contexts. There are however, many more houses in Lao PDR which are at risk of damage or destruction, particularly from predicted floods or rainfall-induced landslides. Each time a flood destroys houses, available resources are diverted to recovery and rebuilding. This delays development plans and contributes to the non-achievement of development objectives. At a human level, in the case where there are no available resources, people are forced to stay with family, leading to overcrowding, or they build temporary houses which are susceptible to the next flood. This project will rehabilitate or construct improve houses for the poorest and most vulnerable people in district towns identified as highly vulnerable to the effects of climate change, thereby providing them with secure housing which is able to withstand floods, protecting human life, possessions, food and livelihoods. The development of town master plans will guide urban planning so that future urban planning includes measures to build housing

and shelter with maximum resilience to climate change- induced impacts. There are three components to the project.

Component 1: Increasing adaptive capacity of communities and provincial institutions to develop and sustain community infrastructure and housing

As an LDC, Lao PDR is constrained by limited resources for building capacity and for developing, implementing and updating its plans. Limited capacity and resources are key reasons for plans, including urban plans, not being followed, and for activities such as land titling being slow. Non-climatic threats such as these are an integral part of the project design, and the first component aims to strengthen capacity in the areas of urban planning, sustainable construction practices and the sustainable and inclusive management of community evacuation centres. Addressing the non-climatic threats provides not only co-benefits but is fundamentally important for the successful implementation of the adaptation measures

Adaptive capacity at provincial and district levels of Natural Resources and Environment, and Housing and Urban Planning sectors will be increased, through activities including improved urban planning that promotes and enforces resilience measures in shelter, land-use and spatial planning in seven target district capitals from six provinces, and through capacity building in adaptation practices including hydrometeorological data gathering, climate-resilient construction, and management of community evacuation centres. This capacity building is necessary to enable the hardware activities in Component 2.

A key component of the project is the development of town master plans which integrate climate change adaptation measures. These will be the foundation of future development in the towns and will ensure that district authorities are aware of climate change projections and understand the measures required to develop their town in a resilient manner. The master plans will be informed by vulnerability assessments that map areas in the town that are vulnerable to hazards. Practical training provided to local officials will ensure that they develop the skills and knowledge required to embed adaptation practices into their ongoing work. Component 1 will also include capacity building to support the infrastructure component of the project. Environmental and social considerations will be integrated into all trainings and the Adaptation Fund's Environmental and Social Policy, and Gender Policy will be used as an exemplar on which to raise awareness in local officials of these compliance issues.

The following activities will be included in Component 1.

- 1.1.1. Conducting capacity assessments on integrating climate change into urban plans for seven district capitals
- 1.2.1. Conducting or updating risk and vulnerability assessments in seven district capitals
- 1.3.1. Providing training to 1,733 provincial and district staff, as well as national government staff, on mainstreaming climate adaptation into urban planning, including adaptive measures in spatial planning and land-use; and on resilient housing construction.
- 1.4.1. Developing seven town level master plans to guide the integration of climate change adaptation into socially inclusive housing construction, spatial planning and land-use, ensuring sustainability of the houses constructed and rehabilitated under this project as well as further development interventions, and influencing policy changes from the national level.
- 1.5.1. Providing training for DMH staff on operation of meteorological and hydrological stations, and on climate information communication and early warning system.
- 1.6.1. Developing building guidelines which integrate climate change resilience
- 1.7.1. Providing training for district officials on managing community evacuation centres.
- 1.8.1. Training of trainers to build capacity in local carpenters and masons in climate-resilient construction practices, and community-level trainings.

The detailed capacity assessment will clearly identify needs in each of the seven towns regarding integrating climate change adaptation into the housing and urban planning sector. This will build on

knowledge which has been gathered prior to the submission of this proposal.

The focus of the trainings for both the Vulnerability Assessments and the master plans are the ongoing use and review of the Vulnerability Assessments and master plans, particularly as more detailed local climate change data becomes available. Floods, storms and landslides are the most visible impacts of climate change in the target areas, and concepts such as heat islands are not well known. Since the target towns are experiencing rapid growth and urbanisation, it is crucial that adaptive measures are integrated into planning and implemented now, before haphazard development takes place that cannot be undone.

The data from the national climate change vulnerability assessment will be validated in local consultations and will form exemplars for training of government officials. Some provinces have carried out a similar vulnerability assessment exercise with an emphasis on infrastructure. Although the target districts are not the same as in previous or ongoing projects, some provincial staff will have some experience of vulnerability assessment. The training will provide an opportunity for them to share their experience with other participants, to raise queries about the process that they have from their experience, and to apply this methodology to housing and urban planning processes.

As UN-Habitat has previously developed tools and guidelines for the town master plan component of the project, these will be refined and tailored to the housing sector. The standardisation of tools will aid the institutionalisation of practices. This is especially important in the Lao context where there is a high turnover of staff, often resulting in the loss of institutional knowledge.

The houseing rehabilitation improvements and construction of demonstration houses will not only provide resilient shelter for selected householders but will also demonstrate resilience in house construction to the communities in which they reside, as well as disseminating new construction skills. By training district and provincial housing and urban planning staff in resilient housing construction, the skills and techniques will be institutionalised and contribute to normative change in the expectations of local populations regarding housing.

The capacity building activities are an important part of the project. There is a significant gap between the level of knowledge at the national level and that at the local level. In addition, climate change considerations are still being mainstreamed into sectors other than the natural resources and environment sector, in which the Department of Climate Change is located. As well as the specific focus of the capacity building then, it will be an opportunity to raise awareness about climate change and its anticipated impacts.

District level workshops are a key part of this participatory project as they will bring together all local stakeholders. This is a new way of working for many stakeholders as there is a silo culture in Lao PDR where government offices in different sectors work independently of one another. Stakeholders for this proposed project include provincial, district and village authorities, Departments of Public Works and Transport, Provincial and District Offices of Natural Resources and Environment (PoNRE and DoNRE), Departments of Planning and Investment, and community members. Community members will be included at all stages of the project. Initial consultations with local authorities will select households to benefit from rehabilitated or newly constructed houses. Selection criteria are poverty and vulnerability, with beneficiaries being the poorest and most vulnerable households according to government records.

Component 2: Empowering with adaptive measures through construction of community infrastructure and retrofitting improvement of houses

The provision of district and community level infrastructure including equipment for meteorological and hydrological stations, Coordination Centres and community evacuation centres will enhance adaptation. Furthermore, the resilience of the housing stock of the target districts will be increased through rehabilitating and retrofitting houses to enable households to withstand climate change impacts such as

extreme weather events. The <u>rehabilitating and</u> retrofitting will employ Building Back Better (BBB) and other principles which will be innovations in the target districts.

This component will focus on ensuring that the poorest and most vulnerable people in the target towns have secure shelter and housing which is resilient to the impacts of climate change. Community-wide consultations will be held so that all community members have an understanding of the project aims and activities. The component also provides infrastructure so that PONREs are able to coordinate adaptation activities in the target provinces and provide accurate data to operationalise early warning systems.

The following activities will be included in Component 2:

- 2.1.1. Constructing 18 demonstration resilient houses.
- 2.1.2. Retrofitting Rehabilitating 600 existing houses (for 3,000 people) to increase resilience to climate change impacts.
- 2.1.3. 4,942 existing houses strengthened retrofitted to increase resilience to climate change impacts.
- 2.2.1. Constructing 2 community evacuation centres as a safe place for people to shelter in the event of extreme flooding.
- 2.2.2. Assessing 4 existing community evacuation centres, and making necessary improvements, including provision of WASH facilities
- 2.3.1. Constructing six Coordination Centres for Adaptation and DRR (doubling as DoNRE Offices) over six provinces, serving as a base for climate change adaptation coordination.
- 2.4.1. Constructing new meteorological and hydrological stations in 4 provinces
- 2.4.2. Upgrading existing meteorological and hydrological stations in 6 provinces

Recognising that housing construction can represent both impacts and risks, UN-Habitat adheres to the following principles:

- Advice on hazard-resistant reconstruction is critical.
- Traditional building materials and culturally acceptable forms and techniques are the foundation for rehabilitation and reconstruction and must be improved, not replaced.
- Housing solutions must be complemented by initiatives to address land use, tenure, livelihoods, and critical infrastructure and services.

These principles find different form in different contexts. After Typhoon Nock-Ten caused damage in Khammouane Province in 2011, houses were rehabilitated or rebuilt to similar designs as the damaged houses, but with improvements to strengthen them for added resilience. On the other hand, after the 2018 floods in Attapeu, the Government developed four standard designs for houses for people of different wealth levels. The houses for poor people were of a superior standard than their former houses which had been destroyed. This had a normative effect of raising expectations about housing in Attapeu and consequently, contributing to raising the standard of housing throughout the district in which they were built. This shows that there are complex social, technical and political considerations to take into account when designing housing. Accordingly, UN-Habitat has consulted with the Department of Housing and Urban Planning, as well as provincial and district authorities and people living in the target communities, to develop two house designs which are suitable for demonstration houses in the target towns. One of the designs is for houses which are raised up off the ground on pillars, while the other design is for houses which are closer to the ground. The designs take into account cultural preferences and traditions, available materials, and also the Government's development objectives. Demonstration houses will be constructed according to the most appropriate design for local conditions, with homeowners and government officials involved in the decision making.

With regard to improvements to houses, rehabilitation, supporting 600 houses, refers to extensive rehabilitation processes, including significant changes in rehabilitating structural systems, to ensure existing houses are more disaster resilient. This output will focus on houses in extremely poor condition, by for example, replacing precarious stilts using sustainable construction material, changing floors systems, replacing the main frame with improved materials, and introducing bracing elements to improve structural stability and flexibility to adapt to shocks (wire-bracing, improved distribution of structural weight).

On the contrary, retrofitting houses, supporting 4,942 houses, is not aimed at reinforcing structural systems (supporting structures). This output will target houses in relatively better condition, requiring lesser adjustments, for example, undertaking upgrade works such as cross bracing, roof upgrading, or upgrading facades to protect from heat, improve natural ventilation, and increase resilience to extreme weather.

With regard to the rehabilitation of houses, the majority of the houses will be strengthened using BBB principles, but 600 houses belonging to the very poorest households will have additional retrofitting.

UN-Habitat has developed a screening checklist to ascertain the resilience needs of the selected houses (see Annex 2). Screening results will determine the precise improvements to be made to each house. A detailed joint study with ARCADIS is planned to finalise the details of the improvements for the two types of intervention, as well as the details of the checklist which will be used to assess houses. The finalised details will be incorporated into the full project proposal. This is the first time that this process has been carried out and it is planned to refine the process for scaling in the future.

The selectin of beneficiaries will be done by local authorities prior to the project starting. For activities targeting individual households the selection of households will be made before the project starts. Selection criteria are poverty, vulnerability, and house condition. Steps are:

- 1. Target locations will be the most risk-prone areas as identified from Climate and Risk Vulnerability Assessments.
- 2. Poor households in the target locations will be selected based on the monetary and non-monetary indicators used by GoL.
- 3. Poor households' houses will be assessed using the checklist designed for the purpose.
- 4. The findings from Steps 1-3 will determine the beneficiaries. Consultations involving communities and local authorities will validate the findings and selections.
- 5. The selection decisions will be channelled from village level to town level to district level and finally to the provincial level to ensure absolute transparency in the process and methodology.

Poverty reduction is a focus of the Government and records are held of the poverty level of households within a town. These records will be used to select the beneficiaries of the house rehabilitation.

The vulnerability assessment will provide data on the locations in each town which are most at risk of climate-related hazards. Considerations of poverty and risk will be analysed with baseline housing data to select the housing beneficiaries. Setting the criteria before beneficiaries are selected and following the criteria, will ensure that the selection process is carried out in a fair and non-discriminatory manner. Beneficiaries for the demonstration houses will be selected before the houses are constructed in order to promote ownership of the project implementation, to enable them to make decisions regarding details of their house, and to enable them to participate in the construction process.

Lao PDR has been rolling out land titling, but the rollout process has been slowed by resource constraints. The project will ensure that in the project sites, land ownership is recorded at a local level by authorities by appropriate and official methods which will ensure that project benefits can be sustained.

In addition to enhancing the resilience of houses, this component will also construct community evacuation centres to uphold displaced households' right to shelter during times of disaster. The evacuation centres will be part of a disaster management system, of which awareness will be raised,

ensuring that community members know the procedure should their home be threatened, forcing their evacuation. Two community evacuation centres will be constructed in towns for which no such shelter currently exists. In the remaining four provinces, existing evacuation centres will be improved in order to guarantee safety and adequacy. This will include the provision of WASH infrastructure. A key consideration will be the safety and rights of women, children, the disabled and elderly people in the evacuation centres.



