



ADAPTATION FUND

AFB/PPRC.37/18
16 March 2026

Adaptation Fund Board
Project and Programme Review Committee
Thirty seventh Meeting
Bonn, Germany, 7-8 April 2026

Agenda Item 5 (I)

PROPOSAL FOR JORDAN (1)

Background

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

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

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

3. The first four criteria mentioned above are:

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

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

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

6. At its seventeenth meeting, the Board decided (Decision B.17/7) to approve "Instructions for preparing a request for project or programme funding from the Adaptation Fund", contained in the Annex to document AFB/PPRC.8/4, which further outlines applicable review criteria for both concepts and fully-developed proposals. The latest version of this document was launched in conjunction with the revision of the Operational Policies and Guidelines in November 2013.

7. Based on the Board Decision B.9/2, the first call for project and programme proposals was issued and an invitation letter to eligible Parties to submit project and programme proposals to the Fund was sent out on April 8, 2010.
8. The following project concept document titled “Resilient Ecosystem, Water and Rangelands Development (REWaRD)” was submitted for Jordan by the International Fund for Agricultural Development (IFAD), which is a Multilateral Implementing Entity of the Adaptation Fund.
9. This is the third submission of the project concept proposal using the two-step submission process. It was first submitted as a concept note ahead of the forty-sixth Board meeting.
10. The current submission was received by the secretariat in time to be considered in the forty-sixth Board meeting. The secretariat carried out a technical review of the project proposal, assigned it the diary number AF00000487, and completed a review sheet.
11. In accordance with a request to the secretariat made by the Board in its 10th meeting, the secretariat shared this review sheet with IFAD and offered it the opportunity of providing responses before the review sheet was sent to the PPRC.
12. The secretariat is submitting to the PPRC the summary and, pursuant to decision B.17/15, the final technical review of the project, both prepared by the secretariat, along with the final submission of the proposal in the following section. In accordance with decision B.25.15, the proposal is submitted with changes between the initial submission and the revised version highlighted.



ADAPTATION FUND

ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Regular-sized Project Concept

Country/Region: Hashemite Kingdom of Jordan
Project Title: Resilient Ecosystem, Water and Rangelands Development (REWaRD)
Thematic Focal Area: Climate smart livestock management, water management, rangelands management, ecosystem-based adaptation, food security
Implementing Entity: International Fund for Agricultural Development (IFAD)
Executing Entities: Ministry of Agriculture (MOA)
AF Project ID: AF00000487
IE Project ID: **Requested Financing from Adaptation Fund (US Dollars):** 9,998,356
Reviewer and contact person: Lystra Fletcher-Paul **Co-reviewer(s):**
IE Contact Person:

<p>Technical Summary</p>	<p>The project “Resilient Ecosystem, Water and Rangelands Development (REWaRD)” aims to contribute to increased climate resilience of rural smallholders engaged in the small-ruminant value chains in Jordan, specifically, to support climate resilience of small ruminants’ food systems through improved access to rangelands, fodder, feed, and water, and diversification of livelihoods of climate vulnerable households. This will be done through the three components below:</p> <p><u>Component 1:</u> Strengthening climate resilience of small ruminants’ food systems (USD 3,443,772);</p> <p><u>Component 2:</u> Enabling vulnerable groups to income diversification for climate change adaptation (USD 4,603,729);</p> <p><u>Component 3:</u> Supporting climate policy (USD 316,713).</p> <p><u>Requested financing overview:</u> Project/Programme Execution Cost: USD 850,862 Total Project/Programme Cost: USD 9,215,076 Implementing Fee: USD 783,280 Financing Requested: USD 9,998,356</p>
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	<p>The proposal includes a request for a project formulation grant of USD 150,000.</p> <p>The initial technical review raised some issues, such as the inclusion of risks and assumptions in the Theory of Change, estimates of economic benefits and cost effectiveness, arrangements for economic, environmental and social sustainability and specifically the sustainability of the revolving fund and infrastructure, and the alignment with the Adaptation Fund Results framework to name a few, as is discussed in the number of Clarification Requests (CRs) and Corrective Action Requests (CARs) raised in the review.</p> <p>The second technical review found that most of the issues raised in the first review have been addressed with the exception of the alignment with the Adaptation Fund Results Framework and amending the risk Table as discussed in the Corrective Action Request (CAR) raised in the review.</p> <p>The third technical review finds the pending CARs to be addressed.</p>
Date:	February 25, 2026

Review Criteria	Questions	First Technical Review Comments December 17, 2025	Second Technical Review Comments 29 January 2026	Third Technical Review Comments February 25, 2026
Country Eligibility	1. Is the country party to the Kyoto Protocol, and/or the Paris Agreement?	Yes. The country has ratified both the Kyoto Protocol (January 17, 2003) and the Paris Agreement (November 08, 2016).		-
	2. Is the country a developing country particularly vulnerable to the adverse effects of climate change?	Yes. Jordan is a developing country which is vulnerable to the impacts of climate change, particularly increased frequency and intensity of extreme weather events such as heat waves and diminishing water availability which lead to deteriorating water quality, thereby exacerbating livelihoods and health issues. The country ranked 74 out of 187 countries in the ND-GAIN index for 2023. It is the 138th most vulnerable country in the world.		-
Project Eligibility	1. Has the designated government authority for the Adaptation	Yes.		-

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	Fund endorsed the project/programme?	As per the Endorsement letter dated 3 November 2025.		
	2. Does the length of the proposal amount to no more than Fifty pages for the project/programme concept, including its annexes?	Yes. The concept note is 47 in total, including annexes. CAR1: Please commence the proposal document with the AF proposal template cover page.	CAR1: Cleared The appropriate template cover page has been used	Editorial note: To improve the quality and clarity of the proposal document, please consider conducting a thorough round of editing/proofreading to the document before sending it to the secretariat .
	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?	Yes, but further information is required. In Part II.A, for each component, the aim is stated as well as how the project hopes to achieve the aim. It also explains each output, providing some background in terms of the climate vulnerability in the target areas, why the intervention is needed and it gives a broad description of the activities, showing how		

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		<p>they lead to tangible outcomes and climate benefits. In addition, it provides a coherent Theory of Change (ToC) and states the alignment of the project with the AF Strategic Objectives. However, additional information for the targeted districts is required, as well as more details in the ToC.</p> <p>CR1: Please provide some more details (population disaggregated by gender, livelihoods, etc.) about the target districts.</p> <p>CR2: Please include in the ToC the following elements:</p> <ul style="list-style-type: none"> - activities as well as the outputs - risks and assumptions made 	<p>CR1 Cleared Details included about the target districts (para 5 to 8)</p> <p>CR2 Cleared ToC updated to include activities, risks and assumptions (See Figure 3 page 14)</p> <p>CR3 Cleared Outcomes included for each component (para 34, 38 and 42)</p>	

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		CR3: Kindly include the outcomes for each component in Part II.A.		
	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?	Yes, but further information is required. Part II.B (para 40 to 45) provides information on the economic, social and environmental benefits of the project, including the number of expected beneficiaries and specifically women, youth and vulnerable groups. The target areas where the marginalized and vulnerable groups are located have been identified and the benefits to be provided by the project have been outlined. No mention has been made of negative development of maladaptation. However, there is no quantitative information on the dollar value of the economic benefits.		

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		<p>An initial gender analysis has been conducted using information gained from lessons learned from IFAD's portfolio in Jordan as well as consultations with officials and non-official entities and community members including women, youth and vulnerable smallholder farmers. Funds have been requested for a detailed gender assessment and action plan through the Project Formulation Assistance Grant.</p> <p>CR4: Please include in the economic benefits the estimated dollar-value of beneficiaries' benefits for each of the target communities. If possible, kindly include overall figures of the estimated economic and social benefits.</p> <p>CR5: Please describe how benefits will be equitably</p>	<p>CR4: Cleared. Estimated dollar value added for some of the benefits (para 47 and table 6); additional data will be provided during project design</p> <p>CR5: Cleared Measures which will be taken to promote equitable benefits and integrate gender considerations have been included in para 46.</p>	

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		distributed, including how gender (and other vulnerable groups) considerations have been integrated.		
	5. Is the project / programme cost effective?	<p>Yes, but further information is required. Part II.C (para 46 to 48) describes the scope and approach to be taken by the full project. Table 6 also includes a preliminary comparison of averted losses and alternatives to the project for each of the components. However, more details are needed.</p> <p>CR6: Please provide quantitative data on the cost effectiveness of the proposed interventions where possible. Where possible, provide quantitative estimates through proxies or qualitative justifications to support the comparison.</p>	<p>CR 6: Cleared Quantitative data provided in paragraph 47 and Table 6); additional data will be provided during project design</p> <p>CR7: Cleared</p>	

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		CR7: Kindly highlight the sustainability point of view of the proposed interventions.	Sustainability of proposed interventions included in Table 6 and Table 13.	
	6. Is the project / programme consistent with national or sub-national sustainable development strategies, national or sub-national development plans, poverty reduction strategies, national communications and adaptation programs of action and other relevant instruments?	<p>Yes, but further information is required.</p> <p>Part II.D (para 49 to 55) mentions a list national and sub-national strategies relevant to the proposed project, including the National Strategy for Agricultural Development, the National Food Security Strategy, National climate Change Policy and updated Nationally Determined Contributions (NDCs). However, there is need to include more details as well as provide information on other sub-sectoral plans (if they exist) which may be of relevance to the project e.g. Water Sector and Health.</p> <p>CR8: Kindly provide the identified plans/strategies in a table-listing, including at least:</p>	<p>CR8: Cleared</p> <p>Revisions made to new Table 7</p>	

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		<p>(i) Specific name of the plan/strategy and years of implementation,</p> <p>(ii) Main objective,</p> <p>(iii) Explain the relevance to the proposed project, including its alignment with the existing plan or strategy. A suggested structure could be: <i>'The proposed project is aligned with [Plan XX], under [Specific Action XX], contributing to [Outcome XX].'</i></p> <p>Please ensure that the table provides a comprehensive list.</p> <p>CR9: Please include any other sectoral plan/strategy related to the proposed project, including the ones related to water and health.</p>	<p>CR9: Cleared</p> <p>Water and Nutrition policies included in Table 7</p>	

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	<p>7. Does the project / programme meet the relevant national technical standards, where applicable, in compliance with the Environmental and Social Policy of the Fund?</p>	<p>Yes, but further information is required. Part II.E (para 56) and Tables 7 and 8 provide a comprehensive list of the relevant legislation and standards. However, more details are needed for each standard identified.</p> <p>CAR2: Kindly include in Table 7, for each standard, the following information:</p> <ul style="list-style-type: none"> (i) how it is related to the proposed project. (ii) the project's compliance status. <p>In the case that compliance is required, please include the steps needed to comply with it.</p>	<p>CAR2: Cleared (See Table 9)</p>	<p>CAR 2: Cleared at concept stage</p> <p>The proposal adequately identifies relevant national legislation and sectoral technical standards and clearly indicates the issuing institutions. However, the "Compliance" column in Table 9 remains largely declarative (e.g., "will take into account," "will comply," "will raise awareness") and does not clarify how adherence to these standards will be operationalized within project implementation.</p> <p>While this can be cleared at the concept stage, <u>at the fully-developed proposal stage</u>, institutional and procedural mechanisms that will ensure systematic compliance with key standards across project components are required:</p> <ul style="list-style-type: none"> - Whether compliance with

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				<p>specific standards will be mandatory conditions under the grant facility and MSME support schemes;</p> <ul style="list-style-type: none"> - How adherence will be verified (e.g., screening checklists, technical approval prior to disbursement, certification requirements, inspections); - How compliance will be ensured under the credit line, given that responsibility is stated to rely on borrowers; - The role of relevant ministries or agencies (MoA, MWI, MoH, JSMO, etc.) in oversight, validation, or technical backstopping

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				during implementation.
	8. Is there duplication of project / programme with other funding sources?	<p>No, but further information is required.</p> <p>Table 9, in Part II.F, lists all the on-going or planned projects with similar objectives and geographic scope, providing the name, budget, duration and status of the project, including a summary of the objectives and geographic area covered by the project and the potential complementarity (including risk of duplication) with the current project proposal. However, all the projects listed are national in scope. There may also be regional projects of which Jordan is a beneficiary country which may also be relevant. In addition, a sound justification for no duplication projects is needed.</p>		

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		<p>CR10: Please make a thorough review of regional projects of which Jordan is a beneficiary country and include them in Table 9.</p> <p>CR11: Kindly include in Table 9, for each project identified, the following details:</p> <ul style="list-style-type: none"> (i) Lessons learned (if applicable) (ii) Overlaps and synergies with the proposed project. <p>The no duplication statement should be clearly justified and specific (e.g. by indicating the distinct geographic locations and/or types of interventions) for each related project identified.</p>	<p>CR10: Cleared Table 11 provides the requested information on Regional Project, noting that a more accurate account will be done during design phase</p> <p>CR11: Cleared Lessons learned as well as overlaps and synergies have been included in Table 10 (pp 33 – 36).</p>	

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	<p>9. Does the project / programme have a learning and knowledge management component to capture and feedback lessons?</p>	<p>Yes, but further information is required. Part III.G (para 58 to 61) describes the learning and knowledge component (component 3) of the project and specifies the project outputs which contribute to learning and knowledge. It includes the design of project-wide knowledge activities tailored to various audiences including policy roundtables, technical working groups, stakeholder workshops and co-publication with technical partners. However, more details are needed regarding the effectiveness and arrangements.</p> <p>CR12: Please include activities which analyse the effectiveness of the adaptation products and incorporate mechanisms for improvement.</p>	<p>CR12: Cleared Activities to analyse effectiveness included (Para 43 and Para 61-62)</p> <p>CR13: Cleared Information required has been included in Para 63-65.</p>	-

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		<p>CR13: Kindly include details to respond to:</p> <ul style="list-style-type: none"> • More details of the specific activities, including the institutions involved, and main goals. For example, the policy briefs will be about what subject, or the demonstration sites will be focused on what matter. • who will be responsible for tracking the experiences gained, how this will be done, and when the tracking will take place (the arrangements needed). • how the knowledge generated will be sustained after the project concludes. 		

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	10. Has a consultative process taken place, and has it involved all key stakeholders, and vulnerable groups, including gender considerations in compliance with the Environmental and Social Policy and Gender Policy of the Fund?	<p>Yes, but further information is required. Part II.H (para 62 to 65). An initial stakeholder consultation took place to provide information for the preparation of the concept note. This consultation included, inter alia, Government representatives (at central and local level), local communities and potential beneficiaries (including small herders and women), NGOs, Private sector and international organizations. Meetings were also complemented with field visits. The engagement and consultation process covered both national and regional levels. The list of stakeholders is presented in Annex 2. Gender considerations were included through an initial gender assessment (Para 9 and 10).</p>		

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		<p>CAR3: Please include in the Annexes a report summarizing the findings from the stakeholder consultations and explain how these have been incorporated into the proposed project, including those related to gender and other vulnerable groups.</p>	<p>CAR3: Cleared. Findings from the stakeholder consultations and explanation of how they have been incorporated have been added to Annex 3</p>	
	<p>11. Is the requested financing justified on the basis of full cost of adaptation reasoning?</p>	<p>Yes. As per information provided in Part II.I (Para 66 to 69). Specifically, Table 10 shows how the activities of each component are relevant to addressing the adaptation objectives compared with the “business as usual” scenario.</p> <p>The project will also complement and support initiatives and approaches being piloted by IFAD and other donor funded projects, but it does not rely on co-financing or external support to generate adaptation</p>		

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		benefits, rather it will build on the knowledge generated from these projects.		
	12. Is the project / program aligned with AF's results framework?	<p>Yes, but some adjustments are required.</p> <p>Part III.A, and specifically Table 13, shows the alignment of the proposed project with the AF Results Framework.</p> <p>However, there are some inconsistencies between the indicators in the table and the project indicators. Moreover, the Outcome indicators are not consistent with those of the AF Results Framework.</p> <p>For example, the indicator for Outcome 7 does not coincide with any of the indicators provided in the Strategic Results Framework.</p> <p>CAR4: 1. Please ensure consistency between</p>	<p>CAR4: Not cleared</p> <p>While the amended table (Table 15) is correctly completed in terms of the AF Outputs and Outcomes, the Project Objective and Outcome indicators in the upper and lower parts of the table should be expressed in measureable terms. Thus, for the Project Objective, instead of Households reporting adoption of environmentally sustainable and climate-resilient technologies and practices; it should be Number of households reporting.... Similarly for Project Outcome 1, instead of land brought under climate resilient practices, the Project Outcome Indicator should be: Acres of land or Number of parcels of land</p>	<p>CAR 4.1: Cleared (page 42)</p> <p>Table 13 (now Table 15) amended</p>

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		<p>the Expected Outcomes of the project and the Outcomes in the Adaptation Fund Strategic Results Framework as and utilize the updated template outlined in the Results Framework Alignment Table (Amended in November 2025) (77 kB, DOC)</p> <p>2. At Part 2 Section B, please indicate alignment of the proposal with the results framework of the fund by referencing the AF outcomes to which they are aligned.</p>	<p>brought under climate resilient practices.</p> <p>Also, the Total outcome and output level amounts are incorrect. In the lower part of the table, the total of the three Outcomes (USD 3,443,772 + 4,603,729 + 316,713) = USD8,364,214 not USD 9,999,989.</p> <p>Please amend Table 15 as follows:</p> <ol style="list-style-type: none"> 1. Change the Project Objective and Outcome Indicators to measureable terms. 2. Change the totals in the upper and lower sections of the table to the correct total of the three Outcomes – USD 8,364,214. 	
	13. Has the sustainability of the project/programme outcomes been taken	<p>Yes, but further information is required. Part II.J (Para 70 to 73) describes the project</p>	<p>CR14: Cleared Additional information provided in Paragraph 41 and Table 13</p>	

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	<p>into account when designing the project?</p>	<p>sustainability, including beneficiary empowerment through awareness building, capacity building and cost-effective and environmentally friendly and long-lasting solutions. Table 11 also outlines some mitigation measures proposed to address Institutional, Governance and Financial Sustainability. However, it does not address environmental, economic and social sustainability, neither does it describe the measures which will be taken to maintain the infrastructure such as rainwater harvesting.</p> <p>The project also proposes to establish a revolving fund for small holders and vulnerable groups (women, youth, poor producers, etc.) in collaboration with the Agricultural Credit Corporation (ACC), providing reimbursable</p>		

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		<p>grants to increase the resilience of small-sale and home-based producers of dairy and meat projects (See para 37). However, while the parameters for the sustainability of the fund have been mentioned, there is need for further details on how this fund will be sustained.</p> <p>CR14: Please include additional elements of sustainability such as: long term sustainability of the revolving fund, and engagement of private sector, environmental and social sustainability and measures which will be taken to ensure maintenance of infrastructure and equipment.</p>		
	14. Does the project / programme provide an overview of environmental and social impacts / risks	<p>Yes, but further information is required. Part II.K presents the findings of the risk screening, in which the</p>	<p>CAR5: Not Cleared Please delete the additional column added to indicate risk level and insert the following just</p>	<p>CAR 5: Cleared Third column included and anticipated impacts and</p>

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	<p>identified, in compliance with the Environmental and Social Policy and Gender Policy of the Fund?</p>	<p>potential environmental and social impacts and risks are identified against the 15 ESP principles. The concept note also indicates whether any further assessment is required for compliance and the potential impacts and risks, including further assessment and management required for compliance.</p> <p>The project is classified as Category B.</p> <p>Only two principles – Indigenous Peoples and Involuntary Resettlement have classified as not requiring further assessment for compliance.</p> <p>CAR5: Please include in the third column in Table 2, the risk level (low, medium or high) and anticipated impacts and mitigation measures for each principle. It should consider all potential</p>	<p>before the current paragraphs at each row in column 3.</p> <p>“Risk level: Low/Medium/High”. Please use whichever level is applicable.</p> <p>CAR 6: Cleared</p> <p>See Table 14 and Para (5-8). The updated table includes challenges, risks and mitigation measures. Further quantitative and quantitative data will be included in the design report.</p>	<p>mitigation measures revised. (Table 14)</p>

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		<p>direct, indirect, transboundary and cumulative impacts because of the project, as well as the mitigation measures associated with the risk described.</p> <p>CAR6: Please refer to the initial gender assessment, including qualitative and quantitative data for gender roles, activities, needs, and available opportunities and challenges or risks for men and women.</p>		
Resource Availability	1. Is the requested project / programme funding within the cap of the country?	Yes.		-
	2. Is the Implementing Entity Management Fee at or below 8.5 per cent of the total project/programme budget before the fee?	<p>Yes. IE Management Fee is 8.5% of total budget. PFG of USD 150,000 is adequate for a single country project of this size.</p> <p>CAR7: Please confirm if MOA will also execute the PFG if not please amend</p>	CAR 7 Modified in the PFG that the EE is IFAD	

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		the EE for in the PFG request form to IFAD.		
	3. Are the Project/Programme Execution Costs at or below 9.5 per cent of the total project/programme budget (including the fee)?	Yes. All figures add up and are consistent across the components table and the budget. The figures are rounded to a whole number, and the Project Execution cost is 9.2 % of the total budget.		-
Eligibility of IE	1. Is the project/programme submitted through an eligible Implementing Entity that has been accredited by the Board?	Yes. The International Fund for Agricultural Development (IFAD) is an accredited MIE. Accreditation Expiration Date: 21 December 2025		-
Implementation Arrangements	1. Is there adequate arrangement for project / programme management, in compliance with the Gender Policy of the Fund?	n/a at concept stage		
	2. Are there measures for financial and project/programme risk management?	n/a at concept stage		

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	3. Are there measures in place for the management of for environmental and social risks, in line with the Environmental and Social Policy and Gender Policy of the Fund?	n/a at concept stage		
	4. Is a budget on the Implementing Entity Management Fee use included?	n/a at concept stage		
	5. Is an explanation and a breakdown of the execution costs included?	n/a at concept stage		
	6. Is a detailed budget including budget notes included?	n/a at concept stage		
	7. Are arrangements for monitoring and evaluation clearly defined, including budgeted M&E plans and sex-disaggregated data, targets and indicators, in compliance with the Gender Policy of the Fund?	n/a at concept stage		

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	8. Does the M&E Framework include a break-down of how implementing entity IE fees will be utilized in the supervision of the M&E function?	n/a at concept stage		
	9. Does the project/programme's results framework align with the AF's results framework? Does it include at least one core outcome indicator from the Fund's results framework?	n/a at concept stage		
	10. Is a disbursement schedule with time-bound milestones included?	n/a at concept stage		



CONCEPT NOTE PROPOSAL FOR SINGLE COUNTRY

PART I: PROJECT INFORMATION

Title of Project: Resilient Ecosystem, Water and Rangelands Development (REWaRD)

Country: Hashemite Kingdom of Jordan

Thematic Focal Area: Climate smart livestock management, water management, rangelands management, ecosystem-based adaptation, food security

Type of Implementing Entity: Multilateral Implementing Entity
Implementing Entity: [International Fund for Agricultural Development \(IFAD\)](#)

Executing Entities: Ministry of Agriculture (MOA)

Amount of Financing Requested: 9,998,356 (in U.S Dollars Equivalent)

Project Formulation Grant Request (available to NIEs only): Yes No

Amount of Requested financing for PFG: 150,000 (in U.S Dollars Equivalent)

Letter of Endorsement (LOE) signed: Yes No

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:

- This concept has been submitted before
- This is the first submission ever of the concept proposal

In case of a resubmission, please indicate the last submission date: ~~41/20/2025~~ 1/30/2026
Please note that concept note documents should not exceed 50 pages, including annexes.

