

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

PROJECT/PROGRAMME CATEGORY: EDA - Regular-sized Project Concept

Country/Region: Republic of Armenia

**Project Title:** Armenia National Adaptation Funding Facility

Thematic Focal Area: Multisector projects

**Implementing Entity:** Environmental Project Implementation Unit (EPIU) **Executing Entities:** Environmental Project Implementation Unit (EPIU)

**AF Project ID:** AF00000360

IE Project ID: Requested Financing from Adaptation Fund (US Dollars): 4,760,000

Reviewer and contact person: Farayi Madziwa Co-reviewer(s): Alyssa Gomes

IE Contact Person: Margarita Gasparyan

# Technical Summary

The project titled "Armenia National Adaptation Funding Facility" aims to enhance the country's capacity to effectively respond to the adaptation challenges posed by climate change and enhance adaptation resilience in the regions and municipalities of Armenia through establishment of a National Adaptation Finance Facility. This will be done through the three components below:

Project/Programme Background and Context:

Component 1: Policy Delivery - Policy Decompression at the Regional/Municipal Level (USD 300,000).

Component 2: Capacitating Stakeholders - Mapping, Needs Assessment, and Capacity Building of Key Actors (USD 300,000)

<u>Component 3</u>: Channeling Adaptation Finance - Identification, appraisal, and financing of viable projects (USD 3,800,000).

Requested financing overview:

Project/Programme Execution Cost: USD 60,000 Total Project/Programme Cost: USD 4,460,000

Implementing Fee: USD 300,000

	Financing Requested: USD 4,760,000
	The proposal includes a request for a project formulation grant of USD 50,000.
	The third technical review raised several issues, such as providing further clarification on the full cost of adaptation reasoning, the IE fee, stakeholder consultation, and knowledge management and learning as is discussed in the number of Clarification Requests (CRs) and Corrective Action Request (CAR) raised in the review.
	The fourth technical review finds that the CRs and CARs have been sufficiently addressed for the concept stage.
Date:	23 January 2024

Review Criteria	Questions	Comments 3 <sup>rd</sup> Technical Review	Comments 4 <sup>th</sup> Technical Review
Country Eligibility	Is the country party to the Kyoto Protocol?		
	Is the country a developing country particularly vulnerable to the adverse effects of climate change?		
Project Eligibility	Has the designated government authority for the Adaptation Fund endorsed the project/programme?		
	2. Does the length of the proposal amount to no more than Fifty pages for the project/programme concept, including its annexes?	Signature of IE coordinator still not provided.	Cleared.
	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?	CR1: Cleared. Indicative concrete activities in the agriculture, water, forestry natural and built infrastructure have been added to component 3. See pages 18-19.	CR2: Cleared at concept stage.  At the fully-developed proposal stage please explain the role local stakeholders in the decision-making process i.e., adaptation projects led by local who decide how resources are spent and interventions are

This is complemented by the description of Potential projects to be supported through the National Adaptation Finance Facility under the table titled "Alignment of the Project with Adaptation Fund's priorities" on page 12.

trialed (community involvement in generating solutions and in relevant decision-making bodies who will decide to which projects funds will flow).

#### CR2: Not cleared.

The operational framework described on page 21 highlights that whilst vulnerable communities (which are represented by local organizations comprising of private sector entities, civil society organizations, social enterprises, business associations, and regional and municipal authorities) will be the project beneficiaries, they will also play a role in the Regional Climate Adaptation Committees. These committees will conduct climate needs assessments and ensure that identified climate adaptation measures are relevant and needs based. Project beneficiaries will therefore also be involved in project management and policy formulation.

		The theory of change on page 12 references vulnerable communities in the logical flow of causal relationships described in the outcomes and goal statement. However, the organigram visualizing the EDA operational model does not show how funds will flow from the AF through the model down to beneficiaries.  Please clearly show or describe how funds will flow from AF to the beneficiaries.	
4.	Does the project / programme provide economic, social and environmental benefits, particularly to vulnerable communities, including gender considerations, while avoiding or mitigating negative impacts, in compliance with the Environmental and Social Policy and Gender Policy of the Fund?	CAR2: Cleared. Conclusions from the initial gender analysis have been added on page 28.	
	. Is the project / programme cost effective?	CR4: Cleared.  The project follows a bottom-up approach and is cost effective in comparison to achieving the same results using a top-down approach. See page 31.	
6.	. Is the project / programme consistent with national or sub-national sustainable development		

7.	strategies, national or sub-national development plans, poverty reduction strategies, national communications and adaptation programs of action and other relevant instruments?  Does the project / programme meet the relevant national technical standards, where applicable, in compliance with the Environmental and Social Policy of the Fund?	CR7: Cleared. Laws concerning Population Protection in Emergency Situations, Urban Development, Water Code, Land Code, national GOSTs related to construction, land management permits and the requirement for EIAs which may be mandatory for some activities have been identified on page 35. Whilst no engagement with the relevant regulatory authorities has been done, an explanation has been provided that the relevant regulatory authorities will be engaged by EDA project proponents depending on project design and the codes or technical standards that will be triggered as a result.  Please note that the initial information on page 25	Cleared, as per the amendments on page 40.
		Please note that the initial information on page 35 describing stakeholder consultation should be moved to the relevant section Part II-H.	
8.	Is there duplication of project / programme with other funding sources?	CR8: Cleared. The response by the IE notes that mapping of potential projects	

at the community level has been based on preliminary consultations with stakeholders and that assumptions have been made based on initial validations through stakeholder consultations. As a result, the IE also notes that a comprehensive analysis which will be done at the full-developed proposal stage when the proponent will identify any overlap or complementarity with existing GEF projects.

Inserted text on page 37 of the proposal also highlights that the likelihood of any overlapping between the proposed AF EDA and GEF projects is minimal because it surmises that the small-scale projects facilitated by GEF typically concentrate on targeted intervention areas and are characterized by a narrow scope.

Notwithstanding the IE's assumptions, considering that there are over 100 projects in Armenia under the GEF Small Grants facility as well as numerous projects funded in Armenia under the GEF Trust Fund since 2012, the IEs response is a reasonable justification for a more

comprehensive analysis to be done at the full-developed proposal stage, particularly as the proposed EDA project is expected to cover the whole country. At the full proposal stage, please include information, preferably in the form of a table that lists all the referenced **GEF** projects, their duration, implementation status, including 2 columns that clarify non-duplication or complementary with the relevant components or outputs of the proposed EDA project. 9. Does the project / programme have CR9: Cleared as per the CR9: Not Cleared. The role of EPIU in the EDA a learning and knowledge information provided on page 39. management component to capture operational framework is and feedback lessons? provided in the IE's response to At the fully-developed proposal the CR but not included in the stage, please integrate text on page 20 of the proposal. knowledge targets and milestones in the project's results Whilst the current text under framework. section G describes the knowledge sharing tools that will be used to gather and disseminate project information, the IE has not addressed the CR and continues to refer to knowledge management as a project component. Since there is

no specific component on knowledge management in the 3 components articulated in the table on pages 17-19 of the proposal, reference to knowledge management as a component is misleading. A suggestion is to refer to it as an aspect or just knowledge management in the project.

The IE response and text provided in the proposal on page 38 explains that a separate learning project has been submitted to the AF for funding and that this project will aim to spread the knowledge and integrating key lessons learned from that project into the learning curricula of National Agrarian University. However, the proposed EDA project should describe the knowledge management system or approach at the institution level and explain how this will be applied to the specific EDA project.

Please include a description of:

i) at what stages knowledge will be gathered and disseminated

	<ul> <li>(ii) who will be the target recipients of knowledge dissemination</li> <li>(iii) how experiences gained through the project would be tracked, analysed and fed back into the EDA project and again outwards to external stakeholders.</li> </ul>	
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?	CR10. Not cleared. Inserted content added on stakeholder consultation on page 35 should be moved to the relevant section, Part II-H.  Whilst the inserted text describes methods used to consult various stakeholders and it is noted that further consultations will be held at the full-developed proposal stage. Furthermore, there still lacks clear articulation of how these consultations were fed into current project design.  Please describe how specific concerns and feedback from vulnerable and marginalized groups were incorporated into the current project design.	CR10: Cleared, as per the information provided on page 40.  The IE has also clarified that during the fully-developed proposal stage, a detailed and inclusive stakeholder consultation process will be conducted encompassing engagement with national agencies, local communities, especially focusing on vulnerable and marginalized groups.  At the fully-developed proposal stage, please annex detailed consultation reports and explain how the outcomes have informed the project design.
11. Is the requested financing justified on the basis of full cost of adaptation reasoning?	CR11: Not Cleared.	<b>CR11: Cleared,</b> as per the additional information provided on pages 44-45.

The section "Consideration of funding alternatives" (page 40) which has been referenced as addressing the question under this review criteria still does not address the question, and the comparison of the proposed EDA approach to an alternative government led approach that would achieve the same project objectives is irrelevant in this context and does not address the requirements of the full cost of adaptation reasoning.

In addition, the specific objective "Launching and operationalizing innovative financial instrument" on page 10 specifically states that the National Adaptation Finance Facility "will provide funding for "incremental adaptation costs", thus enabling private sector to come in with implementation funding". With this narrative, it is not clear whether implementation funding from private sector would be a prerequisite for sub-projects under the EDA modality and whether this aspect poses potential risk to the successful implementation of sub-projects financed under this EDA project.

	Please provide a description of how taken solely, without additional funding from private sector and other donors, the proposed activities will help achieve the project objectives.  Kindly also include an explanation that the proposed activities are not "business as usual" and if they are, provide justification of their adoption in the context of achieving the adaptation goals of the project.	
12. Is the project / program aligned with AF's results framework?		
13. Has the sustainability of the project/programme outcomes been taken into account when designing the project?	CR16: Cleared. Text describing private sector engagement has been inserted on page 42.	
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?	CAR3: Cleared.  Text has been inserted 42-44 which explains that the project is category B and describes the logic behind the categorization.  At the full proposal stage, the ESMP should describe the risks that have been identified, the negative impacts that are expected and the measures that are needed to manage or avoid those negative impacts, should provide information on who will be responsible for the implementation of the ESMP,	

		who will have which role, how the management activities will be funded, and what information will be collected to monitor the implementation of the ESMP and report on it accordingly during project implementation.  Further, at the full proposal stage, please mention specifically which vulnerable and marginalized groups are affected by e.g., the principle on marginalized and vulnerable groups. Please also indicate which principles will need further assessment and which ones will not need further assessment with a brief explanation why they would not need further assessment.	
Resource Availability	1. Is the requested project / programme funding within the cap of the country?  2. Is the Implementing Entity Management Fee at or below 8.5 per cent of the total project/programme budget before the fee?	CAR 5: Not Cleared. The IE fee is 9.87% which is above the cap of 8.5% as per decision B.41/20 that harmonized IE fees to a cap of 8.5% for all funding windows. https://www.adaptation-fund.org/document/proposed-adjustments-to-implementation-fees-and-execution-costs/ (Para 38. a)	CAR5: Cleared. The fee is revised to 6.7%

		Please revise the IE fee to fall at 8.5%.
	3. Are the Project/Programme Execution Costs at or below 9.5 per cent of the total project/programme budget (including the fee)?	
Eligibility of IE	Is the project/programme submitted through an eligible Implementing Entity that has been accredited by the Board?	
Implementation Arrangements	Is there adequate arrangement for project / programme management, in compliance with the Gender Policy of the Fund?	
	Are there measures for financial and project/programme risk management?	
	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?	
	4. Is a budget on the Implementing Entity Management Fee use included?	
	5. Is an explanation and a breakdown of the execution costs included?	
	Is a detailed budget including budget notes included?	
	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?	

	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?	
	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?	
	10. Is a disbursement schedule with	
	time-bound milestones included?	



# **CONCEPT NOTE PROPOSAL FOR SINGLE COUNTRY**

# PART I: PROJECT/PROGRAMME INFORMATION Title of Project/Programme: **Enhanced Direct Access** Country: Republic of Armenia Title of the Project Armenia National Adaptation Funding Facility Type of Implementing Entity: **National Implementing Entity** Implementing Entity: "Environmental Project Implementation Unit" State Agency **Executing Entities:** "Environmental Project Implementation Unit" State Agency **Amount of Financing Requested:** 4,760,000 (in U.S Dollars Equivalent) **Project Formulation Grant Request (available to NIEs only):** Yes ⊠ **Amount of Requested financing for PFG:** 50,000 (in U.S Dollars Equivalent) **Letter of Endorsement (LOE) signed:** Yes ⊠ No □ Stage of Submission: ☐ This concept has been submitted before ☑ This is the first submission ever of the concept proposal

# **Project/Programme Background and Context:**

# Project's economic social, development and environmental context

## Country overview

Armenia is a land-locked country within the Caucasus region between Europe and Asia. The majority of the country is at high altitude (greater than 1,000 meters above sea-level), including a freshwater Lake Sevan, with a surface area of 1,279 km<sup>2</sup> and the Seven River Basin with a surface area of 4,721 km<sup>2</sup>, spans approximately one sixth of the nation's total land area. As of 2022. Armenia's population was estimated at 2.78 million people and its GDP at \$ 19.5 billion<sup>2</sup>. Around one third of the nation's population lives in its capital city, Yerevan<sup>3</sup>.

Over the past decade, Armenia has transitioned from an industry-dominated to a servicedominated economy. As of 2016, the service sector constituted 48.8% of the labor force. Agriculture remains a major employer with a labor market share of 35.3% and there remains a relatively high rate of unemployment (18%) as well as net out-migration. GDP is distributed less evenly than employment, with around 52,8% originating in the service sector, 26,64% in the industry and only 11,34% in agriculture. Poverty persists, affecting around 26,5% (2021 data) of the population based on the national poverty line<sup>4</sup>.

#### Climate baseline

#### Overview

Armenia's climate can be described as highland continental, with large variation between summer highs (June to August) and winter lows (December to February). The country also experiences large climatic contrasts because of its intricate terrain, and the climates range from arid to sub-tropical and to cold, high mountains. Summer highs in Armenia's capital Yerevan average around 30°C-33°C while the average in winter is 1°C-3°C. The more mountainous regions experience lower average temperatures and prolonged periods of snow cover. The average annual precipitation is low at 526 mm. Precipitation intensity is greater in Armenia's high-altitude regions with May and June the wettest months. For Armenia, altitude is the strongest controlling factor determining the spatial distribution of temperatures and precipitation in Armenia. Sub-zero average temperatures are common in Armenia's mountain ranges while its highest average temperatures are experienced in the relatively low-lying western plains. Similarly, Armenia's highest peaks may receive up to 1,000 mm of annual precipitation while precipitation can be as low as 200 mm in the western plains.

Due to the sharply intersected relief and the development of the slope processes, Armenia is characterized by active external processes. High frequency and magnitude of hazardous hydrometeorological phenomena (HHP) are characteristic for Armenia, which trigger droughts, landslides, mudslides, forest fires etc. and inflict significant losses to the population and the economy<sup>5</sup>.

# Key trends

Temperature - Armenia's NC4 reports that it experienced an average temperature rise of 1.23°C between 1929–2016. This historical rise in temperatures has resulted in the rapid shrinking of the glaciers in Armenia's mountain regions, with spatial extents retreating at around 8 m per year. Trends suggest climate variability is increasing and in 2018, Yerevan experienced a new record July temperature, reaching 42°C.

Precipitation - Armenia's NC4 reported a 10% reduction in average annual precipitation volume was documented over the period 1935–2012. The spatial distribution of precipitation

<sup>&</sup>lt;sup>1</sup> World Bank data portal - Armenia

<sup>&</sup>lt;sup>2</sup> World Bank data portal - Armenia

Republic of Armenia – Fourth National Communication on Climate Change to the UNFCCC
 "Armenia – Country Risk Climate Profile", joint publication by World Bank and Asian Development Bank, 2021

<sup>&</sup>lt;sup>5</sup> National Action Program of Adaptation to Climate Change and the List of Measures for 2021-2025

changes is irregular: the northeast and central regions have become more arid. However, precipitation has increased in the southern and northwestern regions and in the western region of the lake Sevan basin. Additionally, the number of days with heavy rainfall and hailstorms has increased.

# Climate future

#### **Temperature**

The model ensemble's<sup>6</sup> estimate of average warming in Armenia under the highest emission pathway is an average temperature increase of 2.8°C by the 2050s and 5.8°C by the 2090s. Ensemble estimates of warming under the lowest emission pathway also present an average temperature increase of 1.2°C by the 2050s and maintain through the end of the century. Both of these temperature increases represent greater rates of increase than the global average. By the 2090s, temperatures are projected to have increased around 35% to 40% higher than the global average. Under all scenarios, except for the lowest emission pathway, the number of summer days is expected to increase, and the number of frost and ice days are expected to fall dramatically by the end of the century.

In the case of Armenia, the rate of warming in maximum temperatures, is 5.8°C by the 2090s, which is notably faster than the warming in monthly average temperature. This points towards an increase in the intensity of temperature extremes and is among the some of the largest margins of warming projected anywhere on Earth. The seasonality of future temperature changes holds some uncertainty on lower emissions pathways. However, projected warming is strongest in the summer months from June to September. The months of July, August, and September are projected to see around 50% faster warming than the winter months from November to April under the highest emissions pathway.

# Precipitations

While considerable uncertainty surrounds long-term projections in regional precipitation trends, global trends are evident. The intensity of sub-daily extreme rainfall events appears to be increasing with temperature, a finding supported by evidence from different regions of Asia. However, as this phenomenon is highly dependent on local geographical contexts further research is required to constrain its impact in Armenia. For Armenia, additional uncertainty remains around future changes in average annual precipitation, as well as for changes in seasons. Model ensemble estimates are not statistically significant across all emissions pathways. However, the trend indicated, which is consistent with historical climate behavior and most models, is towards a decline in average monthly precipitation. Under all emissions pathways, an increase in the precipitation associated with a maximum 5-day rainfall event is expected more predominantly in the northern and eastern areas of Armenia. Under all emissions pathways, precipitation reductions are projected in the western regions, and under lower emissions pathways reductions are also expected in the arid northern regions. These changes match global trends, which suggests the intensity of sub-daily extreme rainfall will increase as temperatures increase, a finding supported by evidence from different regions of Asia.

## Climate related natural hazards

Armenia faces significant disaster risk levels and is ranked 101 out of 191 countries by the 2019 Inform Risk Index. This ranking is driven strongly by the exposure component of risk. Armenia has high exposure to natural hazards, including, riverine, flash, and coastal, and very high exposure to tropical cyclones and their associated risks. Drought exposure is also significant. Disaster risk in Armenia is elevated due to its moderate levels of social vulnerability and the country's decent coping capacity. The risks of disasters resulting from these drivers are

<sup>&</sup>lt;sup>6</sup> Climate projections referred are derived from datasets available through the WB's Climate Change Knowledge Portal. These datasets are processed outputs of simulations performed by multiple General Circulation Models (GCM).

likely to increase as the severity and frequency of extreme climate event increases. In recent decades the annual number of events designated as hazardous hydro-meteorological phenomena (such as hurricanes, snowstorms, heat waves) has increased.