Figure 22: Location map of 6 provincial Coordination Centres doubling as DONRE offices. Source: UN-Habitat

The construction of the six Coordination Centres is a pivotal part of the project. At the district level, DoNRE is the focal point for change adaptation, and the office that drives implementation of the Climate Change Strategy and action plan, including raising awareness of climate change amongst other sectors. With no DoNRE office building in a district, there is not a physical coordination centre from which to move the climate change adaptation agenda forward, or to ensure the inclusion of local data and considerations in planning and reporting. Whether it is a shelter project or has another focus, all climate change reporting goes through DoNRE. DoNRE also has responsibilities with regards to environmental screening and assessments, and land tenure. It is, therefore, a key part of development projects, and so it is crucial that DoNRE has a coordination centre in each district. MoNRE has already secured land for the Coordination Centres (see Annex 3 for an agreement with local authorities) and will be responsible for operations and maintenance once the buildings are complete.

The final activity of Component 2 is the improvement of meteorological and hydrological stations to enable accurate data to be fed into the hydro-meteorological data collection system. This will in turn enable weather forecasting and an early warning

system to alert districts within the target provinces of impending climatic hazards. The specific provisions in each of the target provinces have been decided according to the needs of the province. Accordingly, new meteorological and hydrology stations will be provided in four of the target provinces in locations where there are not yet stations but where they are required according to the Government's planned network. In all six of the target provinces, existing stations will be provided with new equipment so that there are stations capable of providing accurate data (see Annex 4). For this activity, coordination is underway with DCC to gather and analyse data following a climate services value chain approach. An elaboration following this approach will be provided at the full proposal stage.

UN-Habitat views beneficiaries as active agents to be mobilised and supported. Therefore, local communities are at the hub of the project. In Laos, consultations are often held at the village level, where the village chief calls a meeting for all villagers. In the context of this urban project, a village is the most local administrative area within a town. Village level consultations will be held regularly throughout the project implementation, in order to update villagers on progress and to make decisions. The project aims to build enduring relationships between government officials and the communities they serve, contributing to the sustainability of the project and the officials' local knowledge.

Component 3: Strengthening community awareness and mainstreaming adaptation into policy through advocacy and knowledge management.

Community knowledge of climate change adaptation and its application in the housing sector will be strengthened in the target communities. Advocacy in the housing and urban planning sector in the target provinces will_, strengthening multilevel governance and sustainability, and provideing input into national policy and planning. These activities will enable sustainability and scaling up of the Component 2

hardware activities.

Effective knowledge management will ensure maximum gains and cost-effectiveness, as well as inclusivity in sharing outputs, progress and lessons learned with stakeholders. Making this information available will enable replication and scaling up of effective processes. The project will follow Results-Based Management (RBM) according to Adaptation Fund and UN guidelines.

Component 3 will include:

- 3.1.1. Capturing and disseminating project activities and results disseminated through dissemination workshop.
- 3.2.1. Developing a strategy as a guidance document for policy development on the integration of climate change adaptation measures in the housing sector
- 3.2.2. Strategy on Housing, Land and Property (HPL) this can also include a HPL mapping to better understand the land and property-related context (https://www.sheltercluster.org/hlp).
- 3.3.1. Producing IEC materials for target communities
- 3.3.2. Carrying out community awareness raising activities.
- 3.4.1. Developing a shelter response profile (technical document) that can feed the Shelter Cluster community of practice (https://www.sheltercluster.org/global/communities-practice) and contribute to the "promoting safer building" initiative (https://www.sheltercluster.org/working-group/promoting-safer-building)
- 3.4.2. Developing a manual on managing community evacuation centres
- 3.4.3. Developing a technical manual on construction practices for climate-resilient housing for carpenters
- 3.4.4. Producing training guidelines on resilient shelter construction and adaptive measures in spatial planning and land-use for subnational DHUP staff.

Knowledge management includes local communities. It is important that the knowledge about climate change adaptation, including resilient construction techniques, is widely available and accessible to community members. A common means of awareness raising in Lao PDR is through village meetings and word of mouth. The close working relationships between local authorities and communities will provide opportunities to ensure that the adaptation measures are understood throughout the communities to promote their adoption. The awareness raising and community consultations aim to fulfil a normative function of changing expectation and practices in housing construction so that activities begun in the project will be sustained, thereby enhancing future adaptive capacity.

Advocacy at the national level aims to influence national level policy-making. While UN-Habitat has previously contributed to national level discussion in terms of infrastructure, this project will focus on housing. It will extend the climate change adaptation discussion into the Department of Housing and Urban Planning and provide experience from the project to contribute to decision making for the Lao urban context. As a partner in this project, national level DHUP officials will be in regular contact with UN-Habitat during the project. A strategy to guide policy development on the integration of climate change adaptation measures in the shelter sector will capture key relevant learnings.

Not only will lessons learned be captured and disseminated to all levels of government, but previous lessons learned will be heeded in this project. In addition, previously developed manuals and tools will be updated and aligned with the shelter focus of the project before being added to UN-Habitat's knowledge repository and shared with relevant networks through uploading to the national level platform for climate change adaptation and mitigation learning.

B. Economic, Social and Environmental Benefits

The targeted provinces have been selected on account of the high vulnerability of their communities, and their limited institutional and infrastructure resources to implement resilience building plans. At an institutional level, the construction of Coordination Centres in the target provinces will provide a coordination centre for climate change adaptation, thereby enabling awareness raising, education, and the integration of climate change considerations into local planning. This will activate climate change

adaptation in districts where there is limited knowledge of both future scenarios and causes of climate change. Local planning which integrates climate change action will bring economic and environmental benefits through guiding the building of resilience, reducing losses from extreme weather events and protecting and restoring ecosystems. The offices will also act as a coordination point in their roles in environmental assessments, land tenure management and other environmental issues.

The project has the potential to bring economic and social benefits through protecting lives, livelihoods and infrastructure through extending the reach of early warning systems. This will be done by improving meteorological and hydrological networks to communicate accurate hydro-meteorological data from the target districts. This is of vital importance in districts which are vulnerable to extreme weather events.

The urban planning component of the project provides numerous direct and indirect benefits to the target communities. Detailed VAs and the development of town master plans will guide the trajectory of development and the improvement of living conditions in the target towns. This will bring a long-term impact, and contribute to the development of well-designed, inclusive and sustainable towns at a crucial phase of development.

At a district level, the project is designed to mitigate the losses in the housing sector which are caused by extreme weather events. Experience shows that floods. landslides and storms are the most destructive events. In previous disasters which have destroyed houses, it has fallen to the local authorities to provide funding for housing displaced people and for recovery and rebuilding. This has detracted from their funds for implementing development planning. Without the need to replace houses, this funding can contribute to achieving development goals instead of maintaining the status quo.

At a household level, resilience to extreme weather events means that people retain not only their house but also their possessions. In previous events, households have lost all their food and possessions, including tools and implements necessary for their livelihoods. This has rendered them dependent on support from local authorities or external aid, and has sometimes necessitated their relocation. With security of housing and therefore, added security of possessions, people's lives and livelihoods will not be disrupted by having to rebuild after disasters caused by extreme weather. Table 67 shows the number of direct and indirect beneficiaries of the project. In addition to direct beneficiaries, district populations will benefit from improved coordination of climate change adaptation, and improvements to the early warning system.

Table 67: Number of direct and indirect beneficiaries

Direct beneficiaries	Particulars	НН	People
Housing	Improved Housing	5,542	22 540
Housing	Demonstration houses	18	33,548
Capacity Building	Provincial and district officials		1,733
	Carpenter and mason trainings		6,944
Total direct			42 22E
beneficiaries			42,225
Indirect beneficiaries			
District populations serve	ed by Coordination Centres and meteorological and		
hydrological stations (min	nus direct beneficiaries)		164,381 188,252
Total beneficiaries			206,606 230,477

Increasing inequality is an issue of concern in Lao PDR and the poorest people are often the most impacted by extreme weather events. As the selection process described on p. 25 shows, T this project focuses on the poorest and most vulnerable people in the target towns. Security of housing and resilience to extreme weather events will mitigate recurring losses to their resources and livelihoods, enabling them to build up a buffer and improving their economic outlook.

Each of the target towns have unique characteristics, as identified in initial consultations. Table 8 provides socio-economic data on the towns, including populations, ethnic groups, key sources of income, housing typologies and key development indicators. The project is designed according to the principle of Leaving No One Behind. UN-Habitat will ensure to engage directly with all ethnic groups represented in the project area, following on from the initial consultations with all ethnic groups represented in each town. There are eleven ethnic groups in total spread over the towns with two to four in each town, as shown in Table 8. Continuing engagement with each ethnic group will ensure that their aspirations are heard and their input is incorporated into the project. Community-level data will be disaggregated by ethnic group and monitored throughout the project implementation. Members of ethnic groups will benefit from more resilient houses, and ethnic groups will be made aware of climate change and adaptation. They will also benefit from the evacuation centres, improved early warning systems and improved adaptation coordination.

Table 8: Socioeconomic data from target towns

	on target towns					
Location	Dh. a da	Afficiantly and	Vhh	No a ala a la	NA - mlan and al	Discours of S
District Capital	Pha oudom	Viengthong	Xaychamphone	Nongbok	Moonlapamok	Phouvong
Province	Bokeo	Bolikhamxai	Bolikhamxai	Khammouan	Champasak	Attapeu
Climate Change						
	Floods	Floods Storms	Floods Landslides	Floods	Floods	Floods Storms
Demographics						
Population District	45,905	35,913	10,750	53,618	37,469	13,806
Population Town: Total (M) (F)	12,824 - (M) 6,340 / (F) 6,484	8,535 - (M) 4,776 / (F) 3,759	1,913 - (M) 1,051 / (F) 862	12,416 - (M) 6,067 / (F) 6,349	8,784 - (M) 4,318 / (F) 4,466	8,279 - (M) 4,227 / (F) 4,052
Expected population in 2030	16,903	10,926	2,425	16,849	10,500	10,393
Ethnicity						
Ethnicity 1: Name, #, %	Laoloum 2,437 (19%)	Laoloum 5,121 (60%)	Toun 612 (32%)	Laoloum 10,181 (82%)	Laoloum 7,466 (85%)	Laoloum 993 (12%)
Ethnicity 2: Name, #, %	Khamou 6,027 (47%)	Khamou 1,280 (15%)	Tay 230 (12%)	Photai 2,235 (18%)	Khmer 1,318 (15%)	Brao 6,623 (80%)
Ethnicity 3: Name, #, %	Mong 1,924 (15%)	Mong 2,134 (25%)	Phong 402 (21%)			Jeng & Alak 662 (8%)
Most vulnerable Ethnic group	Khamou	Khamou	Toun, Phong	Photai	khmer	Brao
Poverty						
Number of households	2,346	1,357	283	2,301	1,632	1,639
Poor households: #,%	211 (9%)	163 (12%)	99 (35%)	1,197 (52%)	375 (23%)	770 (47%)
Poverty Index	18.75	38.10	69.40	15.27	29.00	19.93
Economy						
Average income (USD/person/year)	629,38	1,833	795	1,771		554
	Agriculture 85%	Agriculture 75%	Agriculture 80.6%	Agriculture 80%	Farming 75%	Agriculture 80%
Percentage of population deriving	Industries 10%	Labour 15%	Commerce 12.4%	Labour 8%	Industries 16%	Labour 10%
income from sector	Service 5%	Service 5%	Service 6%	Service 6%	Service 9%	Service 5%
		Commerce 5%	Labour 1.4%	Commerce 6%		Commerce 5%
Housing						
D ()	85% (Tile/ CPAC/ Concrete)	50% (Tile/ CPAC/ Concrete)	1000/ / 6	66% (Zinc)	1000(17:)	1000(17:)
Roof type	15% (Bamboo)	50% (Concrete)	100% (Grass)	34% (Tile/ CPAC/ Concrete)	100% (Zinc)	100% (Zinc)
	50%(Wood)			, , , , , , , , , , , , , , , , , , , ,		
Floor type	30%(Bamboo)	100% (Wood)	100% (Wood)	100% (Ceramic/tile)	100% (Wood)	75% (Wood)
The type	20%(Concrete)	100% (11000)	200/0 (11000)	20070 (001011110) 1110)	12075 (11004)	25% (Concrete)
Wall type	80%(Bamboo)	100% (Bamboo)	100% (Wood)	100% (Brick/ Concrete)	100% (Wood)	50% (Wood)
Water source	15%(Mountain)	50% (Mountain)	100% (Wood)	100% (Bottle/can)	100% (Wood)	50% (Well borehole
Toilet type	100% (Flush/Pour flush)	100% (Flush/Pour flush)	-	100% (Flush/Pour flush)	100% (Flush/Pour flush)	-
Energy cooking tyype	100% (Wood)	100% (Wood)	100% (Wood)	66% (Wood)	100% (Charcoal)	100% (Wood)
Percentage of households having	100/0 (17000)	100/0 (110000)	100/0 (**0000)		100% (Charcoal)	10070 (110000)
	200/	000/	4.407	000/	000/	000
electricity	98%	96%	14%	98%	98%	90%

The implementation process of the project aims to strengthen the participation of all groups in decision making which affects their community. The communities in each target town differ, so consultations will be organised for specific groups identified in each town. This will ensure that the requirements and aspirations of all groups are considered in the design of the houses and in the development of the towns. It will also build connections between DoNRE and DPWT offices, contributing to cross-sectoral coordination, which is a key challenge in climate change adaptation in Lao PDR. Connections will also be built between the government offices and local communities, also improving local coordination. In previous UN-Habitat projects, such relationships have been reported as having an enduring benefit.

