



ADAPTATION FUND

ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Pre-Concept for a Regional Project

Countries/Region:	Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan
Project Title:	Integrated Drought Management for Central Asia (IDCA)
Thematic focal area:	Disaster risk reduction and early warning systems
Implementing Entity:	World Meteorological Organization (WMO)
Executing Entities:	Central Asia Regional Environmental Centre (CAREC), Global Water Partnership Organisation (GWPO), Global Water Partnership Central Asia and Caucasus (GWP CACENA), Food and Agriculture Organization (FAO), National Meteorological and Hydrological Services
AF Project ID:	AF00000420
IE Project ID:	
Reviewer and contact person:	UnaMay Gordon
IE Contact Person(s):	
	Requested Financing from Adaptation Fund (US Dollars): 13,915,000
	Co-reviewer(s): N/A

Technical Summary

The project "Integrated Drought Management for Central Asia (IDCA)" aims to implement the Central Asia Regional Drought Strategy, while aligning with other initiatives in the region. This will be done through the four components below:

- Component 1: Developing a harmonised approach (national and regional level) for drought monitoring, forecasting, early warning and integrated drought risk and impact assessment (USD 3,000,000).
- Component 2: Implementing community-level, climate-resilient drought risk management and financing solutions for sustainable implementation and scaling (USD 3,000,000)
- Component 3: Strengthening institutional capacity of regional, national and local institutions and policy/legislation for drought risk management (USD 3,000,000)
- Component 4: Enhancing knowledge and awareness on climate-resilient drought management (USD 2,500,000)

	<p><u>Requested financing overview:</u> Project/Programme Execution Cost: USD 1,150,00 Total Project/Programme Cost: USD 12,650,000 Implementing Fee: USD 0 Financing Requested: USD 13,915,000</p> <p>The proposal includes a request for a project formulation grant of USD 39,000.</p> <p>The second technical review finds that all most of the CRs and CARs have been addressed, however the Project/programme component financing table needs to be amended to reflect the countries and the allocation per country where possible</p>
Date	28 April 2025

Review Criteria	Questions	First Technical Review Comments 28 February 2025	Second Technical Review Comments 28 April 2025	Second Technical Review Comments WMO 19 May 2025
Country Eligibility	1. Are all of the participating countries party to the Kyoto Protocol and/or the Paris Agreement?	Yes. All countries are party to the Kyoto Protocol and Paris Agreement.	-	-

	<p>2. Are all of the participating countries developing countries particularly vulnerable to the adverse effects of climate change?</p>	<p>Yes. Increasing temperatures, shifting precipitation patterns, and glacier retreat in Central Asia are intensifying seasonal water variability, exacerbating desertification, and increasing uncertainty in river runoff timing, particularly during dry summer months. These climatic changes are likely to cause increased drought frequency, timing, and severity, adding to persisting water scarcity and fueling conflicts among down- and upstream water users in all five participating countries.</p>	-	-
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-Project Eligibility	3. Have the designated government authorities for the Adaptation Fund from each of the participating countries endorsed the project/programme?	Yes. The following Letters of Endorsement have been provided: <i>For Kazakhstan; signed by DA Mrs Saule Sabieva, 12th April 2024</i> <i>Kyrgyz Republic; signed by DA Mr. Meder Mashiev, 4th November 2024</i> <i>Uzbekistan; signed by H.E. Mr. Aziz Abdukhakimov, 11th December 2024</i> <i>Tajikistan; signed by Mr. Bahodur Sheralizoda, 13th December 2024</i> <i>Turkmenistan; signed by Mr Berdi Berdiyev. 13th February 2025</i>	-	-
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	<p>4. Has the pre-concept provided necessary information on the problem the proposed project/programme is aiming to solve, including both the regional and the country perspective?</p>	<p>CR1: The climate challenges are well-articulated but would benefit from additional details on their specific impact on pastoral communities. While the pre-concept highlights a regional challenge, it lacks clarity on how these challenges manifest in each of the proposed participating countries. Are these five countries disproportionately affected compared to others? Additionally, while the pre-concept references the joint Regional Drought Strategy for Central Asia, it does not provide details on relevant national policies, gaps, or barriers to implementation, which would strengthen the justification for intervention.</p>	<p>CR1: Cleared. Based on amendments to pages 3 and 4.</p> <p>CR4 NEW: Please amend the cover page to include the latest submission date and uncheck the 1st submission box.</p>	<p>CR1: -</p> <p>CR4 NEW: Done.</p>
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	<p>5. Have the project/programme objectives, components and financing been clearly explained?</p>	<p>CR2: Under Component 3, Output 3.1.1 please refine to provide a better understanding of how capacity will be increased. The current wording appears more general compared to the other outputs.</p> <p>CR3: Please clarify who will be supporting the communities with piloting nature-based solutions. Please clarify the stage at which these measures will be identified during.</p>	<p>CR2: Cleared. Based on amendments to page 5.</p> <p>CR3: Cleared. The pre-concept indicates when pilot communities will be identified and the number of communities per target country (page 7). The engagement of other stakeholders has been included to support the identification and implementation of nature-based solutions, demonstrating a participatory process.</p> <p>CAR1 NEW: Please re-insert the countries column in Project Components and Financing Table and include the disaggregated budget per country if possible.</p>	<p>CR2: - CR3: - CAR 1 New:</p> <p>The "Country" column in the project components and financing table has been reinserted accordingly.</p> <p>"All countries" has been selected as target country across all activities. While interventions will be tailored to and implemented at national level, given the regional nature of the project, respective activities will be implemented across all countries involved.</p> <p>The specific details of implementation, as well as target locations (e.g. for pilot communities in the respective countries) will be further defined during the project development stage.</p>
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	<p>6. Has the project/programme been justified in terms of how:</p> <ul style="list-style-type: none"> - it supports concrete adaptation actions? - it builds added value through the regional approach? - it promotes new and innovative solutions to climate change adaptation? - it is cost-effective? - it is consistent with applicable strategies and plans? - it incorporates learning and knowledge management? - it will be developed through a consultative process with particular reference to vulnerable groups, including gender considerations, in compliance with the Environmental and Social Policy of the Adaptation Fund? - it will take into account sustainability? 	<p>Yes. The pre-concept note integrates planning and policy with tangible adaptation measures, such as nature-based solutions in vulnerable communities to mitigate drought impacts. A regional approach is essential, as glaciers—known as the Water Towers of Central Asia—serve as critical reservoirs for multiple countries. The initiative also enhances knowledge and awareness of climate-resilient drought management, benefiting neighboring nations and prioritizing regional resilience over single-country efforts, making it cost-effective. Stakeholder engagement will be embedded throughout the process with gender considerations and compliance with E&S policies. The pre-concept ensures sustainability through institutional</p>	-	-
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		<p>arrangements and sustainable financing. Its novelty lies in an integrated, multi-level approach to drought management that connects policy, action, and knowledge-sharing.</p> <p>Notably the regional project contributes to Disaster risk reduction and early warning systems. It also contributes to the Early Warnings for All initiative, aiming to provide early warning systems (EWSs) for everyone on the planet by 2027.</p>		
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	7. Does the pre-concept briefly explain which organizations would be involved in the proposed regional project/programme at the regional and national/sub-national level, and how coordination would be arranged? Does it explain how national institutions, and when possible, national implementing entities (NIEs) would be involved as partners in the project?	Yes. WMO will be the implementing entity for the regional project. It will be guided by a steering committee, with a project manager to oversee its implementation. Both regional and national counterparts will have executing roles in the project. WMO will also be partnering with other institutions such as FAO and UNCCD based on their expertise.	-	-
Resource Availability	8. Is the requested project / programme funding within the funding windows of the programme for regional projects/programmes?	Yes.	-	-