**Heatwaves:** Armenia regularly experiences high maximum temperatures, with an average monthly maximum of around 13.2°C and an average August maximum of 27.5°C. The current annual probability of a heat wave (defined as a period of 3 or more days where the daily temperature is above the long-term 95<sup>th</sup> percentile of daily mean temperature) is around 3%. The model ensemble projects that the annual probability of a heatwave could increase from 5% to 18% (depending on emission scenarios) by the end of the century. The country is also projected to experience a significant increase in the number of very hot days (Tmax > 35°C). However, these increases primarily reflect the continual rise in temperatures against the model baseline period of 1986–2005.

**Droughts:** two primary types of droughts may affect Armenia, meteorological (usually associated with a precipitation deficit) and hydrological (usually associated with a deficit in surface and subsurface water flow, potentially originating in the region's wider river basins). When low hydrological flows also coincide with imperfect crop choices and land management practices, agricultural drought can also result. At present, Armenia faces a significant annual probability of severe meteorological drought, as defined by a standardized precipitation evaporation index of less than 2.

The 2001 drought highlighted the vulnerability of the rural poor to drought. Agencies working in the region reported more than 25,000 poor households affected, the majority of whom were dependent on local food production which was severely damaged by the drought. The model ensemble projects a dramatic increase in the annual probability of drought increasing from 20% to over 80% (depending on emission scenarios) by the 2090s. Global overview of changes in drought conditions under different warming scenarios supports extreme projections, suggesting that the West Asia region could experience a considerable increase in the frequency of extreme drought. Under 1.5°C of warming what is currently a 1-in-100-year event may return every 20 years, and under 2°C of warming such an event may recur every 10 years or less<sup>7</sup>.

Extreme Precipitation, Flood, and Landslide: heavy rainfall events are known to trigger landslides and floods in rural areas of Armenia, often affecting poorer and more isolated rural communities. River levels in Armenia are particularly variable, and high flows often hit communities without forewarning, resulting in flood disasters. Flooding can result in damage to subsistence agriculture and increase the incidence of poverty and health issues. Floods also represent a risk to national economic productivity particularly when affecting the capital city, Yerevan. While most climate models project a small increase in the intensity of extreme precipitation events, uncertainty remains in precipitation projections and model ensemble estimates. The general shift in the seasonality of precipitation away from the summer months, combined with the projected loss of many of Armenia's glaciers will likely intensify extreme events and highlight a need for disaster risk reduction measures. However, research and development in the climate modelling arena is needed to support decision makers and planning efforts, specifically more reliable downscaled modelling and additional work will be needed in order to better understand and map rural exposure and vulnerability.

# Climate change impacts

#### Natural Resources

Water: uncertainty remains around the precise trajectory of future change in the availability of water resources in Armenia and river flows are expected to reduce dramatically. While vulnerability for basin and watersheds vary, under a "worst-case scenario", average decrease

<sup>&</sup>lt;sup>7</sup> <u>Global Changes in Drought Conditions Under Different Levels of Warming</u>, Naumann, G., Alfieri, L., Wyser, K., Mentaschi, L., Betts, R. A., Carrao, H., . . . Feyen, L. (2018).

in river flow is estimated at 39% by the end of the century<sup>8</sup>. These changes would have a significant impact on the levels of Armenia's lakes and reservoirs, with implication for society potentially coming from the resulting damage to fish stocks and decline in water levels and water quality. However, caution should be applied as these projections are derived from a single climate scenario; other scenarios provide less consistent trends. More recent analysis of runoff from Caucasus Glaciers suggests a significant increase in the short-term (up to 2022) as melting intensifies, but near total loss of glaciers and glacial meltwater towards the end of the 21st century.

A likely impact of the loss of Armenia's mountain glaciers is an increase in variability of water flows as glaciers typically act to smooth runoff over the year. Water scarcity towards the end of summer (August, September) is likely to increase. Armenia has already experienced declines in annual precipitation and desertification has been documented around the nation, including in the Ararat Valley, an important agricultural production area<sup>9</sup>. More information is needed to understand the potential threat of a broader restructuring of the nation's ecosystems, particularly whether tipping points threaten the viability of current agricultural operations.

Soil and Land Cover: a key route through which climate change may lead to soil and land degradation is through its impact on soil moisture. With very large increases in the frequency and intensity of drought projected over Armenia, the potential for declines in soil quality are significant. The Caucasus region is among many regions where an expansion of the arid and semi-arid area is projected, with the affected area growing rapidly over the 21st century under higher emissions pathways. Such changes will reduce ecosystem productivity resulting in species range shifts, and potential loss of biodiversity.

Linked to issues of land degradation and drought are potential changes to Armenia's forest cover, Armenia's NC4 estimates a potential loss of 14,000-17,500 ha (around 3%-4%) by 2030 as a result of changes to ecosystems and growing conditions, as well as increased frequency of forest fire, pest and disease outbreaks, and invasive species. Armenia has already begun to enact adaptation and restoration plans to reduce deforestation through its National Forest Policy and Strategy, improved wildfire management policies and specific area action plans such as the City of Yerevan 5-Year Plan (2019-2023) to restore the city's buffer forest layer by 40 hectares. A general trend of species range shifts towards higher altitudes is expected and conversion of lower altitude land cover to arid forest types, steppe, and semidesert. Armenia's National Strategy and Action Program to Combat Desertification was ratified in 2015 to increasing the effectiveness of land management, raising public awareness on desertification issues and their solutions, as well as international cooperation<sup>10</sup>.

#### **Economic Sectors**

# Agriculture

Climate change in Armenia is likely to influence food production via direct and indirect effects on crop growth processes. Direct effects include alterations to carbon dioxide availability, precipitation, and temperatures. Indirect effects include through impacts on water resource availability and seasonality, soil organic matter transformation, soil erosion, changes in pest and disease profiles, the arrival of invasive species, and decline in arable areas due to desertification. On an international level, these impacts are expected to damage key staple crop yields, even on lower emissions pathways. Projections estimate 5% and 6% declines in global wheat and maize yields respectively even if the Paris Climate Agreement is met and warming is limited to 1.5°C. Shifts in the optimal and viable spatial ranges of certain crops are also inevitable, though the extent and speed of those shifts remains dependent on the emissions pathway.

Republic of Armenia – Fourth National Communication on Climate Change to the UNFCCC
 Republic of Armenia – Fourth National Communication on Climate Change to the UNFCCC

<sup>&</sup>lt;sup>10</sup> National Strategy and Action Program to Combat Desertification in the Republic of Armenia

In some cases, changing temperature and rainfall patterns may be favorable for crop production. Under all scenarios of future climate change, the agricultural growing season could extend by 10–40 days in Armenia. However, this may also present challenges due to uncertainty and potential declines in future water resources. Armenia is already struggling with land degradation on most agricultural land; climate change could accelerate this degradation as temperatures rise and extreme weather events increase in frequency and severity. Temperature extremes are likely to result in sub-optimal growing conditions for many of Armenia's highest grossing crops, typically grains and vegetables. The increase in the number of very hot days (>35°C), even in the order of 5 days as projected for the low emissions pathway, is likely to damage yields for almost all crops grown in lowland areas of Armenia as well as for a majority of crops grown in intermediate and upland areas<sup>11</sup>. Studies have suggested pressure will be amplified by a potential doubling of the average water requirement of Armenia's crops as temperatures rise. As the glacier supply depletes, and its regulating effect on flows reduces, effective water storage and management infrastructure will grow in importance.

Armenia implemented sustainable agricultural development strategies to increase the unused arable land in rotation by approximately 10,000 hectares per annum in an effort to combat projected yield reductions<sup>12</sup>. Projections show that by the 2070s, potato crop yields will decrease by 21%, with the highest level of reduction expected in Shirak and Syunik marzes. The largest decline in the grape yields will be recorded in the Ararat Valley – by 20%<sup>13</sup>. At the same time the area of high productivity land is projected to shrink, with a 17% increase in less productive desert and meadow-steppe land. Agriculture, Forestry and Fisheries make up Armenia's lowest paid sector yet continue to employ over 30% of the population. These high levels of vulnerability, and risks in both slow and rapid onset hazards emphasize the serious risks climate change represents in Armenia, particularly under higher emissions pathways.

A further, and perhaps lesser appreciated influence of climate change on agricultural production is through its impact on the health and productivity of the labor force. Labor productivity during peak months has already dropped by 10% as a result of warming, and a decline of up to 20% might be expected by the 2050s under the highest emissions pathway. In combination, it is highly likely that the above processes will have a considerable impact on national food consumption patterns both through direct impacts on internal agricultural operations, and through impacts on the global supply chain. Without adaptation, the economic environment for smallholder agricultural operations is likely to become increasingly hostile<sup>14</sup>.

## Urban and Energy

Research has established a reasonably well constrained relationship between heat stress and labor productivity, household consumption patterns, and (by proxy) household living standards. In general terms, the impact of an increase in temperature on these indicators depends on whether the temperature rise moves the ambient temperature closer to, or further away from, the optimum temperature range. The optimum range can vary depending on local conditions and adaptations. In Armenia, a general decline in productivity is expected due to high temperatures that are offset by a reduction in the frequency of extreme low temperatures. This trend can be measured in the change to the annual heating and cooling degree days. The full model ensemble projects an increase in the annual cooling requirement of around 1,000°C (degree days), versus a decline in the heating requirement of around 2,000°C (degree days). This points towards a potential net energy saving. Armenia's energy policy is focused on ensuring independence and increased security of the energy sector and promotion of the

<sup>&</sup>lt;sup>11</sup> <u>Building resilience to climate change in South Caucasus agriculture</u>. World Bank

<sup>&</sup>lt;sup>12</sup> Strategy of the Main Directions Ensuring Economic Development in Agricultural Sector of the Republic of Armenia for 2020–2030

<sup>13</sup> Republic of Armenia – Fourth National Communication on Climate Change to the UNFCCC

<sup>&</sup>lt;sup>14</sup> Environmental and socio-economic vulnerability of agricultural sector in Armenia, Melkonyan, A. (2014), Science of The Total Environment

sustainable development of the energy sector based on efficient use of local primary (renewable) energy resources, further development of the nuclear energy sector, diversification of energy supply sources and introduction of energy efficient and advanced technologies. In the medium term, meeting increases in electricity demand, energy system reliability, and affordability of electricity services are important challenge to be addressed <sup>15</sup>. The country has begun to increasingly invest in the development of renewable energy sources and, more specifically, in recent years, electricity generation at photovoltaic (PV) solar plants, with a longer-term interest in further development of wind and nuclear energy.

The effects of temperature rise and heat stress in urban areas are increasingly compounded by the phenomenon of the Urban Heat Island (UHI) effect. Dark surfaces, residential and industrial sources of heat, an absence of vegetation, and air pollution can push temperatures higher than those of the rural surroundings, commonly anywhere in the range of 0.1°C-3°C in global megacities. As well as impacting on human health (see Communities) the temperature peaks that will result from combined UHI and climate change, as well as future urban expansion, are likely to damage the productivity of the service sector economy, both through direct impacts on labor productivity, but also through the additional costs of adaptation. The Armenian economy has great dependence on activity in its capital city, Yerevan, where around half of the nation's industrial production takes place. While the economy of the city is strong, and poverty rates comparatively low, the health risks of high temperatures require consideration. The 2018 heatwave, during which a new temperature record was set in Yerevan of 42°C, illustrated the strain that extreme climate events can place on the energy system, with technical faults and high demand putting strain on the energy system. Research suggests that on average, a one degree increase in ambient temperature can result in a 0.5%-8.5% increase in electricity demand.

Heating requirements continue to be an important part of Armenian energy needs. Individual heat boilers are primarily used for heating, of which 50% use natural gas. Natural gas is followed by wood use for heating, with an estimated 35% of Armenian households using wood for heating. This is primarily driven by affordability. As the country's deforestation rates are likely to continue, the use of biomass for heating is likely to continue to the trend, which is expected to adversely affect the poorest households due to a decline in firewood availability and price increase.

#### Communities

**Poverty and Inequality**: high poverty rates prevail in Armenia. These are in part linked to high unemployment rates, but also to the poor productivity of the agricultural sector which employs around 35% of the working population. According to the Armenian Statistical Committee wages in the agriculture, fisheries, and forestry sector are the lowest of all the primary sectors. Many households are dependent on remittances received from migrant workers. Disruption of remittance flows is possible as a result of climate change but is an issue which is poorly understood. Due to potential high impacts of climate change on the agricultural sector in Armenia, alongside the increased risk of climate-related disasters, the country faces major challenges from climate change, particularly under higher emissions pathways.

Many of the climatic changes projected are likely to disproportionately affect the poorest groups in society. For instance, heavy manual labor jobs are common among the lowest paid whilst also being most at risk of productivity losses due to heat stress. Poorer businesses are least able to afford air conditioning, an increasing need given the projected increase in cooling days. Poorer farmers and communities are least able to afford local water storage, irrigation infrastructure, and technologies for adaptation. According to the FAO, most agricultural holdings remain small, with an average size of 1.4 ha, many farming households are poor and many already rely on remittances sent from household members who migrate for work during

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<sup>&</sup>lt;sup>15</sup> Armenia Power Sector Policy Note, World Bank (2016).

fallow periods on the farm.60 Climate changes, such as changes to growing seasons, extreme weather events and species range shifts (potentially resulting in new invasive species) further threatens to expose a lack of adaptability and resilience in the population dependent on the agricultural sector. The majority of agricultural small-holders are not covered by any insurance system, resulting in reduced resilience to disaster events.

Gender: An increasing body of research has shown that climate-related disasters have impacted human populations in many areas including agricultural production, food security, water management and public health. The level of impacts and coping strategies of populations depends heavily on their socio-economic status, socio-cultural norms, access to resources, poverty as well as gender. Research has also provided more evidence that the effects are not gender neutral, as women and children are among the highest risk groups. Key factors that account for the differences between women's and men's vulnerability to climate change risks include gender-based differences in time use; access to assets and credit, treatment by formal institutions, which can constrain women's opportunities, limited access to policy discussions and decision making, and a lack of sex-disaggregated data for policy change<sup>16</sup>.

Human Health: risk to human health from climate-related hazards are expected to increase. particularly under higher emissions pathways. Risks include the increased probabilities of drought, exacerbated by the loss of mountain glaciers, and heat waves. Immediate risks include heat-related sicknesses and the increased vulnerability to malaria outbreaks. These impacts are likely to be followed by the risks to nutrition of associated agricultural losses and water shortages. Experience can be drawn from the 2001 drought, which necessitated emergency food distribution by the World Food Program to around 200,000 citizens in response to high levels of malnutrition. Nutrition: The World Food Program estimate that without adaptation the risk of hunger and child malnutrition on a global scale could increase by 20% respectively by 2050<sup>17</sup>. Projections suggest there could be approximately 81 climaterelated deaths per million population linked to lack of food availability in Armenia by the 2050s. Heat-Related Mortality: research has placed a threshold of 35°C (wet bulb ambient air temperature) on the human body's ability to regulate temperature, beyond which even a very short period of exposure can present risk of serious ill-health and death. Temperatures significantly lower than the 35°C threshold of "survivability" can still represent a major threat to human health. Climate change could push global temperatures closer to this temperature "danger zone" both through slow onset warming and intensified heat waves. Armenia has also been identified as a having particularly poor air quality in many of its urban and developed areas and associated issues may be amplified by increased incidence of extreme heat<sup>18</sup>. It is estimated that without adaptation, annual heat-related deaths in the Central Asian region, could increase 139% by 2030 and 301% by 2050.

# International partnership and reporting framework

Armenia ratified the United Nations Framework Convention on Climate Change (UNFCCC) in 1993, the Kyoto Protocol in 2002 and the Paris Agreement in 2017. The country's position under the Convention and the Paris Agreement is set out in the "Intended Nationally Determined Contributions" (INDC), approved by the Government of Armenia (GoA) and submitted to the UNFCCC on 22 September 2015. With the ratification of the Paris Agreement, the INDC of Armenia became its NDC for the period of 2015 - 2050. In its updated in 2021 NDC, the Republic of Armenia intends to adhere to a ten-year NDC implementation period (2021-2030), including up-front information on the emission reductions to be achieved by 2030 and on adaptation measures to be undertaken as part of the NDC. Armenia's NDC establishes the country's strong commitment to climate change adaptation measures and identifies its

<sup>18</sup> Armenia Environmental Performance Index (2019).

Gender Equality, Poverty Reduction, and Inclusive Growth, World Bank Group (2016)
 Two minutes on climate change and hunger: A zero hunger world needs climate resilience, WFP (2015)

efforts in national greenhouse gas mitigation efforts. In Armenia, key sectors identified for adaptation action include natural ecosystems, human health, water resources management, agriculture, forestry, and fisheries, energy, human settlements, infrastructure, and tourism. Country has also delivered its <u>Fourth National Communication on Climate Change</u> (in 2020) and its <u>Third Biennial Report</u> (in 2021) under the UNFCCC.

# National strategies

In accordance with the "Strategy of the main directions ensuring economic development in agricultural sector of the Republic of Armenia for 2020-2030" and Government Programme for 2021 – 2026 the core of the agricultural policy will be the increase of agrarian efficiency, increase of the food security level, introduction of modern technologies, increase of exportation volumes, growth of profitability of all entities engaged in the entire value chain of agriculture - small households, farming cooperatives, processors, and exporters. More specifically, the Government has prioritized cooperation between education, scientific, research , and industrial sectors, supporting the introduction of new technologies and expanding non-agricultural activities in rural communities.

# **National Adaptation Planning**

On 13 May 2021, the Government of the Republic of Armenia approved the "National Action Program of Adaptation to Climate Change and the List of Measures for 2021-2025" (NAP). The general objective of the NAP is to promote the reduction and management of climate risks in Armenia. This will occur by addressing the impacts of climate change, by taking full advantage of emerging opportunities, by reducing socio-economic vulnerabilities, and avoiding losses and damages due to climate change. The process will be further supplemented by building mechanisms that enable adaptation of population as well as natural, productive and infrastructure systems. The NAP process aims to ensure coordinated deployment of sectoral and regional adaptation measures. It also unifies the strategic sector and regional investment plans in climate change adaptation.

The NAP includes a series of complementary documents, that create an information baseline for moving forward, and a set of implementable, concrete measures, identified by multiple stakeholders, that are essential to reducing current and projected climate impacts in the most vulnerable national development sectors. Among them, Sector and Marz Adaptation Plans should be mentioned. The sector adaptation plans (hereinafter - SAPs) and marz adaptation plans (hereinafter - MAPs) provide the foundation for operationalizing adaptation planning within the existing governance structures. Individual SAPs and MAPs outline the sectoral and regional responses to the challenges presented by climate change and help prioritize adaptation activities across the country. To date, SAPs for Agricultural and Water sectors and MAPs for Tavush and Shirak regions have been developed and adopted.

#### Sectorial NAPs (SAPs)

As per Agricultural SAP, the following 8 groups of priority measures are proposed to increase climate resilience of the sector:

- 1. Expansion of the list of insurable crops and risks, introduction of new insurance products;
- 2. Implementation of advanced irrigation technologies and organization of efficient agriculture;
- 3. Support to entities engaged in seed breeding and seed production in the conditions of climate change;
- 4. Support for the introduction of nursery certification system in RA;
- 5. Application of measures to mitigate the negative impact of hazardous hydrometeorological phenomena (HHMP);
- 6. Promotion and development of resource-saving agriculture;

- 7. Implementation of measures aimed at development of fodder production, improvement of fodder quality and increase of production volumes;
- 8. Capacity building of structures, agricultural farms and relevant specialists involved in agricultural sector;

As per Water SAP, the following 3 groups of priority measures are proposed to increase climate resilience of the sector:

- 1. Knowledge & adaptation capacities building for population (with specific focus at women and remote communities) and CSOs;
- 2. Coordination & enforcement of planning policies;
- 3. Investments in sustainable & reliable water services and assets:

Regional (marz) NAPs (MAPs)

As it has already been mentioned, the Marz Adaptation Plans for two regions of Armenia (Tavush and Shirak) has been developed and adopted so far decompressing priority measures to be implemented in the targeted sector taking into account regional specificities.