Gender considerations have been incorporated into the project design. In particular, women in some ethnic groups have not traditionally been given a voice in decision-making. Consultations in each target town will include all groups. The Lao Women's Union (LWU) will be

involved, and this will also build their capacity at local levels. The facilitation of meetings by LWU representatives aims to increase the comfort and confidence of women to participate. Women's participation in decision making, and the design of houses to incorporate the needs of women are two key areas which have been identified as areas of focus. On the other hand, past experience shows that men are less likely to attend consultations during work hours, and so there is a need to organize consultations so that all community members have the opportunity to attend at a suitable time and location. A gender challenge is achieving a positive ratio of men to women in trainings. This is due to there being a lower percentage of women in technical and management positions in DPWT. An aim of the project is to increase the percentage of women gaining further skills and qualifications in the public works and transport sector. To this end, a quota will be introduced for the number of women in trainings. The quota will reflect an achievable increase from the baseline, with the intention to continue the increase in any future interventions

Specific environmental benefits will vary from town to town. In Lao PDR, ecosystem damage has exacerbated the impacts of climate change. The Vulnerability Assessments conducted through the project will assess the status of local ecosystems and the resulting data will feed into the town master plans. In this way, ecosystem protection and restoration will be integrated into the ongoing development of the towns. This is important as the populations grow and urban areas spread.

C. Cost-effectiveness of the proposed project

The project is designed to be as cost effective as possible in all areas.

In-house technical expertise.

UN-Habitat staff have the expertise in VAs, housing design, construction and urban planning to carry out the related technical aspects of the project. This reduces the need for specialist external consultants, which is a major cost in project implementation. The local office will also benefit from additional technical expertise and experience from the Headquarters and the Regional Office for Asia and the Pacific, especially from the Urban Legislation, Land and Governance Branch and in-house programmes such as RISE-UP: Resilient Settlements for the Urban Poor. In recent years, the organisation has also strengthened its expertise in Nature-based adaptation and Ecosystem-based solutions with the objective of improving the connection between cities and nature through the integration of these principles into urban planning. UN-Habitat has the capacity and technical expertise to support the executing agencies in technical aspects of the project. This will also build capacity in the executing agencies and ensure that it is retained in the sector.

Alignment with previous and concurrent projects.

Although this project is designed as a standalone intervention, it builds on outputs from previous and concurrent projects in order to achieve goals in a cost-efficient manner. UN-Habitat has a wealth of τ experience in the housing sector in Laos and this will be drawn on in this project. Training materials such as a "Building Back Better Shelter manual", will be reviewed, updated and modified to meet the requirements of the current project. It is likely that some officials at the provincial level in four provinces will have previously participated in trainings related to climate change adaptation and project implementation. There is an opportunity, therefore, for peer-to-peer sharing of experience and lessons learned. This will enhance the trainings and bring more value to the participants and their agencies.

The implementation process of the project aims to strengthen the participation of all groups in decision making which affects their community. The communities in each target town differ, so consultations will be organised for specific groups identified in each town. This will ensure that the requirements and aspirations of all groups are considered in the design of the houses and in the development of the towns. It will also build connections between DoNRE and DPWT offices, contributing to cross-sectoral coordination, which is a key challenge in climate change adaptation in Lao PDR. Connections will also be built between the government offices and local communities, also improving local coordination. In provious UN-Habitat projects, such relationships have been reported as having an enduring benefit.

Synergy and contribution from government partners

Through working in partnership with government agencies, there is potential for

synergy in resourcing, plans and budgets. By working with local partners there will not be a need to establish additional offices in the field. Relationships built with government agencies through previous projects have resulted in ongoing cooperation and alignment of resources. For this project, land tenure will be guaranteed by thethrough local systems of land tenure, which ensure security of housing as a national land titling system is still being rolled out. local authorities. This is an important factor in security in housing.

Considering Vulnerability Assessments using participatory methods, UN-Habitat has already conducted a pilot evaluation at the national level. The project will therefore build from this experience which involved strong coordination with institutional entities. Building on this foundation is a cost-effective way of using resources.

Cost-effective house designs

A major cost of the project is the hardware component. There is a trade-off between the number of houses that can be constructed and the quality of the houses. The demonstration houses will be constructed to withstand the current and anticipated impacts of extreme weather events in their location. They will also be constructed according to cultural preferences and traditions in the location. These differ over the provinces, as does the cost of the different types of houses. The materials available also differ in different locations as does the transport cost of delivering materials. For these reasons, the house costs will not be uniform over the target towns. In-depth consultations with stakeholders will determine the most appropriate design and materials for each location. UN-Habitat has proven experience of cost-effectiveness in construction. For example, after the 2018 floods, UN-Habitat constructed houses at unit costs ranging from USD 14,960.44 to USD 17,743.28, depending on contracts negotiated with individual construction companies. The house design was improved from a government provided design which was used by a Thai Government project, for which the unit cost was USD 25,000. A third project constructed one, two, three and four bedroomed houses at an average unit cost of USD 35,000. In comparison to the other two projects, the UN-Habitat construction was highly cost-effective. UN-Habitat will bring the same expertise in cost-effectiveness to this project.

Implementation Modality

UN-Habitat has implemented projects through its People's Process modality, consisting of five steps as shown below.



As well as providing multiple benefits in other areas, The People's Process has proven to be extremely cost-effective with international studies showing savings of approximately 30%. Mobilising communities to participate in and own their own development process results in contributions of labour and a vested interest in the success of the project. As well as partnering with government agencies, target communities are seen as essential partners in this project. Local people will be employed wherever possible in the project implementation. The main need for employees will be for the house construction. By gaining experience and understanding of the need to take adaptive measures, local builders will gain the capacity to continue building resilience into housing after the project has ended, resulting in ongoing cost-effective construction practices. Beneficiaries of the newly constructed houses will be mobilised to contribute labour. This also aims to increase their sense of ownership of the houses.

COVID-19

As far as project implementation is concerned, there are risks of delays in implementation due to COVID-19 related restrictions, and risks of shortages in construction supplies due to global supply

shortages. These risks are external to the project and will be taken into account in the design, procurement process and implementation schedule. The project has the opportunity to increase communities' socio-economic and psycho-social resilience through the provision of secure housing, particularly since studies have shown that housing is the sector to suffer the second highest amount of damage in natural disasters, with only agriculture sustaining higher damage. It is also important that there is secure housing and shelter in the event of extreme weather, to prevent displaced people crowding into relatives' houses or living in unsanitary conditions which escalate the transmission of COVID-19 and other illnesses.

D. Consistency with national or sub-national sustainable development strategies.

The project aligns with national and sub-national development objectives. A key principle of climate change response in Lao PDR is mainstreaming climate change into strategies and plans. The Strategy on Climate Change of the Lao PDR (2010) introduces six guiding principles as noted in Table 79, which shows relevant aspects of national planning. The proposed project aligns especially with Principles 1, 2, 3 and 6 through its integrating climate change into town planning, building capacity in government institutions and raising awareness in the community. In keeping with the principle of mainstreaming, the climate change strategy is being incorporated into the 9th National Socioeconomic Development Plan. Relevant links to the 9th NSEDP are shown in Table 79. A vision to 2030 and a ten-year strategy to 2025 have a focus on sustainability and green growth, and climate change adaptation is included in the NSEDP. However, despite a strong focus at national level, there is a lag in climate change being integrated into sector planning.

The Climate Change Action Plan 2013-2020 identifies seven priority sectors of which one is transport and urban development. The action plan places a high priority on, "Mainstream[ing] climate change into sector policies, strategies and development plans." However, this has not been completed and the 2020 Nationally Determined Contribution (NDC) states that priority adaptation objectives in key sectors as set out in the 2015 Intended Nationally Determined Contribution (INDC) remain the same, however, the emphasis is on their implementation and measurement, reporting and verification. As shown in Table 79, a sectoral adaptation strategy and action plan for the Transport and Urban Planning sector is still a priority, with a target completion date of 2025. The lengthy period of time that it is taking to implement priority objectives is partly due to the needs expressed in climate change documents such as the NDC, which cites, "weak institutional capacity to mainstream climate change into development plans or translate them into actionable measures at local level." The proposed project's capacity building will contribute to planning and implementing adaptation measures.

The urban development strategic plan has priorities which include urban plans, participatory planning, gender equality amongst staff, and improving coordination between the ministry, sectors, provincial and district levels. The proposed project will contribute to all of these priorities. Relevant priorities in the urban development strategy are shown in Table 7.

Lao PDR has recently submitted its National Progress Report (NPR) on the Implementation of the New Urban Agenda. In line with priorities outlined above, the NPR highlighted key suggested indicators related to the access to adequate and affordable housing through (i) ownership, (ii) habitability, (iii) adequate structure, (iv) infrastructure and services connectivity, and (v) climate resilience.

The project also supports the implementation of MoNRE planning. Currently, 35 of the 145 districts of Lao PDR do not have a DoNRE office. A MoNRE five-year target is to build DoNRE offices in all 35 of these districts, thereby facilitating climate change adaptation in all districts. Similarly, there are targets for completing the hydro-meteorological network. The project will contribute to meeting these targets and enable the implementation of government planning.

At the provincial level, all plans, policies and strategies are developed in accordance with the NSEDP – while climate action plans/policies at the provincial level are not well established. The priorities of the Provincial SEDP 2021-2025 include ensuring green and sustainable development, in line with the

National Sustainable Development Goals (SDGs), with economic development at the centre and ensuring harmony between economic development, socio-cultural and environmental protection, responding to natural disasters in a timely manner and addressing poverty and development issues. Therefore, in line with these priorities, climate change and building resilience are both identified as key areas for subnational policy making.

At the district level, SEDPs for the districts in which the project target towns are located are also in place to guide priority climate resilience infrastructure investments. Consultations with local authorities confirmed that the project is aligned in all the target towns with the existing local poverty-reduction, environmental, and housing and urban planning strategies, although five of the six target towns did not have a certified urban plan.

Table 79: Links to development and climate change planning

1 able + 3 . Litths to development and climate	change planning
9th NSEDP (2021 - 2025)	
Outcome 4: Environmental	Output 1: Sustainable natural resource use and management
Protection and Natural Disaster	Output 2: Green growth and climate change actions management
Risk Reduction	<u>Urban planning</u> : Developing clean, beautiful, green and liveable cities
	[] by paying attention to urban design and development, urban building
	construction in municipal areas of provinces, districts and communities
	with an aim for having green, liveable, and arts [] that have climate
	resilient infrastructures; (p.42)
	Output 3: Enhance prevention, control and post-disaster recovery
	Climate change adaptation: Systematically mainstream climate change
	adaptation and natural disasters mitigation measures into sectoral and
	local development plans (p.43)
Outcome 5: Robust infrastructure	Output 4: Developed urban and special economic zone to become a
development, utilisation of the	production, investment, trade and tourism base to enable regional and
country's potentials and strategic	international integration
location, and active engagement in	<u>Urban infrastructure</u> : Continue to improve and build drainage and flood
the regional and international	protection systems in cities [] to ensure that cities have a good
cooperation and integration	ecosystem and resilience to climate change (p.49);
Notice of Adoptation December	a of A ation (NIA D A) (0040)

National Adaptation Programme of Action (NAPA) (2010)

Objectives to 2020:

- 3. Ensure that Lao PDR has sufficient regulations and laws to mitigate the impacts of disasters on individuals, communities, society and the economy of the country;
- 4. Ensure that knowledge about disaster management and environmental protection is in line with, and integrated into, all development issues and that general public awareness is raised

Climate Change Action Plan 2013-2020

Mainstream climate change into sector policies, strategies and development plans p. 5

Conduct climate risk audits for key infrastructure services; p11

Promote awareness on climate change and related environment and disaster management for officials at all government levels; p17

Nationally Determined Contribution (NDC) 2020

<u>Long-term</u>: Increase the resilience of urban development and infrastructure to climate change 2025 Shorter Term Target:

Transport and Urban Development: Develop sectoral adaptation strategy and action plan including results-based management framework

10 years Strategic Plan for Urban Development (2016-2025)

Overviews

- 1) Prioritise level of city in the country to be developed. Layout the vision of the urban development plan at all district and city level; ensuring the implementation follows the plans.
- 5) Strengthen capacity building of staff in the central and local for service delivery, encourage participation from various stakeholders during the planning and implementation.