Official Use Only

Abbreviations and Acronyms

ACC	Agricultural Credit Corporation
AF	Adaptation Fund
ESCMP	Environmental, Social and Climate Management Plan
ESMP	Environmental and Social Management Plan
FAO	Food and Agriculture Organization
FFS	Farmer Field Schools
GEF	Global Environment Facility
GEWE	Gender Equality and Women Empowerment
GHG	Greenhouse Gas
GIZ	Deutsche Gesellschaft für Internationale Zusammenarbeit
GRM	Grievance Redress Mechanism
IFAD	International Fund for Agricultural Development
IUCN	International Union for Conservation of Nature (World Conservation Union)
LMP	Learning Management Plan
M&E	Monitoring and Evaluation
MoA	Ministry of Agriculture
MoE	Ministry of Environment
MSMEs	Micro, Small and Medium Enterprises
NARC	National Agricultural Research Center
NDC	Nationally Determined Contributions
NGO	Non-Governmental Organization
PFS	Pastoral Field Schools
PMU	Project Management Unit
PSC	Project Steering Committee
REGEP	Rural Economic Growth and Employment Project
REGEP-UP	Rural Economic Growth and Employment Project - Upgraded/Scale-up
REWARD	Resilient Ecosystem, Water and Rangelands Development
SDGs	Sustainable Development Goals
SECAP	Social, Environmental and Climate Assessment Procedures
SEP	Stakeholder Engagement Plan
SIGHT	Small Ruminants Investment and Graduating Households in Transition Project
SIGHT-II	Small Ruminants Investment and Graduating Households in Transition Project II
WB	World Bank
WFP	World Food Programme

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A. Project Background and Context

A.1. Socioeconomic Landscape

1. **Jordan is a small upper-middle income country with scarce natural resources.** Situated at the heart of the Middle East, and occupying an area of approximately 89,318 km², Jordan has a diverse terrain and landscape demonstrating a variety usually found only in large countries. Jordan's climate is characterized by long, hot, and dry summers and short, cool winters. The climate is influenced by the country's location between the aridity of the Arabian Desert and the humidity of the eastern Mediterranean area, with about 75% of the country described as having a desert climate with less than 200 millimeters of rain annually.¹
2. **The Jordanian economy is small but steady, despite limited natural resources, a high population growth rate, and ongoing regional conflicts.** Jordan, as of 2025, is experiencing an economic landscape characterized by modest growth, persistent structural vulnerabilities, and an ambitious but challenging modernization agenda. The economy recorded an annual GDP growth rate of around 2.8% in Q2 2025, with projections to reach 3% in 2026.² This pace of growth, while relatively steady, is notably driven by sectors beyond agriculture, such as financial services, manufacturing, tourism, and remittances—but agriculture remains a critical socio-economic anchor, especially in rural regions. The agricultural sector contributes about 5.1% to national GDP directly,³ up to more than 17% when agro-food value chains are included.⁴ Agriculture also remains the mainstay for around a quarter of Jordan's rural poor, tying it closely to food security, employment, and poverty mitigation strategies.
3. **A series of challenges shape the current economic outlook, posing a challenge to the country's sustainable social and economic development.** Chronic water scarcity, limited arable land, a substantial trade deficit due to dependence on energy and food imports, and persistent unemployment—averaging 21.3% in Q1 2025, with even higher rates among youth and university graduates, and scored the highest in AlMafraq and Ma'an governorates at 23.2%.⁵ These structural weaknesses are compounded by inflationary pressures, reduced foreign direct investment, and rising living costs, especially since the COVID-19 pandemic and ongoing regional conflicts have disrupted supply chains and dampened investor confidence.
4. **Jordan's Human Development Index value for 2025 is 0.754** — which puts the country in the High human development category — positioning it at **100 out of 193** countries and territories.^{6 7} The Jordanian population was estimated to be 11.7 million (52.9% males, 47.1% females) in 2024⁸. Rural people represent 9% of the total population. On average, households have 4.8 members, and 15% of households are female-headed.
5. **Rural Jordanians** represent 9% of the total population. On average, households have 4.8 members, and 15% of households are female-headed.⁹ Dars, which are homes built with an enclosed central courtyard, account for 72% of housing in rural areas.¹⁰ 12% of de facto household members age 5 and older have some level of difficulty/ disability in at least one domain, 3% have a lot of difficulty, and 1% cannot function at all in at least one domain.¹¹
6. **Poverty rate hover around 16%¹² and tends to be higher in rural areas, while in absolute terms, most poor Jordanians live in the densely populated governorates.** The Department of Statistics reported that 24.1% of Jordanians were living in poverty (DOS 2022). The World Bank further estimated that 35% of the population falls below the poverty line.¹³ The rise in poverty has

¹ Jordan. Biennial update report (BUR). BUR 2, 2021.

² Central Bank of Jordan.

³ Country official statistics, National Statistical Organizations and/or Central Banks; National Accounts data files, Organisation for Economic Co-operation and Development (OECD); Staff estimates, World Bank (WB)

⁴ Department of Statistics/ Internal Trade Survey 2023.

⁵ Department of Statistics.

⁶ Jordan | Data Futures Exchange

⁷ Human Development Index (HDI) by Country 2025

⁸ [Jordan | Data Futures Exchange](#)

⁹ Jordan Population and Family Health Survey 2023, UNFPA, available at UNFPA Jordan |

¹⁰ UNFPDA, Jordan Population and Family Health Survey 2023 available at Jordan DHS 2023 - Report_English.pdf

¹¹ Jordan Population and Family Health Survey 2023

¹² World Bank, Poverty and Inequality Platform. Data are compiled from official government sources or are computed by World Bank staff using national (i.e. country-specific) poverty lines. World Bank (WB)

¹³ Using the \$7.9 daily poverty threshold

been linked to low employment levels, stagnant income growth, and increasing living and production costs. A recent poverty analysis (2025) based on MPI data, shows that the districts with the high incidence of MPI poverty are concentrated in the Southern governorate of which will be REWARD targeted areas namely Tafilah, Karak, Maan in addition to Mafraq. More than 20% of the population in Zarqa (24%), Mafraq (58%), Jarash (27%), Karak (23%), Ma'an (25%), and Aqaba (26%) falls in the lowest wealth quintile. Rural communities—where agriculture, pastoralism, and small-scale commerce dominate—continue to experience higher rates of poverty, unemployment, and underdevelopment. The high incidence of MPI poverty (MPI above 0.2) includes: Ma'an, (Al-ruwaished, Ma'an and Al Jafer districts); Karak (Ail and al Qatraneh) Aqaba (Al Qwara District) and Tafila (Al Hasa district).

7. **In southern Jordan**, recent DOS¹⁴ statistics show a combined population of just under one million people, with balanced gender ratios at governorate level and a predominantly young demographic structure consistent with the national trends.
 - a. Ma'an Governorate is more rural and dispersed across districts with livelihoods split between tourism, public sector, small trade, agriculture, livestock herding, and mining-related activities; The employment landscape for women varies significantly across sectors and concentrated in education, health, handicrafts, food processing, and tourism services with an average of only 9.1% of the workforce being women. ¹⁵Youth face high unemployment and rely heavily on seasonal tourism, informal work, agriculture, or migration.
 - b. Karak Governorate (include extensive rural areas) is strongly agriculture-oriented (olive cultivation, rain-fed crops, livestock), complemented by public employment and emerging agri-processing initiatives; women's roles are prominent in on-farm labor, household-based food production, cooperatives, and small enterprises, while youth commonly engage in seasonal farm work, agri-value chains, and public or private service jobs, often constrained by underemployment.
 - c. Tafileh Governorate, the smallest by population, is largely rural, with livelihoods dominated by agriculture, rangeland-based pastoralism, and local services, and high exposure to climate and drought risks; women participate mainly through agriculture, livestock care, home-based enterprises, and community cooperatives, while youth employment is limited and frequently informal, pushing many toward seasonal work or out-migration.
8. **Mafraq Governorate has experienced significant population growth over the last decade**, driven in large part by the Syrian refugee influx. Mafraq's livelihoods are mixed: agriculture, pastoralism, small business and trade across the rural districts and badia, while the city of Mafraq serves as a service and administrative hub. However, Mafraq is among the highest poverty levels in Jordan with the highest in unemployment (23.4%) in 2024. ¹⁶Female economic participation in is consistently lower than male participation¹⁷, reflecting patterns of lower women's participation but with local socio-cultural norms and sectoral opportunities (e.g., limited formal employment for women compared to men). Youth unemployment remains a challenge, with many young people seeking seasonal or informal work in agriculture, trade, construction, transport, or cross-border commerce, and some urban migration. Women and youth also engage in informal enterprise, home-based production, and community/NGO-supported livelihood activities.
9. **Across all southern governorates, women's low labor-force participation is prevalent** despite their strong engagement in informal and household economies, and youth unemployment is becoming a structural challenge, with livelihoods highly sensitive to seasonality, climate variability, and limited private-sector diversification outside tourism and agriculture.
10. **Unemployment rate reached 21.4% in 2024** (18.2% males vs 32.9% females), indicating a decrease of 0.6 percentage points from 22.0% in 2023. At the governorate level, the highest unemployment rate was recorded in AlMafraq and Ma'an governorates at 23.2%. Women's labor-force participation remains among the lowest globally, at approximately 15%, reflecting socio-cultural norms, limited access to capital and land, informality, and inadequate policy support for work-life balance and childcare. Women are, however, heavily involved in home-based or subsistence agriculture, livestock rearing, and informal wage labor in rural communities.

¹⁴ Department of Statistics

¹⁵ Maan_labour_market_assessment_report_-en.pdf

¹⁶ DOS, https://dosweb.dos.gov.jo/databank/news/unemployment/2024/unemp_Q1_2024_en.pdf

¹⁷ Jordan Ministry of Labor-supported labour market assessment

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11. **The small ruminant sector is crucial for rural livelihoods**, especially among the poorest smallholder farmers, however, smallholders face major constraints in feed, water, animal health, and market access. Their challenges include severe impacts of climate change on their livelihoods, fodder and water shortages, rising feed costs, weak access to markets, and limited public or private extension services.
12. **The increased impacts of climate change on health are becoming tangible**, associated with the increased frequency and intensity of extreme weather events such as heat waves, and diminishing water availability and deteriorating water quality exacerbating livelihoods and health issues:
 - a. Increase in health problems due to heat wave, waterborne diseases, food insecurity, air pollution.
 - b. Non-Communicable Diseases (NDCs) such as respiratory illnesses and cardiovascular conditions¹⁸
 - c. These impacts are significantly affecting grazing, water resources, and human health.
 - d. Incidents of water borne diseases and respiratory illnesses are increasing with changing temperatures, water quality decline, increased pollution and drought.
 - e. Reduced water availability and access (for households, agriculture, and industrial use) and reduced water quality.
 - f. Agriculture: the reduced rainfall and water availability threatens food production, disrupts seasonal crops because of changing weather patterns and rainfall seasons, increased arable land and soil degradation.
 - g. Scarcity of natural resources, land degradation, aridity and ecosystem changes, extinction of indigenous plants, animals, animal diseases, and reduced access to pasturelands for grazing livestock which severely affect the main sources of nutrition and households' income.
 - h. Biodiversity and change in ecosystems affect the population and in particular farmers due to the increased prices for water and energy which affects affordability. Coping mechanisms to such severe challenges may include negative social actions such as child labour, children drop out of education, and child marriage

13. Initial Gender Assessment:

Gender Equality: Jordan ranked 122 out of 148 countries in the Global Gender Gap Report for 2025.¹⁹ Education attainment and political empowerment show better ranks compared to Economic Participation and Opportunity, Health and Survival domains. Despite the country's significant progress in closing the gender gap in education, gender disparities persist in political participation and Economic Participation and Opportunity.

Gender, Employment, and Economic Activities: The World Bank indicates that Jordan's women labor-force participation is one of the lowest in the world.²⁰ Women carry the burden of unpaid farm and/or care work and are accordingly having to address the multiple challenges emerging from scarce and relatively expensive resources. Rural women heads of household are also overwhelmingly involved in agricultural production. The incidence of women's headships in the country is higher than 20%, up to 25 in certain areas. They are more vulnerable to poverty as the loss of the male breadwinner can cause profound socio-economic distress.

Home-based food processing plays a women dominated role in the value chain and the most common type of agricultural activity undertaken by women in rural areas. Women and girls play a vital role in the dairy sub-sector. It is considered an important livelihood source for poor women specially women heads of households. Women and girls commonly turn sheep/goat milk into jameed, labneh, white cheeses, and clarified butter (samneh) for home use and sale. Traditionally, they share the responsibility for animal care and milking tasks, home-based dairy processing. In modern factories, women play an important role in the manual packaging of products like labneh and cheese and are dominant in laboratory and quality control work. ^[18] Most of their work in the sector remains informal. This explains the extremely low official statistics on women economic participation in the sector (0.9%). Women as labourer are either unpaid in family business, informal business, or underreported where they often face unsafe working conditions and lower pay.

¹⁸ International Bank for Reconstruction and Development, International Finance Corporation, Multilateral Investment Guarantee Agency Country Partnership Framework

¹⁹ Global Gender Gap Report 2025, World Economic Forum

²⁰ Jordan | World Bank Gender Data Portal

Women small-scale producers face major challenges that hinder their business growth such as: limited financial resources for purchasing dairy processing machinery and renting labs, access to markets for trading with a fair market price and diversifying their markets, which limits their end market to family and friends, and causes them to operate informally and remain in the same income bracket. Legal and licensing constraints limit formalization and scaling for many women-run dairy businesses due to relatively high cost of registration and annual fee, limited business capacity and skills, in addition to the challenge in obtaining food safety certificate which is a condition for selling their products in permanent bazars. Access to credit is also a major challenge due to limited collateral to receive loans. Some women also are hesitant to take loans either for religious reasons or fear of financial risks and inability to repay.

Gender and cultural norms: According to UN-Women (2018) women's involvement in small or medium scale agricultural production initiatives, such as through local community associations and cooperatives is low, which could be related to their low public representation and participation in associations and the prevailing social norms. Violence against women and girls is a significant issue in Jordan and affects all segments of society regardless of their social or economic status. The most common forms of GBV in Jordan include physical violence, sexual violence, emotional abuse, and sexual harassment. The Jordan Population and Family Health Survey (DHS) 2017-2018 reveals that 29.5% of ever-married women aged 15-49 reported experiencing physical, sexual, or emotional violence by their husband or partner at some point in their lives. Women in the lowest wealth quintile (21%) are three times as likely to have experienced spousal violence as those in the highest wealth quintile (7%).^[15]

Gender legislative framework: Jordan recognizes the importance and the value of integrating a gender perspective in climate change action. It is the first country in the region to integrate a gender equality perspective in its National Climate Change Policy. The Jordan National Climate Change Policy (2013-2030)¹ (JNCCP), the National Adaptation Plan (NAP) and the Third National Communication report (TNC) all pledged to address gender inequalities through mainstreaming a gender perspective in relevant climate change adaptation and mitigation policies, strategies and action.

Since 1992, Jordan has advanced women's empowerment through national strategies and institutions such as the Jordanian National Committee for Women's Affairs serving as the national machineries concerned with the empowerment and advancement of women and the National Strategy for Women (2020–2025) which promotes women's rights and empowerment. The strategic priorities are aligned with constitutional principles, national plans, and global commitments such as the Convention on the Elimination of All Forms of Discrimination Against Women (CEDAW), the Beijing Platform for Action (BPfA), the Sustainable Development Goals (SDGs) Agenda 2030.

Recent frameworks, such as the Economic Modernization Vision (2023–2040) and the Youth and Women Empowerment Strategy in the Water Sector (2025–2028), integrate gender priorities, focusing on women's employment, care economy support, skills development, and leadership in sustainable resource management.

The government has also introduced policy and legislative measures against gender-based violence, including a national plan on child marriage and the 2021–2023 Executive Plan on National Priorities for strengthening the response to Gender-Based Violence, Domestic Violence, and Child Protection.

Jordan strengthened protections for agricultural workers through the 2021 Agricultural Workers Bylaw, which ensures regulated working conditions and introduces specific provisions for women, such as maternity leave and overtime rights.

The Jordan's Economic Modernization Vision (2023–2040) include important gender provisions and emphasizes job creation for women and support to the care economy as critical pillars. Moreover, the recently approved Youth and Women empowerment strategy in the water sector (2025-2028) aims to build leadership through education, innovation, and active participation in sustainable water management. It emphasizes skill development, involvement in community and policy-making processes, and integration with national strategies.

Gender and women vulnerability to climate change: Women experience stresses from the impacts of climate change on their health, economic activities, livelihoods, and household members wellbeing. They are pressured to adapt quickly to the shortages of resources. Their knowledge, experience, capacities, and interaction with the surrounding environment largely affect their coping mechanism and resilience. It was observed that women can recognize more wild herbs than men and are more sensitive

to the environment around them.²¹ Desk review and consultations with different stakeholders including rural women summarize the key women vulnerabilities to climate change as:

- Reduced agricultural productivity and increased women's unpaid labor burden for water collection and household management.
- Rural women, who are heavily involved in agriculture, face heightened risks of income loss and food insecurity
- Water: Women's health would be at risk with increased workload (at both farm and household levels) responsibilities will increase especially with water and energy scarcity.
- Unbalanced workload and increased time spent by women on managing the scarce water resources and improving the quality of water (through boiling, etc.) increases with the climate shocks.
- Increased stress from identifying food sources to provide nourishing diets and avoid malnutrition.
- Multiplied labour effort, to provide and generate income and or reduce spending through home gardening, livestock rearing and food processing.
- Girls are more vulnerable to the risks of school dropout, child labour, extra care responsibilities and early marriage as some families tend to these practices as coping mechanisms with deteriorated livelihoods conditions.
- Female headed household food security are further threatened as their poverty levels increase.

14. Youth:

Jordan has one of the youngest populations globally, with half aged 15–39. Despite being educated and globally connected, youth—especially women and those in rural areas—face high unemployment (36.6% overall, with 44% of young women being NEETs in 2019). The private sector has struggled to create enough jobs, and structural barriers like limited access to land, finance, and markets hinder youth entrepreneurship. Many young people work in the informal sector, often in jobs that don't match their qualifications and offer no security. In rural areas, youth involvement in livestock and small ruminant farming is mostly part-time or seasonal, constrained by climate change, high input costs, and limited access to veterinary and financial services.

Structural barriers to youth entrepreneurship such as limited access to land, markets, and finance limit youth from fulfilling their future potentials. Few rural youths have chosen to create new enterprises as a means of employment. This is mostly due to the economic challenges they face, in addition to the global phenomena of out-migration either to urban areas or abroad. The economic situation, challenges that hinder youth start-ups, and the gap between the supply and demand in the job markets, and the influence of the informal economy, have a critical impact on the youth. In the absence of decent jobs, a significant share of youth is employed in the informal sector. Young jobseekers often accept informal jobs that do not match their qualification, provide low income and no job security or benefits, which delays their path to achieve their personal and economic growth (OECD 2021).

Majority of youth involved in the livestock and small ruminant value chain are either temporary, seasonal, and/or as a part time aside from another full-time job. They work in family-owned farm, support with daily flock or daily processing related tasks. Unless they have this business for generations, youth are hesitant to fully work in small ruminant farming/ breeding due to the climate change impacts and challenges reflected in the high cost of feed, water, limited accessibility of veterinary, vaccination, and laboratory services. These challenges are compounded with limited access to finance due to insufficient collaterals, high interest rates, and repayment conditions where are risky due to the climate change impacts which affect the anticipated production.