# **Project/Programme Objectives:**

This Project is submitted to the Adaptation Fund by National Implementing Entity "Environmental Project Implementation Unit" state agency under the Ministry of Environment of Armenia for funding solicitation under the Enhanced Direct Access framework to channel adaptation finance targeting addressing existing barriers and empowerment of regional stakeholders and beneficiaries to identify, appraise and implement projects (with participation of the private sector) aimed at increasing resilience of Armenia's vulnerable communities.

The **overall objective** of the proposed Project is to enhance the country's capacity to effectively respond to the adaptation challenges posed by climate change and enhance adaptation resilience in the regions and municipalities of Armenia through establishment of a National Adaptation Finance Facility.

## **Specific objectives** of the Project are:

- Increasing climate resilience of Armenia's regions to the impacts of climate change. This involves identifying and addressing vulnerabilities in various sectors, such as agriculture, water resources, infrastructure, and ecosystems, to ensure they can withstand the changing climate and associated risks:
- Promoting regional inclusivity by involving various stakeholders at the regional level (regional and municipal authorities, CSOs and private sector). Collaborative efforts will ensure that adaptation measures are tailored to the specific needs and conditions of different regions and municipalities within Armenia;
- ➤ Launching and operationalizing innovative financial instrument (National Adaptation Finance Facility) that will provide funding for "incremental adaptation costs", thus enabling private sector to come in with implementation funding. The facility will further fundraise to receive contributions from international donors, government budgets, private sector investments, and other funding sources to support regional adaptation projects effectively;
- ➤ Capacity-building activities to enhance the technical and institutional capabilities of regional stakeholders involved in climate adaptation. This will ensure that projects are identified, structured, implemented, and monitored effectively to maximize their impact and sustainability;
- ➤ Enhance knowledge transfer and data management to make informed decisions and develop effective adaptation resilience seeking projects. This will include assessments of

- climate risks, conducting vulnerability assessments, and using scientific data to inform decision-making processes;
- Advance policy-making and good governance reform to create an enabling environment for climate adaptation in the regions. This will include aligning marz adaptation plans (MAPs) and sectorial adaptation plans (SAPs) with climate resilience goals and integrating climate considerations into relevant policies and regulations.

By achieving these objectives, the Project aims to strengthen Armenia's ability to respond proactively and effectively to the challenges of climate change at the regional and municipal level, ultimately contributing to the country's adaptation resilience-building and safeguarding the well-being of its communities.

# EDA's rationale and Project's justification

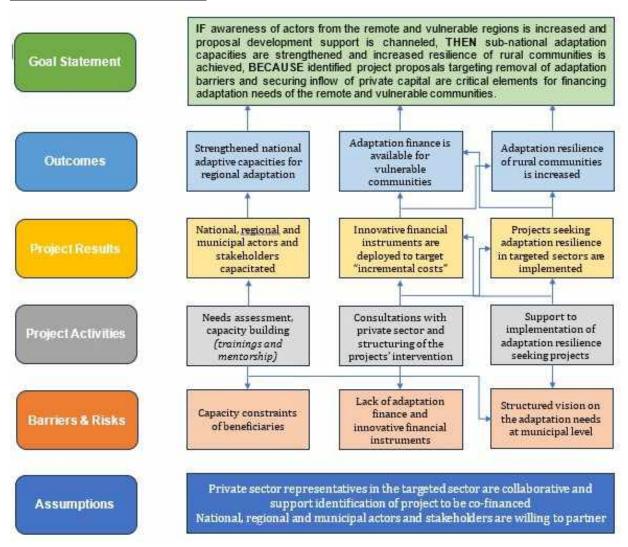
The proposed Project aims to establish a robust National Adaptation Finance Facility to reinforce Armenia's adaptive capacity, fostering resilience at regional and municipal levels. This initiative is devised to respond efficiently to the distinct adaptation challenges emerging due to climate variability in the manner described below:

- ➤ EDA suitability: EDA is identified as the ideal modality for this initiative due to its inherent structure and benefits, as it empowers sub-national entities, fostering a decentralized approach where local organizations can autonomously identify and address their specific adaptation needs. This bottom-up approach ensures that interventions are meticulously tailored to the unique socio-environmental context of different regions and municipalities in Armenia, thereby addressing the granular adaptation needs efficiently;
- ➤ Localized decision-making: Through projects supported by National Adaptation Finance Facility decentralized decision-making processes will be facilitated which will place on the forefront of the adaptation efforts the local entities, including small, community-based organizations and business entities. They will be entrusted with identifying, planning, and implementing adaptation measures that are critically aligned with their respective vulnerabilities and capacities. This decentralization enhances the relevance and effectiveness of adaptation actions, ensuring they are deeply rooted in the local context and addressing specific community-level challenges;
- Capacity building and empowerment: National Adaptation Finance Facility is not merely a funding mechanism; it's a holistic framework that builds the capacities of sub-national entities. Through EDA, local organizations in Armenia will receive not only financial support but also technical assistance and capacity-building opportunities. This empowerment enables them to take proactive measures, fostering a sense of ownership and responsibility towards sustainable adaptation practices;
- ➤ Responsive to diverse needs: Armenia encompasses regions with varied climate vulnerabilities. National Adaptation Finance Facility's flexible and inclusive approach allows for a diverse range of local organizations to actively participate and receive support, ensuring that adaptation measures are not generalized but are responsive to the particular risks and adaptive capacities of different areas;
- Strengthened accountability and transparency: With decision-making and implementation responsibilities with the engagement of local entities, there is an inherent system of accountability and transparency built into the National Adaptation Finance Facility approach. Localized management of funds and projects through Regional Climate Adaptation Committee (please refer to the Organigram of the Facility) will ensure that resources are utilized judiciously, with clear accountability mechanisms in place, fostering trust among stakeholders and beneficiaries;

➤ Community-centric adaptive solutions: By enabling sub-national entities to design and implement projects National Adaptation Finance Facility ensures that the voices and needs of communities are heard and addressed. This approach fosters community-centric solutions, with local organizations being more attuned to the socio-cultural dynamics, ensuring that adaptation measures are not only technically sound but also socially accepted and sustainable.

The proposed approach is not merely a procedural choice; it is a strategic decision aimed at fostering localized, community-centric, and efficient climate adaptation measures. National Adaptation Finance Facility will serve as a conduit for empowering local entities, nurturing their capacities, and ensuring that adaptation initiatives are deeply ingrained within the social and environmental tapestry of Armenia's diverse regions and municipalities. Through this approach, the project will not only address immediate adaptation needs but also build a foundation for sustained resilience and proactive climate action at the grassroots level in Armenia.

# **TOC Diagram of the Project:**



# Alignment of the Project with Adaptation Fund's priorities

N	Priority sectors of Adaptation Fund	AF Project Areas	Potential projects to be supported through Facility (concordant with the NAP, SAPs and MAPs)	
1.	Agriculture	Climate resilient technologies and practices:  > drought tolerant seeds; > improved irrigation systems; > sustainable land management practices;	<ul> <li>Advanced irrigation technologies;</li> <li>Seed breeding and seed production;</li> <li>Resource saving agricultural practices;</li> <li>Hydroponic food production;</li> <li>Improvement of pastures and grasslands;</li> <li>Fodder production;</li> </ul>	
2.	Disaster Risk Reduction	<ul> <li>risk and vulnerability assessments;</li> <li>strengthening climate information and early warning systems;</li> </ul>	<ul> <li>anti-hail systems;</li> <li>forest belts and windbreaks in areas most susceptible to strong winds;</li> </ul>	
3.	Ecosystem-based Adaptation	<ul> <li>wetlands management and conservation;</li> <li>river restoration;</li> <li>enhancing governance of natural resources;</li> </ul>	➤ Fish farming;	
4.	Food Security	helping farmers adapt to the changing climate;	<ul> <li>Advanced irrigation Technologies;</li> <li>Seed breeding and seed production;</li> <li>Resource saving agricultural practices;</li> <li>Hydroponic food production;</li> </ul>	
5.	Forests	<ul> <li>fight land degradation;</li> <li>create smart agricultural practices;</li> <li>integrate adaptive measures within communities to conserve their forests and rich biodiversity;</li> </ul>	forest belts and windbreaks in areas most susceptible to strong winds;	
6.	Cross-sectoral	<ul> <li>Establishment of National Adaptation Fund;</li> <li>Other cross-sectoral activities;</li> </ul>	TBD (at full proposal formulation stage following results of stakeholder consultations);	
7.	Rural Development	<ul> <li>reversing land degradation;</li> <li>enhancing ecosystem services, to improve a rural population's ability to cope with climate change as well as their ability to generate income;</li> </ul>	> <b>TBD</b> (at full proposal formulation stage following results of stakeholder consultations);	
8.	Urban Development	<ul> <li>adapting to sustainable challenges and engineering innovative ideas;</li> </ul>	> <b>TBD</b> (at full proposal formulation stage following results of stakeholder consultations);	
9.	Water Management	<ul> <li>households employing techniques to harvest rainwater;</li> <li>watersheds, where ecosystem-based adaptation can improve the ability of natural systems to function effectively, thus securing water resources on a regional</li> </ul>	Water-saving technologies;	

scale;	
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# Alignment of the Project with Adaptation Fund's Strategic Result Framework

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**Expected Results** 

Project's Alignment

Goal: Assist developing country Parties to the Kyoto Protocol and the Paris Agreement that are particularly vulnerable to the adverse effects of climate change in meeting the costs of concrete adaptation projects and programmes in order to implement climate-resilient measures.

Through establishing of the **National Adaptation Finance Facility** proposed Project seeks to enhance the country's capacity to effectively respond to the adaptation challenges posed by climate change and enhance adaptation resilience in the regions and municipalities of Armenia.

<u>Impact:</u> Increased resiliency at the community, national, and regional levels to climate variability and change.

Resiliency at the national, regional and municipal level will be increased through:

- Advancing policy making and good governance capacities of key actors and stakeholders;
- Ensuring synchronization between and on-theground delivery of the priority measures defined in the National Adaptation Plan, Sectorial Adaptation Plans, Regional (Marz) Adaptation Plans and other strategy documents;
- Introduction of the innovative financial instruments targeted towards addressing "incremental costs of the adaptation projects" and seeking engagement of the private sector actors;
- Increasing awareness of the key stakeholders and collaborators in vulnerable municipalities on the challenges of adaptation resilience in their respective communities and available mitigation instruments;

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

Output 1.2: Targeted population groups covered by adequate risk reduction systems

<u>Component 3 of the Project</u> – Channeling Adaptation Finance to the resilience building projects:

> Projects to be financed through Facility – antihail protection of the crops;

# 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 centers and networks to respond rapidly to extreme weather events

<u>Component 2 of the Project</u> – Capacitating stakeholders through mapping, needs assessment and capacity enhancement (trainings and mentorships where applicable);

Output 2.2: Increased readiness and capacity of national and sub-national entities to directly access and program adaptation finance

<u>Component 2 of the Project</u> – Capacitating stakeholders through mapping, needs assessment and capacity enhancement (trainings and mentorships where applicable):

	<ul> <li>Support in formulation of the projects seeking direct access to adaptation finance;</li> </ul>
Outcome 3: Strengthened awareness and ownership of adaptation and climate risk reduction processes at local level	
Output 3.1: Targeted population groups participating in adaptation and risk reduction awareness activities	<u>Component 2 of the Project</u> – Capacitating stakeholders;
	Under this component, awareness raising in targeted municipalities will be carried out with the purpose to: 1) increase awareness of the population on available adaptation and risk reduction activities, and 2) mobilization of the active groups among population;
Output 3.2: Strengthened capacity of national and subnational stakeholders and entities to capture and disseminate knowledge and learning	<u>Component 2 of the Project</u> – Capacitating stakeholders through mapping, needs assessment and capacity enhancement (trainings and mentorships where applicable);
Outcome 4: Increased adaptive capacity within relevant development sector services and infrastructure assets	
Output 4: Vulnerable development sector services and infrastructure assets strengthened in response to climate change impacts, including variability	Component 3 of the Project – Channeling Adaptation Finance to the resilience building projects:  ➤ Projects to be financed through Facility – strengthening infrastructure assets' (owned by households, farmers and SMEs in vulnerable regions) adaptability to the negative impacts of climate change;
Outcome 5: Increased ecosystem resilience in response to climate change and variability induced stress	
Output 5: Vulnerable ecosystem services and natural resource assets strengthened in response to climate change impacts, including variability	> <b>TBD</b> (at full proposal formulation stage following results of stakeholder consultations);
Outcome 6: Diversified and strengthened livelihoods and sources of income for vulnerable people in targeted areas	
Output 6: Targeted individual and community livelihood strategies strengthened in relation to	<u>Component 1 of the Project</u> – Decompressing policy delivery at regional and municipal level.
climate change impacts, including variability	Under this component the Project will help to translate key points from national strategies (National Adaptation Plan, Sectorial Adaptation Plans and Regional Adaptation Plans) into the local actions (including annual set of activities implemented by regional and municipal authorities).
Outcome 7: Improved policies and regulations that promote and enforce resilience measures	

Output 7: Improved integration of climate-resilience **N/A** strategies into country development plans

# <u>Outcome 8:</u> Support the development and diffusion of innovative adaptation practices, tools and technologies

Output 8: Viable innovations are rolled out, scaled up, encouraged and/or accelerated.

<u>Component 3 of the Project</u> – Channeling Adaptation Finance to the resilience building projects:

Projects to be financed through Facility – all those mentioned in the 4<sup>th</sup> column of the Table "Alignment of the Project with Adaptation Fund's priorities";

# **Project/Programme Components and Financing:**

Fill in the table presenting the relationships among project components, activities, expected concrete outputs, and the corresponding budgets. If necessary, please refer to the attached instructions for a detailed description of each term.

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

Armenia faces increasing challenges posed by climate change, which necessitates the establishment of a National Adaptation Finance Facility. This project aims to create a dedicated financial mechanism to enhance the country's capacity to respond effectively to climate impacts and promote sustainable development at the regional and municipal levels. The project, with a total budget of \$5 million, is designed with three key components: Policy Delivery, Capacitating Stakeholders, and Channeling Adaptation Finance.

# Component 1: Policy Delivery - Policy Decompression at the Regional/Municipal Level

This component focuses on ensuring that national climate adaptation policies are effectively delivered and implemented at the regional and municipal levels in Armenia. The project will involve a comprehensive policy decompression process, which translates national-level policies into actionable and region-specific guidelines, allowing for more effective implementation.

# Proposed activities:

- Conduct Regional Climate Vulnerability Assessments: the project team, in collaboration with regional stakeholders, will conduct detailed vulnerability assessments to identify the specific climate risks and challenges faced by each region and municipality;
- ➤ Regional Policy Framework Development: Based on the vulnerability assessments, a regional policy framework will be formulated, aligning national, sectorial and regional adaptation goals with the specific needs of the targeted vulnerable communities. This will involve a participatory approach, engaging local authorities, communities, and other relevant stakeholders
- Capacity Building for Policy Implementation: Workshops, training and follow up mentorship sessions will be organized to build the capacity of regional and municipal officials and stakeholders in understanding and implementing the climate adaptation policies. This will enhance their ability to integrate climate considerations into decision-making processes;
- ➤ Establish Regional Climate Adaptation Committees: To ensure effective policy delivery, Regional Climate Adaptation Committees will be established, bringing together representatives from regional and municipal governments, NGOs, private sector, and local communities to coordinate and oversee policy implementation;

<u>Component 2:</u> Capacitating Stakeholders - Mapping, Needs Assessment, and Capacity Building of Key Actors

This component aims to strengthen the capacity of key stakeholders involved in climate adaptation at the regional and municipal levels. By identifying their needs and providing targeted capacity-building initiatives, the Project seeks to enhance the effectiveness of adaptation efforts.

Proposed activities:

- > Stakeholder Mapping: A comprehensive stakeholder mapping exercise will be conducted to identify and engage relevant actors, including local NGOs, community-based organizations, academic institutions, and private sector entities;
- ➤ **Needs Assessment**: The identified stakeholders will undergo a needs assessment process to identify gaps in their knowledge, skills, and resources related to climate adaptation;
- ➤ Tailored Capacity Building: Based on the needs assessment, capacity-building programs, workshops, training and mentorship sessions will be designed and implemented to enhance the capabilities of stakeholders in planning and implementing climate resilience measures;
- Knowledge Sharing and Networking: The project will facilitate knowledge-sharing platforms and networking events, fostering collaboration and exchange of best practices among stakeholders at the regional and municipal levels;

<u>Component 3:</u> Channeling Adaptation Finance - Identification, appraisal, and financing of viable projects

This component focuses on identifying and financing viable climate adaptation projects at the regional and municipal levels. By channeling funds from the National Adaptation Finance Facility, the Project aims to support on-the-ground initiatives that enhance climate resilience.

Proposed activities:

- Project Identification and Screening: The Project team, in collaboration with stakeholders, will identify potential climate adaptation projects in different regions. These projects will undergo initial screening to ensure alignment with the regional policy frameworks;
- Project Appraisal and Feasibility Study: Viable projects will undergo a detailed appraisal and feasibility study to assess their technical, financial, social, and environmental viability. This will involve consultations with relevant experts and stakeholders.
- Financial Mechanism Setup: The National Adaptation Finance Facility will be established, including setting up the necessary financial instruments and governance structures to manage and disburse funds.

"Environmental Project Implementation Unit" State Agency under the Ministry of Environment of Armenia is national accredited entity to Adaptation Fund Green Climate Fund. It has in place all necessary policies, procedures to effectively and efficiently manage the Project (including identify, assess, finance, provide monitoring, evaluation and impact assessment to the subgranting projects). It will also engage with private sector entities to identify viable projects that are not financed due to low IRR (caused by "incremental costs") and will make sure that proposed projects, after receiving financing from Facility are capable to attract commercial funding.