General Achievement Targets

1) Urban development plan should be prepared by all cities.

- 3) In each individual province, try to promote 1 or 2 districts that have high potential for social economic or social security.
- 4) The government should ensure citizens have access to proper housing, basic sanitation facility, and show willingness to participate in development.
- 5) Ensure 148 districts in Lao PDR follow the urban development plan and legislation in in managing the land use and housing system.

Specific Achievement Targets

Urban Planning:

- 3) Prepare detailed design for the new city to be aligned with concept of being green city, environmental sustainability, climate resilience to be achieved over 50% by 2025.
- 4) Prepare detailed design by applying the participatory approach and integrated land use planning through efficiently use of natural resources to be achieved over 80% by 2025.

Urban Housing:

- 4) Improve management and monitoring system in managing the housing construction.
- 5) Strengthen capacity of local resources to be able to move forward within local and international level.

Capacity Strengthening for Urban Development

- 1) Develop system where policy, legislation relates to urban planning are in place, particularly, housing law, land use urban planning regulation, construction management, environmental protection in urban area.
- 2) Improve the capacity building of central and local staff in planning, monitoring and evaluation.
- 4) Enhance capacity of local staff to enable them to manage city development plan and implementation. Encourage gender equality.
- 5) Strengthen coordinating mechanism between the ministry, sectors, provincial and district levels to align with government decentralized policy.

Working Plan 3: Urban Housing Development

Review national policy, improve quality of accommodation, sanitation and security

Develop quality control system to monitor construction/structure quality

The Law on Meteorology and Hydrology (2017)

Article 9. Contents of Meteorological and Hydrological Strategy: The meteorological and hydrological strategy contains:

- 1. The expansion and improvement of the network of meteorological and hydrological stations and the national warning centre;
- 2. The provision of necessary equipment and technology to meteorological and hydrological activities;

Natural Resources and Environment Strategy, 10 Years 2016-2025

- 2.1. Promote the implementation of land use master planning and ISP [Integrated spatial planning] in the sustainable improvement and development of cities and rural areas;
- 3.1. Mainstreaming climate change adaptation and mitigation and disaster management into relevant sector policies, program and action plans;
- 3.2. Implement research programs to study and disseminate the updates climate change scientific data and develop maps of vulnerable and high-risk disaster areas to support in policy and strategy planning, national socio-economic development plans of line sectors at central and local levels and for people livelihood;
- 3.3. Implement public awareness raising programs on climate change and related impacts to ensure the effective use of local resources, appropriate governance arrangements and community participation in CC adaptation and disaster management and prevention;
- 3.4. Implement effective and efficient disaster protection and prevention measures and management system including preparedness, warning, protection, rescue, recover and rehabilitation systems, to ensure the protection and relocation of people and valuable assets in time.

E. Relevant national technical standards

UN-Habitat and the executing entities will ensure that the project complies with all relevant standards and regulations.

The main component which is expected to trigger environmental and social principles is Component 2, which involves construction. Of the three types of construction, the Coordination Centres will follow the attemplate prepared by MoNRE. Sites have already been obtained for the offices, in alignment with land

and environmental laws and regulations. Agreements for the land are shown in <u>Annex 3.</u> MoNRE will also ensure that national safeguarding requirements are met. This process is underway with Preliminary Study Reports on Environmental, Social and Natural Impacts being already completed for the proposed construction. The demonstration houses and <u>rehabilitation improvement</u> of existing houses will adhere to national and local regulations, and the executing entity is MPWT, which is in charge of construction regulations and codes.

Adaptation Fund Environmental and Social principles will be considered in all components of the project. The project is also required to comply with UN-Habitat's 2021 Environmental and Social Safeguards System.

Table 10: Relevant rules, regulations, standards and procedures

Expected	nt rules, regulations, standards and procedures	
concrete	Relevant rules, regulations,	Compliance,
Output/		procedures and
Intervention	standards and procedures	authorizing offices
Output 1.1.1.	Lao PDR Land Law (amended), No. 70	MONRE has overall oversight of the Land Law.
Capacity	/NA, dated 21 June, 2019.	The project has complied by gaining consent for
assessment	Decree on Sam Sang, No. 9/PMO,	construction on land which has been zoned for
conducted	dated 2012, related to	construction of public buildings or private
on	district and provincial regulations, in	residences (in the case of demonstration
integrating	conjunction with the Department of	houses)
climate	Planning and Investment;	Sam Sang is a devolution policy through which
change into	Lao PDR Urban Planning Law, No.:	all sectors strengthen local levels. The project
urban plans	327/P, dated 2017	complies by partnering with and building
for seven	Lao PDR Decree on Climate Change,	capacity in district and provincial authorities.
district	No. 321/PMO, dated 18 September,	The Urban Planning Law is overseen by
capitals	2019	MPWT. The project supports resilient urban
Output 1.2.1.		planning in alignment with the law
Risk and		MONRE is responsible for the Decree on
vulnerability		Climate Change. The project supports the
assessments		decree through actions such as vulnerability
conducted or		assessment and mapping, raising awareness of
updated in		adaptation.
seven district		
capitals		
Output 1.3.1.		
Training provided to		
district.		
provincial		
and national		
government		
staff on		
mainstreami		
ng climate		
adaptation		
into urban		
planning .		
Output 1.4.1-		
Seven town		
level master		
plans		
developed to		
guide the		
integration of		

	1	
climate		
change		
adaptation		
into socially		
inclusive		
housing		
construction,		
spatial		
planning and		
land-use.		
ensuring		
sustainability		
of the		
houses		
constructed		
and		
rehabilitated		
under this		
project as		
well as		
further		
development		
interventions,		
and		
influencing		
policy		
changes		
from the		
national		
level. .		
	Lee DDD Lew on Metaerology and	Oversight of the Law on Metaeralagy and
Output 1.5.1.	Lao PDR Law on Meteorology and	Oversight of the Law on Meteorology and
Output 1.5.1. Training	Hydrology, No. 36/NA, dated 13	Hydrology falls under MONRE's mandate. <u>The</u>
Output 1.5.1. Training provided for	Hydrology, No. 36/NA, dated 13 November, 2017	Hydrology falls under MONRE's mandate. <u>The project contributes to implementation of the law,</u>
Output 1.5.1. Training provided for DMH staff on	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of
Output 1.5.1. Training provided for DMH staff on operation of	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and
Output 1.5.1. Training provided for DMH staff on operation of meteorologic	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati on and early	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati on and early warning	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati on and early warning system.	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati on and early warning system. Output 2.4.1.	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati on and early warning system. Output 2.4.1. New	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati on and early warning system. Output 2.4.1. New automatic	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati on and early warning system. Output 2.4.1. New automatic meteorologic	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati on and early warning system. Output 2.4.1. New automatic meteorologic al and	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati on and early warning system. Output 2.4.1. New automatic meteorologic al and hydrological	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati on and early warning system. Output 2.4.1. New automatic meteorologic al and hydrological stations	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati on and early warning system. Output 2.4.1. New automatic meteorologic al and hydrological stations constructed	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati on and early warning system. Output 2.4.1. New automatic meteorologic al and hydrological stations constructed in 4	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati on and early warning system. Output 2.4.1. New automatic meteorologic al and hydrological stations constructed in 4 provinces	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati on and early warning system. Output 2.4.1. New automatic meteorologic al and hydrological stations constructed in 4 provinces Output 2.4.2.	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give
Output 1.5.1. Training provided for DMH staff on operation of meteorologic al and hydrological stations, and on climate information communicati on and early warning system. Output 2.4.1. New automatic meteorologic al and hydrological stations constructed in 4 provinces	Hydrology, No. 36/NA, dated 13 November, 2017 Agreement on Management of Meteorological and Hydrological Stations, No. 6748/MONRE, dated 12	Hydrology falls under MONRE's mandate. The project contributes to implementation of the law, which involves improvement of the network of meteorological and hydrological stations, and the responsibility of local authorities to give

al and		
hydrological		
stations		
upgraded in		
6 provinces		
•		
Output 1.6.1.	Lao PDR Construction Law. No.:	MPWT has oversight of the Construction Law.
Building	159/LPDR, dated 2009.	
guidelines		
developed		
which		
integrate		
climate		
change		
resilience		
Output 2.1.1.	Lao PDR Land Law(amended), No. 70	The Land Law is overseen by MoNRE. For this
Demonstratio	/NA, dated 21 June 2019;	project, land has already been obtained for
n resilient	Lao PDR Construction Law. No.:	Coordination Centres doubling as DoNRE
houses	159/LPDR, dated 2009;	offices, in alignment with the Land Laws of 2003
constructed.	The Lao National Unexploded	or 2019, depending on the date of agreement
Output 2.1.2.	Ordnance Programme, which follows	concerning the land.
Existing	IMAS – International Mine Action	The Construction Law is overseen by MPWT.
houses	Standards, under the National	MPWT also has oversight of Building Codes
rehabilitated	Regulatory Authority (NRA) for the	and Building Control. Any construction activities
to increase	UXO/Mine Action and UXO Lao, which	will comply with building codes.
resilience to	adopted SOPs – Standard Operating	Since some target districts are at risk from
climate	Procedures;	Unexploded Ordinance, UN-Habitat will work
change	Lao PDR Initial Environmental	with UXO Lao and the National Regulatory
impacts.	Examination (IEE) and Environmental	Authority for UXO, to conduct UXO risk
Output 2.2.1.	and Social Impact Assessment (ESIA):	assessments in the project towns. If necessary,
2 community	Article 21 of the Law on Environmental	UN-Habitat will survey the target areas and
evacuation	Protection (Amended) No. 29/NA,	clear the risk areas.
centres	dated 18 December 2012;	Lao PDR IEE and ESIA: According to the laws
constructed	Decree on Environmental Impact	and decrees, Lao PDR groups activities into (1)
as a safe	Assessment No. 21/PMO, dated 31	projects with severe environmental and social
place for	January 2019;	impacts and (2) projects without severe
people to	Agreement on Environmental	environmental and social impacts. The project
shelter in the	Monitoring and Evaluation of Projects	falls into the second category, and requires an
event of	and Activities of Natural Resources	Initial Environmental Examination (IEE) .
extreme	and Environment Sector, No.	The preject complies with the Lew on Discotor
flooding. Output 2.2.2-	2319/MONRE, dated 26 May 2021; The Instruction on Initial Environmental	The project complies with the Law on Disaster Risk Management as it builds resilience to
4 existing		climate related hazards.
community	Examination (IEE) of the Investment Projects and Activities	Cilitiate Telateu Hazarus.
evacuation	No.8029/MONRE dated 17 December	The Decision on Construction Management has
centres	2013, and Instruction on Environment	been established by MPWT. The project will
assessed	and Social Impact Assessment of the	comply with licensing regulations for
and	Investment Projects and Activities	construction and design, including design
necessary	No.8030/MONRE dated 17 December	standards for ic projects.
improvement	2013;	<u>sandardo for lo projecto.</u>
s made.	Law on Disaster Risk Management,	The project will comply with the Law on National
including	No. 262/NA, dated 05 Aug 2019;	Heritage by promoting local design features into
provision of	Decision on Construction	construction, and by incorporating consideration
WASH	Management, 2019;	of physical features into urban planning.
infrastructure	Law No. 08/NA on National Heritage,	
Output 2.3.1.	dated 9 December 2005.	
Six District		
Offices of		
	I	I .