A.2. Development context

15. **Jordan stands at a critical juncture in its development journey, grappling with economic challenges while striving to build resilience and sustainability.** The "Jordan 2025: A National Vision and Strategy" serves as the country's flagship development roadmap, focusing on three main pillars: economic development, social development, and environmental sustainability. The strategy was launched to address various challenges and to capitalize on opportunities for growth and improvement across different sectors. The Economic Modernization Vision (2022–2033) and its subsequent action plans (such as the Government Executive Program 2023–2025) prioritize digital

²¹ Gender Equality and Climate Change in Jordan, Explanatory Gender Analysis, October 2021, Ministry of Environment and the United Nations Development Programme

transformation, private-sector development, green growth, and job creation, especially for youth and women. These frameworks emphasize among other the need for investments in key sectors including smart agriculture and the adoption of integrated approaches to enhance food, water, and energy security for Jordan.

16. **As Jordan seeks to advance its development goals, integrating climate resilience into its strategic planning has become an urgent priority.** The 2020-2025 National Agricultural Development Strategy set priorities to (i) preserve environment and agricultural resources, (ii) enhance self-reliance in food production, (iii) effectively contribute to economic development, and (iv) meet the requirements of internal and external markets. The Strategy gave special consideration to expanding women's and youth participation, supporting rural livelihoods for refugees and host communities, and mainstreaming climate resilience in all agricultural interventions. The Green Growth National Action Plan (2021–2025) further embeds sustainable agriculture as a pillar of Jordan's green economy transition—promoting resource efficiency, reduced emissions, biodiversity protection, and social inclusion.
17. Despite strong frameworks for agricultural development, coordination between ministries and agencies has been inconsistent, leading to delays in rolling out of activities, technologies, as well as limited climate mainstreaming into agricultural planning.

A.3. Small-ruminants, rangelands, and herders

18. **Jordan's agriculture and small ruminant sectors are operating at the intersection of acute environmental stress, rapid social change, and the imperative for economic modernization.** Chronic water scarcity, land degradation, and intensifying climate change impacts threaten traditional livelihoods and food security—particularly in the country's marginalized, arid regions as reduction in carrying capacity and rangelands yield have been documented. Vegetation changes are more likely to be linked to changes in soil resources than to immediate physiological responses of plants to CO₂ concentration or temperature. The increase in evapotranspiration rate and decrease in precipitation reduce productivity in drier systems such as the arid and semiarid rangelands of Jordan.
19. **While challenged by productivity and profitability constraints, small ruminant production is a cornerstone of the agricultural sector and remains central to rural welfare and communities' adaptive capacity.**²² Despite their importance, knowledge regarding specific small ruminant production systems in Jordan remains limited, even more so as variability in practices and socio-economic conditions affecting small ruminant farmers is characteristic: the examination of these production systems in the Northern Jordan for example did not reveal uniformity in terms of structural, cultural, technical and economic aspects through the use of descriptive statistics. The typological analysis identified five distinct groups with unique management strategies ranging from labor management-oriented to market-driven and extensive sheep farming-focused, highlighting the importance of tailoring interventions and support mechanisms to enhance the sustainability, profitability and overall efficiency of small ruminant farming.²³
20. **Sheep and goats contribute significantly to meat and dairy production alongside cattle.** They represent 49% of meat and 51% of dairy production.²⁴ This diversity strengthens the sustainability of the country's agriculture. Mafraq leads Jordan in sheep herds (37.4%), followed by Amman, but ranks fourth in goat metrics (Table 1).

22 Jordanian Ministry of Agriculture. (2022). Unpublished Statistic. Jordan.

23 Awad Rula, Jaouad Mohamed, Mohamed-Brahmi Aziza, Titi Hosam, Gasmil-Boubaker Aziza (2025). Patterns and Relations in Small Ruminant Systems in Northern Jordan. *Indian Journal of Animal Research*. 59(1): 149-155. doi: 10.18805/IJAR.BF-1841.

24 Al-Barakeh, Faisal, Ashraf Omar Khashroum, Radi A. Tarawneh, Fatima A. Al-Lataifeh, Azzam N. Al-Yacoub, Moammar Dayoub, and Khaled Al-Najjar. 2024. "Sustainable Sheep and Goat Farming in Arid Regions of Jordan" *Ruminants* 4, no. 2: 241-255. <https://doi.org/10.3390/ruminants4020017>

Table 1. Livestock census and production in the Jordanian governorates.

Animals	Province	Number of Heads	Percentage	Meat Production (Tons)	Dairy Production (Tons)
Sheep	Irbid	265,100	6.30%	16,576.30	825,500
	Jerash	16,800	0.40%	672	84,000
	Ajloun	16,800	0.40%	672	84,000
	Mafraq	1,548,700	37.40%	582,342	7,743,500
	Amman	865,000	20.80%	179,040	4,425,000
	Ma'an	231,000	5.50%	12,655	632,500
	Zarqa	367,200	8.80%	32,505.60	1,625,000
	Balqa	183,600	4.40%	8,154.40	409,000
	Karak	316,800	7.60%	24,028.80	1,204,000
	Ma'an	220,500	5.30%	11,726.50	586,250
	Tafilah	108,000	2.60%	2,808	140,400
	Aqaba	21,000	0.50%	105	5,250
Total	4,200,500	100%	833,796.80	21,134,400	
Goats	Irbid	132,685	11.20%	14,873.50	663,425
	Jerash	32,578	2.80%	917.34	162,890
	Ajloun	26,523	2.30%	611.54	309,360
	Mafraq	22,461	1.90%	424.	112,305
	Amman	21,345	1.80%	384.21	106,725
	Ma'an	19,234	1.60%	307.74	96,170
	Zarqa	16,892	1.40%	239.47	84,460
	Balqa	15,567	1.30%	201.97	77,835
	Karak	15,234	1.30%	197.99	77,055
	Tafilah	14,987	1.30%	194.83	76,415
	Aqaba	14,742	1.30%	191.58	76,030
	Total	1,198,408	100%	125,709.11	6,244,710

Source: Sustainable Sheep and Goat Farming in Arid Regions of Jordan", 2024. ²⁵

21. **Smallholding remains predominant, with family labor critical; hired labor is more common in larger, semi-intensive operations or for commercial herding.** While women constitute a minority of landowners and a small fraction of formal wage earners, their *de facto* contribution to agricultural and livestock production is extensive: in household gardens, small livestock, post-harvest work, and informal wage labor. Women are primarily engaged in home-based agriculture (over two-thirds), with the rest involved in paid labor, often under informal or precarious conditions. Land and asset ownership is low (less than 10% reported), constraining access to finance and limiting decision power. Barriers include limited access to extension and finance, lack of control over land/assets, cultural constraints, informality, and inadequate social protection.
22. **Climate change, reduced rainfall, and population growth have intensified pressures on natural resources.** Expanding desert conditions threaten agriculture and rural livelihoods. Jordan's soils reflect climatic and geomorphological diversity but are beset by degradation and erosion. Overgrazing, unsustainable cropping, removal of vegetative cover, monocropping, and inappropriate water management are key local drivers particularly in the Badia region which constitutes over 80% of the national territory.

A.4. Projections, climate vulnerabilities, and adaptation needs

23. **Climate change poses a great threat to Jordan's long-term stability and prosperity.** The country's arid climate, scarce water resources, and dependence on imports make it particularly vulnerable to rising temperatures, erratic rainfall, and extreme weather events. The country ranked

²⁵ Al-Barakeh, Faisal, Ashraf Omar Khashroum, Radi A. Tarawneh, Fatima A. Al-Lataifeh, Azzam N. Al-Yacoub, Moammar Dayoub, and Khaled Al-Najjar. 2024. "Sustainable Sheep and Goat Farming in Arid Regions of Jordan" *Ruminants* 4, no. 2: 241-255. <https://doi.org/10.3390/ruminants4020017>

74 out of 187 countries in the ND-GAIN index²⁶ for 2023. It is the 138th most vulnerable country, driven by high sub-scores on freshwater withdrawal, urban concentration, and energy import dependency. Since the 1960s, annual maximum temperatures have increased by 0.3–1.8°C, and minimum temperatures have risen by 0.4–2.8°C across climate regions. The annual precipitation has declined by 5–20%, depending on the region.²⁷ As reflected in Table 2, future climate modeling shows (a) further decreases in total precipitation; (b) increasing variability in the location, timing, and quantity of rainfall; (c) warmer average temperatures of up to 2.9 °C by 2050; (d) increased drought occurrence, length, and severity; and (e) more frequent extreme events.²⁸ Figure 1 and Figure 2 reflects the high variability of projected averages of maximum average temperatures and precipitations for Jordan, respectively.

Table 2. Climate change impacts under different scenarios

Parameters	RCP2.6		RCP4.5		RCP8.5	
	2050	2100	2050	2100	2050	2100
Temperature	+1.7°C	+1.7°C	+1.2 to 1.5°C	+1.5 to 2.1°C	+1.7 to 2.9°C	+3.2 to 5.9°C
Precipitation	NA	NA	-4 to -15%	-7 to -25%	-7%--15%	-13%--22%
Drought	+5 days	+5 days	NA	+30 to 40 days	NA	+>40 days
Floods	No significant change	No significant change	No significant change	No significant change	+4 days with precipitation >20mm	+8 days with precipitation >20mm
Heat Waves	45 days per year	45 days per year	NA	NA	75 days per year	200 days per year

Source: *Water in the Balance: The Economic Impacts of Climate Change and Water Scarcity in the Middle East*. WB, 2020

Figure 1. Projected average maximum surface air temperature (°C), Multi-Model Ensemble, Ref. period: 1995-2014

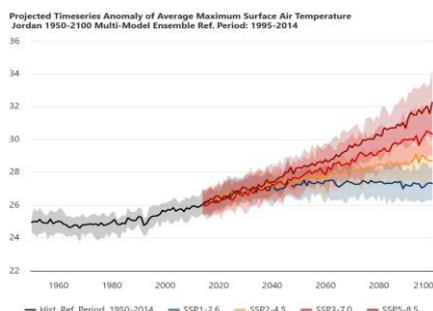
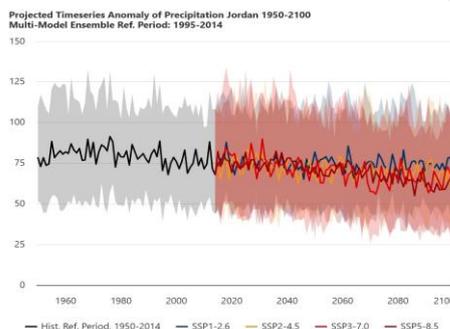


Figure 2. Projected precipitation (mm), Multi-Model Ensemble, Ref. Period: 1995-2014



Source: WB, *Climate Change Knowledge Portal*, 2023, <https://climateknowledgeportal.worldbank.org/>, accessed 21 Oct 2025.

24. **The agriculture sector is considered the most climate-sensitive of all economic sectors.** The main climate related hazards temperature increase, rainfall decrease and the shift in rainy season and seasonal alterations, heatwaves and extreme events especially the heavy rainfall and droughts. Crop models predict a shortening of growing seasons, earlier ripening of cereals, and reduced

26 The ND-GAIN Country Index summarizes a country's vulnerability to climate change and other global challenges in combination with its readiness to improve resilience

27 Harris et al., "Updated High-Resolution Grids of Monthly Climatic Observations – the CRU TS3.10 Dataset," *International Journal of Climatology* 34, no. 3 (2014): 623–42, <https://doi.org/10.1002/joc.3711>

28 United Nations Economic and Social Commission for Western Asia (ESCWA) et al., "Arab Climate Change Assessment Report – Main Report" (Beirut: United Nations Publication E/ESCWA/SDPD/2017/RICCAR/Report, 2017), https://www.unescwa.org/sites/www.unescwa.org/files/publications/files/riccar-main-report-2017-english_0.pdf

yields in key crops and forage, challenging both crop and livestock systems. Heat stress is also expected to impact labour productivity in the sector. In addition, it will lead to a decline in land fertility and surface for agriculture and cattle. Furthermore, the effects of these challenges are often interconnected and cyclical. For instance, drought prompts increased groundwater extraction, accelerating aquifer depletion; degraded land offers less forage, amplifying overgrazing and animal health issues; and each stress undermines the resilience of vulnerable communities. Table 3 presents key climate change impacts on the sector.

25. **Small ruminants retain certain resilience traits in the face of harsh conditions but are increasingly pushed beyond their coping ranges.** Local breeds are heat tolerant, capable of efficient conversion of scarce forage to meat/milk, and able to utilize marginal and browse-based diets. Nevertheless, the sector faces persistent challenges, including limited fodder and water availability, especially in dry seasons; rising feed costs, degraded rangelands due to overgrazing, population pressure, and land conversion, high production costs and low profitability, squeezing margins for smallholders, and more. Market access is also a challenge, including volatility of meat/fiber prices and limited cold chain infrastructure.

Table 3. Key Climate Change Challenges and Effects on Agriculture and Small Ruminants

Climate Challenge	Agriculture	Small Ruminants	Potential adaptation measures
Water Scarcity	Decreased crop yields; shift to less water-intensive crops; increased irrigation costs	Increased distance/time/cost for water provision; lower productivity, animal stress.	Investing in on- and off-farm water harvesting, improve watering infrastructure (ponds, tanks) and grazing infrastructure, and systematic water quality monitoring.
Land Degradation	Loss of arable and grazing land; declining soil fertility	Loss of rangeland carrying capacity; overgrazing; feed shortages	Restore rangelands through community grazing plans and native shrub replanting; reduce herd/flock sizes to match carrying capacity.
Heatwaves & Temperature Rise	Reduced crop duration; earlier maturation; heat stress on sensitive crops	Heat stress impacts fertility, growth, and mortality; increased disease risk	Select resilient local breeds (Awassi, Baladi) and use crossbreeding for specific production/health traits without sacrificing adaptation; prioritize ram selection using performance and breeding indices.
Drought	Crop failures in rainfed systems; yield instability	Reduced rangelands biomass, supplemental feed needed; increased mortality, especially in young/weak animals	Expand crop-livestock integration, use of crop residues, native shrubs, and fodder reserves; promote supplementary feeding in drought; experiment with drought-tolerant forage.
Extreme Rain/Flash Floods	Destruction of crops, infrastructure; soil erosion	Sudden loss of forage, loss of animals to floods, disease outbreaks	Provide targeted grants for asset restoration post-disaster.
Disease and Pest Outbreaks	New/expanded range of pests and diseases	Higher prevalence of heat, vector-borne, NDCs and waterborne diseases	Strengthen access to affordable animal health services and early warning systems for disease outbreaks; expand extension for preventive care.
Socio-Economic Impacts	Income volatility, loss of farm/agribusiness employment	Livelihood insecurity, particularly for women, youth, and refugees. Increased prices for water and energy which affects affordability. Coping mechanisms to sever impacts may include negative social actions such as child labor, school dropout, and child marriage	Technology, extension, and women/youth empowerment represent cross-cutting enablers. Promote digital apps, participatory breeder selection and rangelands management, gender-responsive training, and rural entrepreneurship platforms.

26. **Resilience of agriculture and small ruminants' sectors is built on targeted policies, investment in climate-smart and water-efficient technologies, institutional reforms, and a growing appreciation of the role of the community, including women and youth.** Rangeland restoration and water harvesting address climate vulnerabilities, targeted financial products and grants empower women and youth as value chain actors and improves livelihoods, and informed planning and policy making builds a long-term foundation to climate resilience and sustainable development and poverty alleviation.
27. **The Resilient Ecosystem, Water and Rangeland Development (REWaRD) project will help identify vulnerabilities and strengthen adaptive strategies of herders.** By doing so, it will support broader national goals of sustainable development and poverty reduction. This effort will require a multi-stakeholder approach, integrating scientific research, policy innovation, and community engagement to ensure that livestock systems can withstand and thrive amid evolving climate realities.

B. Project Objectives

28. The **overall goal** of REWaRD is to contribute to increased climate resilience of rural smallholders engaged in the small-ruminant value chains in Jordan. In line with AF's priorities, the project contributes to climate smart livestock management, water management, rangelands management, ecosystem-based adaptation, and food security.
29. The **Project Development Objective (PDO)** is to support climate resilience of small ruminants' food systems through improved access to rangelands, fodder, feed, and water, and diversification of livelihoods of climate vulnerable households.
30. **Target Group:** The project targets smallholders in all governorates but will prioritize most climate vulnerable districts in the South of Jordan for water access and livelihoods diversification and income generating activities.
31. Achievement of the PDO relies on three interlinked **outcomes**, aligned with the Adaptation Fund outcomes (Table 4) and with the project Theory of Change (Figure 3):
- (i) Increased ecosystem resilience for the small ruminants' sector
 - (ii) Diversified and strengthened livelihoods and sources of income for the most vulnerable groups in the livestock value chain
 - (iii) Strengthened policy and institutional capacity for climate adaptation

Considering the country's high vulnerability to climate change and water scarcity, building a resilient small-ruminant sector will require strengthening both the *infrastructural adaptive capacity* - e.g. sustainable feed and water solutions (Outcome 1), and the *policy and institutional one* – e.g. field-level evidence and inclusive policy dialogues to foster reforms in feed strategies and others (Outcome 3); as well as *diversifying livelihoods* - e.g. supporting vulnerable groups (women, youth and poor producers) in livestock value chains with tailored financial products, business training, and value addition opportunities, enabling them to scale their enterprises, boost income, and create jobs (Outcome 2).

Table 4. Project Proposed Outcomes & the Corresponding Adaptation Fund Outcomes

Proposed Project Outcomes	Corresponding AF Outcomes
<u>Outcome 1:</u> Increased ecosystem resilience for the small ruminants' sector, through rangeland restoration and management, piloting and upscaling of drought and heat-resistant fodder and feed, and rainwater harvesting.	Outcome 5: Increased ecosystem resilience in response to climate change and variability-induced stress
<u>Outcome 2:</u> Diversified and strengthened livelihoods and sources of income for the most vulnerable groups in the livestock value chain, through capacity building and supporting income generating activities to vulnerable groups, as well as establishing a revolving fund providing reimbursable grants to them.	Outcome 6: Diversified and strengthened livelihoods and sources of income for vulnerable people in targeted areas
<u>Outcome 3:</u> Strengthened policy and institutional capacity for climate adaptation, by generating knowledge products for inclusive and evidence-based policy dialogue (in rangeland management, alternative feed, and development of the small ruminants' sector at large).	Outcome 7: Improved policies and regulations that promote and enforce resilience measures

32. The project is structured around three **components**:

C1. Strengthening climate resilience of small ruminants' food systems

C2. Enabling vulnerable groups to income diversification for climate change adaptation

C3. Supporting climate policy and project coordination

33. Theory of Change:

Jordan's small ruminants' sub-sector faces low productivity, weak institutional support and growing vulnerability to climate change, particularly affecting poor rural households, women, and youth. The lack of integrated, climate-resilient systems hampers the sector's contribution to rural livelihoods and national food security. REWaRD aims to contribute to increased climate resilience of rural smallholders engaged in the small-ruminants' value chains by improving access to rangelands, fodder, feed and water, and by diversifying livelihoods of climate vulnerable households.

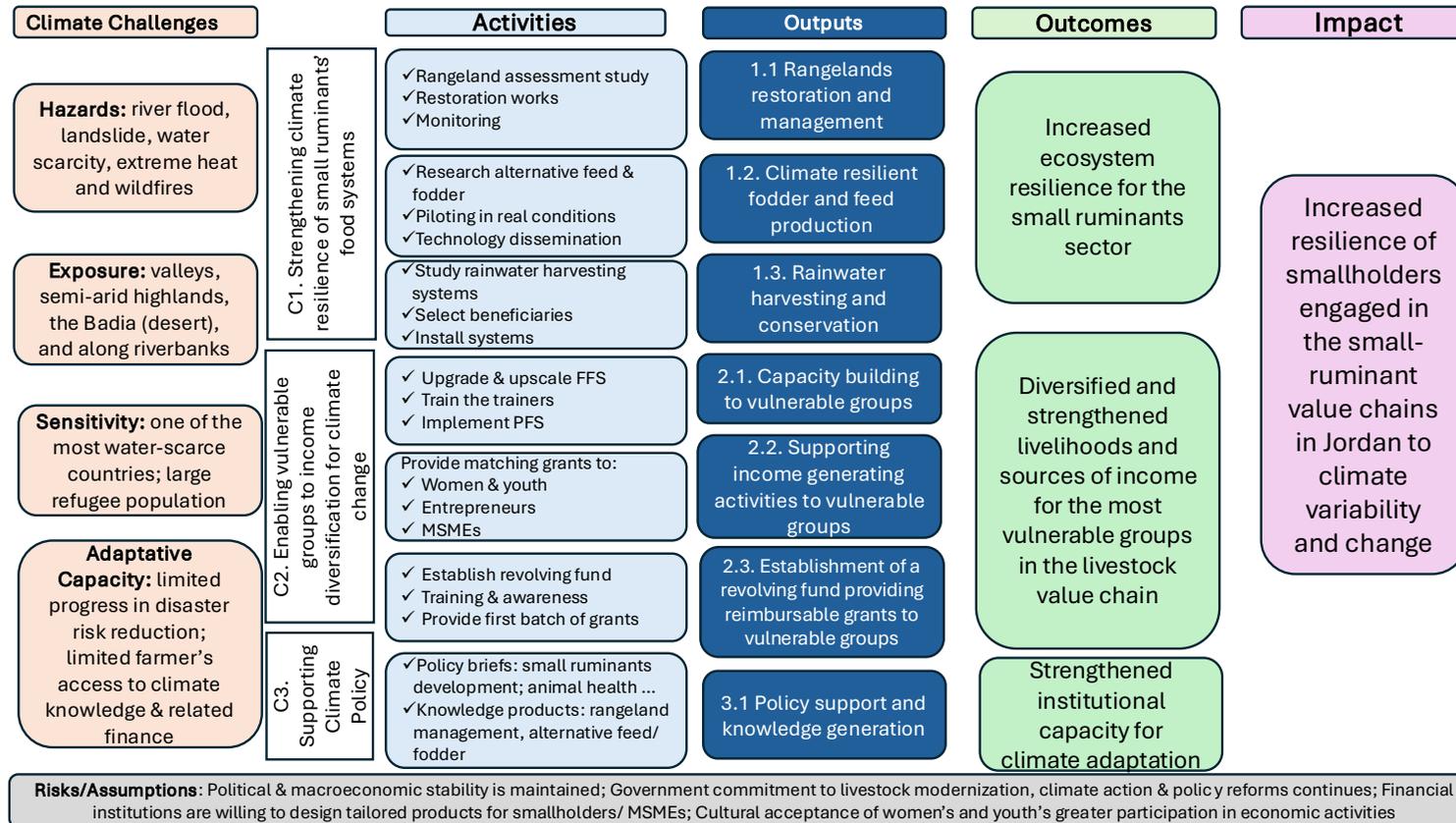
If rural small ruminants' producers gain access to sustainable feed solutions and water supply, **then** they will enhance climate resilience, productivity and profitability, contributing to more sustainable, low-emission livestock value chains.