**Project Financing**: Approved projects will receive funding from the facility, and mechanisms will be put in place to ensure timely disbursement and effective project monitoring and evaluation:

At the Full Proposal formulation stage specific sectors and selection criteria will be designed, based also on the results of rigorous stakeholder consultations. Indicatively, the maximum size of the grants to be made available for potential beneficiaries should be not more than 100,000 USD. Also additional selection criteria for leveraging commercial funding equivalent to 1:4 might

Project/Programme Components	Expected Concrete Outputs	Expected Outcomes	Amount (US\$)
Component 1: Policy Delivery - Policy Decompression at the Regional/Municipal Level	<ul> <li>detailed vulnerability assessments of 10 regions are carried out;</li> <li>regional policy frameworks for 10 regions are formulated;</li> <li>50 workshops, training and follow up mentorship sessions are organized to build the capacity of 500 regional and municipal officials and stakeholders;</li> <li>10 regional climate adaptation committees are established</li> </ul>	Increased regional/ municipal capacities to contribute towards formulation and execute actions deriving from National Adaptation Plan, Sectorial Adaptation Plans and Regional Adaptation Plans	300,000
Component 2: Capacitating Stakeholders - Mapping, Needs Assessment, and Capacity Building of Key Actors	and operational;  > 10 regional stakeholder mapping exercise is conducted to identify and engage 100 relevant actors;  > needs assessment of stakeholder groups is carried out;  > 50 capacity-building programs, workshops, training and mentorship sessions are designed and implemented to enhance the capabilities of stakeholders;	Capacitated stakeholders are better able to contribute towards needs identification, policy formulation and execution, as well as supporting private sector entities to implement projects seeking adaptation resilience of targeted municipalities	300,000
	<ul> <li>knowledge-sharing platform is established and operational;</li> <li>50 networking events, fostering collaboration and exchange of best practices among stakeholders at the regional and municipal levels are organized;</li> </ul>		
Component 3: Channeling Finance - Identification, appraisal, and financing of viable projects	<ul> <li>Minimum 100 climate adaptation projects in all targeted regions are identified, appraised and consulted with local/municipal stakeholders;</li> <li>Minimum 50 climate adaptation projects from all targeted regions are</li> </ul>	Adaptation resilience of vulnerable communities in Armenia is increased through implementation of locally driven projects with participation of private sector;	3,800,000

- approved for funding (minimum **20** in partnership with private sector), including:
- √ 10 projects supported in the field of climate resilient corps cultivation, utilization of drip irrigation and other water saving technologies and livestock management;
- √ 5 pilots of water harvesting, and storage are implemented;
- √ 5 demonstration projects targeting promotion of climate-resilient buildings, urban planning and greening are implemented;
- √ 5 small scale projects aimed at reforestation and advancement of sustainable management practices are supported;
- ✓ 5 interventions supporting usage of mobile technologies for transmitting weather forecasts and implementation of social protection measures are carried out;
- √ 5 demonstration projects advancing local critical infrastructure are implemented;
- √ 10 projects leveraging renewable energy for increased adaptation resilience (e.g. Agrivoltaic approach, solar-powered pumps) are supported;
- √ 5 initiatives aimed at increased awareness, gamified education and sustainable tourism benefited from financial support;

Project/Programme Execution cost	60,000
Total Project/Programme Cost	4,460,000
Project/Programme Cycle Management Fee charged by the Implementing     Entity (if applicable)	300,000
Amount of Financing Requested	4,760,000

# **Projected Calendar:**

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

Milestones	Expected Dates
Start of Project/Programme Implementation	01 September 2024
Mid-term Review (if planned)	01 September 2026
Project/Programme Closing	01 September 2028
Terminal Evaluation	10 December 2028

# PART II: PROJECT / PROGRAMME JUSTIFICATION

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

#### Intervention rationale

Establishment and operationalization of the Armenia National Adaptation Funding Facility is aimed at mitigating climate finance divide between vulnerable regions of Armenia and piloting innovative local adaptation actions towards achievement of national adaptation targets communicated through the National Adaptation Plan, Sectoral Adaptation Plans (so far approved for agriculture and water sectors, remaining ones are under design) and Marz (regional) Adaptation Plans (for 2 regions are approved and remaining 8 are in the pipeline).

"Environmental Project Implementation Unit" State Agency under the Ministry of Environment of Armenia, being nationally accredited entity with the Adaptation Fund and Green Climate Fund, will serve as secretariat and ensure management of targeted (sectorial and regional) call for small project proposals.

## Operational framework of the Armenia National Adaptation Funding Facility

Operational/Management framework of the Armenia National Adaptation Funding Facility will be comprised of the following functions:

**Steering Committee:** The Steering Committee will play a crucial role in providing strategic direction and oversight to the Armenia National Adaptation Funding Facility. Comprised of 7 representatives from key stakeholders, including government officials, climate

experts/influencers, key donor agencies and civil society organizations, the Steering Committee will guide the overall vision, objectives, and policies of the Fund. It will approve funding priorities, reviews recommendations of independent assessment group and approve project proposals, as well as ensure the effective utilization of resources. The committee also will be responsible for reviewing and approving project implementation monitoring and evaluation reports, ensuring transparency, accountability, and alignment with the Fund's goals.

"Environmental Project Implementation Unit" State Agency under the Ministry of Environment of Armenia: will acts as the central coordinating body responsible for managing the day-to-day operations of the Fund. It will facilitate the submission of project proposals, ensure compliance with funding guidelines, provide mentorship support and guidance to the Regional Climate Adaptation Committee (to be established in all 10 regions of Armenia) and oversee the disbursement of funds to approved projects. The EPIU will also play a vital role in financial management, budget allocation, and reporting to the Steering Committee and relevant stakeholders. Additionally, it will establish partnerships with implementing entities and ensure efficient coordination among all parties involved in project implementation. Also, the EPIU, as the executing entity, will be responsible for the knowledge management component of the project. EPIU's role involves coordinating and integrating all knowledge-related activities within the project's framework, ensuring that knowledge management is effectively implemented throughout the project lifecycle.

Roster of Assessors: The roster of assessment experts will consist of 10-12 highly qualified and impartial professionals in various fields related to climate adaptation. The groups of 3 to 5 assessors will be established each time to review proposals submitted under specific solicitations (sector, sub-sector or region specific) issued by the Armenia National Adaptation Funding Facility. They assess project effectiveness, efficiency, and impact, providing valuable insights and recommendations to the Steering Committee for evidence-based decision-making. The experts' role ensures rigorous scrutiny of project proposals and enhances the overall quality and accountability of the Fund's activities.

Regional Climate Adaptation Committees: These committees operate at the regional level and are tasked with conducting thorough climate needs assessments within their respective areas. Comprising climate experts, local authorities, community representatives, and relevant stakeholders, these committees identify and prioritize climate vulnerabilities, risks, and adaptation opportunities. They engage in stakeholder mobilization and community consultations to ensure that adaptation measures address the specific needs and contexts of the regions they represent.

Beneficiaries on the Ground: The beneficiaries encompass a diverse group of stakeholders, including private sector entities, civil society organizations, social enterprises, business associations, and regional and municipal authorities. They are the ultimate recipients of the adaptation initiatives supported by the Fund. Beneficiaries play a vital role in project implementation, ensuring that adaptation measures are effectively applied at the grassroots level. Their active involvement fosters local ownership, social acceptance, and sustainability of adaptation actions, contributing to building resilient communities and ecosystems in the face of climate change impacts.

Step-by-step description of the sub-granting approach

Step 1. – Definition of the regional climate change priorities to be supported by the Facility

Regional Climate Adaptation Committees, with the coordination from EPIU are implementing consultations with the local organizations comprising of private sector entities<sup>19</sup>, civil society

<sup>&</sup>lt;sup>19</sup> **Conflict of Interest Disclaimer:** Private sector entities, NGOs, social enterprises, and business associations that obtain voting membership in the Regional Climate Adaptation Committees will not be eligible to submit proposals for sub-grants. Nevertheless,

organizations, social enterprises, business associations, and regional and municipal authorities with the purpose to identify the priority list of sectors/subsectors/topics for potential support from the Armenia National Adaptation Funding Facility.

# <u>Step 2.</u> – Approval of the regional funding priorities

Seering Committee review submissions from the Regional Climate Adaptation Committee and approve the region-specific lists of potential intervention areas (sectors/sub-sectors/topics). EPIU, acting as secretary to the Steering Committee ensure proper coordination, alignment with the priorities of Adaptation Fund and, when necessary, implements consultations with the Adaptation Fund.

# <u>Step 3.</u> – Launch of the Call for Proposals

Based on the region-specific list of potential intervention areas (approved by the Steering Committee) and approved by the Steering Committee Sub-granting Manual<sup>20</sup>, EPIU launches and administers the Call for Proposals. Also, it provides regular updates to the Steering Committee on the progress and key milestones of the process.

# Step 4. – Review of the proposals received

EPIU is assigning assessors (3-5 assessors for each proposal out of the list of 10-12 experts) to review and score each proposal received in the response to the Call for Proposals. Assessment matrix is to be developed beforehand and annexed to the Sub-granting Manual. The review process is anonymous and nobody except a few responsible officials from EPIU (that will sign Non-Disclosure Agreement beforehand) is aware about details of the assessors and project proposals they are reviewing.

EPIU consolidates responses from assessors and after screening submits recommendations on the awards to the Steering Committee.

## **Step 5.** – Approval of the sub-grants

The Steering Committee reviews assessment of the experts and recommendations from EPIU and decides on the award of sub-grants. The process is carried out in accordance with the requirements of the Sub-granting Manual.

#### **Step 6.** – Publication of the information about the awards

Once the decision on the award of sub-grants is taken by the Steering Committee the EPIU communicates results of the selections to the entities submitted proposal in the response to the call for proposals. If requested by latters, EPIU should also provide de-briefings to unsuccessful bidders in the manner and within the timelines described in the Sub-granting Manual.

# Step 7. – Appeal

Unsuccessful bidders will have the opportunity to appeal to the Steering Committee to review their respective decision. The procedure should be described in detail in the Sub-granting Manual. However, no sub-granting award should be signed until the timeline for appeal is passed, or the Steering Committee review all appeals, makes final decisions and notifies

the Regional Climate Adaptation Committees may, on a non-voting basis, invite such organizations to contribute their insights, experiences, and recommendations in establishing funding priorities for their respective regions.

<sup>&</sup>lt;sup>20</sup> Sub-granting Manual will be designed on the full proposal development stage and annexed to the Final Proposal.

unsuccessful bidders.

### **Step 8.** – Signature of sub-granting agreement and commencement of the Projects

Once the decision on sub-granting awards is in force, EPIU signs the agreements (model agreements will be designed by EPIU beforehand and approved by the Steering Committee) with successful entities. Proposals submitted in the response to the Call for Proposals should be annexed to this agreements, and key provisions/commitments will have to become mandatory for implementation (otherwise laying the ground for the termination of the Agreement).

## <u>Step 9.</u> – Implementation arrangements for the sub-grants

Agreements, signed by EPIU should contain the following mandatory requirements:

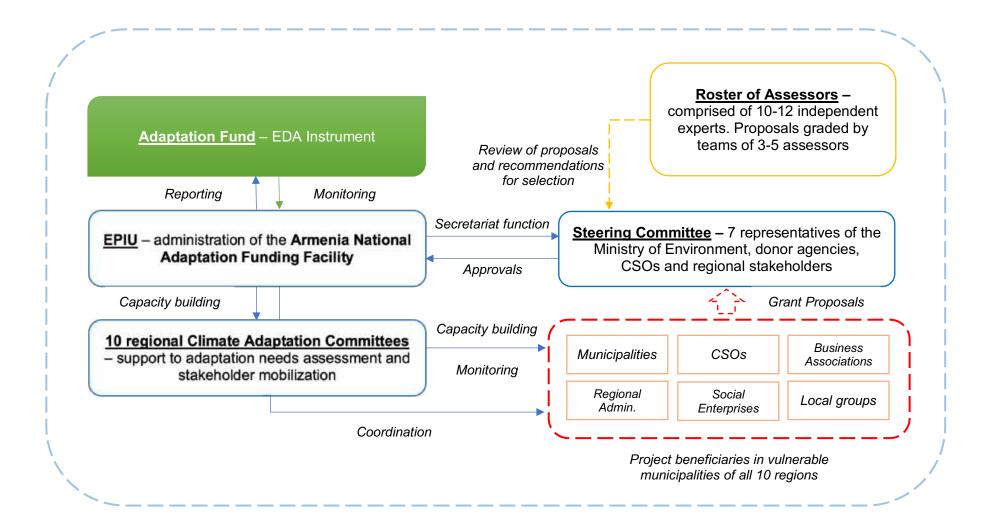
- Key milestones, Project phases and payment structure tailored to the latters;
- Reporting arrangements;
- Monitoring arrangements;
- Audit requirements;
- Termination clause;

Based on these, EPIU will implement regular monitoring of the Projects' implementation and provide the Steering Committee with regular briefings.

## Step 10. – Impact assessment

Within one year after completion of the projects, EPIU commissions implementation of the impact assessment to the professional consulting company.

## Organigram of the operations of the Armenia National Adaptation Funding Facility:



## Priorities of the Armenia National Adaptation Funding Facility

During Full Proposal development stage comprehensive needs assessment and mapping (through desk research and rigorous stakeholder consultations) will be carried out to establish more specific regional, municipal and sectorial adaptation priorities for the call for proposal. However, initial consultations with key beneficiary and stakeholder groups revealed the following list of potential sectors and sub-sectors to be targeted, as well as specific measures to be supported:

### 1. Agriculture and Food Security:

- > Climate-Resilient Crop Cultivation: Supporting farmers in adopting climate-resilient crop varieties and sustainable farming practices to enhance food security through enhancing access to climate resilient seed varieties, providing capacity building for sustainable farming practices, supporting exchange of experience among beneficiaries and providing market access channels
- > Irrigation and Water Management: Implementing water-efficient irrigation systems and water management practices to cope with changing precipitation patterns via financing installation of the drip irrigation systems and other water efficient technologies, facilitating knowledge management practices on water management and conservation technologies;
- > Livestock Management: Promoting climate-smart livestock practices to improve animal welfare and maintain productivity in the face of climate stresses. More specifically, support to the projects aimed at breeding livestock varieties that are resilient to climate stresses (heat and drought), cultivating pasture management practices aimed at improving forage quality and availability, piloting index-based insurance products to protect livestock keepers from climate-induced losses, capacity enhancement for livestock keepers on climate-smart livestock management practices will be implemented through the facility

#### 2. Water Resources:

- Water Harvesting and Storage: Developing small-scale water harvesting and storage systems to secure water supply during periods of water scarcity through supporting construction of community/farm-level water harvesting and storage systems such as rooftop water harvesting systems, small ponds and reservoirs under community management,
- > Watershed Management: Implementing measures to protect and restore watersheds, ensuring sustainable water availability for communities and ecosystems via financing watershed restoration and conservation projects (planting native and drought-resistant trees in watershed areas), advancement of local capacities in the field of watershed protection:

#### 3. Infrastructure and Built Environment:

- > Climate-Resilient Buildings: Integrating climate resilience features into infrastructure development, including earthquake-resistant and weatherproof structures. More specifically, it is expected that Facility will finance the projects in the following sectors/subsectors: training of construction companies, architects and engineers in the filed of climate resilient construction practices, including retrofitting of existing public/private buildings, designing models of affordable and climate resilient housing for rural communities and implementation of awareness raising activities;
- > Urban Planning and Green Spaces: Incorporating climate adaptation considerations into urban planning and creating green spaces to mitigate heat island effects through implementation of the projects to increase urban green covers and green corridors, construction of the sustainable urban drainage systems to manage rainwater runoff, reduce flooding risks, and create greener urban environments, introduction of the climate

resilient urban master-planning (integrating climate resilience into the regional city's master planning and zoning regulations)

## 4. Biodiversity and Ecosystems:

- ➤ Ecosystem Restoration: Undertaking projects to restore degraded ecosystems, such as reforestation and wetland rehabilitation, to enhance biodiversity and ecosystem services. More specifically ecosystem restoration initiatives (afforestation, reforestation, wetland rehabilitation), community-based conservation projects (biodiversity conservation and sustainable management practices);
- ➤ **Protected Area Management:** Strengthening management of protected areas to conserve biodiversity and enhance resilience to climate impacts via development and implementation of adaptive management plans for protected areas,

## 5. Community Resilience and Social Protection:

- ➤ Early Warning Systems: supporting development of community-based early warning systems to alert on imminent climate related risks. This could be carried out through design/customization of mobile applications that will provide information about extreme weather events and further guidance to the farmers:
- ➤ Social Safety Nets: Implementing social protection measures to support vulnerable communities during climate-related emergencies via establishing climate-related emergency fund (for vulnerable communities) and rolling out protection schemes

#### 6. Disaster Risk Reduction:

- ➤ Community-Based Disaster Preparedness: Enhancing community resilience through disaster preparedness and risk reduction measures. Potential activities to be supported include development of the community disaster response and evacuation planning and financing small-scale infrastructure projects that enhance community resilience to disasters, such as elevated roads, embankments, and community shelters;
- Climate-Resilient Infrastructure: Upgrading critical infrastructure (roads and transportation systems, water supply and sanitation facilities, energy systems, critical public buildings, flood protection and management) to withstand extreme weather events and reduce disaster risks;

## 7. Renewable Energy:

Promoting use of solar powered water pumps for irrigation in rural communities and utilization of Agrivoltaic technology (installation of solar PV modules on farmlands);

## 8. Education and Awareness:

Climate Change Education: Integrating climate change education into school curricula and awareness campaigns to foster climate-resilient behaviors, raising awareness among community members about climate risks and adaptive measures, enhancing the knowledge and skills of professionals in various sectors (in fields like agriculture, healthcare, urban planning, and emergency management) to address climate risks and implement resilience measures

#### 9. Tourism and Cultural Heritage:

- > Sustainable Tourism: Promoting climate-responsible tourism practices to protect cultural heritage and natural landscapes with specific focus on development of eco-tourism sites and promotion of associated businesses, construction/advancement/retrofitting facilities;
- ➤ Cultural Heritage Preservation: Safeguarding cultural heritage sites from climate impacts through conservation and adaptive measures.

While "Environmental Project Implementation Unit" State Agency under the Ministry of Environment of Armenia has significant experience and expertise in implementing multi-million projects in adaptation domain and targeting vulnerable regions and communities of Armenia, meantime, it still needs to establish sub-granting procedures and adopt respective manuals that will be required for successful implementation of this Project. Thus, during the Full Funding Proposal Preparation stage sub-granting manual and other necessary guidance will be developed and approved by the "Environmental Project Implementation Unit" State Agency.

## <u>Complementarity and coherence of the projects supported by the Armenia National</u> Adaptation Funding Facility

The combination of individual projects financed by the National Adaptation Finance Facility will work synergistically to contribute to the overall increase in resilience of the vulnerable regions in Armenia. Each project, designed to address specific challenges in various sectors and subsectors, will collectively reinforce and complement one another, resulting in a comprehensive and integrated approach to building climate resilience. Here's how the combination of individual projects will contribute to the overall increase in resilience:

- Cross-Sectoral Approach: The diverse set of projects spanning different sectors and sub-sectors, such as agriculture, water resources, infrastructure, biodiversity, and public health, ensures a cross-sectoral approach to climate adaptation. Resilience-building efforts in one sector can positively impact other sectors, leading to a more resilient and interconnected system;
- 2. **Multi-Level Governance:** With projects implemented at both the regional and municipal levels, the combination allows for adaptive governance and decision-making processes that are responsive to local conditions and needs. Regional projects can be tailored to address specific vulnerabilities, while municipal projects can target localized challenges, enhancing overall adaptation capacity;
- 3. **Complementary Actions:** Individual projects will be identified to complement each other, with one project's outputs serving as inputs or prerequisites for others. For example, a project focused on watershed management may contribute to enhanced water availability for another project implementing climate-resilient agriculture practices;
- 4. Enhancing Community Resilience: Projects targeting community resilience, early warning systems, and social safety nets will empower vulnerable communities to withstand and recover from climate impacts. These community-level efforts create a foundation for overall regional resilience, as strong and adaptive communities can contribute to the success of other projects;
- Ecosystem-Based Adaptation: Projects focused on ecosystem restoration and biodiversity conservation will contribute to the resilience of natural ecosystems. Healthy and resilient ecosystems provide vital services, such as flood regulation and water purification, benefiting other sectors and reducing vulnerability to climate hazards;
- 6. **Infrastructure Resilience:** Projects aimed at climate-resilient infrastructure and green urban planning will protect critical assets and reduce vulnerability in cities and towns. Climate-proofed infrastructure ensures the continuity of essential services during extreme weather events, reinforcing overall regional resilience;
- 7. **Risk Reduction and Preparedness:** Projects addressing disaster risk reduction and preparedness will build the capacity of communities and institutions to anticipate, respond to, and recover from climate-related disasters. This reduces the potential for long-term damages and disruptions to other development initiatives;

- 8. Leveraging Financing: The combination of projects creates opportunities for leveraging funding from various sources, including national budgets, international donors, private investments, and climate funds. This enhances the overall financial capacity to implement multiple projects simultaneously and at scale;
- 9. Learning and Knowledge Exchange: As different projects are implemented across regions, lessons learned and best practices can be shared and disseminated. This knowledge exchange fosters continuous improvement, adaptive management, and replication of successful approaches to increase resilience.
- 10. Long-Term Sustainability: The collective impact of these individual projects contributes to the long-term sustainability of climate resilience efforts. As regional and municipal governments integrate adaptation into their development plans, resilience-building becomes a continuous process rather than a one-time initiative.