	9. Are the administrative costs (Implementing Entity Management Fee and Project/ Programme Execution Costs) at or below 10 per cent of the project/programme for implementing entity (IE) fees and at or below 10 per cent of the project/programme cost for the execution costs?	Yes.	-	-
Eligibility of IE	10. Is the project/programme submitted through an eligible Implementing Entity that has been accredited by the Board?	Yes. WMO is accredited and expiration date of accreditation is 30th March 2027.	-	-

PROPOSAL COVER PAGE

1. Type of project: Single-Country ☐ Regional ☒
2. Countries: Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan
3. Project/Programme Category: Regular
4. Project/Programme Stage: Pre-concept
5. Requested financing amount (in U.S. Dollars Equivalent): USD 13,915,000
6. Project Formulation Grant (PFG) Request: Yes ☒ No ☐
7. Requested financing amount for PFG (in U.S. Dollars Equivalent): USD 39,000
8. Letter/s of Endorsement (LOE) signed:
LOEs should be signed by the Designated Authority (DA). The signatory DA must be on file with the Adaptation Fund. To find the DA currently on file check this page: <https://www.adaptation-fund.org/apply-funding/designated-authorities>
Yes ☒ No ☐
9. Write the date of endorsement for each LOE for the project.

Turkmenistan	08 April 2024
Kazakhstan	12 April 2024
Kyrgyz Republic	04 November 2024
Uzbekistan	11 December 2024
Tajikistan	13 December 2024

10. Title of Project/Programme: Integrated Drought Management for Central Asia (IDCA)
11. Implementing Entity: World Meteorological Organization (WMO)
12. Executing Entities:

Central Asia Regional Environmental Centre (CAREC), Global Water Partnership Organisation (GWPO), Global Water Partnership Central Asia and Caucasus (GWP CACENA), Food and Agriculture Organization (FAO), National Meteorological and Hydrological Services:

- Kazakhstan: Republican State Enterprise (RSE) (Kazhydromet)

- Kyrgyzstan: Hydrometeorological Service under the Ministry of Emergency Situations of the Kyrgyz Republic (Kyrgyzhydromet)
- Tajikistan: Agency for Hydrometeorology
- Turkmenistan: Hydrometeorology Service of the Ministry of Agriculture and Environmental Protection of Turkmenistan
- Uzbekistan: Centre of Hydrometeorological Service of the Republic of Uzbekistan (Uzhydromet)

13. Is this a new submission or a resubmission: New: ☒ Resubmission: ☐

14. If a resubmission, please select the last submission date: 20 May 2025 ~~n/a~~



ADAPTATION FUND

PRE-CONCEPT FOR A REGIONAL PROJECT

PART I: PROJECT INFORMATION

Title of Project:	Integrated Drought Management for Central Asia (IDCA)
Countries:	Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan
Thematic Focal Area¹:	Disaster risk reduction and early warning systems
Type of Implementing Entity:	Multilateral Implementing Entity
Implementing Entity:	World Meteorological Organization (WMO)
Executing Entities:	<p>Central Asia Regional Environmental Centre (CAREC), Global Water Partnership Organisation (GWPO), Global Water Partnership Central Asia and Caucasus (GWP CACENA), Food and Agriculture Organization (FAO), National Meteorological and Hydrological Services:</p> <ul style="list-style-type: none">• Kazakhstan: Republican State Enterprise (RSE) (Kazhydromet)• Kyrgyzstan: Hydrometeorological Service under the Ministry of Emergency Situations of the Kyrgyz Republic (Kyrgyzhydromet)• Tajikistan: Agency for Hydrometeorology• Turkmenistan: Hydrometeorology Service of the Ministry of Agriculture and Environmental Protection of Turkmenistan• Uzbekistan: Centre of Hydrometeorological Service of the Republic of Uzbekistan (Uzhydromet)
Amount of Financing Requested:	Total project programme costs: 13,915,000 (in US Dollars Equivalent)
Amount of Requested financing for PFG:	39,000 (in U.S Dollars Equivalent)
Letters of Endorsement (LOE) signed for all countries:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

NOTE: LOEs should be signed by the Designated Authority (DA). The signatory DA must be on file with the Adaptation Fund. To find the DA currently on file check this page: <https://www.adaptation-fund.org/apply-funding/designated-authorities>

Stage of Submission:

¹ Thematic areas are: Food security; Disaster risk reduction and early warning systems; Transboundary water management; Innovation in adaptation finance.