Furthermore, **if** tailored financial products and services, including matching grants and reimbursable grants, are made accessible to the most vulnerable groups (women, youth, poor producers) in livestock value chains (milk, meat, wool, livestock services), and are accompanied by adapted training, **then** these groups will be better equipped to diversify their livelihoods through launching and growing viable microenterprises, generating income, employment, and broader economic inclusion.

In parallel, **if** inclusive and evidence-based policy support is provided to improve community-based rangelands management, and alternative feed systems, **then** the institutional and regulatory environment will be better equipped to support climate-resilient and inclusive livestock development at scale. Over and above that, **if** national and local governments are supported to strengthen inclusive policy frameworks for the small ruminants' sector, **and if** coordination among public, private, and civil society actors is facilitated, **then** the enabling environment for inclusive, climate-resilient livestock development will improve.

As a result, rural households will strengthen their climate adaptive capacities, increase households' incomes, and improve nutritional outcomes and food security. At the same time, empowered women, youth and institutional actors will help drive the sustainable transformation of small ruminant agri-food systems, contributing to national development goals of poverty reduction, gender equality, food security, and climate resilience.

Figure 3. Preliminary Theory of Change for the Proposed REWaRD Project



C. Project Components and Financing

Project Components	Expected Concrete Outputs	Expected Outcomes	Amount (US\$)
1. Strengthening climate resilience of small ruminants' food systems		Increased ecosystem resilience for the small ruminants' sector	3,443,772
	1.1. Rangelands restoration and management		1,828,219
	1.2. Climate resilient fodder and feed production		655,643
	1.3. Rainwater harvesting and conservation		959,910
2. Enabling vulnerable groups to income diversification for climate change adaptation		Diversified and strengthened livelihoods and sources of income for the most vulnerable groups in the livestock value chain	4,603,729
	2.1. Capacity building to vulnerable groups		305,454
	2.2. Supporting income generating activities to vulnerable groups		3,298,286
	2.3. Establishment of a revolving fund providing reimbursable grants to vulnerable groups		999,989
3. Supporting Climate Policy		Strengthened policy and institutional capacity for climate adaptation	316,713
	3.1 Policy support and knowledge generation		316,713
4. Project Execution Cost			850,862
5. Total Project/Programme Cost			9,215,076
6. Project/Programme Cycle Management Fee charged by the Implementing Entity (if applicable)			783,280
Amount of Financing Requested			9,998,356

D. Projected Calendar

Milestones	Expected Dates
Start of Project Implementation	01 September 2027
Mid-term Review (if planned)	September 2029
Project Closing	31 August 2031
Terminal Evaluation	May 2032

PART II: PROJECT JUSTIFICATION

A. Project components

34. **Component 1: Strengthening climate resilience of small ruminants' food systems** aims at reducing vulnerability to climate change of most vulnerable small ruminants' smallholder producers, and in particular the recurrent water and feed deficit exacerbated by climate change. REWARD will support more durable and climate resilient access to feed and water resources, by supporting rangeland restoration and management, climate resilient fodder and feed production, and rainwater harvesting and conservation. **The expected outcome (Outcome 1) is Increased ecosystem resilience for the small ruminants' sector.**
35. **Output 1.1. Rangeland restoration and management:** REWARD will support restoration of degraded rangelands and support community-based rangeland management, including monitoring and learning, following both a scientific and inclusive approach.

Background. The Rangeland Strategy for Jordan 2023-2030 refers to the degradation of rangelands of Jordan for the last two decades due to multiple anthropogenic and natural factors, highlighting the need for sustainable solutions, particularly that at present Jordan cannot provide animal feed for more than 3 months during the good rainy seasons and less than one month or none during the drought years – which, according to climate projection scenarios, are expected every 5 years.

Description of Activities. An assessment study will be undertaken to identify and select, using a participatory approach, ten priority degraded rangeland sites (of about 150 ha each) in the targeted four governorates (Mafraq, Tafilah, Ma'an and Karak), and develop the most suitable restoration and management plan for each. These four Governorates are prioritized because of the importance of their small ruminant population, and vulnerability to drought and climate change. The assessment study and related plan will address both technical aspects (water conservation techniques, seed types, fencing and other infrastructural works, grazing schedule, etc.) and governance aspects (land tenure and access, especially by vulnerable groups, management modalities, roles and responsibilities, enforcement mechanisms and conflict resolution procedures, etc.). Restoration works will follow on each of the 10 selected sites, coupled with monitoring and learning involving the local community, and using a phased approach (starting with 4 sites in year 2 (i.e. right after completing the study), then 4 sites in year 3 and finally 2 sites in year 4, which would allow on the ground learning, assessment and improvement. This activity can draw on experience from a pilot initiative by IUCN and the MoA for rangeland restoration through the Hima system within the Zarqa River Basin in Jordan, which led to a 5 to 6-fold increase in the rangeland productivity (as per the below table).

Table 5. Rangeland productivity across different land management scenarios

Rangeland productivity and barley equivalent value per ha from open-access/baseline regime and through Hima restoration (r = 5%)

System	1. Total predicted Barley Equivalent biomass grazed over 25 years	2. Total predicted barley equivalent biomass grazed per year in steady state	3. Total barley equivalent present value of grazing over 25 years	4. Present economic value of forage from HIMA restoration	5. Present value of forage from HIMA restoration over 25 years	6. Total animal welfare economic value of natural forage from Hima restoration*	7. Present welfare economic value of natural forage from Hima restoration*	8. Present welfare economic value of natural forage from Hima restoration* over 25 years
a. In an open access regime	0.3 ton/ha		55.1 JOD/ha					
b. In a Hima system with 25% open access	1.4 ton/ha	67 kg/ha	209.5 JOD/ha	155.5 JOD/ha	16.8 million JOD	193.2 JOD/ha	21.1 million JOD	
c. In a strict Hima system	1.9 ton/ha	89 kg/ha	274.1 JOD/ha	219.1 JOD/ha	23.9 million JOD	18 023 ha	274.3 JOD/ha	29.9 million JOD

*Including a price of 61.8 JOD/ton forage price premium on natural forage derived from the choice experiment outlined in this chapter.

Source: ELD (The Economics of Land Degradation). 2015. *An Economic Valuation of Large-Scale Rangeland Restoration Project Through the Hima System in Jordan*

Climate Benefits. By restoring degraded rangelands and enhancing their management, small herders will have access to more sustainable feed solutions, thus increasing their resilience to climate change. Moreover, the proposed intervention will enhance groundwater recharge, which is particularly important for water scarce countries like Jordan. It will also contribute to increased sequestration of soil organic carbon, given the important role rangelands play in global carbon cycles.

36. **Output 1.2. Climate resilient fodder and feed production:** To reduce feed and fodder deficit, exacerbated by climate change, and improve feed quality, novel feed and fodder technologies (household level hydroponic fodder production units, small-scale silage making systems, and recycling of crops and agro-industrial residues...) will be researched, piloted and disseminated.

Background. The structural feed and fodder deficit, exacerbated by climate change, calls for innovations and alternative solutions. Hydroponic has been successfully piloted by IFAD in similar environment at household level, with simple and basic equipment.

Description of Activities. The project will support a phased approach including: (i) applied research to develop/introduce and test alternative feed and fodder solutions; (ii) piloting in real conditions of the solutions successfully tested; and (iii) dissemination of technologies and fodder species, through FFS for the technologies, and direct distribution to farmers for seeds of drought resistant fodder varieties. Piloting of alternative feed technologies will include inter alia, household level hydroponic fodder production units, small-scale silage making systems, and recycling of crops and agro-industrial residues. As a result, 200 households will be equipped with pilot hydroponic fodder units; 12 service providers equipped with pilot fodder conservation or processing equipment; and 2,000 households receiving seeds (or seedlings) of drought and heat-resistant fodder.

Climate Benefits. Main climate benefits will include higher resilience to drought due to better availability of alternative feed, and reduced emission intensities due to higher digestibility of feed and higher productivity.

37. **Output 1.3. Rainwater harvesting and conservation:** To address water scarcity, rainwater harvesting will be promoted in drought prone areas, especially in Southern Governorates.

Background. Water scarcity is a pressing concern in Jordan, stemming from minimal annual rainfall ranging between 50-200mm, coupled with widespread overexploitation of groundwater reservoirs and inefficient water usage practices. This poses significant risks to agricultural productivity, with a substantial 60% of water supply directed towards agricultural needs. Extreme heat and drought are expected every five years. Hence the need for alternative solutions, particularly rainwater harvesting, which the Government of Jordan allocates great importance for, with a dedicated department for rainwater harvesting at the MoA

Description of Activities. REWaRD will install rainwater harvesting systems (with a capacity of 30m³ to 100m³ each) at the household level for no less than 180 beneficiaries (in the same governorates - Mafraq, Tafilah, Ma'an and Karak). Beneficiaries will be selected following a clear methodology that favors under-served areas (in terms of rainwater harvesting) while promoting synergy and cumulative impacts (such as privileging households around the rangelands restored by the project). The most suitable rainwater harvesting systems will be identified based on lessons learned from other similar projects (including low maintenance cost considerations), and the units installed accordingly with relevant maintenance training provided.

Climate Benefits. Better access to water will strengthen climate resilience of flocks.

38. **Component 2: Enabling vulnerable groups to income diversification for climate change adaptation** aims at reducing dependency of poor households on primary production and strengthening their resilience to climatic and economic shocks. REWaRD will support women, youth, and microentrepreneurs for implementing Income Generating Activities in the domains of small ruminant produce processing and retailing. The focus will be on small scale dairy processing and retailing, as well as wool processing. Support provided by the project will also involve technical and business management capacity building, and facilitation of access to finance for working or investment capital, through a revolving fund providing reimbursable grants to smallholders. **The expected outcome (Outcome 2) is Diversified and strengthened livelihoods and sources of income for the most vulnerable groups in the livestock value chain.**

39. Output 2.1. Capacity building to vulnerable groups:

Background. Supporting income generating activities for vulnerable groups requires prior capacity building for proper understanding of the issues at hand, particularly climate considerations, and accordingly better management of the grants to be provided.

Description of Activities. The livestock and food processing Farmer Field Schools successfully piloted under the IFAD Ruminants Investment and Graduating Households in Transition (SIGHT) project will be upscaled to new Governorates. The number of sessions per year will be increased to incorporate additional topics in the curriculum, on top of animal husbandry technical aspects. These will include environment & climate change, gender, nutrition, business management (Farmer Business School methodology) and financial literacy. A total of 1,200 people are expected to be trained. Technical assistance will be provided to MoA extension department, in charge of this activity, for the development of curriculum modules on additional topics, and for the training of Trainers (ToT) on these topics. Pastoral Field Schools (PFS) will also be implemented in sites selected for rangelands management under Output 1.1.

Climate Benefits. This intervention is expected to enhance climate change awareness and knowledge, thus increasing climate resilience in the sector.

40. Output 2.2. Supporting income-generating activities for vulnerable groups.

Background. Women, youth and poor producers in livestock value chains (milk, meat, wool, livestock services) are very vulnerable to climate change and accordingly need support to diversify their livelihoods through launching and growing viable microenterprises, generating income, employment, and broader economic inclusion.

Description of Activities. The most vulnerable groups (women, youth, poor producers) in livestock value chains (dairy, meat, wool, livestock services) will be supported to increase their value addition through either product upgrading (by improving the quality, safety, and packaging of the products as well as environmental standards), or functional upgrading (by allowing smallholder producers and the other operators introducing processing, grading and marketing activities). Matching grants will be provided to the following beneficiaries (total of 2,470), who will receive the technical and managerial support required through output 2.1:

- Women and youth involved in livestock production and dairy/meat processing: to purchase small-scale equipment to process milk into local dairy products, for traditional meat drying and processing, and household artisanal production of other animal source products such as wool.
- Entrepreneurs involved in providing services to the small ruminant value chain (milk/meat collection, transport and marketing): to purchase adequate equipment for milk collection and or equip their milk/meat transport vehicles with the required refrigeration equipment.
- MSMEs involved in dairy and meat processing and marketing (cooperatives, and mainly cooperatives of women and youth already in business, and private companies): to upscale their processing and marketing capacities.

Climate Benefits. Providing grants to the most vulnerable groups in the livestock value chain will help them increase their value addition and diversify their livelihood.

41. Output 2.3 Establishing a revolving fund providing reimbursable grants to vulnerable groups.

Background. Microenterprises in dairy, meat processing, and livestock marketing play a vital role in the economy, particularly in rural communities; yet they are characterized by a significant number of small-scale, often informal, businesses. To facilitate financial inclusion for these value chain actors, and diversify their livelihoods where needed, REWARD will upscale business models that are sustainable and with potential deepening of access to market and institutional finance, thus improving smallholders' income, increasing productivity, and promoting food safety and value chain efficiency.

Description of Activities. REWARD will work with the Agricultural Credit Corporation (ACC) which is a government institution; to establish a revolving fund for smallholders and vulnerable groups (women, youth, poor producers, etc.) providing reimbursable grants to increase the resilience of small-sale and home-based producers of dairy and meat projects:

- Small-scale and home-based production of traditional dairy products like cheese, labneh, and jameed;
- Small scale meat processing such as custom cuts, meat products (kebabs, kofta, sausages and cured meats); and
- Small-scale production of simple feeds using local material and technology to implement modern feed production techniques like silage making or creating a balanced total mixed ration.

REWARD will provide the full grant amount, consistent with the AF's full cost of adaptation criterion. The project will support in the development of the legal and institutional setup of the fund fully adapted to Jordan, namely with regards to the fund's financial structure (size, instrument mix, pricing), and water-smart conditionality of the funding. This also includes legal instruments, hosting structure, alignment with financial compliance rules and regulations.... The project will also lobby for initial capitalization and develop mechanisms for reflows from reimbursable grants and financial management, including repayment incentives. Standard Operations Manual will be developed detailing eligibility criteria, modalities for application and approval of requests, templates of grant agreements, Monitoring and Evaluation (M&E) modalities, and sanctions and incentives for compliance or default.

Governance and oversight structures will be identified, organized and trained for effective supervision and *sine qua none* conditions to the fund's sustainability. Additional parameters necessary for the sustainability of the fund after the project ends will be addressed during project design, including potential partnerships with private sector, cooperatives and other private sector groups, M&E and learning requirements and risk management framework. Additional mandatory technical assistance and learning will be identified to increase repayment of financing (e.g. financial literacy and cash flow planning), compliance with Jordan's regulatory requirements (QA/QC, health, etc.), water and energy efficiency, as relevant.

Climate Benefits. The seed funds will be provided fully by REWARD for this revolving Fund which will be used to set up the Fund, raise awareness about it and provide the first batch of grants to beneficiaries. To encourage financing that effectively supports investments aimed at strengthening climate resilience, the batch of grants provided by REWARD will be for initiatives that directly contribute to climate adaptation, without any co-financing, and with the option of no reimbursement to be further assessed during the project design phase.

42. **Component 3: Supporting climate policy** aims at generating knowledge products for inclusive and evidence-based policy dialogue and providing technical expertise for policy and institutional development. REWARD will focus on policy domains that contribute to climate adaptation. **The expected outcome (Outcome 3) is Strengthened policy and institutional capacity for climate adaptation.**

43. **Output 3.1. Policy support and knowledge generation.**

Background. To secure the sustainability of REWARD interventions under components 1 and 2, support to policy and knowledge generation is essential. Based on lessons from SIGHT and other projects in Jordan and the region, support to policy formulation can focus on one of these two priority topics for climate adaptation with high potential for sectoral change, and for which there is an existing demand and policy momentum: (i) a small ruminants sector development strategy, to be developed under the umbrella of the overall Agriculture Strategy currently under formulation, and (ii) a national Animal Health strategy, which could rationalize and improve planning of disease control. Knowledge generation can focus on the following two priority topics with learning and upscaling potential: (i) rangeland management; and (ii) alternative feeds and fodder.

Description of Activities. For each of the topics mentioned above, the project will work on the following:

- (i) documentation of pilots and lessons and development of knowledge products,
- (ii) analysis of the effectiveness of adaptation products as rangeland management and alternative animal feed and related improvements,
- (iii) editing and publication of tailored knowledge products, and
- (iv) awareness raising on knowledge products.

Climate Benefits. With the support to policy and knowledge generation in the topics above, the institutional and regulatory environment will be better equipped to support climate-resilient and inclusive livestock development.

B. Project benefits

44. The **overall benefit** of the project is an improved climate adaptive capacity, through the following inter-connected determinants: *infrastructure and technology* (restored rangelands, drought and heat-resistant fodder, harvested rainwater), *skills and equity* (providing vulnerable groups with capacity building, income generating activities and reimbursable grants through revolving fund) and *policy and institutions* capacity (e.g.: small ruminants strategy, ...). This will allow rural communities, including vulnerable groups, to better respond to a warmer, hotter and more variable climate. This has multiple benefits for economy, society and the environment, as described in the following paragraphs.
45. The preparation of this concept note was informed by lessons learned from IFAD's portfolio in Jordan, insight from consultations with officials and non-official entities and community members including women, youth, and vulnerable smallholder farmers. During full proposal formulation, a detailed gender assessment and action plan will be prepared, including indicators for gender disaggregated data. IFAD will also define a robust M&E and Grievance Redress Mechanism that will be systematically applied throughout REWaRD interventions to monitor progress and collect feedback. The project M&E and reporting mechanism will: a) track project progress and results on gender and social inclusion responsive indicators; and b) assess impact and compliance with ESP Principles. All stakeholders and direct beneficiaries will be informed on the grievance mechanism, the handling of complaints and the resolution processes.
46. The project's targeting strategy integrates equitable access to the project interventions and community benefits through direct targeting approaches such as quotas for women, youth, PwDs, and vulnerable groups. 40% of all project beneficiaries will be reached and supported which mainly consist of poor rural women and 15% youth. The weighted criteria for selecting target groups will include a wide range of vulnerability criteria such as income, unemployment, dependence ratio, disability of one or more family members, nutrition and dietary diversity of the family, age, gender, women headed households, vulnerability to climate change shocks, etc.. All community consultations will ensure appropriate inclusion and representation of voices from all target groups; women will be encouraged to participate in traditionally male dominated activities through facilitating a community dialogue on acceptable gender norms and accommodating women needs in attending activities that require commitment such as Farmer Field Schools. Furthermore, rangeland restoration and rainwater harvesting and alternative feed interventions will ensure women representation, participation in decision making and priorities in receiving the planned pilot services. Finally, all planned studies integrate gender considerations and are expected to include findings that consider equitable distribution of the project benefits among the target groups.
47. **Economic benefits** will mostly be generated by diversifying and strengthening livelihoods and sources of income for the most vulnerable groups (women, youth and poor producers) in the small ruminants' value chain:
 - a. **Healthier and more productive animals.** Access to training through climate-smart Farmer Filed Schools, restored and community-managed rangeland, drought and heat-resistant fodder, and improved water access across the grazing landscape are expected to result in greater weight gains and increased milk production (specifically, milk output is projected to rise from 0.4 liters per day over 105 days to 1 liter per day over 120 days), generating higher income for the households (with gross margins increasing from \$ 2,505 in the scenario without the project to \$3,662 in the scenario with the project for the category of breeders with less than 20 heads).
 - b. **Reduced cost of feed and water.** Restored and community-managed rangeland, drought and heat-resistant fodder, and improved water access should reduce the need for small holders to buy feed and water – even in times of drought. Reduced costs of buying feed and water increase the profit margin that benefits small ruminants' households and businesses. Improved water availability will help to respond to hotter and drier summers.

The installation of a rainwater harvesting system with capacities ranging from 30 m³ (30,000 liters) to 100 m³ (100,000 liters) can significantly reduce water costs for sheep breeders. For breeders with 20 heads, requiring 36,500 liters annually, a 30 m³ system can save approximately \$70.64 annually, covering about 82% of their water needs while minimizing purchasing costs. Breeders with 50 heads, requiring 91,250 liters, could realize substantial savings of around \$213.51 with a 100 m³ system, which would fully meet their water demand, covering 100% of their needs. For those with 150 heads, requiring 273,750 liters annually, the 100 m³ system becomes essential, addressing their vast water needs and achieving savings of approximately \$640.35 per year, covering about 36.5% of their total requirement.