Natural		
Resources		
and		
Environment		
constructed		
over six		
provinces,		
serving as a		
base for		
climate		
change		
adaptation		
coordination		
at the district		
level		
	No environmental and social principles	
Output 3.1.	are expected to be triggered as a	
Project	result of these actions.	
activities and		
results are		
captured and		
disseminated		
Output 3.3.		
Production of		
IEC		
materials for		
target		
communities		
3.4.		
Community		
awareness		
raising	1	
activities		

F. Duplication of project with other funding sources.

This project proposal has been prepared in consultation with the Ministry of Public Works and Transport (MPWT) and with the Ministry of Natural Resources and Environment (MoNRE). MoNRE has the mandate for climate change and houses the focal point for the Adaptation Fund. MPWT has the mandate for housing and urban planning. These two ministries are responsible for coordinating interventions in their respective sectors and have been actively engaged in the project design. Both have vetted the project proposal to ensure there is no overlap with other interventions.

Two criteria which distinguish this project are the type of target settlements and the sector (housing). The Law on Urban Planning (2017) classifies towns and cities as follows:

- 1. Vientiane Capital City;
- 2. Cities (Kaysone Phomvihane, Pakse, Luang Prabang)
- 3. Municipalities
- 4. Towns (centre of a district)
- 5. Town Communities (centre of large villages or village clusters (kum ban)⁶²

⁶² Michael Epprecht, Nicholas Bosoni, and Daniel Hayward, 'Urbanization Processes in the Lao PDR: Processes, Challenges and Opportunities' (Centre for Development and Environment, University of Bern, Switzerland, 2018), https://www.shareweb.ch/site/Poverty-Wellbeing/equality-equity-inclusion/Documents/Lao Urbanization Study CDE final.pdf.

Most projects focus on one level of town. For example, UN-Habitat has an ongoing project focussing on rural villages and another focussing on towns along the east-west corridor. Many projects focus on either the cities, or rural villages, yet much of the urban growth is occurring in towns such as the enes-district-capitals targeted by this project. These towns often fall into a gap in resourcing by external projects.

The second distinguishing feature of this project is that it targets the housing sector. Although there are projects targeting transport or infrastructure, and despite the fact that the housing sector sustains the second highest amount of damage from natural disasters of all sectors,—there is no current project focussing on housing, apart from a localised recovery project in Attapeu which is still rebuilding after the 2018 floods. Partners in the project will provide in-kind contributions, and the project will be aligned with any other urban development work which may take place in the target towns.

There are several projects focussing on green and sustainable urban areas. However, these are mainly in cities and are not in the same location as the towns targeted by this project. There are also projects with a climate adaptation focus. Table <u>811</u> shows urban and climate change adaptation projects.

Table 811: Projects in urban or climate change sectors

Implementin g Agency	Project, Funding Amount and Donor (if known) (All funding amounts in USD)	Timeline	AdditionalInformation
ADB	Flood and Drought Mitigation and Management Project	Concept cleared in Oct 2020. Fact finding in Sept 2021.	Agriculture, natural resources and rural development in Belikhamxai, Khammouane and Vientiane Capital.
	Sustainable Rural Infrastructure and Watershed Management Sector Project Grants: ADB \$5,000,000 EU \$4.460,000 Loan: ADB \$40 million	Signed Oct 2019 Close Sept 2027	Houaphan, Luang Prabang, Vientiane, Xiangkhouang
	Greater Mekong Subregion Climate Change and Environmental Sustainability Program \$5,000,000	Dec 2019 - Mar 2025	Includes "strengthening capacities to mainstream climate and disaster resilience in planning and to climate-proof infrastructure investments"
	Greater Mekong Subregion East-West Economic Corridor Towns Development Project Grants: \$14,868,000 Loan: \$26,600,000 Pakse Urban Environmental Improvement	Jan 2013 Dec 2021 Signed Aug 2012	Includes institutional capacity building. Target towns are Kaysone Phomvihane, Phine and Dansavanh Targets Pakse City.
	Project Grant: 4 3,250,000 Loan: \$24,250,000	Glose Dec 2021	Includes capacity building in (i) provincial urban planning and services and (ii) project management,
	<u>Urban Environment Investment Project</u> <u>Loan: \$35,000,000</u>	Concept cleared Nov 2020. Fact finding in April 2022	Urban infrastructure sector. Targets cities. Includes (i)) provincial and city capacity building in project management; and, (ii) improving women's participation in MPWT employment and leadership roles.
World Bank	<u>Lao PDR Southeast Asia Disaster Risk</u> <u>Management Project</u> \$31,000,000	July 2017 – Dec 2024	Reducing the impacts of flooding in Muang Xay and enhancing the Government's capacity to

	Management \$25,000,000 UN- Environment Environment Building resili ecosystem-b Green Climat through Ed (EbA) in the (\$1.5 million Building the government			coutheast Asia Disaster Risk t Project additional financing ionce of urban populations with ased solutions in Lao PDR te Fund \$11,500,000 ate resilience of urban systems cosystem-based Adaptation Asia-Pacific region, \$6 million in Laos), GEF capacity of the Lao PDR to advance the National Planning process, 3,552,969	Approved Dec 2019 June 2020 — June 2025 2018 — 2022 48-month project which was approved in		and adaptation in agriculture	
	UNDP		Infrastructure	vernance for Small Scale Rural e and Disaster Preparedness in Climate, \$5.5m, GEF-LDCF	December for implementat 2013-2017		and land use, and water resources sectors. Complete project, worked in nearby Saravan and Sekong projects	
	UN-Habitat Building clin capacities of PDR Adaptation F		capacities of PDR Adaptation F	nate and disaster resilience vulnerable small towns in Lao und \$5,500,000 nd Disaster Resilience in	2020 - 2024 2017 - 202		Targets Sayphouthong and Sethamouak in Savannakhet Province Targets small settlements	
	emerging hadaptation ICLEI Urban LED: €6m (across		Adaptation Urban LED	uman settlements project Fund \$4,500,000 S II s 8 countries, of which Laos	2017-2021		in Attapeu, Sekong and Saravan Provinces Works in Savannakhet and Pakse cities, but not the target districts	
	World (WB) United Office Disaster Reduction	for Risk	Reinforcing the capacities of meteorological and hydrological services and enhancing the early warning systems in Cambodia and Lao People's Democratic Republic (CREWS Cambodia and Lao PDR)		July 2021 July 2025		Includes knowledge, capacity building, monitoring and evaluation but no infrastructure. The CREWS project will complement the DMH component of this project.	
eme icy	nting	Amoun and Tir (All fur		Focus/project description		_	rgies with the proposed vention	
	Flood and Drought Mitigation and Management Project Concept cleared in Oct 2020. Fact finding in Sept 2021.		nent Project cleared in Oct act finding in	Agriculture, natural resources and rural development in Bolikhamxai, Khammouane and Vientiane Capital.		-		
	Sustainable Rural Infrastructure and Watershed Management Sector Project Grants: ADB \$5,000,000 EU \$4,460,000 Loan: ADB \$40 million		ble Rural acture and ed ment Sector ADB 60,000	Addresses issues of PRI and watershed management in mountainous provinces of Northern Lao PDR by using integrated land use planning that integrates efficient, sustainable and climate resilient rural infrastructure, and feasible watershed protection measures. Geographical focus: Houaphan, Luang Prabang, Vientiane, Xiangkhouang		appro outco mana while integr	proposed project will build from the project wach and lessons learned, especially me 2 aiming at improving land use gement within the PRI scheme watersheds, complementing this initiative by rating cross-sectoral approaches with a on land use.	

<u>ADB</u>

	Signed Oct 2019 Close Sept 2027		
	Greater Mekong Subregion East-West Economic Corridor Towns Development Project Grants: \$14,868,000 Loan: \$26,600,000 Jan 2013 – Dec 2021	Enhancing the competitiveness of towns along the East West Economic Corridor (EWEC), complementing work on trade facilitation and cross-border trade agreements. The project will transform three corridor towns into economic hubs by improving urban environmental infrastructure and strengthening the institutional capacity of provincial and local authorities.	The town planning outcome of the proposed project will benefit from this initiative, and review tools and mechanisms developed. However, the proposed project aims at developing cross-sectoral urban development, with equal focus on social, environmental and economic benefits.
World Bank	Lao PDR Southeast Asia Disaster Risk Management Project \$31,000,000 July 2017 – Dec 2024	Reduce the impacts of flooding in Muang Xay and enhance the Government's capacity to provide hydro-meteorological services and disaster response. any other necessary implementation arrangements.	In line with this project, the proposed intervention will strengthen delivered outcomes, especially on reliable hydro-meteorological services. By vertically integrating these services through capacity building activities for DMH staff and the provision of meteorological and hydrological stations, the proposed project will ensure local communities have access to early warning information to improve resilience and disaster response.
UN-Environment	Building resilience of urban populations with ecosystem-based solutions in Lao PDR Green Climate Fund \$11,500,000 June 2020 –June 2025	Addressing impacts of climate change-induced floods on urban areas in Laos through integrated flood management that includes urban ecosystem-based adaptation (EbA) in four major cities. UN-Habitat will participate through developing capacities on EbA concepts with a focus on their application in master planning processes, iterative planning and applications at the local level, as well as linking spatial planning with the planning of investments.	UN-Habitat has extensive expertise in adaptation planning measures for settlements development and investments opportunities to advance local adaptation, which will benefit the proposed intervention.
<u>Programme</u>	Building climate resilience of urban systems through Ecosystem-based Adaptation (EbA) in the Asia-Pacific region, \$6 million (\$1.5 million in Laos), GEF 2018 – 2022	Ecosystem-based approaches to Adaptation (EbA) to reduce the vulnerability of urban and peri-urban communities to climate change. Vulnerability is reduced by protecting, maintaining and rehabilitating priority ecosystems. UN-Habitat has been a partner and has provided support in building capacity to mainstream EbA approaches into urban development.	The proposed project will benefit through integrating EbA perspectives into capacity building. For the town planning component of the proposed intervention, lessons learned from the UNEP project and experience in working with local institutions to mainstream EbA into planning, will enable the development of approaches which enhance implementation efficiency and sustainability.
	Building the capacity of the Lao PDR government to advance the National Adaptation Planning process, 3,552,969 USD, GEF, 48-month project which was approved in December 2020 for implementation	Institutional and technical capacity building to advance the NAP in Lao PDR and integrate climate change adaptation into national and sectoral planning, financing and coordinated implementation.	While this GEF project focuses on institutional capacity building, with a strong focus on coordination (outcome 1), the proposed project will complement this by increasing policymakers and decision-makers awareness of climate vulnerability, gender and inclusion, and adaptation planning, within human settlements contexts.
<u>UNDP</u>	Effective Governance for Small Scale Rural Infrastructure and Disaster	Improving local administrative systems affecting small-scale rural infrastructure (including water and disaster preparedness) through participatory decision making.	The proposed project will benefit from mechanisms developed to enhance capacities of district planners to undertake climate change risk assessment.

<u>UN-Habitat</u>	Preparedness in a Changing Climate \$5.5m, GEF-LDCF 2013-2017 Building climate and disaster resilience capacities of vulnerable small towns in Lao PDR Adaptation Fund \$5.500,000 2020 - 2024	Building climate resilience in small towns along the EWEC in Lao PDR, with a focus on Savannakhet province. This will be achieved by providing climate-resilient water infrastructure and mainstreaming climate change into urban planning. A rapid vulnerability assessment has been carried out in each target settlement, forming the basis of an action plan and laying the foundation to mainstream climate action into urban planning.	By focusing on different provinces, the proposed project will complement this initiative. This project was also an entry point to develop a methodology for deploying vulnerability assessments. The proposed intervention builds on lessons learned and tools developed in this project, particularly for community engagement, data collection and mainstreaming adaptation into planning. While this AF project focused on water infrastructure, the proposed project will encompass various aspects of settlements development with a focus on housing, with a multi-disciplinary approach to avoid sectoral division.
	Climate and Disaster Resilience in emerging human settlements project Adaptation Fund \$4.500,000 2017 - 2021	"Enhance[ing] the climate and disaster resilience of the most vulnerable human settlements in Southern Laos (Sekong, Saravane, Attapeu) by increasing sustainable access to basic infrastructure systems and services, emphasizing resilience to storms, floods, droughts, landslides and disease outbreaks". The project aims to ensure communities can plan, construct and maintain resilient water-, drainage- and sanitation-, related infrastructure systems. This project focused on building capacity at the human settlement and community level, along with the physical construction and improvement of climate and disaster-resilient infrastructure systems.	As for the previous discussed AF project, UN-Habitat proposed project will continue the work conducted through this AF grant at the national level. While this AF project focused on community engagement and small-scale water infrastructures development to advance resilience in Southern Laos, the proposed intervention aims to improve adaptation planning, and housing resilience. Consequently, the proposed project will build from this AF project experience, especially the methodology developed to conduct vulnerability assessments.
World Bank and UN Office for Disaster Risk Reduction (UNDRR)	Reinforcing the capacities of meteorological and hydrological services and enhancing the early warning systems in Cambodia and Lao People's Democratic Republic (CREWS Cambodia and Lao PDR) July 2021 – July 2025	Enhancing the capacities of national and regional stakeholders/institutions to provide hydrometeorological, early action and response services to ensure that vulnerable populations in Cambodia and Lao PDR are reached through effective and inclusive risk-informed early warning services.	This project includes knowledge, capacity building, monitoring and evaluation processes but does not involve any infrastructure development component. The proposed project will complement the DMH component of this project, by ensuring national initiatives on meteorological and hydrological services are vertically scaled down to the local level.