This pre-concept has been submitted before

☒ This is the first submission ever of the pre-concept

In case of a resubmission, please indicate the last submission date: [Click or tap to enter a date.](#)

Please note that pre-concept should not exceed 5 pages (in addition to this first cover page)

Project Background and Context: Regional Background

Central Asia is a landlocked region encompassing five countries Kazakhstan, Kyrgyz Republic Tajikistan, Turkmenistan, and Uzbekistan (as to the inclusion of Afghanistan, see project objective). Its distance to the ocean determines its continental climate, characterized by large daily and seasonal temperature differences and erratic precipitation (rainfall and snowfall). The countries, with a combined population of approx. 80 million, are characterized by a semi-arid to arid climate. The Syr Darya and Amu Darya rivers are the primary sources of water in the region, fed by snow and glacier melt from the mountain ranges in the East and South of the region.² Various weather and climate hazards, amongst them droughts, have historically been recorded across Central Asia. Regional climate projections now indicate increasing evaporation with rising temperatures and the increasing occurrence of precipitation as rainfall instead of snowfall during the winter months, at higher elevations.³ A reduction of the annual maximum amount of snow accumulated over the winter period is likely to increase seasonal variations in timing and quantity of water availability, especially during the summer months, because of the earlier onset of snowmelt. These exacerbate desertification processes.⁴ Glaciers, another vital source of water and river runoff in the region, are also projected to retreat. As melt rates increase, the timing and amount of runoff is expected to change. The so-called “peak water” which is foreseen in the middle of this century, as glaciers continue to shrink. Following that, the amount of annual runoff will further diminish.⁵ The most important impact of changing glacier runoff dynamics for Central Asia is the increased uncertainty in the timing and the duration of glacier meltwater contributions to river systems during dry summer months. For example, in Kyrgyzstan, the maximum glacier contribution occurs during July and August, reaching up to 54%. Over the course of a year, on average, there is a contribution of 19% from glacier runoff, while snowmelt contributions are about 58%.⁶

These climatic changes are likely to cause increased drought frequency, timing, and severity, adding to persisting water scarcity and fuelling conflicts among down- and upstream water users in the region. In addition, an augmentation in heavy precipitation and flood events is projected, e.g. from rain on snow events.⁷ This escalation in likelihood and severity of drought and flood hazards is particularly concerning for communities that are already exposed and vulnerable, such as farming and pastoral communities (along rivers and creeks). Prolonged droughts and reduced water availability reduce the growth and regeneration of natural pastures. This leads to poor-quality forage, shortened grazing seasons, and overgrazing of limited available lands — especially in arid and semi-arid zones like southern Kazakhstan, Turkmenistan, and Uzbekistan. In addition, water sources (wells, rivers, seasonal streams) are drying up or become unreliable during droughts. This forces pastoralists to travel longer distances or crowd around fewer water points, increasing conflict risks and livestock mortality⁸. Increasing drought risk and water scarcity further have a strong effect on all economies of the countries, especially in the agriculture, energy, water and industry sectors, which are the main income sources for these countries. These challenges are amplified by inadequate water and land management practices as well as a lack of transboundary cooperation. Kazakhstan faces severe drought and the shrinking of the Caspian Sea, threatening agriculture, biodiversity, and leading to degraded rangelands.⁹ Kyrgyzstan¹⁰ and Tajikistan¹¹ are grappling with glacial retreat and water resource variability, endangering both hydropower and irrigation. Turkmenistan, the driest country in the region, is particularly vulnerable to desertification, water scarcity, and increasingly unreliable flows of the Amu Darya and Murgab rivers.¹² Uzbekistan’s agriculture is being impacted by drought, shifting weather patterns, and heatwaves, leading to reduced crop yields, particularly in cotton, the country’s main export.¹³ Together, these challenges threaten food security, livelihoods, and regional stability.

Each country has adopted national-level policies and strategies aimed at addressing the above-mentioned challenges and enhancing climate resilience. All five countries have incorporated drought and water scarcity as priority areas in their Nationally Determined Contributions (NDCs), often linked to agricultural and water

² Muccione and Cassera, 2019

³ WMO, 2021

⁴ IPCC 2021

⁵ Muccione and Cassera, 2019

⁶ <https://www.frontiersin.org/journals/earth-science/articles/10.3389/feart.2023.1306476/full>

⁷ WMO, 2021

⁸ Nandintsetseg et al. 2024 (<https://www.nature.com/articles/s41612-024-00624-2>)

⁹ National Determined Contribution (NDC) Kazakhstan, 2023 (https://unfccc.int/sites/default/files/NDC/2023-06/12updated%20NDC%20KAZ_Gov%20Decree313_19042023_en_cover%20page.pdf)

¹⁰ National Determined Contribution (NDC) Kyrgyzstan 2021 (<https://unfccc.int/sites/default/files/NDC/2022-06/%D0%9E%D0%9D%D0%A3%D0%92%20ENG%20%D0%BE%D1%82%2008102021.pdf>)

¹¹ National Determined Contribution (NDC) Tajikistan 2021 (https://unfccc.int/sites/default/files/NDC/2022-06/NDC_TAJIKISTAN_ENG.pdf)

¹² National Strategy of Turkmenistan on Climate Change 2021 (https://www.undp.org/sites/g/files/zskgke326/files/migration/tm/undp-tm-NCCS_ENG.pdf)

¹³ National Determined Contribution (NDC) Uzbekistan (https://unfccc.int/sites/default/files/NDC/2022-06/Uzbekistan_Updated%20NDC_2021_EN.pdf)

sector reforms. Several countries have also developed sectoral strategies targeting sustainable land management, irrigation modernization, and pasture rehabilitation. However, many of these national policies remain in early stages of implementation, and most lack dedicated financing mechanisms or detailed drought action plans.¹⁴