For sheep breeders with varying herd sizes, the annual cost of imported mixed feed is approximately \$1,743 for those with 20 heads. Shifting to green forage would cost approximately \$514, and silage would cost approximately \$926, resulting in savings of approximately \$1,225 with green forage and \$817 with silage. For breeders with 50 heads, the annual cost of imported mixed feed is approximately \$4,493. Shifting to green forage costs approximately \$1,284 and silage costs approximately \$2,314 leading to savings of approximately \$3,209 with green forage and \$2,177 with silage. Lastly, for those with 150 heads, the annual cost of imported mixed feed is approximately \$13,655. Shifting to green forage would cost approximately \$3,864 and silage would cost approximately \$6,934, resulting in savings of approximately \$9,774 with green forage and \$6,703.52 with silage.

- c. **Increased rural households' income and improved livelihoods.** The improved technical and financial capacities will increase accessibility to restored rangelands, climate resilient feed and fodder, water saving technologies, productive resources and markets. A total of 2,470 smallholder producers, including 990 women and 370 youth, will receive grants, enabling them to invest in modern agricultural practices and diversify their income sources through small businesses and vocational training. Additionally, access to financial services provided through REWaRD will enhance household financial resilience and facilitate investments in sustainable practices. These combined efforts will lead to improved diversified income and households' livelihoods..
 - d. **Increased jobs and entrepreneurship opportunities.** Capacity building to 1,200 vulnerable groups of small ruminant producers (480 females and 180 youth) in the small ruminants' value chain, and access to grants will allow them to improve their business model, diversify their sources of income and accordingly create more jobs.
48. **Social benefits.** The project will benefit 3,780 smallholder producers (1,510 women, and 570 youth), with a dedicated targeting approach for vulnerable groups (women, youth and poor producers) in the livestock value chain (dairy, meat, wool, livestock services), totaling to more than 28,000 target groups (including indirect beneficiaries). More specifically, social benefits will include the following:
- a. **Increased equitable access to natural resources.** Through the restoration of rangelands (1,500 Ha) and production of climate resilient fodder and feed and rainwater harvesting, small holders will have better and more sustainable access to food systems.
 - b. **Increased equitable access to finance and market.** Benefit to households from formal market access will help smallholders access higher-value markets.
 - c. **On Gender:** REWaRD will support achieving a) reduced vulnerability to climate change impacts b) addressed negative gender norms, gender inequalities, c) improved household and community awareness on balanced household dynamics, shared responsibilities and decision making and gender equality, d) integrated women role in climate action and improved women adaptation and resilience to climate change impacts, e) improved women awareness and knowledge on food safety and households healthy diets. The project adopting gender transformative approaches will contribute to achieving GEWE objectives: economic empowerment, equal voice between men and women, and balanced workload and women wellbeing. The gender mainstreaming and tailoring interventions to meet women needs²⁹ across all components, support to women equity in accessing inputs, gender differences in adaptation needs and capacities will be better addressed.

²⁹ As identified during women interviews and Focus Group Discussions during the concept note mission in September 2025

- d. On Youth: REWARD will support youth social and economic empowerment pathways through** Supporting youth access to technical and financial skills (technical and financial, providing youth friendly financial services (matching grants, and loans), enhance youth access to services (rainwater harvesting, alternative feed,...), strengthen youth leadership and participation in producers' communities for economic empowerment and voice, support youth integration into the small ruminant VC through MSMEs engagement and support young entrepreneurs, and enhancing youth access to markets and market organizations.
 - e. Reduced vulnerability of livelihoods** and ecosystems to the negative impacts of climate change in the small ruminant value chain.
 - f. An enabling environment for smallholders' livelihood diversification and climate adaptation is supported.** Training will strengthen local capacity for sustainable natural and human resource management, social inclusion, and equitable community access to improved services.
49. **Environmental benefits.** The project will have a direct focus on three natural resources (ecosystems, land and water) and accordingly will have several environmental benefits, including the following:
- a. **Improved soil productivity.** Rangeland restoration, reseeding, control of invasive species and other rangelands improvement measures will lead to healthier and more productive soils.
 - b. **Reduced soil erosion.** In addition to improved grazing management, soil conservation measures such as gully rehabilitation, as well as planting of shrubs will reduce soil loss on sites that are prone to soil erosion.
 - c. **Enhanced ecosystem services.** Roaming livestock distribute nutrients contained in dung and urine across landscapes. By carrying seeds in their guts and coats, livestock distribute seeds and support habitat connectivity.
 - d. **Increased groundwater recharge.** Restoring degraded rangelands and improving rangeland management will increase groundwater recharge.
 - e. **Reduced demand for scarce surface and groundwater.** Rainwater harvesting and other water conservation schemes in rangeland restoration as well as testing, piloting and disseminating alternative feed and fodder solutions, which are more drought resistant and less water demanding, will secure more water for small holders, thus reducing demand for surface or groundwater which is very scarce.
 - f. **Enhanced environmental awareness.** FFS will increase farmers' awareness of environmental and climate issues. So will the activity related to knowledge production and policy support, which will also promote environmental and climate policy dialogue.
50. Environmental and social impacts are minor to moderate as shown in section K. Means to avoid or minimize these impacts are also listed in the same section.

C. Cost effectiveness

51. The proposed actions aim to support the resilience of the small ruminants' food systems in the context of climate change, through improved access to rangelands, fodder, feed, and water, and diversification of livelihoods of climate vulnerable households. The project will build on a cost-effective approach to implement sustainable low-cost no-regret measures to manage natural resources and diversify livelihoods. Detailed costs per action and project activity will be provided in the full proposal. Table 6 provides a preliminary comparison of averted losses and alternatives to the project.

Table 6. Preliminary comparison of averted losses and alternatives to the project

Benefits Generated – Losses Averted	Alternative to the Project
Component 1. Strengthening Climate Resilience of Small Ruminants' Food Systems	
1,500 Ha of rangelands are restored following a participatory approach, which is expected to lead to a 5 to 6-fold increase in the rangeland productivity. The community-based management modality will secure sustainability. Gross margins are expected to increase from \$ 2,505 in the scenario without the project to \$3,662 in the scenario with the project for the category of breeders with less than 20 heads.	Implement landscape restoration without relying on participatory processes that engage local communities in the works, which will result in limited ownership and incapacity for proper operation and maintenance, and accordingly deterioration of the investment over time.
200 households are equipped with pilot hydroponic fodder units; 12 service providers equipped with pilot fodder conservation or processing equipment; and 2,000 households receiving seeds (or seedlings) of drought and heat-resistant fodder, based on adequate research. Annual savings can reach up to approximately \$9,774 with green forage and \$6,703.52 with silage.	Invest in alternative feed and fodder without prior research, which could lead to investing in species that would not succeed in the Jordanian environment or in technologies that are expensive to maintain.
180 households are equipped with rainwater harvesting systems designed based on lessons learned from other projects; and achieving savings of up to approximately \$640.35 per year. Low maintenance considerations are key in selecting the systems, thus facilitating sustainability.	Select rainwater harvesting systems based on capital cost considerations without looking at past experience in the country, which could lead to investments which are difficult to maintain.
Component 2. Enabling Vulnerable Groups to Income Diversification for Climate Change Adaptation	
1,200 vulnerable small ruminant producers (480 females and 180 youth) receive training on climate resilient practices.	Provide grants to vulnerable groups without prior training, which could jeopardize these grants.
2,470 smallholder producers receive grants (990 women and 370 youth) to diversify their income and households' livelihoods. The training provided will enable these producers to properly manage their new businesses.	Focus on highly commercial value chains to better support the economy, leaving most vulnerable households on the side, which would threaten social development.
Component 3. Supporting Climate Policy	
Knowledge products for rangeland restoration and management, and alternative feed are provided. Dissemination of these products during the lifetime of the project will ensure long-term benefits beyond the project.	Exclude the policy component of the project in order to have more funds for the 2 other components, which would put project sustainability at risk.

52. The overall number of direct target groups exceeds 6,000. This includes: target groups from a) rangeland restoration and management (38 households), b) climate resilient fodder and feed production (2,000 households and 12 MSMEs), c) rainwater harvesting and conservation (180 households), d) capacity building (1,200 people), and e) supporting income generating activities to vulnerable groups and the revolving fund providing reimbursable grants to vulnerable groups (2,470 people). Women will constitute 40% of the beneficiaries for each activity and youth will constitute 15%.
53. Indirect target groups exceed 28,000, including beneficiaries from: a) the positive environmental impacts that will be generated by the project, particularly from rangeland restoration and management (1,500 Ha), in terms of soil productivity, groundwater recharge, etc. (component 1) ; b) income generation activities and access to finance (component 2); and c) policy support component (component 3) which will benefit the entire small ruminants' community through new strategies and knowledge products in the sector, .

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

54. Jordan has made progress in defining inclusive rural development policies. Key strategies include the National Strategy for Agricultural Development (2020–2025), National Food Security Strategy (2021–2030), National Financial Inclusion Strategy (2023–2028), National Water Strategy (2023–2040), National Climate Change Policy (2022–2050) and the updated Nationally Determined Contributions (NDCs).
55. Table 7 shows how REWARD is a reinforcement mechanism for Jordan's broader development, climate, and gender strategies. It demonstrates strong complementarity with national visions, sectoral strategies, and social inclusion frameworks, including Jordan's commitment to increasing the resilience of its development, which encompasses adaptation capacities through climate-resilient, market-oriented agriculture, stronger rural institutions, and more inclusive access to finance. However, persistent gaps remain in the implementation of integrated livestock systems, farmer advisory services, value chain infrastructure, and financial products tailored to poor rural producers, which will be supported through the REWARD project and similar initiatives on which it builds. Furthermore, REWARD directly responds to national development priorities mentioned below. In doing so, it contributes to SDGs 1, 2, 5, 10, and 13

Table 7. Relevant national and subnational strategies policies, and plans

Strategy / Framework	Objective	Alignment with REWARD Components & Outcomes
Jordan 2025: A National Vision and Strategy	Promote economic development, social development, and environmental sustainability through integrated reforms.	The proposed framework supports REWARD's focus on ecosystem-based adaptation and sustainable rangeland management as reflected in component 1/ outcome 1. It also aligns with food security and rural poverty reduction outcome 2. The plan also aligns with REWARD's component 3 strengthening policy and institutional capacity for climate adaptation.
Economic Modernization Vision (2023–2040) and its Government Executive Program (2023–2025)	Drive digital transformation, private-sector development, green growth, and job creation, especially for youth and women. Through the 2-year executive program it aims to operationalize the modernization through short-term action plans in agriculture, water, and employment.	This national vision aligns with REWARD's component/outcome 2 on supporting MSME and women-led dairy value chain. It also highlights climate smart solutions contributing to green growth pillars. The REWARD's pilot interventions in rangeland restoration and water efficiency directly contribute to the executive program's targets. It also enhances coordination between ministries (MoA, MoE) for climate resilience.
National Agricultural Development Strategy (2020–2025)	Preserve environment and agricultural resources, enhance food self-reliance, and expand women/youth participation.	REWARD's objective, to support climate resilience of small ruminants' food systems through improved access to rangelands, fodder, feed, and water, and diversification of livelihoods of climate vulnerable households, is aligned with this strategy. It strengthens food security and rural livelihoods. Climate-smart livestock and rangeland management focus directly support environmental preservation under component 1/output 1. Farmer Field Schools (FFS) and Pastoral Field Schools (PFS) planned under that same component expand women/youth participation.
Rangeland Strategy for Jordan (2023-2030)	Provides a vision, mission and executive procedures for rangeland management in Jordan	REWARD's component 1 (particularly output 1.1) on rangeland restoration and management directly responds to this strategy.
Green Growth National Action Plan (2021–2025)	Promote sustainable agriculture, resource efficiency, reduced emissions, biodiversity protection, and social inclusion.	Component/output 1 on increasing ecosystem ecosystem-based adaptation, biodiversity protection/rehabilitation, water resources management measures aligns with green growth priorities.

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Strategy / Framework	Objective	Alignment with REWARD Components & Outcomes
		Water management and soil conservation contribute to resource efficiency. Gender-sensitive approaches promoted through REWARD will also contribute to the social inclusion of the Green Growth Action Plan.
National Food Security Strategy (2021–2030)	Ensure sustainable food systems, reduce import dependency, and strengthen resilience of agriculture and livestock sectors.	REWARD is aligned with the National Food Security Strategy and namely under its component 1/output 1, namely its livestock and dairy value chain interventions directly contributing to food security. Water and rangeland management enhance domestic production capacity and increase resilience to climate-induced shocks to food systems.
National Nutrition and Food Security Strategy (2020–2025):	Provides a national framework for addressing all forms of malnutrition through a multisectoral approach. It promotes nutrition-sensitive agriculture, food safety, and access to diverse and nutritious diets. The strategy also emphasizes the importance of integrating nutrition objectives across sectors, including agriculture, education, and health.	REWARD, under component 3, is aligned with the national nutrition and food security strategy as it will support policy formulation and will focus on priority topics for climate adaptation with high potential for sectoral change, and for which there is an existing demand and policy momentum: (i) a small ruminants sector development strategy, to be developed under the umbrella of the overall Agriculture Strategy currently under formulation, and (ii) a national Animal Health strategy, which could rationalize and improve planning of disease control.
The Jordan's National Nutrition Strategy (2020–2030)	Seeks to address the multiple forms of malnutrition and to build on the progress achieved through the implementation of previous action plans for nutrition, driving progress towards globally agreed goals on nutrition and the Sustainable Development Goals by 2030 the national response to non-communicable diseases (NCDs), and the country's Food Systems Transformation Pathway, which promote sustainable food production, improved access to nutritious foods, and climate-resilient value chains that contribute to healthier diets and rural livelihoods.	REWARD is aligned with the objectives of the strategy. It includes under component/output 2 the livestock and food processing Farmer Field Schools, which will include nutrition and food safety capacity building to increase nutritional outcomes, contribute to behavioral changes at the household levels, and support micro-enterprises in achieving food safety standards and obtain necessary food license required for formalizing their business.
National Financial Inclusion Strategy (2023–2028)	Expand access to finance for MSMEs, women, and youth; promote inclusive financial services.	REWARD is aligned with the National Financial Inclusion Strategy. Component/ 2output 2 of the project supports women-led dairy MSMEs and rural entrepreneurs, thus aligning with financial inclusion goals of the strategy. The project also facilitates access to credit and market linkages for small ruminant farmers.
National Water Strategy (2023–2040)	Provide a comprehensive framework for managing Jordan's water resources, with a focus on enhancing water use efficiency in agriculture, improving wastewater treatment, and ensuring sustainable water supply for agricultural production.	REWARD's activities are fully aligned with this strategy, particularly output 1.3 on rainwater harvesting
National Climate Change Policy (2013–2030)	Mainstream climate resilience and gender equality into adaptation and mitigation policies.	REWARD's climate vulnerability assessments and adaptation measures align with national climate priorities. Gender mainstreaming in livestock and dairy value chains also support the policy's commitments. Knowledge management also contributes to climate policy implementation.
Updated Nationally	Commit to reducing GHG emissions and	REWARD contributes to NDC adaptation targets

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Strategy / Framework	Objective	Alignment with REWARD Components & Outcomes
Determined Contributions (NDCs)	enhancing adaptation in agriculture, water, and ecosystems.	through its component 1/output 1, by improving rangeland productivity, water efficiency, and livestock resilience.
National Adaptation Plan (NAP)	Strengthen resilience of vulnerable sectors (water, agriculture, health) to climate change impacts.	REWARD's water management, rangeland restoration, and livestock adaptation under component 1/output 1 directly address NAP priorities. It contributes to reducing vulnerability of rural communities and ecosystems.
National Agricultural Workers Bylaw (2021)	Ensure regulated working conditions, maternity leave, and overtime rights for agricultural workers, including women.	REWARD's gender-sensitive interventions in dairy and livestock sectors under component 2/output 2 align with improved labor conditions stated under the bylaws. It supports safe and equitable participation of women in agriculture.
National Strategy for Women (2020–2025)	Promote women's rights, empowerment, and economic participation in line with SDGs and Committee on the Elimination of Discrimination against Women (CEDAW).	<p>REWARD's women-focused dairy value chain interventions and MSME support under component 2/outputs 2 and 3 directly contribute to empowerment as laid out in the National Strategy for Women. This enhances women's leadership in climate-smart agriculture and water management.</p> <p>REWARD is aligned with the strategy as it aims at promoting Gender Equality and Women Empowerment (GEWE) through the project interventions. GEWE Strategic objectives: 1) Women's economic empowerment (access to productive and financial resources such as fodder, water saving, technologies, financial services, and skills), 2) Women voice (leadership and participation in decision making including rangeland restoration community plans, and 3) women's well-being and balanced workload through access to financial services and time saving technologies.</p> <p>REWARD will support women micro-business development through building their technical and financial capacity, strengthening women leadership and peer learning structures, financially support women led groups, cooperatives, and micro-businesses, and facilitating community dialogue on positive gender norms. This will support women inclusion build their resilience and diversified income, strengthen their economic role, and foster their economic empowerment, leadership and collective action.</p>
The National Youth Strategy (2019-2025)	The strategy recognizes the vital role that the youth play in building a prosperous country and address the multiple cultural, social, political and economic obstacles faced by the youth in the country, with a special focus on the high rates of unemployment and underemployment. Close attention is paid to human rights and the civil and political rights of young people, women, persons with disabilities and of all social strata.	REWARD, under component 2/output 2 is building the youth technical and financial capacity and supporting their positive participation in community decision making as key pillars for generating new employment opportunities for youth, diversifying youth income, and raising their level of resilience and adaptation to economic and climate change shocks
Youth and Women Empowerment Strategy in the Water Sector (2025–2028)	Build leadership through education, innovation, and participation in sustainable water management.	REWARD under components/outputs 1 and 2 is aligned with the youth and women empowerment strategy in the water sector as they promote active participation of women and youth in climate-resilient resource management.

56. Above and beyond, REWARD creates operational synergies with other IFAD-financed interventions in Jordan, notably SIGHT1 supporting smallholders, REGEP and REGEP-UP, which support horticulture value chains in different target areas and other national programs supported by FAO, WFP, GIZ, and the EU, particularly those targeting water use efficiency, rural livelihoods, and sustainable natural resource management. These programs directly support increasing the resilience of the vulnerable populations based on Jordan's needs and priorities as reflected in these strategies.

E. Alignment with technical standards

57. The project is in full alignment with existing legislation and technical standards. Table 8 provides a list and description of applicable legislation. Table 9 includes technical standards and an appraisal of each standard indicating operationalization status where assessments were conducted (or partially conducted). Overall, these standards and guidelines address critical aspects of Jordan's small ruminant and broader agricultural sectors. However, their operationalization has been uneven, often excluding smallholders and informal actors requiring technical support, upfront capital investments and more consistent monitoring and follow up. That said, the project will build on existing standards where available. Implementing these measures will strengthen uptake, ensure functionality in diverse production systems, and close the gap between policy intent and on-the-ground impact. Furthermore, and on a more practical level, the project will work towards simplifying technical documents into tiered formats, digital tools, or guides tailored to smallholders to improve uptake. Bundling financial incentives (such as micro-grants) with training and follow-up support would also help compliance with existing regulations and standards.