G. Learning and knowledge management

Effective learning and knowledge management is an essential part of providing maximum value from a project. For this project, knowledge management not only refers to knowledge acquired through the project, it also covers the use of knowledge which has been gained from previous and other ongoing projects by UN-Habitat or other development partners. New lessons will be added to existing knowledge repositories so that they are continually growing and updated. Knowledge management will be included in capacity building on project implementation with the aim of mainstreaming it into practices at the local level.

In Lao PDR, information is not easily accessible. Many official documents are not available online and it is not clear which office holds them. As a result, it is time-consuming to source data. The project will, therefore, support platforms that are developing to share information at the national level.

At the international level, UN-Habitat will share lessons learned with the Adaptation Fund through the scheduled evaluations of the project. Evaluations will be carried out in Lao PDR but shared with the regional office and headquarters of UN-Habitat. Lessons learned and relevant resources will be shared on UN-Habitat's website. UN-Habitat is also running the #ClimateAction4Cities Campaign which provides a space to share actions taken in cities and communities. The Urban Thinkers Campus is a platform for critical exchange on urbanisation challenges with a 2021 focus on Climate Action Solutions. A thorough appraisal will be made of the climate change and urban related platforms to identify the most appropriate on which to share information from the project. The identified platforms will be included in the Knowledge Management strategy. UN-Habitat will capture data through the project monitoring system and will collect written data, photos and videos to clearly display the project.

UN-Habitat will also support international shelter networks. An example is through the sharing of a technical shelter response profile with the Shelter Cluster community of practice. This may also contribute to the "promoting safer building" initiative.

While data of a more general nature may be of interest internationally, there will be data generated which will be of use to government and development partners within Lao PDR. This includes the VAs, house designs, town profiles, guidelines, manuals and house screening checklist. This data will be shared with government partners and made available on national platforms and through networks of development partners through such media as a well-used Google group. A workshop with key stakeholders will be held at the end of the project to disseminate lessons learned and to collect recommendations for improvements in design or implementation. With stakeholders from the national to the local level present, the workshop will be an opportunity to strengthen vertical integration in the housing sector. UN-Habitat is in regular contact with MPWT and will take every opportunity to advocate for sound climate adaptation measures in policy making decisions. This is an important time, since a sectoral adaptation strategy and action plan including results-based management framework is due to be developed by 2025.

Knowledge from the project will be disseminated to communities through media such as newspapers and television. This will reach communities which are not in the immediate vicinity of the project. For the target communities, the most effective communication is anticipated to be village meetings in which all villagers will be invited to participate, and which will be a key space for decision making in the project. The LWU will be invited to facilitate or co-facilitate meetings for women in order to ensure that women are comfortable in speaking and there is not a gender-based power differential. Similarly, where there are minority ethnic groups, it will be necessary to work through a leader of the group to ensure that members are comfortable in expressing their thoughts and in asking questions. In these ways, the project aims to include all members of communities and to build inclusivity which will continue after the close of the project.

As well as maximising the efficiency, value, inclusivity and visibility of the project, the knowledge management component aims to raise the awareness of stakeholders of the importance of knowledge management and learning. Data management practices will be established and strengthened with a long-term view that continues past the project. The exact form of data management practices will be determined in consultation with stakeholders, considering the context in which they are working, for example, many local offices do not have reliable access to the internet and are not well resourced in terms of IT equipment or capacity.

H. Consultative Process

This project was conceived after recent floods ravaged several provinces in Lao PDR. Through its role as co-head of the Shelter Cluster of the Lao PDR Inter-Agency Contingency Plan (IASC), UN-Habitat partnered in assessing damage and needs, and in planning the recovery. As part of the recovery, UN-Habitat implemented a project which constructed houses for people who had been made homeless through the destruction of their houses and possessions by floods and landslides. The impact of the

floods has been long term and in 2021, there are still people who are living in temporary shelters as a result of losing their houses in 2018. Discussion on the need to build resilience into houses has, therefore, been ongoing through the recovery efforts of successive floods. The discussion became more focused in the preparation of this concept note.

At the national level, in-depth discussions were held over several months with MoNRE and MPWT. A key topic concerned the scope of the project, and the realisation that maximum effectiveness would be achieved through a holistic approach which includes resilience building in construction practices, strengthening adaptation coordination, improving the early warning system and providing shelter for displaced households.

The target provinces were selected at the national level, and multilevel consultations then determined the target districts for each of the interventions.

Table 12: Record of consultations

Stakeholder	Date of Consultation	Consultation Objective	Outcome	Remark
Ministry of Natural Resources and Environment (MoNRE), Department of Climate Change (DCC)	In addition to the following dates, discussions have been held throughout 2021 and communication is ongoing. 25/03/21 01/06/21 16/07/21 08/10/21 21/10/21	Confirm focal point support Confirm DCC's agreement to be an executing entity for the project Establish target areas Ensure harmonisation with other ongoing adaptation activities and with policy alignment Establish project scope and clarify objectives Clarify scope, ensure harmonisation with MoNRE	MoNRE has agreed to support the project formulation DCC agreed to be an executing entity The target areas named in this concept note were agreed upon Information was exchanged on existing and planned initiatives in the target area It was established that the project would meet urgent institutional and systemic needs in order to build resilience in a holistic manner	As designated authority, MoNRE has approved the project.
Resources and Environment	08/10/21	goals and with other interventions		
Ministry of Public Works and Transport (MPWT), Department of Housing and Urban Planning (DHUP)	In addition to the following dates, discussions have been held throughout 2021 and communication is ongoing. 24/03/21 02/06/21 23/07/21 21/10/21	Confirm MPWT's agreement to be an executing entity for the project Establish target areas Ensure harmonisation with other ongoing adaptation and urban planning activities and with policy alignment Establish project scope and clarify objectives Understanding current technical standards, rules,	MPWT agreed to be an executing entity The target areas named in this concept note were agreed upon Information was exchanged on existing and planned urban planning and climate change initiatives in the target area The needs in the target provinces were clarified and the urban planning, and housing construction and rehabilitation components of the project were planned to meet the needs. The project aligns with DHUP regulations and standards.	

Provincial and District authorities	Vientiane Province: 30/03/21 Bokeo: 01/4/21 Bolikhamxay: 5/4/21, 6/4/21 Khammouane: 7/4/21 Attapeu: 8/4/21 Champasak: 9/4/21	 Select target towns and clarify specific scope in each town. Understand the current extent of climate change adaptation in the target towns and relevant local plans and aspirations. Collect data on housing typology 	 Towns were selected and activities were selected from those decided upon by DHUP, to meet the needs in each town. Understanding was gained, and shown in rapid assessment results. 	Results of rapid vulnerability assessment shown in Annex 1
Communities in the target towns	Vientiane Province: 30/3/21 Bokeo: 1/4/21 Bolikhamxay: 5/4/21, 6/4/21 Khammouane: 7/4/21 Attapeu: 8/4/21 Champasak: 9/4/21	Gain understanding of local experience of climate change and decision-making processes. Understand local needs regarding housing. Ascertain community buy-in and concerns regarding the proposed project		Results of rapid vulnerability assessment shown in Annex 1

Following confirmation of the target towns, consultations were held at the local level. A rapid vulnerability assessment was carried out in each town and consultations were held with the following people:

- District Governor or Deputy District Governor,
- District chief cabinet,
- District Public Works and Transport office,
 District Natural Resource and Environment office,
 District Planning and Investment office,
 Village chiefs,
 Lao Women's Union,
 Lao Youth Union,

Community members, including women, youth and minority ethnic groups

In the initial consultative process, consultations were held with women of all ethnicities in all the target towns. Consultations were held in the community so that it was not necessary for people to travel to participate in the process. Among other things, women were asked for their thoughts and needs related to resilient housing, and their willingness to participate in the project, and their responses taken into account in the project design

Consultations with local authorities revealed the ethnic breakdown of the town populations. Consultations were then organized with members of all the ethnic groups represented in each town to gauge their needs, cultural requirements and willingness to participate in the project.

Further consultations will be held in order to refine this concept note into a fully developed proposal. Feedback from local consultations is given in the results of the rapid vulnerability assessment in Annex 1.

I. Justification for funding requested

There is an urgent need to build resilience in Lao PDR's rapidly growing towns, however, the Government does not have the financial resources or capacity to do this. Substantial capacity and knowledge gaps exist between the national and local levels, and these prevent many nationally designed plans from being effectively implemented at the local level. Lao PDR has expressed its need for assistance in reports such as the <u>Second National Communication</u> of 2013, which identified needs, including in the areas of capacity building, education and public awareness, and vulnerability assessment and adaptation in different

sectors. By taking a comprehensive approach which includes institutional strengthening, capacity building, awareness raising, improvement of early warning systems and resilience building in construction, the project aims to embed climate change adaptation into multiple layers of the target provinces, ensuring an ongoing impact as the provinces' towns continue to grow.

This project meets needs that are becoming increasingly more obvious in the housing sector. As well as people having a house which is resilient to floods and other extreme weather events, people in the target communities will be aware of the impacts of climate change and the necessary changes to make to house construction. There is a need to act now to develop plans for the target towns, and plans which are aligned with vulnerability assessments will ensure that land use, spatial planning, house construction and the growth of the towns develops in a considered rather than in an indiscriminate way.

All the actions in the project are aligned with national planning, and the project incorporates responses to specific requests from the Government. In particular, the coordination centres doubling as DoNRE offices and the hydro-meteorological component will enable government adaptation services to extend into vulnerable districts in a way which has not been previously achieved.

This project will increase the adaptive capacity of communities to respond to the impacts of climate change. It specifically aligns with five of the Adaptation Fund outcomes. In addition, it contributes to the implementation of national development goals. Table 913 shows the impact of AF funding compared to the scenario in which there is no AF funding.

Table 913: Comparison of AF funding to scenario without AF funding

Activity	Vulnerability	Adaptation Benefit	Alternative Scenario
Activity	Baseline	Resulting from the Project	Alternative ocenario
Seven town level master plans developed to guide the integration of climate change adaptation into socially inclusive shelter construction, spatial planning and land-use.	Climate change is not mainstreamed into town plans.	Town master plans will guide urban planning and investment in a way that builds the towns' resilience to climate change, and will ensure intentional development as the towns' populations increase.	Town plans do not consider climate change nor do they consider accurate population predictions.
Training provided to district, provincial and national government staff on mainstreaming climate adaptation into urban planning and housing.	Even at the national level, government staff in the housing sector do not have an in-depth knowledge of anticipated climate change impacts and of the adaptive measures required.	National and sub-national government officials are able to design and plan measures to build resilience in seven district towns, including in the housing stock, as a result of acquiring the knowledge and skills to collect and analyse climate, socio-economic and housing data.	Climate change is not taken into account in urban planning and housing.
Increased capacity of District Meteorological and Hydrological services in six towns.	Accurate data is not input into early warning systems from the target districts, leaving communities vulnerable to extreme weather events.	Improvements to the hydro- meteorological network will enable data to be received from the target districts, allowing weather forecasting and early warning of adverse events.	Communities will not receive early warning of threatening events, since the system is not geared up to receive data from their district.
Socially inclusive housing and shelter constructed and rehabilitatimproved in target towns, that builds resilience to current and anticipated climate change related impacts	Poor people live in fragile houses which are easily damaged or destroyed by increasingly recurring floods, resulting in a loss of their possessions and often	People have a secure house which is resilient to floods and therefore protects their lives and possessions. People are exposed to new methods of construction which build resilience in houses, and they are trained to construct houses in a manner which is	Expectations and norms regarding housing do not change and houses continue to be constructed in ways that are not resilient to flooding and other extreme weather events. As a result, there is an ongoing cycle of damage and recovery

	their means to livelihoods	resilient to climate change impacts	in the housing sector.
Six Coordination Centres constructed over six provinces, serving as a base for climate change adaptation coordination at the district level	DoNRE staff are accommodated in spare rooms in the buildings of non-related sectors, and have no dedicated space for climate change adaptation activities.	Having a physical space to work from will mean that the DoNREs can grow as entities and establish climate change adaptation work in the target areas, leading to implementation of the Government's plans.	Minimal climate change knowledge in the target districts, leading to minimal actions taken to integrate climate change considerations into local planning.
Knowledge and awareness enhanced in the housing and urban planning sector at national and subnational levels, as well as in local communities.	There is limited knowledge of climate change and its anticipated impacts. As a result, people are continuing to plan town level development, and houses are being constructed without taking climate change into account.	This project will specifically raise awareness in the housing sector from the national to the local level. Through advocacy and knowledge sharing, the project will influence national policy, strategy and action plan. At a local level, housing construction norms will be changed to take account of climate change impacts.	Without knowledge reaching stakeholders, town planning and housing construction policy and planning will not be effective in building resilience. There will not be a reason to change the way of constructing houses, and so people will remain vulnerable to the impacts of climate change.