By combining diverse projects that address various aspects of climate resilience, the National Adaptation Finance Facility in Armenia will ensure a holistic and integrated response to the challenges posed by climate change. The collective effort of these individual projects will lead to an overall increase in resilience, strengthening the capacity of vulnerable regions to cope with the impacts of a changing climate and promoting sustainable development for the future.

## Stakeholders' engagement

During July 27 - August 1, 2023, the experts responsible for the design of Concept Note along with representatives of EPIU visited the pre-identified communities in 6 regions of Armenia and conducted focus group discussions with the engagement local residents, community leaders, and representatives of local organizations were organized to obtain insights from various stakeholder groups. These discussions provided a platform for stakeholders to express their views, concerns, and suggestions regarding the project. Separate discussion was conducted for different stakeholder segments, including marginalized and vulnerable communities, to ensure that their unique perspectives were captured.

Consultation venues were selected to be easily accessible to all, including individuals with disabilities. Information was presented in formats and languages understandable to various groups, taking into account literacy levels and language preferences. Efforts were made to ensure representation of marginalized and vulnerable groups in consultation processes. Invitations were extended through community organizations, NGOs, and networks that work closely with these groups. Multiple channels, including anonymous options, were provided for stakeholders to share their feedback and concerns, allowing individuals who might be hesitant to speak in public forums to express their views.

Incorporating feedback into project design:

- > Feedback compilation: All feedback and suggestions collected during consultations were compiled and analyzed systematically.
- Integration of concerns and suggestions: Stakeholder concerns and suggestions were integrated into the project design where feasible and appropriate. Modifications were made to address the needs and priorities of marginalized and vulnerable groups, ensuring the project is inclusive and equitable.
- > Responsive design: The project design was refined to reflect the aspirations, needs, and concerns of all stakeholders, including vulnerable and marginalized communities, thereby ensuring that the initiative is responsive and relevant to the target beneficiaries.
- Feedback communication: Stakeholders were informed about how their feedback was incorporated, promoting transparency and building trust among the project's intended beneficiaries and partners.

Through a series of structured and inclusive consultation methods, the project team engaged with a wide range of stakeholders, ensuring that their views, including those of marginalized

and vulnerable individuals and communities, were considered and incorporated into the project design. This inclusive and participatory approach ensures that the project addresses the needs and concerns of all relevant stakeholders, fostering wider support and engagement for successful project implementation.

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

The proposed Project that targets the establishment of a National Adaptation Finance Facility for the regions of Armenia is designed to provide significant economic, social, and environmental benefits, with a specific focus on the most vulnerable communities and vulnerable groups within these communities, while also focusing on gender considerations. The Project aims to avoid or mitigate negative impacts by adhering to the Environmental and Social Policy and Gender Policy of the Adaptation Fund. Here's a detailed description of how the project achieves these objectives:

#### **Economic Benefits:**

- ➤ **Job Creation and Livelihood Enhancement:** By investing in climate adaptation projects at the regional and municipal levels, the Project generates employment opportunities, especially in rural areas. Climate-resilient agriculture, water management, and infrastructure projects can enhance productivity and income, thereby improving the economic conditions of vulnerable communities:
- ➤ Increased Investment and Revenue: The Project's focus on climate-resilient infrastructure and sustainable tourism practices can attract private investments and promote responsible tourism. These investments contribute to local economies and generate revenue for the regions;
- ➤ Reduced Economic Losses: By building climate resilience in critical sectors like agriculture and water resources, the Project will help to reduce losses caused by extreme weather events and climate-related disasters. This preserves livelihoods and protects valuable assets;

#### Social Benefits:

- ➤ Community Empowerment: The Project will deploy a participatory approach, engaging local communities and stakeholders in decision-making processes. This empowerment enables vulnerable communities to contribute their knowledge and priorities, ensuring that projects address their specific needs effectively:
- ➤ Enhanced Public Health and Well-being: Climate-resilient infrastructure and early warning systems contribute to improved public health outcomes by reducing the health risks associated with extreme weather events, such as heatwaves and floods.
- ➤ Social Inclusion and Gender Considerations: The Project recognizes the importance of gender equality and social inclusion. It ensures the active participation of women and marginalized groups in project planning, implementation, and decision-making, ensuring that their voices are heard and their needs are met;

#### **Environmental Benefits:**

➤ Ecosystem Restoration and Biodiversity Conservation: Projects focusing on ecosystem-based adaptation and biodiversity conservation contribute to the restoration of natural habitats, protection of wildlife, and the preservation of ecosystem services essential for local communities;

> Sustainable Resource Management: Water resources management, climate-resilient agriculture, and renewable energy projects contribute to the sustainable use of natural resources, reducing environmental degradation and enhancing ecosystem health;

## **Vulnerable Communities and Groups:**

- ➤ Targeted Investments: The Project will strategically direct resources towards the most vulnerable regions and communities, prioritizing areas with higher climate risks and limited adaptive capacity;
- Social Safety Nets: The Project will target implementation of the social protection measures to support vulnerable groups, ensuring their access to basic services and support during climate-related emergencies;

#### **Gender Considerations:**

- ➤ Gender roles and responsibilities: In the targeted regions, traditional gender roles significantly influence how men and women interact with environmental resources. Men are typically more involved in heavy labor-intensive activities such as working at the stone pits and responding to floods, while women mainly engage in sectors like education, healthcare, and agriculture, and bear the brunt of domestic responsibilities. This division of labor means that men and women experience the impacts of environmental degradation and climate change differently. Women, in particular, may face increased burdens due to resource scarcity and are often underrepresented in decision-making processes related to environmental management.
- ➤ Access to resources and services: There is a noticeable disparity in access to resources between men and women in the target communities. Women often have limited access to land ownership, credit facilities, and technical agricultural training, hindering their ability to adapt to climate change effectively. This project will strive to bridge these gaps by ensuring equal access to resources and services, including targeted support for women in areas such as sustainable agriculture practices and resource management.
- ➤ Participation in project Activities: Cultural norms and socioeconomic factors can limit women's participation in community-level environmental initiatives. The project will actively work to remove these barriers, ensuring equitable participation of both men and women in all project activities. This includes special efforts to engage women in training sessions, community meetings, and decision-making processes related to environmental management and adaptation strategies.
- ➤ Gender-sensitive project design and implementation: The project is designed to be sensitive to the different needs, roles, and contributions of men and women. This includes the consideration of gender-specific vulnerabilities in the planning of flood mitigation and waste management strategies. The project will also support women's empowerment by creating opportunities for them to lead and participate in community adaptation initiatives.
- ➤ Monitoring and evaluation: Gender-specific indicators will be integrated into the project's monitoring and evaluation framework. This will include the collection of sex-disaggregated data to assess the differential impacts of the project on men and women. This data will inform ongoing project adjustments to ensure gender equity in project benefits.
- ➤ **Policy alignment:** This gender analysis aligns with the Adaptation Fund's commitment to promoting gender equality and women's empowerment. The project's approach is also in line with Armenia's national gender policies, contributing to broader objectives of gender equity and inclusion.
- Capacity building on gender issues: To ensure a gender-sensitive approach throughout the project lifecycle, capacity-building activities on gender issues will be provided for project staff and local stakeholders. This training will enhance their understanding of gender

dynamics and equip them with the skills to integrate gender considerations into their work effectively.

## **Avoidance and Mitigation of Negative Impacts:**

- ➤ Environmental Safeguards: The Project adheres to the Environmental and Social Policy of the Adaptation Fund, implementing appropriate safeguards to avoid and mitigate negative environmental impacts;
- Social Safeguards: To prevent and address social risks, the Project will incorporate social safeguards to protect the rights and well-being of affected communities, particularly vulnerable groups;
- ➤ Continuous Monitoring and Evaluation: The Project will establish a robust monitoring and evaluation system to identify and address any potential negative impacts promptly. Lessons learned are to be used to improve project implementation continuously;

By adhering to the Environmental and Social Policy of the Adaptation Fund, the Project will ensure that the benefits of climate adaptation initiatives are maximized while minimizing potential negative impacts on the environment and vulnerable communities (categories B and C). The combination of economic, social, and environmental benefits, along with gender considerations, will help to build resilience and create a more sustainable and inclusive future for the regions of Armenia.

### Characteristics of final beneficiaries and ensuring equitable distribution of benefits

The National Adaptation Funding Facility is committed to serving a broad spectrum of beneficiaries, with particular attention to marginalized and vulnerable groups. Through deliberate planning, participatory approaches, and vigilant monitoring, the project endeavors to distribute benefits equitably, thereby fostering inclusiveness and resilience for all vulnerable communities within Armenia's diverse socio-geographic landscape (detailed listing of these communities and specific vulnerabilities will be carried out during full funding proposal design stage). The outlined strategies will ensure that the provision of support is not only extensive but also deeply attuned to the nuanced needs and priorities of Armenia's population.

**Identification of end beneficiaries:** the final beneficiaries of the National Adaptation Finance Facility are diverse, residing in various geographic locations within Armenia, each facing unique climate adaptation challenges. Key characteristics of the targeted final beneficiaries include:

- ➤ Marginalized and vulnerable groups: Special emphasis is placed on supporting marginalized communities and individuals who are disproportionately affected by climate change due to socio-economic factors. These encompass low-income households, the elderly, and people with disabilities who possess limited adaptive capacities:
- ➤ Women and youth: Recognizing the pivotal role of women and youth in climate action, the National Adaptation Finance Facility aims to empower these groups, fostering their participation in decision-making processes and supporting initiatives that particularly address their adaptation needs;
- ➤ Rural communities: Given that rural areas in Armenia are significantly dependent on climate-sensitive sectors like agriculture, rural communities form a crucial beneficiary group. These communities often lack access to resources and technology, making them particularly vulnerable to climate impacts;
- ➤ **Urban dwellers in at-risk zones:** Urban residents living in areas prone to climate risks such as flooding and heat islands also constitute key beneficiaries. These individuals often lack adequate housing and public services, necessitating targeted adaptation interventions;

➤ Ethnic, cultural and religious minorities: While Armenia's population is 96% indigenous, ethnic minorities residing in the country are facing specific vulnerabilities as they reside in concentrated areas adjacent to the vulnerable regions and will be considered important beneficiaries.

**Geographical characteristics/regions prone to climate hazards:** The project is designed to serve regions and municipalities that are highly susceptible to various climate hazards including droughts, floods, and severe weather events. Geographical targeting will be aligned with Armenia's climate vulnerability mapping to ensure that areas facing the highest risks receive prioritized attention and support.

## **Ensuring equitable distribution:**

- Needs-based allocation: The National Adaptation Funding Facility will adopt a needs-based funding allocation approach, ensuring resources are directed towards beneficiaries who need them most. This approach considers the vulnerability and adaptive capacity of different groups and regions;
- Participatory planning: Engaging beneficiaries in the planning and decision-making processes is fundamental. Through inclusive participatory approaches, the needs and priorities of various beneficiary groups, including marginalized and vulnerable individuals, are identified and addressed. More descriptive information will be provided through final funding proposal;
- Capacity building for marginalized groups: Dedicated capacity-building initiatives will be implemented to empower marginalized and vulnerable groups. This ensures they not only benefit from the project but also actively participate in and contribute to climate adaptation actions.
- ➤ Monitoring & evaluation for equity: An equity-focused Monitoring and Evaluation (M&E) framework will be developed and utilized to track the distribution and impact of benefits among different beneficiary groups. This tool will inform adaptive management strategies to enhance equity and inclusiveness continually.

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

The chosen bottom-up approach of the Armenia National Adaptation Funding Facility, complemented by other strategic considerations, forms the core of our project's methodology, ensuring that it is the most logical and cost-effective solution for addressing the identified climate risks and impacts. The following factors further justify the approach:

- ▶ Project scale and scope: The project's scale and scope are meticulously planned to enhance cost-effectiveness. By focusing on the most critical vulnerabilities within the regions, the project avoids the pitfalls of larger, more generalized initiatives. This targeted approach ensures that the budget is used efficiently, delivering high-impact results where they are most needed. A well-sized project, addressing key issues, offers a more sustainable and impactful solution compared to broader, less focused efforts.
- ➤ Integrated and cross-sectoral approach: Adopting an integrated approach that spans across different sectors adds to the cost-effectiveness of the project. By tackling multiple climate adaptation challenges concurrently and finding synergies between various sectors, the project maximizes resource utilization. This holistic approach not only ensures a comprehensive response to climate risks but also enhances the overall impact of the project, making it more sustainable in the long run.
- > Innovation and technology: The integration of innovative practices and technologies plays a vital role in enhancing the project's cost-effectiveness. The use of climate-resilient and sustainable technologies, for instance, can significantly reduce maintenance costs

over time and amplify the project's impact. These technologies and practices represent an investment in future-proofing the regions against climate risks, ensuring that the project's benefits extend well into the future.

Comparing this with a top-down approach, it becomes evident that the bottom-up strategy, with its focus on local involvement, specific vulnerabilities, and integrated solutions, is more cost-effective. A top-down approach, even when inclusive of stakeholder participation, often lacks the granular understanding of local needs and may result in less effective and cost-efficient outcomes. In contrast, the bottom-up approach, complemented by a well-defined project scale, an integrated methodology, and the use of innovative technologies, ensures that the project is both economically viable and sustainable.

And finally, the engagement of the private sector for co-financing is a pivotal aspect of our project's strategy, enhancing its overall impact and sustainability. The involvement of private entities not only diversifies the funding base but also brings in valuable expertise, innovation, and efficiency in project implementation. By collaborating with the private sector, the project can leverage additional resources, both financial and technical, which are crucial for scaling up the adaptation efforts and ensuring their long-term viability. This partnership approach aligns with modern sustainable development practices, where public-private collaborations play a key role in achieving comprehensive and enduring climate adaptation outcomes. The private sector's contribution, therefore, is not just a financial boost but an integral part of the project's framework, driving it towards greater success and sustainability.

The detailed cost-benefit analysis will be carried out during the Full Proposal preparation stage to compare the costs and outcomes of different projects or interventions. In the context of the proposed Project.

D. Describe how the project/programme is consistent with national or sub-national sustainable development strategies, including, where appropriate, national adaptation plan (NAP), national or sub-national development plans, poverty reduction strategies, national communications, or national adaptation programs of action, or other relevant instruments, where they exist.

The proposed Project is architected in a manner to be consistent with the country's national and sub-national sustainable development strategies. It aligns with various key documents, including the National Adaptation Plan (NAP), Sectoral Adaptation Plans (SAPs), and Marz (regional) Adaptation Plans (MAPs) in the following manner:

➤ National Adaptation Plan (NAP): The Project is highly relevant to the National Action Program of Adaptation to Climate Change and the List of Measures for 2021-2025 (NAP). The NAP's general objective is to promote the reduction and management of climate risks in Armenia by addressing climate change impacts, reducing vulnerabilities, and avoiding losses and damages. The project directly aligns with these objectives as it aims to provide a dedicated financial mechanism to support the implementation of adaptation measures identified in the NAP.

Furthermore, the Project's focus on key sectors, such as agriculture and food security, water resources, infrastructure, biodiversity and ecosystems, community resilience, disaster risk reduction, renewable energy, education and awareness, and tourism and cultural heritage, closely aligns with the priorities identified in the NAP. By targeting these sectors and implementing adaptation measures such as promoting climate-resilient crop cultivation, water harvesting and storage, integrating climate resilience features into infrastructure development, and supporting renewable energy practices, the project contributes to building climate resilience, enhancing adaptive capacity, and fostering sustainable development in line with the NAP's strategic goals. Through its alignment with the NAP and its focus on key

sectors, the proposed project demonstrates a comprehensive approach to addressing climate change impacts and strengthening Armenia's resilience to climate risks.

> Sectoral Adaptation Plans (SAPs): The SAPs serve as the foundation for operationalizing adaptation planning within specific sectors and regions, outlining sector-specific adaptation measures and strategies to address the challenges presented by climate change. The Project aligns with the priorities identified in the Agricultural SAP and Water SAP by targeting key measures that enhance climate resilience in these sectors.

In alignment with the Agricultural SAP, the project focuses on supporting climate-resilient crop cultivation, implementing advanced irrigation technologies, and promoting climatesmart livestock management. These measures directly contribute to building climate resilience in the agricultural sector, enhancing food security, and enabling farmers to cope with changing climate conditions, as identified in the SAP.

Similarly, the project aligns with the priorities identified in the Water SAP by emphasizing water harvesting and storage systems, as well as watershed management. These measures directly address the SAP's goal of securing water supply during periods of scarcity and ensuring sustainable water availability for communities and ecosystems.

By closely aligning with the priorities outlined in the SAPs, the proposed project ensures a targeted and effective approach to adaptation planning and implementation in the agriculture and water sectors. It provides the necessary financial mechanism to support the implementation of sector-specific adaptation measures, further reinforcing Armenia's efforts to enhance resilience and manage climate risks in these critical sectors.

Marz (regional) Adaptation Plans (MAPs): The Project is consistent with the Regional Adaptation Plans, which focus on addressing the climate vulnerabilities and needs of specific regions within Armenia.

The MAPs are designed to address the climate vulnerabilities and adaptation needs of specific regions within Armenia, taking into account regional specificities. The Project aligns with the priorities identified in the MAPs for Tavush and Shirak regions by targeting key measures to enhance climate resilience in these regions.

In alignment with the MAPs, the Project aims to implement region-specific adaptation measures to address the unique challenges and opportunities presented by climate change in Tavush and Shirak. By providing the necessary financial resources and support, the project enables the implementation of identified adaptation measures, as decompressed in the MAPs, tailored to the specific needs of each region.

The project's focus on enhancing community resilience through disaster preparedness and risk reduction measures aligns with the goals outlined in the MAPs. By strengthening disaster preparedness and upgrading critical infrastructure, the project contributes to building climate resilience and reducing vulnerabilities in vulnerable regions. Furthermore, the project's promotion of climate-responsible tourism practices aligns with the MAPs' aim to protect cultural heritage and natural landscapes in these regions. By fostering sustainable tourism and safeguarding cultural assets, the project supports the region's resilience to climate impacts while promoting responsible and sustainable development.