In addition, several barriers continue to hinder effective implementation of drought and climate resilience measures. Institutional capacity remains limited, with agencies under-resourced and lacking technical expertise to implement long-term adaptation strategies.¹⁵ In addition, critical data gaps and limited cross-border information sharing constrain evidence-based planning and coordinated responses.¹⁶ Climate risks are still not sufficiently integrated into national policies, particularly in agriculture and water sectors, leading to short-term, reactive approaches.¹⁷ Transboundary water governance challenges, especially around the Amu Darya and Syr Darya rivers, also complicate joint efforts.¹⁸ The combination of severe climate change impacts and existing policy barriers underscores the urgent need for an integrated, cross-border approach to drought risk management in Central Asia to address climate-related challenges and protect high-risk communities. Proactive drought policies and action plans must rely on timely weather, climate, and hydrological data from National Meteorological and Hydrological Services (NMHSs) as the main national authorities for water and climate information. Understanding risks, vulnerable groups, and sustainable mitigation strategies is vital for effective drought risk reduction. Strong collaboration and information sharing among all relevant agencies is crucial. In response to these needs, the Regional Climate Change Adaptation Strategy for Central Asia, endorsed in 2024 by all five countries, proposes concrete ways forward to overcome many of the current shortcomings. For drought risk management specifically, the strategy builds directly on the UNCCD Regional Drought Strategy (2021), reinforcing its objectives and identifying key measures for implementation. However, while these frameworks provide a valuable foundation, an actionable, regionally coordinated implementation plan has yet to be developed and adopted.

Project Objectives:

The project objective is to implement the Central Asia Regional Drought Strategy, while aligning with other initiatives in the region. If regional and national drought policies are established and institutional arrangements and capacities for integrated water and drought management are strengthened, then vulnerability to drought across sectors will be reduced, and drought resilience, especially for the most vulnerable communities, will be enhanced. This is the outcome and overall objective of this project. Inclusive regional structures will also allow Afghanistan's participation in the project, despite its non-direct beneficiary status due to current political conditions. In doing this, the joint WMO and GWP Integrated Drought Management Programme ([IDMP](#)) advocates for an integrated approach to drought management, aligning with an integrated water resources management as well as international development goals and agreements. Applying the IDMP three pillars of integrated drought management (1. Monitoring and Early Warning, 2. Risk and Impact Assessment, 3. Risk Mitigation, Preparedness and Response). In addition, the project strengthens the sustainable monitoring of both glaciers and snow. With glaciers being the "Water Towers of Central Asia", they serve as critical reservoirs that release meltwater during dry periods, stabilizing water supplies. Reliable and sustained monitoring of glaciers and seasonal snow cover is therefore essential for understanding regional water availability, predicting drought conditions, and informing adaptive water management strategies. Strengthening glacier and snow monitoring will thus not only contribute to drought prediction but also support long-term climate resilience in the region.

The project will contribute to the Early Warnings for All initiative. Furthermore, with 2025 designated as the UN International Year of Glaciers Preservation, this project aligns closely with global efforts to enhance the understanding and protection of glacier-fed water systems. Moreover, the project builds on the outcomes of the World Bank's Central Asia Hydrometeorology Modernization Project (CAHMP) and complements other regional initiatives with similar objectives, further enhancing the sustainability of the solutions provided.

¹⁴ Dankova et al., 2022 (<https://doi.org/10.4060/cb8230en>)

¹⁵ Green Central Asia, 2023 (<https://greencentralasia.org/wp-content/uploads/2024/05/strategy-eng.pdf>)

¹⁶ Abdullaev et al. 2025 (<https://water-ca.org/wp-content/uploads/Current-challenges-in-Central-Asian-water-governance-and-their-implications-for-research-higher-education-and-science-policy-interaction.pdf>)

¹⁷ Green Central Asia, 2023 (<https://greencentralasia.org/wp-content/uploads/2024/05/strategy-eng.pdf>)

¹⁸ Atlantic Council 2025 (<https://www.atlanticcouncil.org/wp-content/uploads/2025/02/Water-insecurity-in-Central-Asia.pdf>)

Project Components and Financing:

Note: All activities will target all countries. Pilot activities will be conducted in all countries.

Project Components	Expected Outcomes	Expected Outputs	Countries	Amount (US\$)
1. Developing a harmonised approach (national and regional level) for drought monitoring, forecasting, early warning and integrated drought risk and impact assessment (IDM Pillar 1&2)	1.1 Sustained mechanisms for drought risk assessments as well as drought impact monitoring established. 1.2 Capacity in drought monitoring, forecasting and early warning strengthened.	1.1.1 Baseline drought risk assessment 1.1.2 Climate change-responsive drought risk assessment and mapping methodology developed 1.1.3 Development and maintenance of a database for drought impacts by sector established, recovering historical and current impacts of ongoing drought 1.2.1 Integrated drought and drought impact monitoring and forecasting systems (meteorological and hydrological incl. glacier and snow melt) enhanced and/or established, incl. enhanced accessibility to real time and delayed mode data, innovative crowdsourcing and high elevation seasonal snowpack surveys and assessments as well as high elevation meteorological monitoring and impact-related drought indexes 1.2.2 Drought Early Warning System integrated in national drought policies	All countries	3,000,000
2. Implementing community-level, climate-resilient drought risk management and financing solutions for sustainable implementation and scaling (IDM Pillar 3)	2.1 Increased community-level drought resilience	2.1.1 Community-level climate-resilient drought risk management plans developed 2.1.2 Drought risk financing strategies developed including forecast-based agricultural insurance schemes 2.1.3 Nature-based solutions implemented in the most vulnerable communities to reduce the impacts of droughts (pilot community(ies) to be identified in each country)	All countries	3,000,000
3. Strengthening institutional capacity of regional, national and local institutions and policy/legislation for drought risk management	3.1 Strengthened institutional capacity for drought management. 3.2 Regional drought management body/center established 3.3 National policy, contributing to regional strategy, on drought management formulated and proposed	3.1.1 Drought management capacity of NMHS and other relevant governmental organizations strengthened, including, monitoring, forecasting, data management, risk and impact assessment, and risk mitigation and response (through trainings, peer learning etc.) (national & transboundary) 3.2.1 Development of a WMO Regional Climate Centre, including Regional Drought Management Centre functions based on existing structures like the Central Asia Regional Climate Information Platform (CACIP) initiated as well as establishment of capabilities to support a potential "Measurement Lead Centre for Glaciology" in conjunction with other related capabilities in the region 3.3.1 Recommendations on national policy on drought risk management, as well as institutional reforms' formulated and proposed based socio-economic benefits studies and discussions in working groups of key-stakeholders.	All countries	3,000,000
4. Enhancing knowledge and awareness on climate-resilient drought management	4.1 Awareness and partner engagement increased.	4.1.1 Communication and stakeholders' awareness enhanced; engagement plan developed and implemented 4.1.2 Gender action plans, indicators and trainings developed and implemented 4.1.3 Knowledge management approach and community of practice on climate-resilient drought management established 4.1.4 Dissemination of user-centric sectoral drought information enhanced through co-production of tailored products (e.g. regular drought bulletins for agriculture and water sectors, crop advisories, irrigation schemes).		2,500,000
5. Project/Programme Execution cost (10%)				1,150,000