J. Sustainability

The project has been designed to contribute to long-term development goals and to build climate change resilience into the ongoing development of the target towns. Impacts have been considered in terms of technical, financial, institutional, social, environmental and economic sustainability.

Technical Sustainability

UN-Habitat has experience in designing houses to withstand the specific impacts that climate change is having on Lao communities. This experience, together with that of MPWT, will be used in ensuring that the houses constructed are durable, using the most appropriate materials, construction techniques and project implementation methods to safeguard rights to housing. The particular context of each town has been taken into account, including the hazard profile, population growth and cultural considerations. This is also the case with the town master plans. Technical expertise will be transferred to local communities and government institutions through the proposed capacity building activities and through the experience of working on the project.

Financial Sustainability

Regarding the town planning component of the project, the financial position of the towns will be considered in the planning, and cost-effectiveness will be a major consideration. Capacity building for local institutions will include a component on sourcing finance since this is a key issue in Lao PDR. The town master plans will improve the towns' development even without additional funding but additional infrastructure, for example waste management, will require financing. Considering housing, in the long term, it is likely that the reduced need to replace houses damaged or destroyed by floods and storms will bring about savings that can be used to construct more resilient houses. The cost of building a permanent, robust house is higher than building a temporary, fragile house. Although the project will initially fund rehabilitation of houses to increase their resilience, the aim is for the new standard of housing to become the norm. As the situation in each town is different, consultations will need to be held in each town to ensure that the poorest households are able to afford to improve the resilience of their houses.

Institutional Sustainability

The project is designed and will be implemented in partnership with all levels of government institutions. Multilevel workshops during the project aim to increase vertical integration in the housing sector. Similarly,

the project will contribute to cross-sectoral coordination between the housing and urban planning sector and the natural resources and environment sector which includes the climate change department. This will open up lines of communication to continue adaptive measures in the target towns and other towns in the target provinces.

The provision and improvement of infrastructure in the form of coordination centres doubling as DoNRE offices and the hydro-meteorological network will increase Natural Resources and Environment operations in the target districts. Capacity building will strengthen local government institutions' ability to continue to build resilience in their communities. Training materials and guidelines generated by the project will be held in the relevant institutions as a resource for training of new staff. Mass organisations such as the LWU and the Lao Youth Union (LYU) will also be included in capacity building. These organisations play a significant role in working with women and youth.

Social Sustainability

This project will be implemented using a community-based, inclusive approach which draws together government institutions, mass organisations and community members, ensuring that all marginalised groups are included. A collective ownership of the project generates a sense of unity in the community. In previous projects using this approach, this unity has outlasted the project and contributed to social cohesion in the target communities. The involvement of mass organisations such as the LWU and the LYU will focus on ensuring not only that women and youth benefit from the project in an equitable way, but also that their role in the community is strengthened and that they acquire skills in decision making and representation.

Environmental Sustainability

Environmental well-being will be a key concern in the development of the town master plans. It will also be an important component of the capacity building. <u>Land-use planningCapacity building</u> will incorporate protection for ecosystems, some of which are currently at risk from unplanned urban spread. The project's safeguard measures will also ensure protection of local environmental features. Maps and plans generated by the project will provide guidelines for ongoing development.

Economic Sustainability

The project will employ local people in the housing construction and materials will be sourced locally. The acquisition of construction, decision-making, and project implementation knowledge and skills will provide people with attributes which they can use to generate income in the future. The changes in housing design will create an ongoing demand for construction materials and expertise.

Sustainability of infrastructure:

Demo houses: The houses will be built to demonstrate BBB and resilience principles, so will be technically sound. After they have been used for training purposes, they will be used by households selected according to the criteria previously described.

Rehabilitated and retrofitted houses: These will be more technically sustainable after they have been improved. Community level trainings for house maintenance and minor repairs will build the capacity of house owners to fulfil their house maintenance responsibilities. As well, carpentry training and masonry training will develop the capacity within those professions.

Coordination centres: These will be constructed on government land to which the relevant offices already have title. Local offices of Natural Resources and Environment will be responsible for operations and maintenance, and this has been factored into financial planning.

Evacuation centres: These will be constructed on government land with a high standard of resilience. Once completed, they will be managed by local authorities, who will be responsible for operations and maintenance, with training on management given by the project.

Meteorological and hydrological stations: These will be constructed to resilient standards. Once completed, they will be operated and maintained by the Department of Meteorology and Hydrology.

K. Environmental and social impacts and risks identified

For a project focussing on housing and urban planning, and climate change adaptation coordination, the most obvious risks are related to construction activities. In this project, the government entities tasked with regulating and safeguarding these activities are executing entities. The involvement of MoNRE and DHUP will mitigate any risks considerably, and the project will raise awareness at the local level of environmental and social impacts and risks.

Of the three components of the project, Component 1, relating to urban planning and capacity building, and Component 3, relating to knowledge management, are soft activities which are not predicted to have "adverse environmental or social impacts" As such, the activities of these two components align with Category C, but while the risks are assessed as low, they will nevertheless be identified, assessed and minimised.

Component 2 of the project involves construction activities. These physical works are not considered to pose "significant adverse environmental or social impacts" because they are very small-scale. The proposed construction is in built-up areas, away from protected natural habitats and on government land or privately owned land in the case of house rehabilitations. The target households are the poorest and most vulnerable in the towns. The inclusive nature of the project implementation aims to mitigate any social risks. However, it is recognised that, by their nature, construction activities have the potential for environmental and social impacts and, therefore the project is classified under Category B.

The project has been reviewed to identify environmental and social impacts and risks. However, a more in-depth screening will be conducted at the full proposal stage, when a more detailed risk and impact assessment, and Environmental and Social Management plan will be prepared. This will also satisfy government requirements for environmental and social assessment.

Gender analysis and integration

As the International Federation of the Red Cross reminds, "although 'gender' is not just about women, it is a reality that women and girls are disproportionately affected by disasters. This is due to the roles, responsibilities and attitudes attributed to men and women, which impact their access to resources and information; decision making; participation and leadership. Disasters often exacerbate and reinforce gender inequalities".

In Lao PDR, there is a general bias toward men in decision-making positions, whilst women are typically responsible for food security and are intrinsically linked to resource choices for family consumption. Therefore, specific measures are required to encourage and support the engagement of women in decision-making processes and policy changes.

For the past few years, the country has made significant progress on the gender portfolio at the institutional level. Under the Ministry of Planning and Investment (MPI) leadership, the National Commission for Advancement of Women and Mother and Child (NCAWMC) has been established, along with the development of a Gender Equality Strategy. In 2021, the Government of Lao PDR had endorsed the Second National Plan of Action on Preventing and Elimination of Violence Against Women and Violence against Children (2021-2025) (NPAVAWVAC) and successfully integrated the Fourth National Plan of Action on Gender Equality (2021-2025) (NPAGE) into the plans of all 18 provinces and 17 line/sector ministries, as well as ministry equivalent organizations (Prime Minister's Office, Bank of LAO PDR), 8 party organizations (such as LWU, LYU, Lao Trade Union, Party Cabinet Office, National Politics Institute etc), and 2 judiciary bodies, (People's Supreme Court and People's Supreme Prosecutor's Office. As a result, with the support of UNFPA in Lao PDR, over 780 government staff who have a role in drafting and implementing provincial, ministerial and sectoral plans were reached through virtual

⁶³ Adaptation Fund, 'Environmental and Social Policy', 2016., page 3, paragraph 8.

⁶⁴ Adaptation Fund., page 3, paragraph 8.

workshops, to strengthen systems at the sub-national level to align with national policy frameworks.

In parallel, as stated in the 9th NSEDP, the GoL is committed to developing female leaders and promoting gender equity. In this respect, targets have been set at the national level to:

- Coordinate all parties to integrate gender equality into development plans, programs, projects, activities to promote and create gender equality in all areas.
- Strengthen mechanisms to monitor, promote and enforce laws related to gender equality, the CEDAW Convention and the Convention on the Rights of the Child.
- Collect and use sex-disaggregated data relevant to poverty reduction and other national goals.
- Develop a gender strategy and action plan, identifying issues or problems related to women's participation in the sector and actions to address them.
- Improve the gender and ethnic balance of personnel at all levels.

However, considering the integration of climate change adaptation and disaster risk reduction at all levels, including gender considerations, efforts are yet to be made to achieve inclusivity and promote a gender-positive development. In that sense, the proposed intervention integrates gender equality as a success factor and identifies opportunities to increase female participation in activities and decision-making processes. These will include, but will not be limited to:

- Ensuring gender quotas in stakeholder consultations, workshops and trainings.
- Integrating gender-disaggregated indicators and targets in the result framework of the project for female participation at training workshops and management committees.
- Considering gender differentiated vulnerabilities when building climate change knowledge and suggesting/promoting adaptation priorities/options.
- Integrating gender-differentiated vulnerabilities into the selection criteria developed for the Vulnerability Assessment and the final NAP document.
- Encourage all stakeholders to engage female staff in all activities.
- Liaise with local Lao Women Unions to actively enhance women and girls' participation and support community engagement. This involvement will ensure that women's rights and interests are represented throughout the project.

Consequently, UN-Habitat has designed this proposal with a strong focus on gender equality and women's empowerment. As part of the ToR, the project manager will monitor the mainstreaming of gender into all project activities and ensure stakeholders promote an inclusive approach. Experts engaged throughout the project will also support gender integration within all activities, focusing on the importance of integrating women and girls according to their field of expertise. Finally, local institutions and Ministries involved will also be responsible for ensuring women staff are well represented to achieve gender targets set.

It is of note that in some areas and ethnic groups, women do not have a role in decision making on a par with men. Similarly, the DPWTs do not currently have a high percentage of female employees. Although the project aims to increase women's inclusion, experience has shown that including women in DPWT staffing is not easy. For this reason, these social aspects of the project require monitoring, and it is recognised that targets need to take account of the baseline situation.

Forr Bott

The checklist shown in Table <u>10-14</u> has been prepared based on consultations. It identifies risks and potential mitigation measures associated with AF Social and Environmental Principles. Additional assessments and consultations planned in preparation for the full project document will most likely see a reduction in "potential impacts and risks."