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

Compliance with the national standards will be described in detail in the Full Funding Proposal following the mapping of vulnerable regions and sectors/subsectors to be financed by the National Adaptation Funding Facility.

Ensuring alignment with Adaptation Fund's Environmental and Social Policy require that projects

supported address the adverse impacts of climate change while avoiding unnecessary environmental and social harms. The relevance of the Project to the ESP can be described as follows:

**Environmental and Social Management Commitment:** The Project demonstrates a strong commitment to environmental and social management by incorporating an environmental and social management system. The implementing entities involved in the project will be responsible for assessing and addressing potential environmental and social risks throughout the project cycle. They will identify measures to avoid, minimize, or mitigate these risks, ensuring that the project aligns with the principles outlined in the ESP.

Compliance with Environmental and Social Principles: The Project adheres to the environmental and social principles set forth in the ESP. It ensures compliance with applicable domestic and international laws and respects human rights, gender equity, and the rights of marginalized and vulnerable groups. The project's design prioritizes fair and equitable access to benefits, while minimizing adverse effects on public health and cultural heritage. Additionally, the Project promotes the conservation of biodiversity and efficient use of resources, including pollution prevention and resource efficiency.

**Environmental and Social Assessment and Management:** The Project implements a screening process to identify potential environmental and social impacts and categorizes projects/programmes based on their severity. Category A projects/programmes with significant adverse impacts and Category B projects/programmes with less adverse impacts are subjected to a thorough environmental and social assessment. The assessment includes identifying risks and proposing measures for mitigation and management. Implementing entities are responsible for monitoring and reporting on the status of these measures throughout the project's life.

Also, proposed project is carefully structured to align with Armenia's established technical standards and legal framework, guaranteeing adherence to various essential laws and regulations for successful execution. The initiative's endeavors comply with the RA laws concerning Population Protection in Emergency Situations, Urban Development, Water Code, Land Code and national GOSTs related to construction, laying a solid legal groundwork for implementation. Such conformity is essential for the initiative's authenticity and efficacy, especially in critical areas like water engineering, mine reclamation, and land management, which demand strict compliance with specific environmental and legal standards.

At the design stage, participating organizations are obliged to adhere to RA laws and technical standards, with a specific focus on Environmental Impact Assessments (EIA) and land management permits. Adhering to these standards is vital for the environmental sustainability and legal compliance of the initiative's design and implementation. When EIAs and urban construction expertise are required, design entities must present their plans and cost estimates for expert evaluation. Construction permits are granted only after receiving affirmative feedback from this evaluation, which verifies alignment with RA laws, legislative acts, and existing technical standards. This procedure highlights the initiative's dedication to maintaining high environmental protection and urban planning standards.

The expertise in urban planning documents, as stipulated in the RA Law on Urban Development, is crucial in determining the initiative's adherence to national laws and technical standards. This involves meeting specified norms, rules, and indicators that are essential for ensuring reliability, environmental safety, fire protection, sanitary conditions, and accessibility for individuals with disabilities. These regulatory-technical documents, fundamental to Armenia's legal framework for urban development, form the basis for expertise, supervision, and dispute resolution in urban development activities. The initiative's designs must comply with these technical standards, as mandated by the Armenian government's procedures for urban development document expertise.

Additionally, the initiative is in line with the RA Land Code and government decisions related to enhancing arable lands, meadows, and pastures, encompassing state-regulated land relations and policies for improving land fertility, usage, protection, and agricultural utilization. Landscape restoration is a key element, complying with the RA strategy on landscape conservation, management, and planning, and aligning with the European Landscape Convention's standards. The initiative's commitment to environmental sustainability is underscored by its adherence to the RA Law on Environmental Impact Assessment and Expertise, ensuring meticulous management and assessment of environmental impacts.

The project meticulously ensures compliance with national regulations in all its water-related initiatives. For the activity of drawing irrigation water from water reservoirs, the project strictly adheres to Armenia's legal framework governing efficient water use (Water Code and respective regulatory acts). This includes the following guidelines and standards set forth in the Water Code to ensure sustainable water extraction, maintaining ecological balance, and protecting water resources for future use.

In the construction of water harvesting infrastructure, the project aligns with national standards and regulations defining municipal construction processes and procedures. This compliance is crucial in guaranteeing that these structures are not only effective in capturing and storing water but also safe, sustainable, and environmentally sound. The adherence to legal requirements in their design and implementation is key to ensuring their long-term viability and effectiveness.

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

The proposed Project for establishing a National Adaptation Finance Facility in Armenia stands out as a unique and innovative endeavor, setting it apart from other existing climate adaptation initiatives. Unlike conventional adaptation programs that focus on individual sectors, this project takes a comprehensive and integrated approach to address climate risks in various development sectors simultaneously. By bringing together diverse stakeholders, including government entities, civil society organizations, and local communities, the project fosters a collaborative and coordinated effort towards building climate resilience across the nation.

Furthermore, the proposed National Adaptation Finance Facility offers a distinct advantage by being the first of its kind in Armenia. There are no existing initiatives that directly align with the proposed facility's specific objectives and scope. While other climate adaptation programs might address certain sector-specific challenges, none encompass the comprehensive coverage and emphasis on cross-sectoral coordination that this project offers. By avoiding duplication and focusing on unaddressed gaps, the proposed initiative maximizes efficiency and ensures that resources are channeled to areas of critical need, bolstering Armenia's capacity to cope with climate change impacts effectively. As a pioneer in the field of national adaptation planning, this project presents a valuable opportunity to set a precedent for other countries facing similar climate challenges.

#### **GEF Small Grant's Projects**

There is no direct overlap with any specific Global Environment Facility (GEF) Small Grants Projects, but there is complementarity in the objectives and areas of focus between the proposed EDA project and some initiatives previously or currently supported by GEF.

## Areas of complementarity:

Climate-resilient agriculture: Similar to some GEF small grants projects, the Project aims to enhance climate resilience in the agriculture sector. Both initiatives seek to promote sustainable farming practices, climate-resilient crop varieties, and advanced irrigation technologies;

- **Community engagement:** The Project shares GEF's commitment to engaging and empowering local communities in environmental governance and climate adaptation actions;
- ➤ Capacity building: Both initiatives emphasize building the capacities of local communities, organizations, and authorities to effectively address climate change challenges;

### **Lessons incorporated in Project design:**

- Community-centric approach: Previous GEF projects have demonstrated the effectiveness of community-led and community-based approaches. Learning from this, the EDA project is designed to actively engage local communities in decision-making processes, planning, and implementation of adaptation measures;
- Focus on vulnerable groups: GEF small grants projects have often targeted vulnerable and marginalized groups. Incorporating this lesson, the Project pays special attention to these groups, ensuring they have access to resources and are involved in adaptation initiatives.
- > Sustainability and ownership: GEF projects have shown that sustainability is enhanced when local communities have a sense of ownership. Therefore, the Project promotes local ownership and investment in adaptation measures, ensuring long-term sustainability even after the project ends.
- ➤ Knowledge sharing and capacity building: GEF has successfully implemented capacitybuilding initiatives. Taking a cue from this, the Project includes robust programs for knowledge sharing and capacity building among stakeholders at various levels.
- Adaptive Management: Learning from the adaptive management strategies used in GEF projects, the Project incorporates flexibility in its design, allowing for adjustments based on ongoing learning and changing circumstances on the ground.

While there are thematic and strategic similarities between the Project and some GEF Small Grants Projects, the Project is distinct in its design and implementation framework. The valuable lessons learned from earlier GEF initiatives have been integrated, enhancing its effectiveness and impact in building climate resilience at the local level in Armenia. The Project, therefore, complements and builds upon the foundations laid by previous GEF-supported initiatives while carving its unique path in advancing climate adaptation in the country.

It's essential to note that the small-scale projects facilitated by GEF typically concentrate on targeted intervention areas and are characterized by a narrow scope. Therefore, the likelihood of any overlapping between these projects and the proposed initiative is minimal, unless there is a direct intersection in the groups benefiting from these efforts

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

The learning and knowledge management function of the proposed Project will be implemented to capture, analyze, and disseminate lessons learned throughout the implementation process. It will play a crucial role in promoting a culture of continuous learning and improvement, ensuring that valuable insights gained during the Project's execution are shared widely and applied in future adaptation efforts. The following key features define the learning and knowledge management:

➤ Learning Mechanisms: The Project will establish robust mechanisms to capture lessons learned at various stages, including planning, implementation, and monitoring. These mechanisms will include regular workshops, stakeholder consultations, evaluations, and internal reviews. Learning will be encouraged not only from successes but also from challenges and setbacks, fostering a culture of openness and adaptability;

- ➤ **Knowledge Repository:** A dedicated knowledge repository will be developed to compile all the collected data, reports, research findings, and best practices. This centralized database will serve as a comprehensive resource for project stakeholders, providing easy access to relevant information and experiences. It will be organized in a user-friendly manner, facilitating knowledge sharing and dissemination;
- ➤ **Knowledge Exchange:** The Project will facilitate knowledge exchange platforms, bringing together stakeholders from various sectors, institutions, and communities. These platforms could take the form of workshops, conferences, webinars, or online forums. By providing a space for dialogue and collaboration, stakeholders can share their experiences, exchange ideas, and learn from each other's successes and challenges;
- ➤ Capacity Building: The learning component will include targeted capacity-building activities to enhance the skills and knowledge of project stakeholders. Training sessions, workshops, and skill development programs will be conducted to strengthen the capacity of individuals and institutions involved in climate adaptation efforts;
- ➤ **Documentation and Reporting:** Regular documentation and reporting will be an integral part of the learning process. Project progress, achievements, and challenges will be thoroughly documented, along with the strategies and solutions adopted to overcome obstacles. These reports will be widely shared to facilitate learning among stakeholders and the broader climate adaptation community;
- ➤ Continuous Improvement: The learning and knowledge management component will emphasize continuous improvement. Lessons learned will be systematically analyzed and used to update project strategies and activities, ensuring that the project remains responsive to changing conditions and emerging challenges;
- > Stages of Knowledge Gathering and Dissemination: Knowledge will be systematically gathered at distinct stages of the project lifecycle: during initiation for baseline understanding, at planning stages for strategy alignment, throughout implementation for real-time learning, and at monitoring and evaluation phases for outcome assessment. Dissemination of this knowledge will be aligned with these stages, ensuring that learnings are shared at critical junctions for maximum relevance and impact.
- ➤ Target Recipients of Knowledge Dissemination: The primary recipients of this disseminated knowledge will include project stakeholders, local and national government bodies, partner NGOs, community organizations, and relevant private sector entities. Furthermore, insights will also be shared with the broader climate adaptation community, including international bodies, to contribute to the global understanding of climate resilience strategies.
- ➤ Tracking, Analysis, and Feedback Loop: Experiences and learnings gained through the project will be meticulously tracked using a combination of quantitative metrics and qualitative assessments. This data will be analyzed to extract actionable insights and lessons. These findings will then be integrated back into the project under the EDA framework, ensuring continual refinement of strategies and approaches. Additionally, a structured feedback mechanism will be established to disseminate these insights outwardly to external stakeholders, thereby facilitating broader application and informing future climate adaptation initiatives.

By implementing a robust learning and knowledge management function, the proposed Project will be able to maximize its impact and contribute significantly to the collective knowledge base on climate adaptation. The captured lessons and experiences will be disseminated widely to benefit other projects, programs, and initiatives in Armenia and beyond, fostering a culture of learning and resilience-building in the face of climate change.

Also, the Learning Project (submitted for funding solicitation to AF and aimed at spreading the knowledge and integrating key lessons learned into the learning curricula of National Agrarian University), an integral component of the project's framework, is poised to significantly enhance the knowledge management process. Designed to meticulously gather, analyze, and disseminate knowledge acquired during the implementation of the project, the Learning Project will serve as a pivotal mechanism for capturing valuable insights and lessons. Its role extends beyond mere data collection; it actively transforms project experiences into actionable knowledge, which will be systematically distributed to relevant stakeholders. This process ensures that the lessons learned are not only retained within the project but are also shared broadly, contributing to a wider understanding and application of successful climate adaptation strategies. The Learning Project, therefore, stands as a cornerstone in building a comprehensive knowledge base, fostering continuous learning and improvement, and amplifying the overall impact of the project through informed decision-making and adaptive management practices.

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

**Stakeholder Engagement and Grievance Mechanism:** The Project incorporates stakeholder engagement and consultation to ensure the informed participation of all relevant stakeholders. It allows affected communities and individuals to voice their concerns through a grievance mechanism, which provides a transparent and accessible process for addressing complaints related to environmental or social harms caused by the project:

- ➢ Identification of national agencies and communities: The project has engaged with specific national agencies and pre-identified communities, each chosen based on their relevance and potential impact. The national agencies involved are those directly linked to climate adaptation and environmental management. The communities selected for engagement are those most affected by climate vulnerabilities, identified through a detailed analysis of geographic, environmental, and socio-economic factors.
- Consultation methods: A range of inclusive and participatory methods were employed to consult with stakeholders. These included community meetings, focus group discussions, and direct interviews. The aim was to ensure a comprehensive understanding of local needs and challenges, facilitating open dialogue and active participation from all community members, including those from vulnerable and marginalized groups. During the full proposal development stage, a detailed and inclusive stakeholder consultation process will be conducted. This will encompass engaging with national agencies, local communities, and especially focusing on vulnerable and marginalized groups. Methods such as targeted community meetings, focused group discussions, and personalized interviews will be employed to ensure diverse and comprehensive input. These activities are aimed at capturing a broad spectrum of perspectives, ensuring that the feedback and concerns from all stakeholder groups, particularly the most vulnerable, are effectively integrated into the project design. This approach is designed to not only gather essential insights but also to reinforce the inclusivity and responsiveness of the project to the needs of all community members.
- Incorporating feedback from vulnerable and marginalized groups: A special emphasis will be placed on understanding and integrating the specific concerns and feedback of vulnerable and marginalized groups. Their input will be crucial in shaping the project's design to ensure it is responsive to their unique needs and circumstances. This feedback will be systematically gathered and analyzed, leading to tangible modifications in the project design.
- ➤ Changes in project design reflecting stakeholder inputs: The project design will be refined as a result of the extensive consultation process. Specific interventions will be tailored to address the unique challenges faced by marginalized communities, such as improving access

- to resources or enhancing local capacity-building efforts. Additionally, measures will be implemented to ensure that these groups have sustained engagement and benefit equitably from the project outcomes.
- Feedback loop and transparency: A feedback loop will be established and maintained throughout the consultation process to ensure that stakeholders are informed about how their inputs are being incorporated. This transparency in communication will be pivotal in building trust and ensuring that the project design accurately reflects the aspirations and needs of all stakeholders, particularly the vulnerable and marginalized groups.

During the Project appraisal stage, extensive consultations have already been carried out with key stakeholder groups, including relevant national agencies, representatives of regional and municipal authorities, civil society organizations (CSOs), academia, and representatives of vulnerable communities. These preliminary consultations have been instrumental in understanding the significance of the Project and have provided valuable insights that helped shape the initial long list of sectors and sub-sectors described in the proposal. It is important to note that these initial consultations will be followed by rigorous and comprehensive consultations during the full proposal design stage to further refine and validate the Project's approach.

The engagement of these diverse stakeholder groups has been critical in ensuring that the Project addresses the needs and priorities of sectors and sub-sectors identified as critical for intervention and already visualized throughout the document. National agencies and regional authorities have shared their expertise and provided context-specific information on climate vulnerabilities and adaptation requirements. Representatives of municipal authorities have contributed valuable insights into the local-level impacts of climate change and the specific challenges faced by communities.

CSOs have played a pivotal role in advocating for the inclusion of vulnerable communities and marginalized groups in the decision-making process. Their inputs have helped identify targeted interventions to enhance the resilience of these communities. Academia has contributed with research-based knowledge and technical expertise, enriching the project's design with innovative solutions and best practices.

The consultative process has also placed a strong emphasis on gender considerations, ensuring that the perspectives and needs of women and other vulnerable groups are taken into account. Through these consultations, the Project preparation team has gained a deeper understanding of the differentiated impacts of climate change on different genders and demographics.

Overall, the inclusive and participatory nature of the consultations has reinforced the importance of the Project and its potential to address the adverse impacts of climate change effectively. The initial long list of sectors and sub-sectors identified during these consultations serves as a starting point, providing a comprehensive foundation for the subsequent rigorous consultations during the full proposal design stage. This iterative approach ensures that the Project is well-tailored to the specific needs and priorities of the communities it aims to benefit, maximizing its positive impact on climate resilience and adaptation.

#### Incorporation of stakeholder feedback into project design

The consultations conducted thus far have played a critical role in shaping the current design of the Project. Specific concerns and feedback from vulnerable and marginalized groups have been meticulously integrated into the project's framework, ensuring their needs are directly addressed. This integration has occurred in several key areas:

- ➤ **Identification of Priority Areas**: The insights gathered from these groups have helped pinpoint priority areas where intervention is most needed. This has ensured that the project's focus aligns with the real and urgent needs of these communities.
- ➤ Tailoring of Project Interventions: Feedback from consultations has led to the customization of interventions. For instance, if a community expressed a particular challenge related to water scarcity, the project design has been adjusted to include targeted measures to address this issue.
- Design of Inclusive Strategies: The project strategies have been designed to be inclusive, ensuring that they cater to the specific circumstances of vulnerable groups. This includes creating access points for these groups to participate actively in project activities and decision-making processes.
- ➤ **Risk Mitigation**: Concerns about potential adverse impacts raised during consultations have been used to shape the project's risk mitigation strategies. This ensures that the project not only benefits these groups but also does not inadvertently harm them.
- ➤ Feedback Mechanisms: The project design includes established feedback mechanisms, allowing for ongoing communication with these groups. This ensures that the project remains adaptable and responsive to their evolving needs throughout its implementation.

The process of integrating stakeholder feedback, particularly from vulnerable and marginalized groups, into the project design has been thorough and iterative. This approach has ensured that the project is not only informed by the ground realities of these communities but is also shaped to effectively address their specific challenges and needs.

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

The funding requested for the Project is justified based on the full cost of adaptation reasoning, which takes into account the comprehensive scope of activities required to build climate resilience and effectively address the adverse impacts of climate change. The project's approach is based on a holistic understanding of the challenges posed by climate change and aims to implement a range of interventions across multiple sectors and subsectors to achieve long-term adaptation goals. Several key justifications support the funding request:

- Comprehensive Adaptation Strategy: The Project's adaptation strategy encompasses various sectors and sub-sectors, including agriculture, water resources, infrastructure, biodiversity, community resilience, disaster risk reduction, renewable energy, education, and tourism. This comprehensive approach recognizes that climate change impacts are multi-faceted and require a diverse set of interventions to build resilience in vulnerable systems and communities;
- Vulnerability of Communities: The Project targets vulnerable communities that are most exposed to climate risks, including marginalized groups, women, children, and indigenous populations. These communities often lack the resources and capacity to adapt effectively to climate change impacts. The funding requested will enable the implementation of targeted measures to enhance the resilience of these groups and reduce their vulnerability;
- Integrated Risk Management: The Project adopts an integrated risk management approach to identify, assess, and manage environmental and social risks associated with adaptation activities. The funding will support the development of robust risk management plans, including measures to avoid, minimize, or mitigate potential adverse impacts on ecosystems and livelihoods;

- Co-benefits and Sustainable Development: The proposed adaptation interventions not only enhance resilience but also deliver co-benefits in terms of food security, water availability, ecosystem health, disaster preparedness, and renewable energy access. These co-benefits contribute to broader sustainable development goals, making the project's funding request an investment in building resilient and sustainable societies;
- ➤ Long-term Impact and Cost-effectiveness: By addressing adaptation comprehensively, the Project seeks to achieve long-term impact, reducing the need for continuous emergency responses to climate-related disasters. Investing in adaptation now can lead to significant cost savings in the future, as the full cost of damages and losses associated with climate change impacts will likely exceed the funding requested for proactive adaptation measures;
- ➤ Consultative Approach: The funding request is informed by extensive consultations with key stakeholders, including national agencies, regional and municipal authorities, CSOs, academia, and representatives of vulnerable communities. This consultative approach ensures that the project's design aligns with the needs and priorities of the communities it seeks to serve, maximizing the effectiveness and efficiency of the adaptation efforts.