6. Total Project/Programme Cost		12,650,000
7. Project/Programme Cycle Management Fee charged by the Implementing Entity (10%)		1,265,000
Amount of Financing Requested		13,915,000

Project Duration: Five years (60 months)

PART II: PROJECT JUSTIFICATION

Project components: The project provides solutions to the region's climate adaptation challenges through enhancing and sustaining an integrated drought management system based on four components:

1. A baseline drought risk assessment will be conducted to provide a comprehensive understanding of drought vulnerabilities, exposure, and impacts across the region. The findings will inform the development of a harmonized, gender-inclusive methodology for drought risk and impact assessment, monitoring, forecasting, and decision support for integrated drought management. Additionally, the results will serve as a foundation for activities implemented under components 2 and 3. Building on this, the project will enhance and/or establish monitoring networks essential for drought management and early warning capacities, including capabilities for data transmission in real time. This will include glacier and snow monitoring, with an emphasis on innovative crowd-sourced data collection for snow cover to improve observation and forecasting capabilities, and on regular high-elevation precipitation monitoring, snow and glacier surveys and data rescue. As part of this effort, the project will provide guidance and support for establishing a Measurement Centre for Glaciology in cooperation with existing capabilities in the region. For drought forecasting, the project will facilitate access to global and regional drought-relevant products from the WMO Integrated Processing and Prediction System (WIPPS) Centres, including extended-range and sub-seasonal predictions, subject to availability and potential further processing needs. For data management and sharing, the project will support the adoption of the WMO Hydrological Observing System (WHOS) as well as the WMO Information System 2.0 (WIS 2.0), enabling seamless exchange of hydrometeorological data to enhance regional monitoring and prediction capabilities. The project will adopt the WMO Global Hydrological Status and Outlook System (HydroSOS) approach, integrating these monitoring, forecasting, and data-sharing components to provide comprehensive drought information. All these efforts will be accompanied by capacity building efforts as outlined in component 3. Through these activities, this first project component will strengthen evidence-based decision-making in drought management at both national and transboundary levels, ensuring improved preparedness, response, and resilience to drought events.
2. Community-level drought management plans will identify challenges and guide activity development. Based on these plans, drought preparedness and response interventions will be piloted in vulnerable smallholder and pastoralist communities, using nature-based solutions with gender and social inclusivity to maximize environmental and social benefits. Financing strategies will support replication, scaling, and sustainability. Pilot communities will be identified in the full proposal stage. Ideally at least one pilot community per target country would be selected.
3. A review of national and regional drought management institutions, policies, and strategies will be conducted using the IDMP Benefit of Action/Cost of Inaction Framework to guide all activities and ensure alignment with existing initiatives. To enhance long-term institutional capacity and sustainability, the project will support the establishment of a WMO Regional Drought Management Centre, leveraging existing structures such as the Central Asia Regional Climate Information Platform (CACIP). Additionally, national capabilities in utilizing satellite data, numerical weather prediction (NWP), and other relevant application products will be enhanced through tailored capacity development activities. These efforts will ensure that monitoring, forecasting, and data-sharing improvements under Component 1 are effectively sustained and integrated into institutional frameworks, strengthening evidence-based decision-making for drought management at national and transboundary levels.
4. These capacity-building activities will also directly support the efforts under Component 1 by strengthening national and regional capabilities in drought risk assessment, monitoring, and forecasting. Specifically, the project will provide guidance and complementary support for the envisioned efforts to establish a Measurement Centre for Glaciology, helping to enhance the monitoring of glaciers and snow cover—key components in drought prediction and water resource management. Awareness, collaboration, knowledge management, and gender mainstreaming will be strengthened

through action plans and communities of practice to sustain project results. This will contribute to an awareness campaign on disaster risk management (DRM) and climate change, as well as support the dissemination of sector-specific drought information using a user-centric approach and tools.

Cost Effectiveness: A cost-effective, holistic approach integrating technical, social, economic, and environmental factors will prioritize regional resilience over a single-country focus. Strategic, pilot investments and local expertise will enhance sustainable drought resilience for communities and ecosystems. The project will create synergies with other initiatives to maximize financial efficiency.

Learning & Knowledge Management: Project activities will be underpinned by capacity development initiatives and awareness raising campaigns throughout all project components. Awareness raising, collaboration and knowledge management are further specifically the core of project component 4, in which dedicated communities of practice will be established.

Consultative process & strengthening of regional collaboration: During project development, meetings with key country stakeholders were held to ensure inclusion and consultation. The "Joint Workshop on Regional Cooperation in Central Asia" in March 2024 confirmed the project's focus. A stakeholder analysis will be conducted, and relevant parties will be involved in all stages of development and implementation, ensuring a country- and region-driven approach with an emphasis on strengthening regional collaboration.

Innovation & Coherence with regional priorities: Many projects address drought management gaps, as key climate challenge in the region. This project provides a cohesive approach, building on the 2021 Regional Drought Strategy, connects to local and national activities, and aligns with other regional initiatives to tackle drought and water scarcity. It will additionally explore innovative solutions like crowd-sourced glacier and snow data and nature-based approaches where feasible.