Table 8. Relevant Legislation

Environmental, Water and Climate Legislation	
The law on Environmental Protection No. 6 of 2017	<p>Governs environmental management and establishes the framework for Environmental Impact Assessments (EIAs) in Jordan. Articles 10–14 require that all programmes with potential environmental impacts undergo screening by the Ministry of Environment (MoEnv). The procedures are further detailed in Bylaw No. 69 of 2020 on Environmental Classification and Licensing, which classifies programmes into risk categories and defines whether a full EIA, initial assessment, or simple license is required. Environmental approval must be obtained before permits for construction or operation can be issued.</p> <p>Under this project, most activities directly financed through the grant facility —such as small-scale agricultural or processing infrastructure—are expected to fall under low or moderate risk (Class B or C), requiring only limited assessments. The project will ensure compliance with national procedures and submit necessary environmental documentation as part of the licensing process if needed. Where infrastructure is involved, relevant municipal or local authorities will issue permits in coordination with MoEnv. As for the credit line the responsibility will rely on the borrowers to ensure compliance with national procedures.</p>
Bylaw No. 69 of 2020 on Environmental Classification and Licensing.	<p>Establishes a four-tier classification system for programmes based on environmental risk, determining the level of assessment required—ranging from full Environmental Impact Assessments (EIAs) to simplified procedures. This bylaw is crucial for agricultural and agro-processing programmes to ensure compliance with environmental standards.</p>
Bylaw No. 79 of 2019 on Climate Change.	<p>Outlines the institutional framework for climate change mitigation and adaptation in Jordan, assigning responsibilities to various governmental bodies. It mandates the integration of climate considerations into national planning, which is pertinent for agricultural programmes aiming for sustainability.</p>
The Water Authority Law No. 18 of 1988	<p>Establishes the Water Authority of Jordan (WAJ) as the national body responsible for managing water resources and infrastructure. This law was amended by Law No. 22 of 2014. According to Article 25 of the law, all water resources, including surface and groundwater, regional waters, rivers, and internal seas, are considered state-owned property and cannot be used or transferred except in compliance with this law. Nevertheless, the law also facilitates the issuance of licenses to water users and the formation of water user associations. The licensing of water users is provided by the Ministry of Water and Irrigation, which is responsible for overall water resource management in Jordan.</p> <p>The licensing process involves the issuance of permits to water users, which specify the amount of water that can be used and the conditions under which it can be used. The permits are issued for a specific period, and the water users are required to renew them periodically. The permits also specify</p>

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	the fees that the water users are required to pay for the water they use
Jordan Valley Authority Law No. 30 of 2001	Facilitates agricultural development by regulating land use, irrigation systems, and promoting private sector participation in agricultural programmes.
Groundwater By-Law No. 85 of 2002	Regulates the extraction and use of groundwater resources, requiring permits for drilling and setting usage fees. It aims to prevent over-extraction and ensure sustainable use of groundwater, which is vital for agricultural activities, especially in water-scarce areas.
Waste and Hazardous Materials Management	
Waste Management Framework Law No. 16 of 2020	Provides a comprehensive framework for waste management, including the categorization, collection, treatment, and disposal of various waste types. It emphasizes the roles of different stakeholders and encourages private sector involvement in waste management solutions.
Hazardous Materials and Waste Management Regulation No. 68 of 2020	Specifies the procedures for handling hazardous materials and waste, including storage, transportation, and disposal. It is particularly relevant for agricultural operations that involve the use of chemicals and pesticides, ensuring environmental and public health safety.
Energy Laws	
Renewable Energy and Energy Efficiency Law No. 13 of 2012	Promotes the adoption of renewable energy sources and the implementation of energy efficiency measures. It provides incentives for renewable energy programmes, which can be leveraged in agricultural operations to reduce energy costs and environmental impact.
Agriculture Laws	
Agriculture Law No. 13 of 2015	Jordan's core legal framework for managing agricultural activities. It regulates land use, crop and livestock production, and agricultural inputs such as seeds, pesticides, and fertilizers. The law requires licenses for all agricultural operations, including farms, nurseries, olive presses, and slaughterhouses, and enforces standards for plant and animal health to ensure food safety. It promotes sustainable resource use, prohibits harmful environmental practices, and restricts the export of genetic resources without approval. The law also supports research and innovation to boost productivity and adapt to climate and resource challenges. It is essential for guiding investment, regulation, and development across the agricultural value chain.
Agricultural Workers Regulation No. 19 of 2021	Defines the rights and obligations of agricultural workers and employers, including working conditions, wages, and occupational safety. It aims to improve labor standards in the agricultural sector, contributing to a more sustainable and equitable value chain.
Law No. 24 of 2000 for the Protection of New Plant Varieties	provides intellectual property protection for breeders of new plant varieties, encouraging innovation and the development of improved crops. This law is essential for advancing agricultural productivity and resilience
Other Development, Zoning and Construction Laws	
Jordan Valley Development Law (as amended by Law No. 30 of 2001)	Focuses on the integrated development of the Jordan Valley, emphasizing agricultural expansion, infrastructure development, and environmental conservation. It provides a strategic framework for programmes aiming to enhance agricultural productivity in the region.
Land Use Regulation Law	Governs land use planning and zoning, aiming to balance development needs with environmental protection and agricultural land preservation. This law is vital for maintaining sustainable land use practices in agricultural areas.
Construction Contractors Law No. 13 of 1987 (amended by Law No. 4 of 2014)	Regulates the licensing and operation of construction contractors, ensuring that construction activities, including those related to agricultural infrastructure, meet established standards and safety requirements.

Table 9. Relevant Standards

Title	Issuing Institution	Date of Issue	Objective	Operationalization Status	Relevance to REWARD Project	Compliance
Water Harvesting Guidelines for Al-Mashare' Region	Ministry of Water and Irrigation (MWI) with FAO support	2021	Outline integrated approaches to capture, store and utilize rainwater to bolster agricultural water supplies.	Pilot-only—no statewide roll-out beyond FAO-supported zones.	Directly relevant to REWARD's rainwater harvesting interventions in Mafraq, Karak, Tafilah, and Ma'an.	REWARD will adopt and scale these guidelines in target areas (Output 1.3).
National Vaccination Schedule for Sheep and Goats	Ministry of Agriculture (MOA)	2018	Control and prevent major infectious diseases in small ruminants through a coordinated vaccination plan.	Good in settled flocks; poor coverage in transhumant communities.	Relevant to REWARD's policy component (component 3) – national animal health strategy.	REWARD will take this standard into account when addressing component 3.
Guidelines for Sheep and Goat Breeding & Genetic Improvement	Ministry of Agriculture (MOA)	2016	Enhance productivity and disease resistance of flocks via selective breeding and genetic-improvement programs.	Implemented in research stations; limited transfer to village flocks.	Relevant to REWARD's policy component (component 3) – small ruminants sector development strategy	REWARD will take this standard into account when addressing component 3.
Guidelines for Good Agricultural Practices in Animal Production	Ministry of Agriculture (MOA)	2015	Standardize on-farm biosecurity, animal welfare and production management across livestock sectors.	Low—biosecurity and welfare measures unevenly applied in small ruminant herds.	Relevant to REWARD's training modules (Output 2.1).	REWARD will integrate GAP principles into training curricula.
Guidelines for Rangeland Management in Jordanian Badia	Hashemite Fund for Development of Jordan Badia (HFJBD)	2013	Promote sustainable grazing practices and protect fragile rangeland ecosystems in the Badia region.		Highly relevant to REWARD's rangeland restoration and community-based grazing management (Output 1.1).	High – REWARD will operationalize these guidelines in 1,500 ha of rangelands.

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Title	Issuing Institution	Date of Issue	Objective	Operationalization Status	Relevance to REWARD Project	Compliance
Manual for On-Farm Water Harvesting Systems	Ministry of Agriculture (MoA)	2012	Provide step-by-step design and construction guidance for small-scale rainwater harvesting structures on farms.	Minimal—few smallholders build recommended structures without external support.	Relevant to REWARD's household-level rainwater harvesting systems (Output 1.3).	REWARD will provide technical and financial support to ensure compliance.
Manual for Calculating Feed Rations for Sheep and Goats	National Agricultural Research Center (NARC)	2011	Standardize nutrient requirement tables and ration-formulation methods for optimal small ruminant growth and health.	Largely theoretical—applied in research on-station, not on private farms.	Relevant to REWARD's alternative feed and fodder interventions (Output 1.2).	REWARD will make use of this manual in working on output 1.2.
Standards for Drinking Water Quality for Livestock	Ministry of Health (MoH)	2010	Ensure safe, clean water sources for livestock to minimize waterborne diseases.		Relevant to REWARD's water harvesting and livestock watering infrastructure (Output 1.3).	REWARD will comply with these standards in working on output 1.3.
JS 910: Specification for Fresh Sheep and Goat Meat	Jordan Standards and Metrology Organization (JSMO)	2008	Ensure quality, hygiene and safety requirements for fresh sheep and goat meat products.	Partial—mostly in larger slaughterhouses; rural facilities under-resourced.	Relevant to REWARD's support for MSMEs in meat processing and marketing (Component 2).	REWARD will abide by this specification in component 2 activities.
JS 984: Compound Feed for Sheep and Goats	Jordan Standards and Metrology Organization (JSMO)	2007	Define nutritional composition, contaminant limits and labeling requirements for small-ruminant feed.	Limited—adherence high in commercial mills; low among backyard producers.	Relevant to REWARD's feed diversification (Output 1.2) and MSME support (Component 2).	REWARD will comply with this standard in the relevant activities.

Title	Issuing Institution	Date of Issue	Objective	Operationalization Status	Relevance to REWARD Project	Compliance
JS 286: Specification for Irrigation Water Quality	Jordan Standards and Metrology Organization (JSMO)	2005	Define physical, chemical and microbiological limits to ensure water is safe and suitable for agricultural irrigation.	Variable—irrigation districts monitor larger supplies; private wells untested.	Relevant to REWARD's alternative feed and fodder activity (1.2)	REWARD will raise awareness about this standard when working on the relevant activity.

F. Duplication

58. An overview of the relevant existing and planned projects in Jordan shows that there is no risk of duplication by the project with other funding sources. In fact, the project builds on the first phase of the successful implementation model of the Small Ruminants Investment and Graduating Households in Transition Project (SIGHT1) closing on 30 December 2025 and creates operational synergies with other IFAD-financed interventions in Jordan, notably REGEP and REGEP-UP, which support horticulture value chains in different target areas. Furthermore, the second phase of the Small Ruminants Investment and Graduating Households in Transition Project (SIGHT2) – expected to start in 2026, will provide critical knowledge supporting the design and implementation of REWARD. REWARD will also coordinate closely with national programmes supported by FAO, WFP, GIZ, and the EU, particularly those targeting water use efficiency, rural livelihoods, and sustainable natural resource management.

Table 10. List of on-going or planned national projects with similar objectives and geographical scope.

Project name	Summary and geographic area	Complementarity potential
IFAD funded Small Ruminants Investment and Graduating Households in Transition Project (SIGHT1) – 2017-2025 – closing in December 2025 Total cost: US\$ 22.7 M Including: IFAD financing: US\$ 8.9M)	Objective: Contribute to reducing rural poverty and enhancing national food security through targeted investments in: <ul style="list-style-type: none"> • Livestock productivity • Sustainable livelihood support • Rural infrastructure Target areas: Mafraq, Jerash, Irbid, Ajloun, Madaba, and Amman outskirts. Fijajj, Wala, and Khanassri breeding stations.	This project builds on the results of SIGHT1 and upscaled efforts while focusing on climate adaptation measures in small ruminants. Risk of duplication: Non-existent (different geographical areas for the activities in common, and different activities). The project is led by IFAD; coordination will ensure that activities are complimentary rather than overlapping or redundant. Lessons learnt: <ul style="list-style-type: none"> • Support MSMEs in dairy/meat processing and marketing alongside production improvements. • Integrate gender and youth empowerment into all components, not as add-ons. • Expand access to credit, cooperatives, and fair markets for smallholders.
IFAD funded Small Ruminants Investment and Graduating Households in Transition Project	Objective: Improve productivity, resilience, profitability, and small-ruminant value chain contribution to	This project's objective is in line with REWARD. The project team will build on SIGHT2 for the identification of

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Project name	Summary and geographic area	Complementarity potential
(SIGHT2) – 2026-2032 – pipeline. Total cost: US\$ 34 M Including \$US 15 M from IFAD.	smallholders' livelihoods. Target areas: Nationwide, with a focus under component two on the southern governorates showing high levels of vulnerability, namely Ma'an, Karak, and Tafilah, in addition to Mafraq in the North.	pilot sites, potential resilience enhancement measures to be implemented in the target areas. Risk of duplication: Non-existent. The project is led by IFAD; coordination will ensure that activities are complimentary rather than overlapping or redundant.
IFAD funded Rural Economic Growth and Employment Project (REGEP), 2014-2025 – Ongoing. Total Cost: US\$ 39.17 M including 24 M from IFAD.	Objective: Reduce poverty and build resilience by enhancing employment opportunities and improving the competitiveness of small-scale farmers and rural enterprises. Also seeks to strengthen value chains for high-value crops that require less water, aligning with Jordan's national priorities for sustainable agricultural development. Target areas: Nationwide with an initial focus on the rural areas of Ajloun, Jerash, Balqa, Madaba and Mafraq,	Potential to upscale rangeland rehab pilots; Build on flocks' aggregation into coops; Share fodder & credit models. Risk of duplication: Non-existent (different geographical areas). The project is led by IFAD; coordination will ensure that activities are complimentary rather than overlapping or redundant.
World Bank's Agriculture Resilience, Value Chain Development & Innovation (ARDI), 2022-2029 – ongoing. Total cost: US\$ 350M	Objective: Strengthen climate resilience and enabling environment for selected agri value chains, including water-use efficiency, veterinary services, traceability, and private sector linkages. Target areas: Nationwide with focus on Badia/rangelands and selected value chains	This project supports the ACC through: (i) financing to farmers for adopting climate-smart and water-efficient agricultural practices, (ii) strengthening Agricultural Value Chains from production and post-harvest handling to processing and marketing, and (iii) promoting innovation and technology by providing financing for farm management. Risk of duplication: Limited. Coordination will ensure that activities are complimentary rather than overlapping or redundant. Coordination will address locations/sites of interventions and selected value chains, technologies adopted, channeling of existing funding through the revolving fund to be set-up by REWARD.
World Bank funded Jordan Growth and Competitiveness Development Policy Financing; signed in April 2025 Total cost: US\$ 400M loan and private sector financing.	Objective: Support reforms initiated under the Government's Economic Modernization Vision (EMV) 2033 through (i) improving the enabling business environment, and (ii) deepening access to finance, (iii) increase private sector job opportunities, particularly for youth and women Target areas: Nationwide	Potential synergies and coordination on financing infrastructure and job creation. Risk of duplication: Limited. REWARD will focus on access to finance in rural areas, including the adoption of the revolving fund for rural populations and smallholders. Coordination will ensure that beneficiaries in REWARD's target areas are screened to avoid duplication.
WFP funded Credit and Loans Initiative for Modern Agricultural Technology Enhancement (CLIMATE), 2025-2027, ongoing.	Objective: Enhance productivity, reduce losses and improve livelihoods of agribusinesses and cooperatives through low-interest loan products.	The program provides different loan ceilings for various climate-resilient agriculture projects. Risk of duplication: Non-existent.

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Project name	Summary and geographic area	Complementarity potential
	Target areas: Jerash, Mafraq, and Balqa.	REWaRD will focus on access to finance in rural areas, including the adoption of the revolving fund for rural populations and smallholders. Coordination will ensure that beneficiaries in REWaRD's target areas are screened to avoid duplication.
WFP implemented Community-Based Natural Resources Management Project, ongoing	Objective: Increase, protect, and maintain the natural ecosystems (farmland, rangeland, forest) in Jordan by deploying community based natural resources management activities and establishing and/or enhancing Community Sustainability Committees (CSC). Target areas: Ajloun, Balqa, Irbid, Jerash, Mafraq.	Potential for upscaling rangelands management initiatives in target areas. Risk of duplication: Limited. Coordination will focus on sustainable farming practices and business management.
FAO Strengthening Jordan's Agriculture Sector Through Enhanced Capacities and Market Access, 2025-XX, Ongoing.	Objective: Improve food security and the livelihoods of rural communities by supporting farmers in adopting sustainable farming practices, increasing productivity, and improving access to markets. Target areas: Madaba, Karak, Tafilah and Ma'an.	Potential to upscale training in climate-resilient agricultural practices through Farmer Field Schools and curricula developed through REWaRD. Risk of duplication: Limited. Coordination will focus on aligning training content and targets/beneficiaries to avoid duplication on specific topics.
FAO Building Resilience to Cope with Climate Change in Jordan through Improving Water Use Efficiency in the Agriculture Sector (BRCCJ), 2021-2029 Total cost: \$US33.3 M from GCF	Objective: Reduce the vulnerability of rural communities to climate change impacts, particularly water scarcity, by improving water use efficiency in agriculture. Target areas: Dead Sea Basin, in areas most vulnerable to climate change: Madaba, Karak, Tafilah and Ma'an.	Potential to upscale training in climate-resilient agricultural practices through Farmer Field Schools and curricula developed through REWaRD. Risk of duplication: Limited. Coordination will focus climate-smart practices, including water efficiency in agriculture and value chains. Lessons learnt: <ul style="list-style-type: none"> • Couple water harvesting infrastructure with training and financial support for households. • Scaling pilots is difficult without institutional anchoring, therefore REWaRD should embed interventions into MoA/MoE strategies to ensure sustainability beyond donor cycles.
FAO Achieving land degradation neutrality targets through restoration and sustainable management of degraded land in Northern Jordan. Signed in January 2025 Total cost: \$US 4M from GEF	Objective: Support national efforts to neutralize degraded lands through forest management and rehabilitation and improving the productivity of pastures and barren lands in the northern governorates as a first stage. Target areas: Nationwide	Potential for upscaling rangelands management initiatives in target areas. Risk of duplication: Limited. Coordination will focus on the identification of rangelands restoration sites, restoration guidelines and techniques adopted, and beneficiaries.

Project name	Summary and geographic area	Complementarity potential
<p>UNEP Jordan Integrated Landscape Management Initiative (JILMI), 2025-2033- ongoing.</p> <p>Total cost: S\$60.5M, including US\$45M from the GCF.</p>	<p>Objective: Reduce the negative impacts of climate change on water resources in Jordan through improved aquifer recharge in a landscape-level approach. The proposed approach includes: i) improved ecosystem management through land restoration, improved agricultural practices and managed aquifer recharge; ii) rainwater harvesting; iii) evaporation reduction from the King Talal Dam; and vi) strengthened governance.</p> <p>Target areas: Yarmouk, Amman Zarqa, and Jordan Rift Valley Basins.</p>	<p>Potential to build on results in REWARD targets areas, including rainwater harvesting efforts and rangelands restoration.</p> <p>Risk of duplication: Limited. Coordination will focus on the identification of rangelands restoration sites, restoration guidelines and techniques adopted, and beneficiaries.</p> <p>Lessons learnt:</p> <ul style="list-style-type: none"> • Ensure cross-sectoral design (livestock, water, rangelands, MSMEs) and avoid fragmented activities. • Strengthen participatory planning and pastoral field schools

59. In addition to the above national projects, Jordan participates in several regional projects across the Middle East and North Africa (MENA) that address animal production, climate resilience, and ecosystem restoration. These initiatives often combine rangeland rehabilitation, livestock productivity, and climate adaptation measures, and are implemented by FAO, ICARDA, UNEP, and other partners. The NENA regional integrated land restoration and investment framework launched in 2025 by the FAO Regional Office for Near East & North Africa provides regional frameworks and funding pathways that REWARD can align with for scaling ecosystem restoration, combating land degradation, water scarcity, and climate resilience. A more accurate account of the various initiatives will be prepared during the design phase part of the project.

Table 11. Selected regional projects with similar objectives

Project name	Summary and geographic area	Complementarity potential
<p>UN-HABITAT, UN ESCWA Increasing the resilience of both displaced persons and host communities to climate change-related water challenges in Jordan and Lebanon, 2021-2026</p> <p>Total cost: \$US14M from the AF</p>	<p>Objective: Better respond to climate change impacts and vulnerabilities in the context of the Syrian crisis in Jordan and Lebanon, through concrete adaptation measures responding to climate change-related water challenges in target areas.</p> <p>Target areas in Jordan: Qasabit Mafrq (Mafrq), Al-Ghadeer Al-Abiad (Mafrq), Qasabit Irbid (Irbid), Bani Obead (Irbid), Ramtha (Irbid), Jerash</p>	<p>Potential relevance of vulnerability maps / profile of target areas, considering specifically drought / water scarcity challenges and floods; urban observatory. Rooftop rainwater harvesting, where relevant.</p>
<p>EBRD Sustainable Energy Financing Facilities Co-financing Programme, 2018-2035</p> <p>Total cost: USD1.4B, of which Total GCF Financing of USD 378M</p>	<p>Deliver via local PFIs more than 20,000 scalable and replicable renewable energy, energy efficiency, and climate resilience projects across the industrial, commercial, residential, transport, and agricultural sectors.</p>	<p>The Programme promotes and finances innovative and/or high performing technologies and solutions that can address specific climate change impacts, namely water efficiency and climate resilience in agricultural sector, including rainwater harvesting and more.</p>

60. REWARD is not duplicating but rather building on these initiatives. While some projects focus narrowly on water-use efficiency, REWARD expands to ecosystem-based adaptation and small-ruminant systems. Furthermore, REWARD can leverage knowledge-sharing platforms and joint monitoring frameworks already established under projects (such as the GCF-funded projects).

G. Learning and knowledge management

61. The proposed project places a strong emphasis on learning and knowledge management as a key approach to achieving behavioral change of rangelands users. The proposed project aims to improve data availability on rangelands, generate new knowledge on the relationship between rangelands and climate change and detail mechanisms to disseminate these data and knowledge after assessing the effectiveness of these knowledge products and improving them as needed.

62. The project focuses on the following two priority topics with learning and upscaling potential: (i) rangeland management; and (ii) alternative feeds and fodder. It will involve, for each topic: (i) documentation of pilots and lessons and development of knowledge products, (ii) assessing of effectiveness and improvement as needed; (iii) editing and publication of knowledge products, and (iv) awareness raising on these knowledge products.

63. A number of project outputs will also contribute towards this:

- a. Data to support evidence-based decision-making. Data is key for management. The rangelands inventory on the full extent, ownership, usage and conditions of rangelands will provide the necessary data to help local government staff and herders understand where vulnerable rangelands are and identify appropriate management and restoration measures.
- b. Participatory rangelands planning and phased approach in implementation. The process of establishing rangelands management plans is also a learning process for rangelands users and local government staff (MoA or other). They assess where vulnerable rangelands are, understand what adaptive approaches towards climate change are possible, and decide on what measures are the most appropriate to improve their conditions. The proposed phased approach for restoring the 10 sites also supports learning and knowledge management.
- c. Training and demonstration sites for rangeland management. The project can establish demonstration plots to display good grazing management and successful rangelands rehabilitation measures. The sites will act as training locations for rangelands users to discuss adaptive grazing management and the most effective measures to manage rangelands sustainably. The project will also refer to previously restored sites showing the results of successful efforts.