And finally, the funding requested is justified based on the full cost of adaptation reasoning, as it supports a comprehensive and integrated approach to build climate resilience across various sectors and sub-sectors. By addressing the vulnerabilities of communities, delivering co-benefits, and adopting a consultative and risk-informed approach, the project presents a compelling case for funding to proactively tackle the challenges of climate change and promote sustainable development.

## **Consideration of funding alternatives**

In addressing the full cost of adaptation reasoning, it is essential to clarify the effectiveness of the proposed National Adaptation Finance Facility model in achieving the project objectives, independent of external funding sources like the private sector and other donors.

- Self-sufficiency of proposed activities: The Facility is designed to fund "incremental adaptation costs," enabling it to function effectively even in the absence of private sector implementation funding. The focus is on utilizing the allocated budget in a manner that ensures the core objectives of climate adaptation are met through direct interventions. This approach is structured to minimize reliance on external funding, thereby reducing potential risks associated with the unavailability of additional financial resources.
- ➤ Achieving project objectives: the proposed activities under the Facility are tailored to address specific climate vulnerabilities and adaptation needs within Armenia. These activities include developing localized solutions, enhancing community resilience, and implementing sustainable adaptation technologies. By focusing on these critical areas, the Facility aims to achieve its adaptation goals, ensuring effective climate response strategies are in place.
- ➤ **Beyond "business as usual"**: the proposed model represents a significant departure from conventional climate adaptation strategies, which often follow a top-down, government-centric approach. The "business as usual" methods typically involve centralized decision-making, with little to no input from the local communities most affected by climate change. These methods often fail to account for the unique and localized nature of climate impacts, leading to solutions that are not fully effective or sustainable in the long term. In contrast, the Facility model introduces several innovative elements that set it apart:
  - ✓ **Localized decision-making**: unlike the centralized approach, the model emphasizes local decision-making. This ensures that the people who are most affected by climate change have a say in the solutions that are implemented. By empowering local communities and entities to identify their own needs and solutions, the Facility fosters more relevant and effective adaptation strategies.

- ✓ Community-driven approaches: the Facility model is built around the principle of community engagement and participation. This approach recognizes that local communities possess invaluable knowledge and insights about their environment and are best positioned to identify practical and sustainable adaptation measures. By involving communities in the decision-making process (through engaging them into the Regional Climate Adaptation Committees), the Facility ensures that the adaptation strategies are not only accepted but also actively supported by those they are meant to serve.
- ✓ **Diverse and tailored solutions**: recognizing the diverse nature of climate impacts across different regions and communities, the model advocates for tailored solutions rather than a one-size-fits-all approach. This flexibility allows for the development of a range of strategies that are specifically designed to address the unique climate challenges of each community, leading to more effective and long-lasting adaptation outcomes.
- ✓ Integration of traditional knowledge and modern science: The model values the integration of traditional knowledge with modern scientific understanding. This blend of knowledge bases ensures that adaptation strategies are both culturally sensitive and scientifically sound, leading to solutions that are more holistic and sustainable.
- ✓ Capacity building and empowerment: a key feature of the Facility is its focus on capacity building and empowerment of local stakeholders. By providing training and resources, the model ensures that communities are not only recipients of aid but also active participants in creating and sustaining their own adaptive capacities.
- ➤ Justification for adoption: The adoption of these activities is justified by their potential to foster a resilient community approach to climate adaptation. This method is particularly pertinent in Armenia, where diverse regional climates and socio-economic conditions necessitate a more nuanced and localized adaptation strategy. The Facility's approach ensures that each community's unique vulnerabilities and strengths are considered, leading to more effective and sustainable adaptation outcomes.

In conclusion, the proposed model is a comprehensive, stand-alone approach that effectively addresses the adaptation needs of Armenia's diverse communities. It is an innovative and necessary departure from traditional methods, offering a more sustainable, inclusive, and effective pathway to achieving the country's climate adaptation goals.

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

The sustainability of the Project outcomes has been a central consideration in the Project design to ensure that the positive impacts and benefits of the adaptation interventions endure beyond the Project's duration. Several key aspects have been taken into account to enhance sustainability:

- Capacity Building and Knowledge Transfer: The Project prioritizes capacity building among local communities, relevant stakeholders, and implementing entities. Training and knowledge transfer programs are integrated into the project design to empower local communities to take ownership of adaptation measures and sustain them in the long run. By building local capacities, communities can continue to implement and manage climate-resilient practices even after the project concludes;
- ➤ Institutional Strengthening: The Project invests in strengthening the institutional capacity of national agencies, regional and municipal authorities, and relevant organizations involved in project implementation. This includes providing technical support, establishing monitoring and evaluation systems, and promoting the use of climate

data and information for decision-making. Strengthening institutions ensures that climate adaptation becomes an integral part of their regular operations, fostering sustainability;

- ➤ Policy Integration and Mainstreaming: To ensure sustainability beyond the Project's lifespan, the project emphasizes integrating climate adaptation considerations into existing policies and planning frameworks at national, regional, and local levels. By mainstreaming climate resilience into development policies and practices, the Project's outcomes become embedded in the long-term planning and budgeting processes, contributing to lasting impact.
- ➤ Community Participation and Ownership: The Project adopts a participatory approach, engaging local communities, CSOs, and vulnerable groups in the decision-making processes. By involving communities in the design and implementation of adaptation measures, the project fosters a sense of ownership and responsibility for sustaining these efforts. Community involvement ensures that adaptation solutions are context-specific, culturally appropriate, and socially acceptable.
- Financial Mechanisms and Leveraging Resources: The Project explores innovative financial mechanisms, such as public-private partnerships to leverage additional resources for sustaining adaptation activities. By securing co-financing from private sector entities the Project aims to extend the longevity of the adaptation initiatives beyond the Project period;
- Monitoring, Evaluation, and Learning: The Project incorporates robust monitoring and evaluation systems to assess the effectiveness and efficiency of adaptation interventions. Regular evaluations and lessons learned will inform adaptive management, enabling the project to make necessary adjustments and improvements to enhance sustainability as the project progresses.

The Regional Adaptation Committees play a fundamental, ongoing role in supporting and advancing climate adaptation initiatives at the regional level. Their responsibilities extend beyond initial needs assessments. First, they are pivotal in continuous monitoring and evaluation processes. They will consistently oversee the progress and effectiveness of implemented projects, ensuring these initiatives meet their set objectives and respond adequately to evolving local climate adaptation needs. Second, the Committee serve as facilitators of knowledge transfer and expertise sharing among different regions and communities. This function is crucial for disseminating successful practices, lessons learned, and innovative solutions across various areas, promoting a more coordinated and informed approach to climate adaptation.

Furthermore, they provide invaluable support and guidance to project beneficiaries during the implementation phase. They offer technical assistance, resources, and problem-solving capabilities, ensuring that the projects are executed efficiently and effectively. For long-term engagement, the Committee's operational framework will be integrated into existing regional governance structures, ensuring institutionalization and sustainability. This integration allows the committees to draw on government support and resources, making their operation less dependent on external funding and more embedded in the regional administrative and planning processes.

As for the continued resourcing of the National Adaptation Funding Facility, a multi-faceted strategy is envisioned. After the initial project funds are disbursed, the Facility plans to attract additional financial resources through partnerships with government agencies, international donors, and the private sector. These partnerships will be forged based on shared interests and commitments to climate resilience and sustainable development goals.

And finally, it is important to note that there have already been initial expressions of

interest from various private sector entities, as communicated to the Environmental Project Implementation Unit. The specifics of private sector engagement will be contingent upon the particular projects chosen for support. The process of mapping these engagements and finalizing the modalities of private sector participation will be a key focus during the development of the full proposal. This proactive approach in the early stages underscores the project's commitment to fostering meaningful private sector involvement, which is pivotal for the success and sustainability of the project

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

The ESS category of the project can be defined as "Category B." This categorization is justified based on the following considerations:

- Nature of impact: Category B is typically assigned to projects with potential environmental and social impacts that are less adverse than those of Category A projects. These impacts are site-specific, few in number, and generally reversible. The project under consideration, given its scope and scale, is likely to have limited adverse environmental or social impacts. Activities, such as community-based adaptation measures, capacity building, and small-scale infrastructure development, are expected to have localized impacts that can be effectively managed and mitigated.
- ➤ Management and mitigation: Projects in Category B require the development of an Environmental and Social Management Plan (ESMP). For this project, the ESMP will outline measures to mitigate potential environmental and social risks, ensuring that any impacts are kept within acceptable levels. The plan will detail specific actions to address issues such as resource use, waste management, and community engagement, ensuring compliance with national and international ESS standards.
- ➤ Scope of consultation and disclosure: Category B also implies a level of stakeholder engagement and information disclosure appropriate for the scale of the project. The project will engage local communities, relevant government agencies, and other stakeholders in its planning and implementation phases. This engagement will be continuous, allowing for the identification and addressing of concerns related to environmental and social impacts.
- Monitoring and reporting: Regular monitoring and reporting are essential components of managing the ESS aspects of Category B projects. This project will implement a robust monitoring system to track the effectiveness of mitigation measures and adjust as necessary. Periodic reporting to relevant authorities and stakeholders will ensure transparency and accountability in managing environmental and social risks.

In summary, the ESS category of "Category B" is appropriate for the project due to its nature of having site-specific and manageable impacts. The project's commitment to comprehensive impact management, stakeholder engagement, and monitoring further justifies this categorization, aligning with the need for responsible and sustainable project execution.

The justification for the Unidentified Sub Projects (USP) approach in the Concept Note is to provide a flexible and responsive mechanism to address the diverse and evolving adaptation needs across different regions and communities in Armenia. Given the dynamic nature of climate risks and vulnerabilities, the USP approach allows for the design and implementation of sub-projects that are most relevant and timely during the project's lifespan. This approach is crucial for ensuring that the funds allocated through the National Adaptation Funding Facility are used effectively and efficiently to address the most pressing adaptation challenges.

- ➤ Incidence of USPs: The incidence of USPs is anticipated due to unknown specific climate events and associated risks that might occur in the future. The proposal acknowledges that specific sub-projects under the Facility are not identified at the project concept stage, thus warranting the USP approach for subsequent identification and development of sub-projects as the project unfolds:
- ➤ Compliance with AF ESP: A compliance framework will be established to ensure that all USPs adhere to the Adaptation Fund Environmental and Social Policy (AF ESP). This framework will outline the mandatory compliance requirements for sub-projects, providing clear guidelines and procedures for environmental and social risk identification, assessment, and management. Every proposed sub-project will undergo a rigorous review and approval process to ensure compliance with AF ESP, considering its specific environmental and social risks and impacts;
- Need for an ESMP: Given the existence of USPs, an Environmental and Social Management Plan (ESMP) is crucial for managing and mitigating potential environmental and social risks associated with sub-projects. The ESMP (applicable for category B projects only) will provide a systematic approach to identify, assess, and address environmental and social risks during the planning, design, and implementation stages of each sub-project. The ESMP will set clear environmental and social management requirements for sub-projects, establish mechanisms for risk screening and assessment for each sub-project, outline measures and plans for mitigating identified risks, define responsibilities and roles for implementing and monitoring the ESMP, provide guidelines for stakeholder engagement, information disclosure, and grievance redress mechanisms;

**Application of ESMP to USPs:** Every USP funded under the National Adaptation Funding Facility will develop a specific ESMP or adhere to the overarching ESMP, depending on the identified environmental and social risks. The ESMP will be applied during the planning, design, implementation, and monitoring stages of USPs, ensuring continuous management

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		Risk - potential non-compliance with relevant laws and regulations at the local, national, or international levels.  Project's Approach - Full compliance with all applicable domestic and international laws, regulations, and legal requirements to ensure the Project's activities are conducted in a responsible and lawful manner. Compliance with the law serves as a foundation for the project's legitimacy, credibility, and acceptance by stakeholders and the broader community. By upholding legal standards, the Project will seek to minimize any potential legal risks, conflicts, or negative impacts on the environment, communities, and vulnerable groups.
		Mitigation Measures:
		➤ Implementation of the comprehensive legal assessment (at the Full Funding Proposal Design Stage) to identify and understand legal framework and key requirements applicable to the Project's activities.
		Engagement of the legal expertise (whenever required during Project execution stage) to provide guidance and support in navigating complex legal frameworks and

licenses, and approvals required for Project activities from relevant government authorities, ensuring timely and proper compliance; > Implementation of periodic reviews to assess ongoing compliance with evolving legal requirements and making necessary adjustments to ensure continued adherence; > Engagement with local communities and stakeholders to raise awareness of legal aspects related to the Project, promoting a shared understanding of the Project's compliance with the law: > Maintaining transparent records of all legal compliance reporting on regulatory adherence demonstrating accountability to relevant authorities and stakeholders: Access and Equity Risk – Lack of fair and equal opportunities by vulnerable and marginalized groups/ communities to benefit from Project's activities. <u>Project's approach</u> - Recognizing the importance of inclusivity, the Project will seek to address disparities and promote social justice by providing equitable access to project resources, services, and opportunities. It will aim to prioritize the needs of vulnerable communities, including women, children, national, religious and cultural minorities, persons with disabilities, and other marginalized groups, to ensure they are not left behind in the Project's development and implementation. By embracing the principles of access and equity, the Project seeks to foster an inclusive and sustainable approach that promotes social cohesion and empowers all stakeholders to participate fully in the Project's benefits. Mitigation measures: > Conducting a comprehensive needs assessment to identify the specific challenges and barriers faced by vulnerable and marginalized groups. This assessment will inform targeted strategies to address their unique needs: > Engaging in participatory planning and decision-making processes, involving representatives from vulnerable communities to ensure their voices and perspectives are considered: > Investing in capacity-building initiatives to empower vulnerable groups with the skills, knowledge, and resources necessary to actively participate in and benefit from Project activities. ➤ Adopting a gender-responsive approach, recognizing the specific needs and roles of women and men in the community. It will promote gender equality by ensuring equal access to project benefits and opportunities;

ensuring adherence to all relevant laws:

> Proactive seeking and obtaining all necessary permits.

## the Prioritization of development of accessible infrastructure and services to ensure that persons with disabilities can fully participate in and benefit from the Project; > Designing and implementing targeted interventions to address disparities and close gaps in access to resources and opportunities among different social groups. > Establishing a robust monitoring and evaluation system to track the impact of its activities on access and equity. making data-driven adjustments to ensure inclusivity; Marginalized and Risk - specific needs and concerns of marginalized and Vulnerable Groups vulnerable groups for active participation and meaningful inclusion into the Project's activities are not addressed. Project's approach - Project recognizes that certain communities, such as ethnic, religious and cultural minorities, refugees, internally displaced persons, and other vulnerable populations, are disproportionately affected by climate change impacts and often face significant barriers to accessing resources and opportunities. The Project is committed to providing tailored support and targeted interventions to empower these groups, enhance their resilience, and uplift their livelihoods. By acknowledging and prioritizing the needs of marginalized and vulnerable communities, the Project aims to create a more equitable and inclusive approach to climate adaptation and promote social justice. Mitigation measures: > Engaging in extensive consultations and dialogues with representatives from marginalized communities to understand their unique challenges, perspectives, and priorities; > Designing context-specific and culturally sensitive solutions that align with the aspirations and traditional knowledge of marginalized groups, ensuring the relevance and effectiveness of interventions; > Prioritization of the capacity building and empowerment initiatives to strengthen the resilience of marginalized communities, equipping them with the tools and skills to cope with climate-related challenges; > Adopting community-based approaches that empower local marginalized groups to actively participate in decision-making processes, enhancing ownership and sustainability of project outcomes; > Incorporating robust social safeguards to prevent harm and protect the rights and interests of vulnerable communities, ensuring that project interventions do not exacerbate existing vulnerabilities; > Engagement of the gender and social inclusion