Socio-economic Benefits, incl. Gender Considerations: The project will deliver socio-economic benefits by reducing damages and losses, enhancing sectoral security, and safeguarding ecosystems, supporting livelihoods and income. It will follow Adaptation Fund's and WMO's Environmental, Social, and Gender Policies, as well as a user-centric approach, to engage vulnerable communities and address gender aspects. A Stakeholder Engagement and Gender Action Plan will guide these efforts. Nature-based solutions will promote ecosystem services, linking management with livelihoods. Financing strategies will leverage existing frameworks to support replication, scaling, and sustainability.

Sustainability: Sustainability will be reinforced by establishing governance mechanisms with sustainable financing, institutionalizing the Central Asian Regional Drought Management Strategy. The new WMO Regional Drought Management Centre will coordinate ongoing and sustained strategy implementation. Institutional capacity at regional, national and local level will be enhanced and sustained through a capacity development program on decision-making for drought management.

PART III: IMPLEMENTATION ARRANGEMENTS


The initiative will be led by WMO as implementing entity, in close collaboration with executing entities. The WMO-GWPO Technical Support Unit, supported by a network of "Support Base Partners," will design technical solutions with executing partners. A dedicated project manager, ideally based in the region, will oversee implementation, ensuring stakeholder inclusion, proper monitoring, and risk management. Collaboration with national and regional entities will occur through workshops, agreements, and institutional arrangements. FAO will adapt the agriculture stress index system (ASIS) for the region, which will be included/used for drought monitoring. Regional activities are executed through GWP-CACENA and CAREC. At the national level, NMHSs, CAREC, and GWP-CACENA will be executing partners, liaising with local institutions. UNCCD will manage policy-level connections. On community level, GWP CACENA Country Water Partnerships will provide support; engagement with Caritas or the Red Cross will be pursued. A steering committee with key stakeholders, including UNCCD representatives, will guide the project.

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

A. Record of endorsement on behalf of the government¹⁹

Turkmenistan	08 April 2024
Kazakhstan	12 April 2024
Kyrgyz Republic	04 November 2024
Uzbekistan	11 December 2024
Tajikistan	13 December 2024

B. Implementing Entity certification

I certify that this proposal has been prepared in accordance with guidelines provided by the Adaptation Fund Board, and prevailing National Development and Adaptation and subject to the approval by the Adaptation Fund Board, <u>commit to implementing the project/programme in compliance with the Environmental and Social Policy of the Adaptation Fund</u> and on the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this project/programme.	
 Moyenda Chaponda Implementing Entity Coordinator, WMO Development Partnerships Office	
Date: 15 April 2025	Tel. and email: mchaponda@wmo.int
Project Contact Person: Stephanie Gallasch	
Tel. And Email: sgallasch@wmo.int	

¹⁹ Each Party shall designate and communicate to the secretariat the authority that will endorse on behalf of the national government the projects and programmes proposed by the implementing entities.

ҚАЗАҚСТАН РЕСПУБЛИКАСЫ
ЭКОЛОГИЯ
ЖӘНЕ ТАБИҒИ РЕСУРСТАР
МИНИСТРЛІГІ



MINISTRY
OF ECOLOGY AND NATURAL
RESOURCES OF THE
REPUBLIC OF KAZAKHSTAN

010000, Астана қ., Мәңгілік Ел даңғылы, 8
«Министрліктер үйі», 14-кіреберіс
тел.: +7 7172 74 08 44

010000, Astana city, Mangilik El avenue, 8
«The House of Ministries», entrance 14
tel.: +7 7172 74 08 44

12.04.2024 № 14-2-12/6041

TO: The Adaptation Fund Board
c/o Adaptation Fund Board Secretariat
Email: Secretariat@Adaptation-
Fund.org
Fax: 202 522 3240/5

CC: Stephanie Gallasch
World Meteorological Organization
7bis Avenue de la Paix
CH-1211 Geneva 2
Switzerland
SGallasch@wmo.int

Subject: Endorsement for the development of a regional project proposal on Integrated Drought Management for Central Asia

In my capacity as the Designated Authority of the Republic of Kazakhstan to the Adaptation Fund, I am expressing our interest in the development and implementation of a regional project proposal with the aim to increase drought resilience in Central Asia.

We confirm that the 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 Kazakhstan.

Accordingly, I am pleased to endorse the project proposal with appreciation of the support from the Adaptation Fund, that will – if approved – be implemented by the World Meteorological Organization.

Please be informed that Ms. Gulzhan Tulebayeva, Director of Administrative Department of the Kazhydromet RSE is assigned for further contacts on the issues of the development of project proposal on integrated drought management and delivering of input of experts from the Republic of Kazakhstan. Her contact details are as followings: office +7 7172 798401, mobile +7 777 222 5500; tulebayeva_g@meteo.kz, and copy to interkaz@meteo.kz.

Yours sincerely,

Mrs. Saule Sabieva

Director

Climate Policy Department

Ministry of Ecology and Natural Resources
of the Republic of Kazakhstan

000174

**КЫРГЫЗ РЕСПУБЛИКАСЫНЫН
ЖАРАТЫЛЫШ РЕСУРСТАРЫ,
ЭКОЛОГИЯ ЖАНА ТЕХНИКАЛЫК
КӨЗӨМӨЛ МИНИСТРЛИГИ**



**МИНИСТЕРСТВО ПРИРОДНЫХ
РЕСУРСОВ, ЭКОЛОГИИ И
ТЕХНИЧЕСКОГО НАДЗОРА
КЫРГЫЗСКОЙ РЕСПУБЛИКИ**

720040, Кыргыз Республикасы
Бишкек ш., Эркиндик бульвары, 2
Эл.почта: info@mnr.gov.kg
тел.: +996 (312) 30-06-67

720040, Кыргызская Республика
г. Бишкек, бульвар Эркиндик, 2
Эл.почта: info@mnr.gov.kg
тел.: +996 (312) 30-06-67

4 ноябрь 2024 № 01-10/9072

На № _____

Bishkek, Kyrgyz Republic

TO: The Adaptation Fund Board
c/o Adaptation Fund Board
Secretariat
Email: Secretariat@Adaptation-
Fund.org
Fax: 202 522 3240/5

CC: Stephanie Gallasch
World Meteorological
Organization
7bis Avenue de la Paix
CH-1211 Geneva 2
Switzerland
SGallasch@wmo.int

**Subject: Endorsement for the development of a regional project
proposal on Integrated Drought Management for Central Asia**

In my capacity as the Designated Authority of the Kyrgyz Republic to the Adaptation Fund I am expressing our interest in the development and implementation of a regional project proposal with the aim to increase drought resilience in Central Asia.