Table 10:14 Checklist of environmental and social principles

Checklist of environmental and social principles	No further assessment required for compliance	Potential impacts and risks – further assessment and management required for compliance
Compliance with the Law		<u>X</u>
Access and Equity		<u>X</u>
Marginalized and Vulnerable Groups		X
<u>Human Rights</u>		<u>X</u>
Gender Equality and Women's Empowerment		X
Core Labour Rights		X
Indigenous Peoples		X
Involuntary Resettlement	X	
Protection of Natural Habitats		X
Conservation of Biological Diversity		<u>X</u>
Climate Change		<u>X</u>
Pollution Prevention and Resource Efficiency		X
Public Health		X
Physical and Cultural Heritage		<u>X</u>
Lands and Soil Conservation		X

Table 145: ESP risks and possible mitigation measures

Adaptation Fund	Possible Risks	Possible Mitigation Measures
Environmental		
and Social Principle		
Compliance with	There is limited	The project and all its stakeholders will comply with domestic and international
the Law	risk of the project	laws, including the following national regulations:
	and activities not	1. Environmental Protection Law (EPL) 2012.
	complying with all	2. Environmental Impact Assessment Decree of 2010.
	<u>applicable</u>	3. Law on Land 2003.
	domestic and	4. Law on Water and Water Resources 1996.
	international laws.	<u>5. Labour Law 2013.</u>
		6. Law on National Heritage 2005.
		7. Law on Urban Plans; and
		8. Law on Investment Promotion.
		All activities will be subject to local regulation, including for building permits and
		environmental protection. In parallel, child labour and forced labour are both
		regulated in the country.
		The project will engage with the Department of Land Management under DoNRE,
		Urban Planning and Construction under PWT at the provincial level, and will
		Integrate legal compliance into training
Access and Equity	<u>Inequitable</u>	Separate consultations will be held for groups such as women and ethnic groups,
	access to	and the project will partner with mass organisations such as the Lao Women's
	participate in	Union to engage with groups such as women. The selection of beneficiaries, as
	project decision	described on p. 25, will be done according to objective tools including climate risk

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	making.	assessments to determine the most risk-prone areas, Government criteria of
	<u>Inequitable</u>	poverty, and a checklist to assess houses' resilience. The tools will measure
	process for	poverty, vulnerability and house resilience, irrespective of who people are or what
	selecting	groups they belong to. The process will be validated with communities and
	beneficiaries.	Government entities up to the provincial level.
Marginalised and	Marginalised	The project will have robust mechanisms in place to ensure the local authorities
Vulnerable	groups excluded	have the necessary capacity to include all different sections of society and ensure
Groups	from	the principle of leaving no one behind is adhered to. The process for selecting
Стоира	implementation	households has been designed to be inclusive, targeting any household which is
	process and	poor and climate vulnerable with and lives in a house that is not resilient. Members
	project benefits	of marginalised and vulnerable groups such as female-headed households,
		displaced people, returned migrants, people living with disabilities and chronic
		illnesses, and ethnic groups are expected to be highly represented in the poor,
		vulnerable households which will benefit from house improvements. The project
		design will ensure that marginalised groups are involved in decision making at all
		stages of the project, in partnership with mass organisations such as the Lao
		Women's Union. There are no expected negative impacts on marginalised or
		vulnerable groups.
Lluman Dialeta	I li una a un uni miaria ta	
Human Rights	Human rights	The project follows the Universal Declaration of Human Rights, to provide fair and
	<u>breaches</u> can	equitable access to benefits to all while promoting human rights throughout the
	arise over denial	entire project cycle. In this respect, the IE will monitor and report on human rights
	of access to	risks and opportunities and adjust activities if necessary if risks occur.
	decision making	
	and project	
	benefits	
Gender Equity	Local cultures	In order to ensure the inclusion of women in all aspects of the project decision
and Women's	block women's	making process, consultations will be held with women of all ethnic groups in the
Empowerment	voices or exclude	target towns, at accessible times and places. Partnering with the LWU to engage
	them from	with women will bring co-benefits through a mutual sharing of knowledge and
	decision making.	practices, and will assist in reaching all women. Setting and following quotas for
	Women are not	female participation in decision making and capacity building will motivate groups
	well represented	to increase female participation. Gender will be a focus in capacity building for
	in local	government officials
	government	
	authorities.	
	autijorities.	
Core Labour		The project follows local and international regulations considering labour rights
Core Labour	Labour rights may	The project follows local and international regulations considering labour rights, including the ILO core labor standards. In this respect, the IE is particularly
Core Labour Rights	Labour rights may not be respected	including the ILO core labor standards. In this respect, the IE is particularly
	Labour rights may not be respected in project	including the ILO core labor standards. In this respect, the IE is particularly attentive to child and forced labour, as well as ensuring freedom of association.
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Conservation of Biological Diversity	Destruction or damage to biodiversity Potential loss of biological diversity due to construction	critical natural habitats and ecosystems. In this respect, the IE and local partners will ensure construction sites are chosen considering present natural assets. To ensure activities will not have adverse impacts on natural habitats, and with the aim to build environmental awareness over the long run, the IE will ensure the following: • Using sustainable resources for building and retrofitting activities; • Ensuring construction integrates local ecosystems into design. • Incorporating protection of habitats and ecosystems into action planning. • Developing town plans that include environmental concerns, promote the use of EbA, and bring back nature at the centre Although there is a lack of local information on local biodiversity, at the national scale, several endangered species have been identified such as plants like the Parish's Paphiopedilum and Double Flowered Paphiopedilum. Also, it is estimated that approximately 90% of households confirmed the use of wildlife at the national level, primarily for food rather than trade. In this respect:
	 construction. Potential introduction of invasive species. 	 Construction sites will be carefully chosen in concertation with local entities and communities and considering the absence of significant biodiversity. If for implementation purposes the IE needs to bring commodities or materials, the IE will be particularly attentive at not introducing invasive species. All activities must be developed and implemented to limit impact on local biodiversity, and ideally contribute to the enrichment of the biological diversity.
Climate Change	 Building materials and project implementation may emit 	The project will ensure that it will not result in any significant or unjustified increase in greenhouse gas emissions or other drivers of climate change. As such, project implementation will involve developing a project-based management tool that will determine and monitor GHG emissions which may result from its supported activities and results. The project-based GHG management tool to be used will
	greenhouse gases	provide basic information and calculations of (1) baseline emissions, (2) emission factors, and (3) potential net change of GHG emissions caused by the project. Its calculation and methodology will reference the 2006 IPCC Guidelines for Greenhouse Gas Inventory, the GHG Protocol, and other references used by the Laos PDR government to ensure consistency with the government's GHG Monitoring, Reporting, and Verification systems and process.
		With the above established and mainstreamed into the project implementation scheme, GHG emissions from adaptation activities related to building materials, residential energy use, land use, waste, etc. can be monitored, managed, and maintained to remain at a nominal rate of increase
Pollution	• Local	.To avoid the listed potential risks, the IE envisages the following:
Prevention and	resources	Use locally and sustainable sourced materials.
Resource	availability may be	Incorporating local knowledge.
Efficiency	adversely affected by the project • Use of	 Integrate communities and marginalised groups at every step of the project In addition, a resources efficiency plan will be developed to maximize the use of
	unsustainable building materials	all project activities and will include waste management.
Public Heath	Badly planned	Overall, the project aims at providing fair and equitable access to benefits in a
	towns could lead	manner that is inclusive while not impeding access to basic health services, clean
	to excessive	water and sanitation, energy, education, housing, safe and decent working
	waste,	conditions, and land rights. In this regard, the project represents limited to no risks
	inaccessibility of	of public health issues. Initial screening has considered that further analysis of
	social services	public health will be required. The ESIA and the ESMP will include public health analysis.
Physical and	No activities are	Lao PDR has a law relating to cultural heritage sites. However, none of the project
Cultural Heritage	located at a	sites are located at a cultural heritage site. All project activities will comply with
	cultural heritage site.	relevant regulations, in particular the 2005 Law on National Heritage.
Lands and Soil	Soil contamination	The IE is committed to maintain the natural state of the targeted lands. In this
Conservation	due to chemical products resulting	respect, the proposed designs and interventions will ensure valuable lands are not converted for urbanisation purposes, while preventing soil erosion in the
	from construction	selected areas. At the local scale, the IE noted the absence of fragile soils limiting the risks of
	works Destruction of	At the local scale, the IE noted the absence of fragile soils limiting the risks of degradation. However, activities will be implemented considering the need to
	ecosystem services, leading	avoid land contamination due to waste generation from construction works. On this matter, enterprises hired will have to provide the IE with a waste management

Annex 5 to OPG Amended in October 2017

to	land	plan	to e	ensure	construction	works	have	limited	impacts	on	soils	and	local
degradation		ecosystems.											

Adaptation	Possible Risks	Possible Mitigation Measures
Fund		
Environmental		
and Social		
Principle		
Compliance with	It is possible that	Engagement with Department of Land Management under DoNRE, Urban
the Law	conflicts between beneficiary	Planning and Construction under PWT at the provincial level
	households may	Integrating legal compliance into all training
	be brought to the	The grating legal compliance into all training
	surface by the	
	project but there	
	are no realistic	
	actual project,	
	considering its	
	design.	
	-	
Access and Equity	Inequitable access to	Stakeholder mapping for each town and written, agreed upon and monitored process for beneficiary selection
	participate in	ргосеss тог рененскагу selection
	project decision	
	making.	
	Inequitable	
	process for	
	selecting beneficiaries.	
Marginalised and	Marginalised	Capacity building to raise local officials' awareness of marginalisation and
Vulnerable	groups excluded	vulnerability, and ongoing monitoring of inclusion in project implementation
Groups	from	and decision making.
	implementation	
Human Rights	process Human rights	Engagement with Department of Land Management under DoNRE
numan Rights	breaches can	Ендаденіені міін Беранінені ог Land Managemeni under БолкЕ
	arise over land	Capacity building to raise local officials' awareness of human rights, and
	conflicts, or denial	engoing menitoring
	of access to	
Gender Equity	decision making Local cultures	Quotas for female participation in decision making at all levels.
and Women's	block women's	Partnership with LWU
Empowerment	voices or exclude	T dithoromp with Evvo
	them from	
	decision making	
Core Labour Rights	Labour rights may	Contracts only approved on evidence of compliance with both national law and international standards
ragino	in project	anu momatuna stanuarus
	contracts	
Indigenous	See marginalised	See marginalised and vulnerable groups
Peoples	and vulnerable	
Involuntary	groups There will be no	Full consultation with affected communities in decision making, particularly in
Involuntary Resettlement	resettlement	communities which have a policy of resettlement.
Protection of	Damage to local	Incorporating protection of habitats and ecosystems into action planning.
Natural Habitats	ecosystems,	
	including forests,	Developing town plans that complement nature
	rivers and coastlines from	
	housing	
	construction or	
	badly planned	
0	towns	One Protection of Natural Hall's s
Conservation of Biological	See Protection of Natural Habitats	See Protection of Natural Habitats
മത്ത്യാർ	Tactordi i idbildib	

Annex 5 to OPG Amended in October 2017

Diversity		
Climate Change	Building materials and project implementation may emit greenhouse gases	Consideration of greenhouse gas emission built into house design and construction. Use of local materials.
Pollution Prevention and Resource Efficiency	Housing construction generates waste	Incorporating waste management and disposal into project design and implementation
Public Health	Badly planned towns could lead to excessive waste, inaccessibility of social services	Incorporating public health considerations into capacity building and town plans
Physical and Cultural Heritage	Town planning may fail to protect physical and cultural heritage sites	Identification of all physical and cultural heritage sites and their protection guaranteed in town master plans
Lands and Soil Conservation	See Protection of Natural Habitats	See Protection of Natural Habitats

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

A. Record of endorsement on behalf of the government

Mr. Syamphone Sengchandala, Director General, Department of Climate Change, Ministry of Natural Resources and Environment,

Date: January 4th, 2022

Designated Authority for the Adaptation Fund of Lao PDR

B. Implementing Entity certification

Letter of Endorsement by Government

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 including the 9th National Socio-economic Development Plan, National Adaptation Programme of Action, the Strategy on Climate Change of the Lao PDR, the 2021 NDC of Lao PDR, and sector strategies and plans, and subject to the approval by the Adaptation Fund Board, commit to implementing the project/programme in compliance with the Environmental and Social 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.

Mr. Rafael Tuts, Director, Global Solutions Division, UN-Habitat

Signature

Implementing Entity Coordinator

Date: January 6th, 2022 Tel. +254 20 76 23 726; Email: raf.tuts@un.org

Project Contact Person: Bernhard Barth, Human Settlements Officer, Regional Office for Asia and the Pacific & Subprogramme Coordinator (a.i.), Climate Change and Urban Environment

Tel. +81 92 724 7121; Email: Bernhard.Barth@un.org



Lao People's Democratic Republic Peace Independence Democracy Unity Prosperity

Ministry of Natural Resources and Environment Department of Climate Change

Vientiane Capital, Date: 3rd January 2022

To: The Adaptation Fund Board c/o Adaptation Fund Board Secretariat Email: afbsec@adaptation-fund.org Fax: 202 522 3240/5

Subject: Endorsement for the proposed project entitled "Enhancing adaptive capacity in Lao PDR provinces, and building resilient housing in vulnerable communities".

In my capacity as designated authority for the Adaptation Fund in Lao PDR, I confirm that the above national project proposal is in accordance with the government's national priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in Lao DTP.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by UN-Habitat and executed by the Ministry of Public Works and Transport, the Ministry of Natural Resources and Environment, Provincial Departments of Public Works and Transport and Provincial Departments of Natural Resources and Environment in Bokeo, Vientiane, Bolikhamvay, Khammouane, Champasak and Attapeu Provinces.

Sincerely,

Syamphone Sengchandala Director General

Department of Climate Change
Ministry of Natural Resources and Environment

Designated Authority for the Adaptation Fund of Lao PDR