64. Knowledge management will be mainstreamed across all project components. Generated knowledge will be embedded in Component 3 – Policy support. This component will lead the design of inclusive livestock policies, enhance institutional systems, and coordinate project-wide knowledge activities. Dissemination will be tailored to targeted audiences, including government, donors, research institutions, and IFAD platforms. Methods include policy roundtables (on Small Ruminants Sector Development Strategy, Animal Health Strategy,...) technical working groups (on rangeland management, alternative feed and fodder...), stakeholder workshops (chaired by MoA, and including other ministries such as MoE, farmers' groups, research institutions and private sector), demonstration sites (rangeland management, alternative feed and fodder), and co-publication with technical partners. This will be further developed during project design.

65. To properly manage the above, the project, in close coordination with the MOA, will prepare and implement a Learning Management Plan (LMP), which will include, in addition to the overall objective, the learning tracking approach (how, when, where...) – including baseline, midterm and endline surveys-, as well as sustainability beyond the project. The project will mainstream the LMP results through the relevant departments of the MOA and other stakeholders. As needed, the project might consider, if needed, teaming up with a technical partner to prepare and follow up on the LMP.

H. Consultation and engagement process

66. **Stakeholder Engagement Planning.** Planning for the stakeholder engagement was initiated ahead of the mission that took place in September 2025 to prepare this concept note, with the objective of ensuring inclusivity, on the ground evidence and geographical representation. A comprehensive list of the stakeholders consulted during the mission is provided in Annex 2 with some photos, as well as a summary of the consultation (Annex 3).
67. **Inclusivity.** Consultation covered government representatives (at the central and local level); local communities and potential beneficiaries (including small herders, women, etc.), NGOs, private sector, international organizations, and others. Focus group meetings were also held with vulnerable groups (such as women).
68. **On the ground evidence,** Meetings were complemented with field visits (to breeding stations, rangelands, dairy facilities...) to better understand concerns and challenges.
69. **Geographical representation:** The consultation and engagement process covered both the national level (Ministry of Agriculture, Ministry of Environment, National Agriculture Research Center, etc) and the regional level – governorates (MoA Directorates; Small Herders; Women; ...)

I. Justification of funding request

70. The proposed project responds to a request of the government. Annex 1 presents the official letter from the Jordanian Ministry of Environment to IFAD endorsing the proposed project.
71. MoA sees the necessity of mobilizing further resources for sustainable rangelands management, in complementarity to other on-going and planned projects in the sector considering the growing needs and vulnerabilities to climate change in Jordan. MoA aims to use this project to further support its reform around rangelands legislation and to upscale promising approaches that are currently being piloted in IFAD's SIGHT (and planned SIGHT2) and other donor funded projects.
72. One of the project's strengths is that it is complementary to SIGHT (and the planned SIGHT2). While the new project will continue and upscale SIGHT's efforts on improving resilience, profitability, and small-ruminant value chain contribution to smallholders' livelihoods, REWARD covers measures increasing the resilience of the small ruminants' food systems, such as improved access to feed and fodder and water resources. While being complementary to SIGHT1 and SIGHT2, the project will not rely on any co-financing or external support to generate adaptation benefits. REWARD will act as a standalone project. It will however build on knowledge generated from these projects to maximize the efficient use of resources and time.
73. The table below outlines the baseline and the alternative adaptation scenarios that the Adaptation Fund will help materialize.

Table 12. Business As Usual Scenario and Adaptation Fund Additionality

Business As Usual Scenario	Adaptation Fund Additionality
Component 1: Strengthening Climate Resilience of Small Ruminants' Food Systems	
<p>Decreased productivity of the small ruminants' sector.</p> <p>Climate models predict higher temperatures in the whole country (and mean maximum temperatures) and less rainfall, with higher probability of drought. Herd watering in hot days is likely to increase with temperature increases.</p> <p>A general decrease in rainfall also affects grasslands and contributes to rangelands degradation.</p>	<p>The project will implement rainwater harvesting systems, thus enhancing access to water.</p> <p>The project will also introduce, pilot and disseminate drought and heat-resistant fodder, thus reducing demand on water and enhancing access to feed.</p> <p>The project will restore selected degraded rangelands and equip rangelands users with the knowledge to sustainably assess, monitor and manage rangelands through the designing and implementation of rangelands management plans. These plans aim to support rangelands users to adapt to the changing</p>

Business As Usual Scenario	Adaptation Fund Additionality
In conditions of water and food scarcity, milking productivity decreases.	climate and mitigate against any adverse impact of reduced precipitation and increased temperatures (further addressed in the second baseline scenario). This includes the reliance on the fore-mentioned climate resistant fodder species as alternative and/or supplementary feeding in drier seasons. The total number of beneficiaries is 2,218 households.
Pressures on rangelands. Rangelands are subject to overgrazing due to the poor current governance system. Tools for sustainable management are not in place. This adds pressure on rangelands and soils causing their degradation - making the entire production system vulnerable to the effects of climate change.	The project will address overgrazing and rangelands degradation by promoting rangeland management plans (progressively leading towards a sustainable rangelands governance system). This includes a detailed inventory of the extent, quality and ownership of rangelands, as well as establishing a monitoring system. Management plans define boundaries of rangelands' providing secured access to a group of users for grazing. This provides an incentive for them to sustainably manage rangelands. Plans also lay out grazing measures, rangelands infrastructure improvement measures and restoration actions. The rangelands management plans will lay out management measures for herders to respond to changing climate. Measures include e.g. grazing routes matching mobility with existing vegetation and carrying capacity, planning of rangelands recovery periods, adaptive stocking rate strategies, etc. A total of 1,500 Ha of rangelands will be restored
Component 2: Enabling Vulnerable Groups to Income Diversification for Climate Change Adaptation	
Reduced households/income as a result of decreasing productivity (because of water and food scarcity).	The project will address diversification of livelihoods for vulnerable groups (youth, women and poor producers) along the small ruminants' value chain, through building their adaptive capacity and improving access to financial and non-financial resources and capacity building. The total number of beneficiaries is 2,470 (990 women; 370 youth)
Component 3: Supporting Climate Policy	
A weak policy and institutional framework for climate resilience of the small ruminants sector.	The project will develop knowledge products on rangeland management and alternative feed and fodder. The total number of beneficiaries is 28,000

J. Project sustainability

74. The proposed project aims to increase the climate resilience of small ruminants' food systems. This is done through improved access to rangelands, fodder, feed, and water, and diversification of livelihoods of climate vulnerable households. These activities are meant to reduce the vulnerability of rangelands and their users to climate change by improving the management and sustainability of natural resources. It aims to support evidence-based policy reform and knowledge creation supporting adaptive measures.
75. The project is based on, and is driven by, sustainability principles that are promoted throughout the project activities. The project's sustainability builds on beneficiary empowerment through: awareness raising; capacity building; cost-effective and environmentally friendly and long-lasting solutions to help restore, improve and protect the rangelands ecosystem-services.

76. The project aims to contribute to resolving a main barrier of adaptation: By strengthening access to financial resources, rangelands user groups have strong incentives to improve grazing practices and adapt climate resilient practices. Improved grazing strategies and better rangelands infrastructure will also yield sustainable results at eco-system level with positive co-benefits for biodiversity and carbon sequestration.

77. There are several elements that may impact the sustainability of the project (Table 13).

Table 13. Sustainability concerns and project mitigation measures

Sustainability Consideration	Mitigation Measures Proposed by the Project
(I) Institutional Sustainability	
Strengthening MoA's management and collaboration with the National Agricultural Research Center (NARC) and the Agricultural Credit Corporation (ACC).	Continued engagement with these institutions; alignment with their annual programs funded by donors or government
(II) Governance Sustainability	
Adopting community-based rangeland management systems	Empowerment and training of local communities to manage resources sustainably
Disseminating learnings and knowledge products	Sharing learnings with various stakeholders to influence policy and promote replication
(III) Financial & Economic Sustainability	
Developing adequate financial instruments to support herders and other actors of the value chain in financing their activities.	Incentives for ACC to deepen rural outreach and tailor livestock financial products through co-financing schemes (through the proposed revolving fund). Proposed partnership (after the project) with private sector, cooperatives, and other private sector groups to sustain this fund. Monitoring indicators and targets to assess the performance of the fund and corrective actions, such as revolving rate, Portfolio At Risk (PAR), share of production sold through various channels.
Ensuring that circular economy principles are adopted in feed and water systems	Adopt resource-efficient technologies (e.g., hydroponics, micro-irrigation) to reduce costs, including the use of appropriate water harvesting techniques to preserve underground resources and reduce reliance on costly water systems
(IV) Social Sustainability	
Targeting of vulnerable groups (women and youth entrepreneurs)	Technical and managerial training to ensure business viability and market orientation
Sustainability of the grants for women and youth led micro enterprise and other value chain actors	Market approach and economic viability of the proposed businesses, and the impactful capacity building interventions provided to the target groups during the project lifetime.
(V) Environmental Sustainability	
Securing adequate management of the restored rangelands	Involving local communities in site selection and management plan preparation and implementation
Maintaining the rainwater harvesting systems	Selecting low maintenance cost systems and providing any required training during installation.

K. Environmental and social impacts

78. The main findings of the risk screening are integrated in the table below. Based on the SECAP screening tool, the overall environmental, social and climate risk of the project is moderate which responds to the Adaptation Fund's categorization of Category B. The full proposal will include the final risk categorization, an Environment and Social Management Plan (ESMP), Gender Assessment; Stakeholder Engagement Plan (SEP) and a Grievance Redress Mechanism (GRM).

Additional studies and documentations will be developed in accordance with Government of Jordan Guidelines and Adaptation Fund Social and Environmental Policy standards. The project will conduct gender-disaggregated data collection at baseline level at the early implementation stage of the project and a social inclusion and targeting specialist will be recruited to ensure gender and social inclusion considerations are fully aligned with in project design and implementation.

Table 14. Environmental and Social Risk Screening

Checklist of environmental and social principles	No further assessment required for compliance	Potential impacts and risks – further assessment and management required for compliance	Risk Level
Compliance with the Law		<p>Risk level: Low</p> <p>The Concept Note was developed in compliance with the legal framework and laws. Relevant governmental and non-governmental entities have been consulted during the CN development to ensure compliance. The project design and implementation arrangements will ensure full compliance with all relevant laws, regulations and technical standards. In the absence of national standards, the project will apply internationally recognized standards.</p> <p>The PMU and other government authorities will ensure compliance of relevant national laws. Furthermore, this project will build on the lessons learned from the Small Ruminants Investment and Graduating Households in Transition Project (SIGHT) having similar objectives, implemented in line with existing applicable regulations.</p>	Low
Access and Equity		<p>Risk level: Medium</p> <p>Some risks might arise from community dynamics, social norms that may lead to exclusion to vulnerable groups such as women and youth and inequitable access to the project activities.</p> <ul style="list-style-type: none"> - Gender-based barriers and cultural norms women limited mobility and equitable access to assets, collateral and membership in producers' groups may hinder their targeting in specific project activities (e.g. FFS, leadership, etc.); - Youth: Community norms, may limit youth voice and their participation in decision-making processes; - Local communities need to be involved in the selection of the rangelands to be restored, the species to be planted, the technique to be used for water conservation, as well as monitoring and management. Lessons from projects implemented by other partners indicate a 5-fold increase in the biomass productivity when such approaches were adopted. - Access disparities: there is a risk that access to climate-smart technologies and resources could be unevenly distributed, favoring those with better connections or stronger economic positions. - Elite capture: more influential community members might dominate cooperatives or decision-making processes, limiting the participation of marginalized groups. <p>Mitigation measures:</p> <p>Key considerations and mitigation measures will be integrated through the design stage as the project will be designed to support equity in access to training, equipment, infrastructures, and services, taking especially into account marginalized and vulnerable groups, such as women and youth. A preliminary list of measures includes:</p> <ul style="list-style-type: none"> - Detailed targeting strategy with documented weighted scoring and selection of target groups - Ongoing community consultations - Operationalized and widespread GRM and reporting channels - Supervision missions to ensure proper targeting and selection of target groups - Monitoring and field visits 	Medium

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Checklist of environmental and social principles	No further assessment required for compliance	Potential impacts and risks – further assessment and management required for compliance	Risk Level
		- Rigorous gender mainstreaming and logistical support for women activities to address their mobility and domestic commitments	
Marginalized and Vulnerable Groups		<p>Risk level: Medium</p> <p>Women: some cultural and restrictive social norms marginalize women participation in public decision making and leadership roles</p> <p>Youth: young people, particularly in rural areas, may face obstacles in accessing decision-making spaces or securing equal opportunities in value chain activities</p> <p>The poorest population and more vulnerable to exclusion especially in rural communities where REWaRD will operate in.</p> <p>Women and youth represent the highest unemployment rates nationally and in the targeted governorates. They are mostly excluded from formal work opportunities and face institutional challenges to access services. For example, access to finance is challenging to these groups due to the high collaterals, high interest rates, and difficulty in repayment terms.</p> <p><u>Mitigation measures:</u></p> <p>The project main target groups are the poorest and poor smallholder farmers, women, and youth. The design report will include targeting strategy and approaches that aim at achieving best mobilization and outreach of vulnerable groups and ensure they have equitable and more secure access to rangelands and project interventions. All needs and concerns will be identified during the full proposal preparation phase, including the mechanism to ensure participation and equal access.</p>	Medium
Human Rights		<p>Risk level: Low</p> <p>The project will respect international human rights. It integrates overarching human rights principles to strengthen social and environmental sustainability by including measures to assist Jordan in these respects. During the full proposal development phase, any potential risk of human rights violation during project activities will be further assessed, and the project GRM will be fully operationalized and publicly spread at an early stage of the project implementation.</p>	Low
Gender Equality and Women's Empowerment		<p>Risk level: Medium</p> <p><u>Potential risks:</u> Exclusion from meaningful participation in economic activities and decision making, increased work burden, Gender Based Violence, and unsafe workplaces\</p> <p>Challenges: restrictive gender norms for women mobility and access to opportunities, and potential domestic tensions due to increased women economic status.</p> <p>Opportunities: gender dialogue at household level through positive male engagement, and accommodating women needs in the project interventions.</p> <p><u>Mitigation measures:</u></p> <p>The project will promote gender equity and women's empowerment through its targeting strategy and Gender Action Plan. Specific measures include:</p> <ul style="list-style-type: none"> • A full time Social inclusion and Gender specialist will be hired at the PMU level to manage the social inclusion action plan, ensure gender mainstreaming in all project activities • A quota of 40% is set for women in the target groups across all components and it will be detailed in the Gender Action Plan in the design document. Women participation and meaningful engagement will be strictly monitored by the Social Inclusion and gender specialist and the M&E officer at the PMU. Under component 1: women will be prioritised in receiving the hydroponic fodder units, and seeds (or seedlings) of drought and heat-resistant fodder, and 40% of rainwater 	Medium

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Checklist of environmental and social principles	No further assessment required for compliance	Potential impacts and risks – further assessment and management required for compliance	Risk Level
		<p>harvesting systems recipients are women. Under component 2: at least 40% of individuals trained in FFS and PFS, receiving loans and matching grants are women</p> <ul style="list-style-type: none"> • Conducting gender analysis in conjunction with stakeholder engagement, so that the rights, needs and opportunities of women and men and the different needs, roles and barriers are recognized and addressed. • Ensuring strong outreach strategies to achieve active participation of women in the participatory planning process (e.g. through focus group discussions including women). • 40% of total participants in community consultations are women – Some women only consultations are likely to be conducted to align with cultural acceptance. • Ensuring women are represented in committees that prioritize adaptation measures in rangelands management plans to be developed. • All TOTs and FFS trainings will include gender equality modules • Selection of project interventions shall accommodate all women needs and participation, such as adequate timing and location of capacity-building activities, providing women-only FFS, provide women facilitators and mentors, etc., to remove barriers to women and youth. • Gender-focused OHS training and gender pay gap will be included in the trainings delivered to MSMEs • Women headed households, young women, women with disabilities will be included in the weighted selection criteria 	
Core Labour Rights		<p>Risk level: Medium</p> <p>Some risks could arise concerning labour rights from limited awareness, and the significant informality of the sector, leading to low wages, limited labour rights and not compliance with the national labour laws. Women may face harsher labour conditions, including unsafe transportation, poor access to toilets and basic services, risk of sexual harassment, and poor payment.</p> <p>Opportunities: promoting women entrepreneurship, house-based business, and formal employment through the project implementation.</p> <p>Mitigation measures:</p> <ul style="list-style-type: none"> - REWaRD will comply with ILO standards and the Jordanian laws on labour rights and condition - The project will raise awareness on child labour and ensure strict adherence to mitigation measures in all procurement and implementation procedures of the project. - Access to the project services is conditional to adherence to the labour law. - The ESMP that will be developed at the design stage will include specific mitigation, monitoring, reporting, and escalation processes for labour conditions including the risk of child labour. 	Medium
Indigenous Peoples	X	Not applicable as there are no indigenous peoples in Jordan.	
Involuntary Resettlement	X	<p>The project will not involve any involuntary resettlement. The rangelands inventory will identify ownership status of rangelands and their current users. Temporary closure of degraded areas to allow restoration recovery, may affect households living around/ dependent on those specific grazing zones. This closure will be temporary and will not permanently exclude pastoralists. Implementation will follow participatory planning processes ensuring that local communities are engaged in the selection of sites and planted fodder and aware of the temporary measures.</p> <p>Through the participatory rangelands planning beneficiaries will agree</p>	

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Checklist of environmental and social principles	No further assessment required for compliance	Potential impacts and risks – further assessment and management required for compliance	Risk Level
		with proposed interventions, thereby avoiding any involuntary resettlement. Where deemed relevant for the sake of rangelands management measures, such measures will be temporary and agreed upon with impacted populations.	
Protection of Natural Habitats		<p><u>Risk level: Medium</u></p> <p><u>Mitigation measures</u></p> <p>The proposed activities within the geographical clusters of intervention within each governorate will be reviewed to make sure they are not located in or around protected areas.</p> <p>Furthermore, screening will apply for the grants delivered to ensure no financing is directed to projects with potential negative impacts on natural habitats.</p> <p>The ESMP which will be developed during design will include the screening criteria.</p>	Medium
Conservation of Biological Diversity		<p><u>Risk level: Medium</u></p> <p>The project is not likely to lead to overgrazing, since it foresees activities related to restoration of rangelands and support community-based rangeland management.</p> <p><u>Mitigation Measures:</u></p> <p>Rangelands management plans will also identify areas of high value for biodiversity and will flag these as such to identify appropriate measures (e.g. grazing restrictions). The exact project site locations will be the result of detailed analyses that will rank all communes in the target areas according to criteria. Compliance will be monitored through progress reports; supervision missions; the mid-term review; impact assessment; and terminal evaluation.</p> <p>Adapted and native species will be used in reseeded activities. New genetic materials will not be introduced nor any ecosystem affected.</p> <p>Small scale infrastructure, such as water harvesting facilities, will be established in pre-designated agricultural areas and constructed while ensuring they do not require the clearing of natural habitats (e.g., tree removal).</p> <p>Furthermore, screening will apply for the grants delivered to ensure no financing is directed to projects with potential negative impacts on biodiversity, habitats, or ecosystem.</p>	Medium
Climate Change		<p><u>Risk level: Medium</u></p> <p>The project is not expected to increase absolute GHG emissions since the small ruminant populations are expected to remain stable or even decrease given the productivity gain. On the contrary, vegetation cover gains from rangelands restoration and improved management are expected to contribute to improved organic carbon stocks and carbon sinks.</p> <p>Women workload and food insecurity largely increase by by climate change shocks. The reduced productivity and increase in water and fodder prices negatively impact female headed households' livelihoods. Women's unpaid labor burden for water collection and household management also increases. Rural women, who are heavily involved in agriculture, face heightened risks of income loss and food insecurity. Furthermore, health risks may arise due to the increased workload and water scarcity.</p> <p><u>Mitigation Measures:</u></p> <p>All project activities will increase adaptive capacity of the sector</p>	Medium
Pollution Prevention and Resource		<p><u>Risk level: Medium</u></p> <p>Overfertilization of rangelands is not a risk in Jordan.</p>	Medium

Annex 5 to OPG Amended in October 2017

Checklist of environmental and social principles	No further assessment required for compliance	Potential impacts and risks – further assessment and management required for compliance	Risk Level
Efficiency		<p><u>Mitigation Measures:</u></p> <p>Aspects related to other pollutants release to the environment will be prevented by ensuring environmental compliance by the grants delivered (e.g. wastewater collection/treatment at supported dairy facilities).</p> <p>Fodder production, will be supported at a small scale, using drought and heat-resistant species, and accordingly not causing an additional stress on water. Water scarcity issues will be addressed by supporting rainwater harvesting.</p> <p>Awareness and training on water saving and waste management will also be provided.</p> <p>Compliance will be monitored through progress reports, supervision missions, the mid-term review, and terminal evaluation.</p>	
Public Health		<p><u>Risk level: Medium</u></p> <p>The project is designed and will be implemented in a way that avoids potentially significant negative impacts on public health.</p> <p>Some common risks were identified such as the potential risk of water-borne diseases from water harvesting activities is triggered, and risk level will be further finalized at the design stage. Despite notable achievements, rural laborers are exposed to unsafe and hazardous labor conditions as they tend to endure long hours of work, lack protective equipment and receive inadequate safety training, and risks from communicable diseases from animals.</p> <p><u>Mitigation measures:</u></p> <p>The project design will integrate a plan to ensure proper risk mitigation and safe labor practices are promoted. REWARD interventions will also ensure that all appropriate OHS measures are taken and monitored in accordance with national and international standards and IFAD SECAP procedures, and Adaptation Fund. All trainings (dairy processing, Water harvesting, etc..) will integrate producers awareness on hygiene practices, safety protocols, and using covered, sealed, and regularly cleaned tanks.</p> <p>The project will ensure that all appropriate health and safety measures are taken in accordance with both national and international standards, and monitoring compliance tools will be detailed in the project design.</p>	Moderate
Physical and Cultural Heritage		<p><u>Risk level: Low</u></p> <p>The project is unlikely to have any adverse impacts on physical and cultural heritage of the people in the intervention areas.</p> <p>Rangelands management plans will flag any areas and will define measures if deemed necessary. Intangible cultural heritage such as traditional methods of dairy and meat processing will positively benefit from the project as it will integrate this traditional knowledge into sustainable livestock and dairy production while ensuring that modernization efforts are fully aligned with cultural traditions and contribute to food safety and community health. Consultations will be held with local communities for any activities involving the utilization of intangible cultural heritage/tradition knowledge.</p>	Low
Lands and Soil Conservation		<p><u>Risk level: Low</u></p> <p>The project aims to improve vegetative cover, introduce soil conservation measures, plant resilient and diverse native plant species and improve water availability and management.</p> <p>Small-scale rural infrastructure, such as water harvesting facilities, will be established in pre-designated agricultural areas and constructed while ensuring they do not require any tree removal (and accordingly increase of soil erosion risk), and when using natural resource materials, preference will be given to suppliers adhering to environmental management and energy efficiency standards.</p>	Low

PART III: IMPLEMENTATION ARRANGEMENTS

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

REWaRD will be implemented through a dedicated Project Management Unit (PMU) hosted within MoA. A Steering Committee (PSC), chaired by MoA and co-chaired by the Ministry of Environment (MoE) will meet bi-annually to approve the Annual Work Plan and Budget (AWPB), review implementation progress, and provide strategic guidance. A Project Technical Coordination Committee (PTCC) will ensure operational coordination, troubleshoot implementation challenges, and facilitate real-time learning across components. Table 15 demonstrates how the proposed REWaRD project aligns with the Results Framework of the Adaptation Fund.