specialists who will provide expertise in designing

Establishment of the comprehensive monitoring and evaluation system that tracks the impact of its activities on marginalized and vulnerable communities, ensuring transparency and accountability.    Risk - Human rights   Risk - Human rights are not properly upheld and promoted throughout Project's interventions.   Project's approach - Project recognizes that climate change impacts are intrinsically linked to human rights, and therefore, all efforts will be made to ensure that the project respects, protects, and fulfills the fundamental rights of all individuals and communities, without discrimination. The Project will adhere to the principles enshrined in international human rights instruments and frameworks, including the Universal Declaration of Human Rights, other relevant conventions and national legislation. It will strive to prevent any adverse impacts on human rights and work towards enhancing the enjoyment of these rights for vulnerable and marginalized populations. By adopting a human rights-based approach, the Project seeks to foster a just and equitable society where the dignity and well-being of all are safeguarded, irrespective of their background or circumstances.    Mitigation measures:   Conduct a comprehensive human rights impact assessment to identify potential risks and ensure that project interventions align with human rights principles;   Prioritizing non-discrimination and ensuring equal access to project benefits and opportunities for all individuals and communities, without any form of discrimination based on race, ethnicity, gender, religion, disability, or other status;   Utilisation of FPIC (Free, Prior, and Informed Consent) to ensure full participation and consent of local communities in decision-making processes that affect them;   Facilitating meaningful and inclusive participation of affected communities in decision-making;   Utilisation of the transparent and accessible grievance mechanism to address any human rights-related complaints or concerns raised by project-affected co		gender-responsive and inclusive interventions for marginalized groups;
throughout Project's interventions.  Project's approach — Project recognizes that climate change impacts are intrinsically linked to human rights, and therefore, all efforts will be made to ensure that the project respects, protects, and fuffilis the fundamental rights of all individuals and communities, without discrimination. The Project will adhere to the principles enshrined in international human rights instruments and frameworks, including the Universal Declaration of Human Rights, other relevant conventions and national legislation. It will strive to prevent any adverse impacts on human rights and work towards enhancing the enjoyment of these rights for vulnerable and marginalized populations. By adopting a human rights-based approach, the Project seeks to foster a just and equitable society where the dignity and well-being of all are safeguarded, irrespective of their background or circumstances.  Mitigation measures:  > Conduct a comprehensive human rights impact assessment to identify potential risks and ensure that project interventions align with human rights principles;  > Prioritizing non-discrimination and ensuring equal access to project benefits and opportunities for all individuals and communities, without any form of discrimination based on race, ethnicity, gender, religion, disability, or other status;  > Utilisation of FPIC (Free, Prior, and Informed Consent) to ensure full participation and consent of local communities in decision-making processes that affect them;  > Facilitating meaningful and inclusive participation of affected communities in Project planning, implementation, and evaluation, allowing them to voice their concerns and contribute to decision-making;  > Utilisation of the transparent and accessible grievance mechanism to address any human rights-related complaints or concerns raised by project-affected communities:  > Implementation of human rights training for the project staff and stakeholders to ensure a clear understanding of their responsibilities and obligations regar		➤ Establishment of the comprehensive monitoring and evaluation system that tracks the impact of its activities on marginalized and vulnerable communities, ensuring
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<ul> <li>Conduct a comprehensive human rights impact assessment to identify potential risks and ensure that project interventions align with human rights principles;</li> <li>Prioritizing non-discrimination and ensuring equal access to project benefits and opportunities for all individuals and communities, without any form of discrimination based on race, ethnicity, gender, religion, disability, or other status;</li> <li>Utilisation of FPIC (Free, Prior, and Informed Consent) to ensure full participation and consent of local communities in decision-making processes that affect them;</li> <li>Facilitating meaningful and inclusive participation of affected communities in Project planning, implementation, and evaluation, allowing them to voice their concerns and contribute to decision-making;</li> <li>Utilisation of the transparent and accessible grievance mechanism to address any human rights-related complaints or concerns raised by project-affected communities;</li> <li>Implementation of human rights training for the project staff and stakeholders to ensure a clear understanding of their responsibilities and obligations regarding human rights compliance;</li> <li>Promoting accountability and transparency in all</li> </ul>		Project's approach — Project recognizes that climate change impacts are intrinsically linked to human rights, and therefore, all efforts will be made to ensure that the project respects, protects, and fulfills the fundamental rights of all individuals and communities, without discrimination. The Project will adhere to the principles enshrined in international human rights instruments and frameworks, including the Universal Declaration of Human Rights, other relevant conventions and national legislation. It will strive to prevent any adverse impacts on human rights and work towards enhancing the enjoyment of these rights for vulnerable and marginalized populations. By adopting a human rights-based approach, the Project seeks to foster a just and equitable society where the dignity and well-being of all are safeguarded, irrespective of their background or
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to project benefits and opportunities for all individuals and communities, without any form of discrimination based on race, ethnicity, gender, religion, disability, or other status;  > Utilisation of FPIC (Free, Prior, and Informed Consent) to ensure full participation and consent of local communities in decision-making processes that affect them;  > Facilitating meaningful and inclusive participation of affected communities in Project planning, implementation, and evaluation, allowing them to voice their concerns and contribute to decision-making;  > Utilisation of the transparent and accessible grievance mechanism to address any human rights-related complaints or concerns raised by project-affected communities;  > Implementation of human rights training for the project staff and stakeholders to ensure a clear understanding of their responsibilities and obligations regarding human rights compliance;  > Promoting accountability and transparency in all		assessment to identify potential risks and ensure that
ensure full participation and consent of local communities in decision-making processes that affect them;  Facilitating meaningful and inclusive participation of affected communities in Project planning, implementation, and evaluation, allowing them to voice their concerns and contribute to decision-making;  Utilisation of the transparent and accessible grievance mechanism to address any human rights-related complaints or concerns raised by project-affected communities;  Implementation of human rights training for the project staff and stakeholders to ensure a clear understanding of their responsibilities and obligations regarding human rights compliance;  Promoting accountability and transparency in all		to project benefits and opportunities for all individuals and communities, without any form of discrimination based on race, ethnicity, gender, religion, disability, or
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mechanism to address any human rights-related complaints or concerns raised by project-affected communities;  Implementation of human rights training for the project staff and stakeholders to ensure a clear understanding of their responsibilities and obligations regarding human rights compliance;  Promoting accountability and transparency in all		affected communities in Project planning, implementation, and evaluation, allowing them to voice
<ul> <li>➤ Implementation of human rights training for the project staff and stakeholders to ensure a clear understanding of their responsibilities and obligations regarding human rights compliance;</li> <li>➤ Promoting accountability and transparency in all</li> </ul>		mechanism to address any human rights-related complaints or concerns raised by project-affected
		> Implementation of human rights training for the project staff and stakeholders to ensure a clear understanding of their responsibilities and obligations regarding human
		> Promoting accountability and transparency in all

	Project's activities, disclosing information about project plans, progress, and outcomes to the public and affected communities;
Gender Equality and Women's Empowerment	Risk – Gender equality and women's empowerment are not promoted throughout Project's design and implementation.  Project's approach – Recognizing the differential impacts of climate change on women and men, the Project aims to mainstream gender considerations in all activities to ensure that women have equal access to resources, opportunities, and decision-making processes. It will work towards dismantling gender-based barriers and stereotypes, enabling women to actively participate in climate adaptation efforts and benefit equitably from project interventions. By addressing gender disparities, the Project seeks to create an inclusive and gender-responsive approach to climate adaptation, contributing to more sustainable and resilient outcomes.
	Mitigation measures:
	Conducting gender analysis at the outset of the Project to identify gender-specific vulnerabilities, needs, and opportunities, informing the project's gender mainstreaming strategies;
	Actively engaging women at all levels of decision- making, from community consultations to project planning and implementation, ensuring their voices are heard and valued;
	Designing capacity-building initiatives to enhance the knowledge and skills of women, enabling them to participate effectively in climate adaptation activities and leadership roles;
	Promoting equal access to resources and services for women, including access to Project's activities, to support their economic and social empowerment;
	➤ Tailoring of the climate adaptation services and interventions in the manner to address the specific needs and priorities of women, taking into account their roles as caregivers, food providers, and guardians of natural resources;
	Providing training to women on climate-resilient livelihood options, fostering economic independence and reducing vulnerability;
	Implementing monitoring and evaluations of gender- specific outcomes using gender-responsive indicators to assess progress towards gender equality and women's empowerment;
Core Labour Rights	Risk – lack of compliance with the international and
	national labour standards and requirements.  Project's Approach - commitment to uphold and promote core labour rights in all aspects of its implementation, including insurance of fair and decent working conditions

		for all workers involved in project activities, as identified by the International Labour Organization (ILO), to protect the rights of workers and foster a conducive and respectful work environment. Targeting prevention of any exploitation, discrimination, or violation of workers' fundamental rights, promoting social justice and equitable benefits for all individuals engaged in the Project. By upholding core labour rights, the Project aims to contribute to sustainable development that respects the dignity and well-being of workers and their communities.			
		Mit	tigation measures:		
		A	Adherence to relevant international labour conventions (ILO) and standards, national requirements to protect the rights of workers, ensuring they are not subjected to any forms of forced labour, child labour, or discrimination;		
		A	Collaboration with contractors, suppliers, and stakeholders to ensure ethical labour practices throughout the supply chain and value chain, promoting fair wages, safe working conditions, and respect for workers' rights;		
			Establishment of a transparent and accessible grievance mechanism to address any labour-related concerns or complaints raised by workers, providing a safe avenue for reporting and resolving issues;		
		A	Engagement with workers, providing them with information about their rights, promoting workers' organizations and collective bargaining, and encouraging their participation in decision-making processes that affect their working conditions;		
		A	Implementation of training and capacity-building initiatives to raise awareness among project stakeholders, contractors, and workers about core labour rights and the importance of adhering to ethical labour practices;		
		<b>\(\rightarrow\)</b>	Utilisation of regular monitoring and reporting mechanisms to assess the Project's compliance with core labour rights and identify areas for improvement;		
Indigenous Peoples	N/A (Armenia's population is 96% homogeneous)				
Involvedon (Desettlement	,				
Involuntary Resettlement	N/A (for the case of small-scale community grants)				

## Protection of Natural **Risk** – Activities of proposed small-scale grants negatively Habitats impacts natural habitats and ecosystems, risks their preservation and lead to unjustified conversion and degradation. <u>Project's approach</u> – Project recognizes the intrinsic value of biodiversity and the ecological services provided by these habitats, making their protection a priority. The Project will adhere to international standards and best practices for the conservation of natural habitats, as defined by the International Union for Conservation of Nature (IUCN). Mitigation measures: > Conducting screening of the potential impacts on natural habitats of proposed for funding small-scale projects to identify areas of concern and ecological sensitivities; Prioritization of the small-scale projects' initiatives aiming to restore or rehabilitate degraded habitats to enhance their ecological value. > Engagement with local communities and relevant stakeholders to raise awareness about the significance of natural habitats and encourage their active participation in conservation efforts; > Implementation of the continuous monitoring and evaluation to ensure strict adherence to protection measures and timely interventions if any potential threats to natural habitats are identified: > Increasing awareness and capacity building for local stakeholder groups and beneficiaries to strengthen efforts for habitat protection and ensure long-term sustainability: Conservation of Biological Risk - Project's activities result in significant or unjustified reduction or loss of biodiversity in intervention areas. Diversity <u>Project's approach</u> - The Project recognizes the crucial role of biological diversity in building resilience to climate change and ensuring ecosystem stability. It prioritizes the conservation of biological diversity and commits to minimizing any significant or unjustified reduction or loss of biodiversity within its intervention areas. The Project acknowledges the importance of conserving unique species, habitats, and ecological processes, and aims to integrate biodiversity considerations into its planning, implementation, and monitoring. Mitigation measures: > Implementation of the screenings of proposed for funding consideration small-scale grant projects to assess the existing biodiversity within the project area, identifying key species, habitats, and ecosystem functions: ➤ Prioritization of the Ecosystem-based Adaptation

natural

such as the restoration

	accounts to anhance birdly and a fi
	ecosystems, to enhance biodiversity and ecosystem resilience to climate change;
	Carrying out regular monitoring and reporting to assess the status of biodiversity conservation and to track the Project's impact on biological diversity;
	Collaboration with local and international conservation organizations (wherever necessary) to access expert knowledge and best practices for biodiversity conservation;
Climate Change	<u>Risk</u> – Proposed for funding small-scale projects do not contribute towards increasing adaptive capacities of targeted vulnerable communities.
	Project's approach – The Project places climate change at the core of its objectives, recognizing the urgent need to address the adverse impacts and risks posed by climate change. It aims to support climate-resilient small-scale projects to enhance the adaptive capacity of vulnerable communities and ecosystems. The Project adopts a holistic approach to climate change via prioritization of the adaptation efforts to build resilience to current and future climate impacts.  Mitigation measures:
	<ul> <li>Promoting adoption of renewable energy technologies (such as solar) energy in adaptation infrastructures (solar powered irrigation, Agrivoltaic technology, etc.);</li> </ul>
	<ul> <li>Support afforestation and reforestation efforts in adjacent communities and increasing resilience and income generation;</li> </ul>
	Promotion of the climate-resilient and sustainable agricultural practices;
Pollution Prevention and Resource Efficiency	<u>Risk</u> – pollution prevention and resource efficiency approaches are not integrated in the design of the small-scale projects to be supported by the Project.
	Project's approach — The Project places a strong emphasis on pollution prevention and resource efficiency, recognizing the importance of sustainable resource management to achieve long-term environmental and social benefits. It aims to support projects that maximize energy efficiency, minimize material resource use, reduce waste generation, and prevent the release of pollutants into the environment. By supporting resource-efficient interventions, the Project seeks to reduce its ecological footprint and minimize negative impacts on ecosystems and communities.
	Mitigation measures:
	Prioritizing the use of energy-efficient technologies and practices in project supported to reduce energy consumption and associated emissions;
	Supporting water-efficient technologies and practices to

	reduce water consumption and promote responsible water use;
	<ul> <li>Promoting climate-smart and sustainable agricultural practices to reduce the use of chemical inputs and prevent soil and water pollution;</li> </ul>
Public Health	<u>Risk</u> – Vulnerable communities are negatively impacted/disproportionally affected by health-related challenges.
	<u>Project's approach</u> – Throughout design stage the Project aims to safeguard the well-being of communities and individuals in its areas of influence.
	Mitigation measures:
	➤ Requirement to small projects' Environmental, Social and Health Management Plans (where relevant) to design and implement measures and actions to assess and manage specific risks and impact to targeted vulnerable communities arising from the activities of these projects;
Physical and Cultural Heritage	Risk – Supported small-scale projects small negatively impact on physical and/or cultural resources and natural values and assets located in beneficiary or adjacent communities.
	Project's approach — The preservation of physical and cultural heritage is a key aspect of the small projects' design, acknowledging the importance of safeguarding irreplaceable natural, cultural, and historical assets from potential climate impacts. The Project aims to protect and conserve significant physical and cultural heritage sites, structures, and landscapes that hold cultural, historical, and ecological value for local communities and the broader region. By integrating measures to safeguard these assets, the Project aims to ensure the continuity of cultural traditions, promote sustainable tourism, and foster community resilience.
	Mitigation measures:  ➤ Requirement to small projects' Environmental, Social and Health Management Plans (where relevant) to design and implement measures and actions to assess and manage specific risks and impact to targeted vulnerable communities arising from the activities of these projects;
Lands and Soil Conservation	<u>Risk</u> – Supported small-scale projects do not contribute towards sustainable practices of lands and soil conservations.
	Project's approach – Recognizing the importance of productive lands and soil health for sustainable agriculture and ecosystem services, the Project emphasizes lands and soil conservation as a fundamental aspect of its climate adaptation strategies in targeted vulnerable regions. By prioritizing support to small-scale projects that promote soil health, prevent land degradation, and enhance land

productivity, the Project aims to strengthen the resilience of agricultural systems and protect valuable ecosystems from the impacts of climate change. Through sustainable land management practices, the Project seeks to secure food production, preserve biodiversity, and maintain vital ecosystem services for the benefit of local communities and the environment.

## **Mitigation measures:**

- Prioritization of the small-scale projects (for funding consideration) that target:
- ➤ Soil erosion control, through implementing measures such as terracing, contouring, and agroforestry to reduce soil erosion and prevent land degradation;
- Conservation agriculture promoting the adoption of conservation agriculture practices, such as minimum tillage and crop rotation, to improve soil health and water retention;
- Sustainable land use planning incorporating climateresilient land use planning to avoid encroachment into vulnerable areas and protect natural habitats;
- Reforestation and afforestation undertaking reforestation and afforestation efforts to restore degraded lands and mitigate the impacts of climate change;
- Watershed Management implementing integrated watershed management approaches to protect soil and water resources, particularly during extreme weather events;
- Soil moisture management introducing water conservation techniques, like rainwater harvesting and efficient irrigation methods, to preserve soil moisture and optimize water use;
- Capacity Building providing training and technical support to farmers and communities in sustainable land management practices and climate-adaptive agriculture;

## PART III: IMPLEMENTATION ARRANGEMENTS

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

Project Objective(s)	Project Objective Indicator(s)	Fund Outcome	Fund Outcome Indicator	Grant Amount (USD)
resilience in the regions	<ul> <li>Number of vulnerable municipalities benefiting from the enhanced direct access to adaptation finance;</li> <li>Proportion of vulnerable municipalities covered;</li> <li>Number of people residing in vulnerable municipalities benefiting from the enhanced direct access to adaptation finance;</li> <li>Proportion of people residing in vulnerable municipalities benefiting from the enhanced direct access to adaptation finance;</li> </ul>	Outcome 2: Strengthened institutional capacity to reduce risks associated with climate- induced socioeconomic and environmental losses	<ul> <li>≥ 2.1.1. N of staff trained to respond to, and mitigate impacts of, climate-related events (by gender);</li> <li>&gt; 2.2.1. N of targeted institutions benefitting from the direct access and enhanced direct access modality</li> </ul>	
Project Outcome(s)	Project Outcome Indicator(s)	Fund Output	Fund Output Indicator	Grant Amount (USD)
Policy Delivery - Policy De	compression at the Regional	/Municipal Level		
Increased regional/municipal capacities to contribute towards formulation and execute actions deriving from National Adaptation Plan, Sectorial Adaptation Plans and Regional Adaptation Plans	<ul> <li>N of detailed vulnerability assessments carried out;</li> <li>N of regional policy frameworks formulated;</li> <li>N of capacity building events carried out, and</li> <li>N of regional and municipal officials and stakeholders engaged in the capacity building activities;</li> <li>N of regional climate adaptation committees established;</li> </ul>	Output 2.2: Increased readiness and capacity of national and sub- national entities to directly access and program adaptation finance  Output 6: Targeted individual and community livelihood strategies strengthened in	targeted institutions benefitting from the direct access and enhanced direct access	300,000

			including variability		
Capacitating Stakeholders	s - I	Mapping. Needs Assessm	<u> </u>	uilding of Kev Actors	
Capacitated stakeholders are better able to contribute towards needs identification, policy formulation and execution, as well as supporting private sector entities to implement projects seeking adaptation resilience of targeted municipalities	AAA		Output 2.2: Increased readiness and capacity of national and sub- national entities to directly access and program adaptation finance	2.2.1 No. of targeted institutions benefitting from the direct access and enhanced direct access modality	300,000
Channeling Adaptation Fi					
Adaptation resilience of vulnerable communities in Armenia is increased through implementation of locally driven projects with participation of private sector		N of climate adaptation projects in all targeted regions identified, appraised and consulted with local/municipal stakeholders; N of climate adaptation projects from all targeted regions are approved for funding N of projects implemented in partnership with private sector;	Outcome 6:	3.2. Percentage of targeted population applying appropriate adaptation responses  Indicator 6.1.1  No. and type of adaptation assets (tangible and intangible) created or strengthened in support of individual or community livelihood strategies	3,800,000

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

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

Hakob Simidyan

Minister of Environment of the Republic of Armenia

08 August 2023

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

I certify that this proposal has been prepared in accordance with guidelines provided by the Adaptation Fund Board, and prevailing National Development and Adaptation Plans (National Adaptation Plan, Sectorial Adaptation plans and Marz (Regional) Adaptation 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 and the Gender Policy of the Adaptation Fund and on the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this project/programme.

#### Name & Signature:

Implementing Entity Coordinator:

Armen Yesoyan, Director, "Environmental Project Implementation Unit" State Agency Under the Ministry of Environment of the Republic of Armenia

Date: 08 August 2023

Tel. and email: info@cep.am,

+37410651631

Project Contact Person:

Margarita Gasparyan, Head of Cooperation with Donors Department, "Environmental Project Implementation Unit" State Agency under the Ministry of Environment of the Republic of Armenia

Lia Apikyan, Chief Specialist of Cooperation with Donors Department, "Environmental Project Implementation Unit" State Agency under the Ministry of Environment of the Republic of Armenia

Tel. And Email:

margarita.gasparyan@epiu.am, +37410651631

lia.apikyan@epiu.am, +37410651631



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REPUBLIC OF ARMENIA
MINISTER OF ENVIRONMENT
РЕСПУБЛИКА АРМЕНИЯ
МИНИСТР ОКРУЖАЮЩЕЙ СРЕДЫ

Nº 1/08.5/11673

«<u>10</u>» «<u>08</u>» 2023

To: The Adaptation Fund Board

c/o Adaptation Fund Board Secretariat

Email: afbsec@adaptation-fund.org

Fax: 202 522 3240/5

Subject: Endorsement for Enhanced Direct Access Project "Armenia National Adaptation Funding Facility"

In my capacity as designated authority for the Adaptation Fund in the Republic of Armenia, 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 the Republic of Armenia.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by "Environmental Project Implementation Unit" State Agency of the Ministry of Environment of the Republic of Armenia and executed by the same State Agency.

Sincerely,

8/10/2023

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Signed by: SIMIDYAN HAKOB 3004840588
Mr. Hakob Simidyan

International Cooperation Department Ani Khachaturyan, +37411 818 508