We confirm that the 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 Kyrgyz Republic.

Accordingly, I am pleased to endorse the project proposal with appreciation of the support from the Adaptation Fund, that will – if approved – be implemented by the World Meteorological Organization.

Please be informed that Mr. Almazbek Sokeev, Deputy Minister, NFP UNCCD, Ministry of Water Resources, Agriculture, Processing Industry is assigned for

further contacts on the issues of the development of project proposal on integrated drought management and delivering of input of experts from the Kyrgyz Republic. His/Her contact details are as followings: office + 996 312 54 90 87; e-mail: sokeev_nfp@mail.ru, and copy to Rysbek Apasov, UNCCD IWG: invest305@mail.ru

Yours sincerely,

Mr. Meder Mashiev
Minister



Ministry of Natural Resources, Environment and Technical Supervision
Kyrgyz Republic

Adaptation Fund Designated Authority

КУМИТАИ
ҶИФЗИ МУҲИТИ ЗИСТИ
НАЗДИ ҲУКУМАТИ
ҶУМҲУРИИ ТОҶИКИСТОН

734003, шаҳри Душанбе, кӯчаи Шамсӣ 5/1

Тел./факс: (992 37) 236-40-59, 236-13-53

Веб-сайт: www.tajnature.tj

Почтаи электронӣ: info@tajnature.tj



КОМИТЕТ ПО
ОХРАНЕ ОКРУЖАЮЩЕЙ СРЕДЫ
ПРИ ПРАВИТЕЛЬСТВЕ
РЕСПУБЛИКИ ТАДЖИКИСТАН

734003, город Душанбе, улица Шамсӣ 5/1

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COMMITTEE FOR ENVIRONMENTAL PROTECTION
UNDER THE GOVERNMENT OF THE REPUBLIC OF TAJIKISTAN

5/1 Shamsi str., 734003, Dushanbe city, tel./fax: (992 37)236-40-59, 236-13-53 web-site: www.tajnature.tj, e-mail: info@tajnature.tj

№ 1/9-03-3396 from « 13 » 12 2024

To _____ from « ____ » ____ 2024

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

CC: Stephanie Gallasch
World Meteorological Organization
7bis Avenue de la Paix
CY-1211 Geneva 2, Switzerland
SGallasch@wmo.int

Subject: Endorsement for the development of a regional project proposal on Integrated Drought Management in Central Asia.

Dear Colleagues,

By this letter, the Committee for Environmental Protection under the Government of the Republic of Tajikistan (CEP), and I in my capacity as the designated authority for the Adaptation Fund-Tajikistan are expressing our interest in the development of a regional project proposal with the aim to increase drought resilience in Central Asia.

In addition, the employees of the Agency for Hydrometeorology express their readiness to contribute to the development of the project proposal on drought resilience and to contribute to the implementation of the resulting project to its full capacity at a later stage.

We confirm that the 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 Tajikistan.

Accordingly, I am pleased to endorse the project proposal with appreciation of the support from the Adaptation Fund, which will - if approved – be implemented by the World Meteorological Organization.

Please be informed that Mr. Abdullo Habibullo Qurbonzoda as Permanent Representative of Tajikistan with the WMO Agency for Hydrometeorology is assigned for further contacts on the issues of the development of project proposal on drought resilience and delivering of input by Tajikistan expert. His contact details are as followings: (+992) 907-70-14-31; e-mail: qurbonzoda1967@gmail.com.



Yours sincerely,

Bahodur Sheralizoda

Chairman Committee for Environmental Protection under the
Government of the Republic of Tajikistan and
Adaptation Fund Focal Point

Subject: Endorsement for the development of a regional project proposal on Integrated Drought Management in Central Asia.

Dear Colleagues,

By this letter, the Committee for Environmental Protection under the Government of the Republic of Tajikistan (CEP), and I in my capacity as the designated authority for the Adaptation Fund-Tajikistan are expressing our interest in the development of a regional project proposal with the aim to increase drought resilience in Central Asia.

In addition, the employees of the Agency for Hydrometeorology express their readiness to contribute to the development of the project proposal on drought resilience and to contribute to the implementation of the resulting project to its full capacity at a later stage.

We confirm that the project proposal is in accordance with the government's national policies in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in Tajikistan.

**TÜRKMENISTANYŇ
DAŞKY GURŞAWY GORAMAK
MINISTRRLIGI**



**MINISTRY OF ENVIRONMENT
PROTECTION OF
TURKMENISTAN**

✉ 744036, Aşgabat şäheri, Arçabil şaýoly, 92-nji jaýy
☎ Telefon: (+993 12) 44-80-04; Faks: (+993 12) 44-80-05
@ Elektron poçta: mineco@sanly.tm

✉ 92 Archabil avenue, Ashgabat city, 744036
☎ Telephone: (+993 12) 44-80-04; Fax: (+993 12) 44-80-05
@ E-mail: mineco@sanly.tm

« 08 » *aprel* 20 24 ý.

№ 08-1284

**TO: The Adaptation Fund Board
c/o Adaptation Fund Board
Secretariat
Email: Secretariat@Adaptation-
Fund.org
Fax: 202 522 3240/5**

**CC: Stephanie Gallasch
World Meteorological
Organization
7bis Avenue de la Paix
CH-1211 Geneva 2
Switzerland
SGallasch@wmo.int**

**Subject: Endorsement for the development of a regional project
proposal on Integrated Drought Management for Central Asia**

In my capacity as the Designated Authority of Turkmenistan to the Adaptation Fund, I am expressing our interest in the development and implementation of a regional project proposal with the aim to increase drought resilience in Central Asia.

I confirm that the 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 Turkmenistan.

Accordingly, I am pleased to endorse the project proposal with appreciation of the support from the Adaptation Fund, that will – if approved – be implemented by the World Meteorological Organization.

Please be informed that Mr. Serdar Eyeberenov, Head of Hydrometeorology Department of the Ministry is assigned for further contacts on the issues of the development of project proposal on drought resilience and delivering of input by Turkmenistan experts. His contact details are as followings: + 99365 696898 (mob), +99312 448065; e-mail: serdar.05@mail.ru

Yours sincerely,

**H.E. Mr. Babanyyazov, Ch.G.
Minister of Environmental Protection
Adaptation Fund Focal Point**



"11" 12 2024

No 01-01/2-1806

Tashkent

The Adaptation Fund Board
1818 H Street NW
Washington DC 20433 USA

Subject: Endorsement for the development of a regional project proposal on Integrated Drought Management for Central Asia

On behalf of the Ministry of Ecology, Environmental Protection and Climate Change of the Republic of Uzbekistan (Ministry) and in my capacity as the Designated Authority of Uzbekistan to the Adaptation Fund, I hereby express interest in the development of a regional project proposal with the aim to increase drought resilience in Central Asia.

I hereby confirm that the project proposal is in accordance with the Government's national priorities in implementing adaptation activities to reduce the adverse impacts of climate change in Uzbekistan.

In addition, we express the readiness of the Ministry experts to contribute to the development of the project proposal on integrated drought management and the implementation of the resulting project at a later stage.

With this, I am pleased to endorse the project proposal with appreciation of the support from the Adaptation Fund, which, if approved – will be implemented by the World Meteorological Organization (WMO).

Please be informed that Mr. Sherzod Khabibullayev, Director of Uzhydromet assigned to further contact (P: + 99897 4551939, E: uzhydro@gmail.com) on the project proposal development and to provide any needed input from the expert side. We look forward to your positive consideration and further support.

Sincerely yours,

Aziz Abdukhakimov

Minister

Adaptation Fund Designated Authority





Revised PFG Submission Form¹
Project Formulation Grant (PFG)

Submission Date: 10 February 2025 (Submission after 1 Rev: 15 April 2025, submission after 2nd Rev: 20 May 2025)

Adaptation Fund Project ID: n/a

Country/ies: Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan

Title of Project/Programme: Integrated Drought Management for Central Asia (IDCA)

Type of IE (NIE/RIE/MIE): MIE

Implementing Entity: World Meteorological Organization (WMO)

Executing Entity/ies:

- WMO

A. Project Preparation Timeframe

Start date of PFG	01/01/2026
Completion date of PFG	31/106/2026

B. Proposed Project Preparation Activities (\$)

#	List of Proposed Project Preparation Activities	Output of the PFG Activities	US\$ Amount	Budget note ²
1	Hold preparatory virtual meetings with project focal points from all countries	- Joint agreement on date and location of regional stakeholder consultation workshop	0	No budget required – WMO in-kind contribution
2	Organize and hold regional stakeholder consultation workshop to define overall project activities, discuss next steps	- Specific activities to be included in the project, aimed at achieving desired outputs, identified and agreed - Activities, milestones, and indicators per output defined	20,100	Travel and DSA for approximately 30 participants, meeting venue, local transportation, stationary

¹ As presented in AFB/PPRC.33/40 Annex 1.

² The proposal should include a detailed budget with budget notes indicating the break-down of costs at the activity level. It should also include a budget on the Implementing Entity management fee use.

		<ul style="list-style-type: none"> - Roles and responsibilities of each stakeholder in the project defined - Project resources allocation defined - Ownership of national and regional stakeholders of the project strengthened 		(Cost breakdown depending on location & time)
3	Identify and hire consultant(s) to support the development of the project proposal	<ul style="list-style-type: none"> - Project proposal, environmental, social risk management plan, monitoring and evaluation plan developed - Project concept well-coordinated with country stakeholders and in line with AF rules and regulations 	15,000	Daily rate of USD 500,00 Duration: 30 days
Total				
4	Implementing Entity Management Fee	<ul style="list-style-type: none"> - Project concept in line with latest standards and state of the art methodologies 	3,900	10% of Total
Total Project Formulation Grant			39,000	

Please describe below each of the PFG activities and provide justifications for their need and for the amount of funding required:

1. Preparation of the regional Stakeholder Consultation Workshop
2. A regional stakeholder consultation workshop will be organized in one of the target countries, with participants from governments, civil society, academia and private sector. In the preparation of the pre-concept, key stakeholders had been engaged already – however since the project will be discussed and defined in detail, more relevant stakeholders will be included at this stage to ensure the project targets persisting and prioritized gaps and needs, to ensure country commitment, transparency and sustainability of activities.
3. External consultant(s) will be hired to support the drafting of the project concept and to coordinate with all national and regional stakeholders as well as the executing entities. This will ensure that all needs and expectations are well coordinated with country stakeholders and in line with Adaptation Fund rules and regulations. The proposed budget allows to hire a consultant for 50 days at a daily rate of USD 500. The consultant will be hired through a Special Service Agreement between the consultant and the executing entity.

4. Implementing Entity Management Fee: Different experts of the implementing and executing entities will be engaged in the process of preparing the project concept, providing expert input on different fields like Early Warning Systems (EWS), Monitoring etc. This amount is to compensate for the capacity of these experts within the executing entity.

C. Implementing Entity

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

Implementing Entity Coordinator, IE Name	Signature	Date (Month, day, year)	Project Contact Person	Telephone	Email Address
Mr. Moyenda Chaponda	<i>Moyenda Chaponda</i>	20 May 2025	Ms. Stephanie Gallasch	+41227308209	SGallasch@wmo.int