Table 15. Alignment of the proposed REWaRD project with the Adaptation Fund Results Framework

Project Objective(s)	Project Objective Indicator(s)	Adaptation Fund Outcome	Adaptation Fund Outcome Indicator	Grant Amount (USD)
Objective 1: To support climate resilience of small ruminants' food systems through improved access to rangelands, fodder, feed, and water, and diversification of livelihoods of climate vulnerable households.	<i>Number of households reporting adoption of environmentally sustainable and climate-resilient technologies and practices</i>	Outcome 5: Increased ecosystem resilience in response to climate change and variability-induced stress	<i>Indicator 5: Ecosystem services and natural resource assets maintained or improved under climate change and variability-induced stress</i>	9,998,356 8,364,214
		Outcome 6: Diversified and strengthened livelihoods and sources of income for vulnerable people in targeted areas	<i>Indicator 6.2: Percentage of targeted population with sustained climate-resilient alternative livelihoods</i>	
		Outcome 7: Improved policies and regulations that promote and enforce resilience measures	<i>Indicator 7: Climate change priorities are integrated into national development strategy</i>	
Total outcome level grant amount				9,998,356 8,364,214
Project Outcome(s)	Project Outcome Indicator(s)	Adaptation Fund Output	Adaptation Fund Output Indicator	Grant Amount (USD)
Outcome 1: Increased ecosystem resilience for the small ruminants' sector	<i>Number of hectares of land brought under climate-resilient practices</i>	Output 5: Vulnerable ecosystem services and natural resource assets strengthened in response to climate change impacts, including variability	<i>Indicator 5.1: No. of natural resource assets created, maintained or improved to withstand conditions resulting from climate variability and change (by type and scale)</i>	3,443,772
Outcome 2: Diversified and strengthened livelihoods and sources of income for the most vulnerable groups in the livestock value chain	<i>Number of households reporting using rural financial services</i>	Output 6: Targeted individual and community livelihood strategies strengthened in relation to climate change impacts, including variability	<i>Indicator 6.2.1: Type of income sources for households generated under climate change scenario</i>	4,603,729
Outcome 3: Strengthened policy and institutional capacity for climate adaptation	<i>Number of existing/new laws, regulations, policies or strategies proposed to policy makers for approval, ratification or amendment</i>	Output 7: Improved integration of climate resilience strategies into country development plans	<i>Core indicator 7.1: No. of policies introduced or adjusted to address climate change risks (by sector)</i>	316,713
Total output level grant amount				9,998,356 8,364,214

Annex 5 to OPG Amended in October 2017

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 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:

Dr. Aiman A. Soleiman, Minister of Environment, Ministry of Environment	Date: November 3, 2025
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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 and subject to the approval by the Adaptation Fund Board, commit to implementing the project/programme in compliance with the Environmental and Social Policy of the Adaptation Fund and on the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this project/programme.	
Implementing Entity coordinator: Mr Pierre Guedez, Pierre Yves, Lead Climate and Environmental Funds, ECG division 	Email: p.guedez@ifad.org
Mr Juan Carlos Mendoza Casadiegos Director Environment, Climate, Gender and Social Inclusion Division	
Date: November 17 2025	Email: ecgmailbox@ifad.org
Project contact persons:	
Mr Walid Nasr Regional Lead Climate and Environment Specialist	Email: w.nasr@ifad.org
Mr Vrej Jijyan, Country Director	Email: v.jijyan@ifad.org

ANNEXES

Annex 1: Letter of endorsement of MoE



Ministry of Environment

Ref.No 2-7-6983
Date 3-11-2025

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

Subject: Endorsement for Resilient Ecosystem, Water and Rangelands Development (REWARD) Project

In my capacity as designated authority for the Adaptation Fund in Jordan, I confirm that the above national project concept note 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 Jordan.

Accordingly, I am pleased to endorse the above project concept note with support from the Adaptation Fund. If approved, the project will be implemented by the International Fund for Agricultural Development (IFAD) and executed by the Ministry of Agriculture (MOA).

Sincerely,

Minister of Environment

Dr. Aiman A. Soleiman



Revised PFG Submission Form¹ (additions in red)

Project Formulation Grant (PFG)

Submission Date:

Adaptation Fund Project ID:

Country/ies: Hashemite Kingdom of Jordan

Title of Project/Programme: Resilient Ecosystem, Water and Rangelands Development (REWaRD) project

Type of IE (NIE/RIE/MIE): Multilateral Implementing Entity

Implementing Entity: International Fund for Agriculture Development (IFAD)

Executing Entity/ies: International Fund for Agriculture Development (IFAD)

A. Project Preparation Timeframe

Start date of PFG	April 2026
Completion date of PFG	March 2027

B. Proposed Project Preparation Activities (\$)

List of Proposed Project Preparation Activities	Output of the PFG Activities	US\$ Amount	Budget note²
Gender and Environmental and Social risk analyses and formulation of Environmental and Social Management Plan and Gender Action Plan. This document is required as part of the submission of the full proposal.	<ul style="list-style-type: none"> Environmental and Social Management Plan and Gender Action Plan formulated. 	20,000	<ul style="list-style-type: none"> Consultancy fees: 13,000 USD Logistics costs: 7,000 USD

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.

Consultancies on Rangeland ecological & degradation assessment	<ul style="list-style-type: none"> • Determine selection criteria for site selection for the rangeland restoration • Assess the technical feasibility of the selected sites • Assess the rangeland management mechanism and its governance 	50,000	<ul style="list-style-type: none"> • Consultancy fees: 40,000 • Logistics: 10,000
Consultancies on policy & institutional gap analysis	<ul style="list-style-type: none"> • Policy analysis report highlighting regulatory gaps and recommendations for improved rangeland and small-ruminant management 	10,000	Consultancy fees: 10,000
Consultancies on economic and financial feasibility analysis	<ul style="list-style-type: none"> • Cost-benefit analysis for rangeland restoration, water harvesting, and livelihoods investments 	20,250	<ul style="list-style-type: none"> • Consultancy fee: 13,250 • Logistics costs: 7,000 USD
Consultancies to develop project proposal	<ul style="list-style-type: none"> • Coordination documentation, financial reports, progress summaries, and submission packages 	37,000	<ul style="list-style-type: none"> • Consultancy fees: 30,000 • logistics costs: 7,000 USD
IE Fees (8.5% of total)		12,750	
Total Project Formulation Grant		150,000	

The PFG activities requested for REWARD project will support the formulation of the full proposal at different levels, ensuring that the Executing Entity will be provided with a complete package to fast-track implementation. The activities proposed are detailed below:

1.1 Gender and Environmental and Social risk analyses and formulation of Environmental and Social Management Plan and Gender Action Plan

The Adaptation Fund requires a robust and evidence-based gender and environmental and social risk analysis, based on the list of identified sites for project interventions. For the full proposal, IFAD and MoA would like to carry out thorough data collection and analysis for gender as well as for the assessment of environmental and social risks. The risk analysis will inform the formulation of a robust Environmental and Social Management Plan and Gender Action Plan. IFAD will hire one international consultant for this assignment, a gender specialist and an environmental specialist who will work jointly. The cost of 20,000 USD includes consultancy fees for 15 days as well as fieldwork costs (DSA, rental of vehicle) for one week.

1.2 Consultancy on Rangeland ecological & degradation assessment

The assessment study and related plan will address both technical aspects (water conservation techniques, seed types, fencing and other infrastructural works, grazing schedule, etc.) and governance aspects (ownership of land, land access especially by vulnerable groups, management modalities, roles and responsibilities, enforcement mechanisms and conflict resolution procedures, etc.). The study will develop criteria that will be used by the PMU for the selection of the 10 sites. IFAD will hire consultants/companies to conduct the needed study. The following activities are foreseen to be conducted by the consultants/companies:

- Vegetation baseline dataset and maps
- Remote-sensing-based degradation maps
- Current Carrying capacity and grazing pressure analysis
- Climate vulnerability and projections
- Assessment and recommendation of methodology for rangeland restoration
- Stakeholder engagement
- Selection criteria for prioritising of rangeland restoration sites
- Final assessment report with restoration priority zones

The overall cost would be 50,000 USD divided to 40,000 USD consultancy fees and 10,000 USD for travel costs.

1.3 Consultancy on policy & institutional gap analysis

IFAD will hire national consultant for conducting policy analysis gap for the small-ruminant sector. The analysis will also cover the rangeland management. The consultant will analyse all the relevant national laws and identify the gaps in the national law. The cost would be 10,000 USD covering consultancy fees. No travel costs will be required as the consultancies will focus on systematizing available information.

1.4 Consultancy on economic and financial feasibility analysis

The economic and financial feasibility analysis will assess the viability and cost-effectiveness of the proposed activities in the concept note. The analysis will also identify financial risks, potential revenue streams, and opportunities for scaling, ensuring that the proposed interventions deliver strong adaptation benefits and are financially feasible for herders, communities, and national institutions. The overall cost would be 20,250 USD divided to 13,250 USD consultancy fees and 7,000 USD for travel costs.

1.5 Consultancy and contracts to develop the project

IFAD is requesting funds for allocation for the design of Adaptation Fund projects. The fund will be used to address the issues the Adaptation Fund raised during the review of the project concept note and that revolve around hydrology and volume of groundwater, cost benefit analysis, knowledge management. IFAD would hire 3 consultants (national and international) to improve the quality of the full proposal. The overall cost would be 37,000 USD divided to 30,000 USD covering consultancy fees and 7,000 USD covering logistics. The consultancies would be completed in time for the submission of the full proposal.

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
Pierre Yves Guedez		11/20/2025	Walid Nasr		w.nasr@ifad.org

Annex 2: Stakeholder Engagement

List of Stakeholders Consulted

Name and Gender	G	Position and Agency	Mobile/Email	Meeting Date	Format
Eng. Mohammed Al Bess	M	CEO, International Ferti-Technical Coop – Mafrq	+962 79517176	Sept 7, 2025	In-person
Mr. Mohammed Al Mershed	M	Owner, El Agwad (private sector) Quarantine services, Mafrq	+962 77780864	Sept 7, 2025	In-person
Mr. Fadi Abu Ghalyoun	M	Owner, Al Fadi Milk Factory	+962 777900010	Sept 7, 2025	In-person
Mr. Mohammad Alslehat	M	Medical Herbs farmer, Amman	+962792002435	Sept 7, 2025	In-person
Rahaf Awad Mahmoud	F	Blastic Houses	+962779566104	Sept 7, 2025	In-person
Ayshah Alhawtmeh	F	Hamsa NGO, Madaba Focus Group Discussion with community members (Mixed group of women and youth).	+962770512248 Ayshah@wisper-jo.com	Sept 7, 2025	In-person
Dr. Basel Al Saudi.	M	Agricultural Director Assistant for Tafila Directorate, MOA	+962772633862 Bas_sudi@yahoo.com	Sept 8, 2025	In-person
Eng. Ahmed Abdel Kader Al Rofu'	M	Director Assistant for Bussaira, MOA Directorate	+962 772093718 / aaabedkade@gmail.com	Sept 8, 2025	In-person
Eng. Ahmed Marryat	M	Agriculture Director for El Hasaa, Tafila, MOA	+962 777373360	Sept 8, 2025	In-person
Ma'amoun El-Adaylah.	M	Agriculture Director for Karak Directorate, MOA	+962 799059149 / manmareed@yahoo.com	Sept 8, 2025	In-person
Eng. Rasheed El Dmour,	M	Head of Livestock Department, Director Assistant, Karak, MOA	+962 799049571/ dmour.rasheed@gmail.com	Sept 8, 2025	In-person
Eng. Abdel Rahman El-Tarawna	M	Agriculture Director, Lewaa Moab, Karak, MOA	+962 798969121	Sept 8, 2025	In-person
Eng. Abdel Hameed El Balwy	M	Agriculture Director, Lewaa El Kaseer, Karak, MOA	+ 962 799028709 Tarekz72@yahoo.com /	Sept 8, 2025	In-person
Eng. Tarek Zeyad	M	Agriculture Director, Maán Directorate, MOA	+962 778336474	Sept 8, 2025	In-person
Dr. Ghassab Hatem Al Hasanat,	M	A-Hussainiya Agriculture Directorate, Maan, MOA	+ 962 776308526	Sept 8, 2025	In-person
Eng. Bassem El tawra.	M	Lewaa Al- Shobak Agriculture Directorate, Maan	+ 962 777710387	Sept 8, 2025	In-person
Eng. Thaer Odeh Al Rawajfeh.	M	Aqaba Agriculture Directorate, MOA	+962776100439/ thaer.odeh79@gmail.com	Sept 8, 2025	In-person
Eng. Abdel Allah El-Alaween.	M	Assistant Director, Head of Livestock Department, Aqaba, MOA	+962 799059153	Sept 8, 2025	In-person
Dr. Mohammed Al Habahbeh	M	Al Fujaij Breeding Station	+962 777493439	Sept 8, 2025	In-person
Eng. Baker Barakat	M	Director, Extension Services, MoA	+962 797781832	Sept 8, 2025	In-person
Dr. Sa'eb Al Khraisat.	M	H.E. The MOA Minister.		Sept 9, 2025	In-person
Eng. Mohammed Al Hyari.	M	Secretary General for the MOA Minister.	+962799028484	Sept 9, 2025	In-person

Name and Gender	G	Position and Agency	Mobile/Email	Meeting Date	Format
Mr. Murad Al Mhairat.	M	Secretary General Assistant for Financial & Managerial Affairs, MOA	+962797773900	Sept 9, 2025	In-person
Dr. Khaled Al Heissa.	M	Secretary General Assistant for Projects, MOA.	+962795427069	Sept 9, 2025	In-person
Mr. Malik Al Braizat.	M	International Cooperation Dept., Arab & Islamic Relations Division.	+962799800012/ malek.al-brezat@mop.gov.jo	Sept 9, 2025	In-person
Belal Shqarin	M	Climate Change Focal Point, MOENV	belal.shqarin@moenv.gov.jo	Sept 9, 2025	In-person
Dr. Asmaa Al-Ghazawy	F	Advisor to the Minister of Local Administration for Environment	+962 6 4641393 Asma.g@moma.gov.jo	Sept 9, 2025	In-person
Hatem Omar Hamed Abu Rumman	M	Head of International Cooperation, MOENV	+962 799181188 Hatem.aburumman@moenv.gov.jo	Sept 9, 2025	In-person
Dr. Miar Haddad	F	ICARDA	+962 799195741	Sept 9, 2025	In-person
Dr. Rana Malkawi		Focus Group Discussion with community members (Mixed group of women and youth). Mafraq	+962798714344 Ranamalkawi95@yahoo.com	Sept 9, 2025	In-person
Feras Maddalah Al Asasfeh	M	Farmer in Karak	+962 797507415	Sept 10, 2025	In-person
Abdulrahman Salem Al Maaytah	M	Farmer in Karak	+962 796328674	Sept 10, 2025	In-person
Saleh Ahmad Al Majali	M	Farmer in Karak	+962 798983117	Sept 10, 2025	In-person
Eng. Rasheed Al Dmour	M	Rangeland Karak	+962 799049571/ dmour.rasheed@gmail.com	Sept 10, 2025	In-person
Mr. Za'al Al Kawaleet.	M	Owner, Dairy Factory, Karak	+962 795289033	Sept 10, 2025	In-person
Eng. Mohammed Al Tarawneh	M	Mushairfa Breeding Station, Karak	+962 799048729	Sept 10, 2025	In-person
Dr. Samah Al Jobour.	M	Bio lab, Amman	+962 777717704	Sept 11, 2025	In-person
Hasan Al Hotheifat	M	Feed trader, Madaba.	+962 772240588	Sept 11, 2025	In-person
Eng. Mohammed Al Snaid	M	Wala Breeding Station, Madaba	+962 777969604	Sept 11, 2025	In-person
Mohammed al Ttawalba	M	SIGHT Breeding Partner	+962 772193439	Sept 11, 025	In-person
Dr. Sameer Hussien Al-Attar	M	Senior Director of Developmental Planning and Coordination	Sameer.a@johud.org.jo +962 6 5560741	Sept 11, 2025	In-person
Mr. Anas Aitweisi		Senior Director of Financial & Administrative Affairs The Jordanian Hashemite Fund for Human Development, JOHUD	Anas.al@johud.org.jo +962 6 5560741		
Mr. Reyad Hawamleh	M	Area Manager, Islamic International Arab Bank	+962 79 9329555 Reyad.hawamleh@iiabank.com.jo	Sept 11, 2025	In-person
Heba Ababneh	F	World Food Programme (WFP)	+962 797463721 / heba.ababneh@wfp.org	Sept 14, 2025	In-person

Name and Gender	G	Position and Agency	Mobile/Email	Meeting Date	Format
Corey Fortin	M	Climate and DRR Team Leader, WFP	+962791295853 / corey.fortin@wfp.org	Sept 14, 2025	In-person
Dr. Laith Al Rahahleh	M	World Conservation Union (IUCN)	laith.alrahaheh@iucn.org	Sept 14, 2025	In-person
		Women only Focus Group Discussion Group of women beneficiaries from SIGHT project (graduation component), Amman		Sept 14, 2025	In-person
Ms. Jamilah Alabbadi		National Aid Fund	+962795814789	Sept 14, 2025	In-person
Khalaf El-Ragad	M	Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)	+962799062616	Sept 15, 2025	In-person
Rajaa Ali	F	ACSAD	+962795298258	Sept 15, 2025	In-person
Eng. Walaa Al Zaydieh	F	Rainwater Harvesting Department, MOA	+962 779249801	Sept 15, 2025	In-person
Eng. Ahmad Al Qawabaa	M	Director, Rainwater Harvesting Department, MOA	+962798508317	Sept 15, 2025	In-person
Eng. Mohamed El-Shebly	M	Director, Rangeland Department, MOA	+962799271028	Sept 15, 2025	In-person
Eng. Rana Abo El Saada	F	Rangeland Department, MOA	+962795505929	Sept 15, 2025	In-person
Dr. Sami Al Awabdeh	M	National Agriculture Research Center (NARC): Director of Livestock Directorate and Focal Point for SIGHT	+962790463731/ sami.awabdeh@gmail.com	Sept 16, 2025	In-person
Dr. Mustafa Al Shdaifat	M	Head of Khanassri Breeding station	+962775623826/ m.shdaifat78@yahoo.com		
Eng. Jumana Hijazi	F	Head of Management Division & Coordinator of Artificial Insemination in Sheep and Goats	+962799038321/ hijazijomana@yahoo.com		
Eng. Ahmad Al Amareen	M	Breeding Specialist	+962792660814/ ahmad_alathamna@yahoo.com		
Eng. Mohammed Al Dojan	M	General Director, ACC.	+962799028408	Sept 17, 2025	In-person
Eng. Saleha Al Majali	F	Project Department Director, ACC (Agriculture Credit Corporation)	+962797866553/ salha.majali@acc.gov.jo		
Eng. Raed Al Qatamin	M	Project Director	+962 779852965	Sept 18, 2025	In-person
Eng. Murtada Al Khassawneh	M	Project Officer	+962 788330888		
Mr. Rami Al Owaidat	M	Training Specialist	+962 796805015		
Mr. Suleiman Al Zyadat	M	Finance Manager	+962 795203777		
Eng. Lama Al Shamaila	F	Livelihood Specialist	+962 772103588		
Eng. Rawan Al Shbailat	F	M&E Specialist.	+962 779982999		
Ms. Saja Zaid	F	Gender Officer (SIGHT Project Team)	+962 772344371		

Selected Photos:



Annex 3: Stakeholder Consultations Findings

Objective of the field visits and meetings

Gather ground evidence from all target areas and seek opinion of all stakeholders.

Key Findings

The livestock sector—particularly small ruminants—is essential to rural livelihoods, especially in the most disadvantaged areas. Domestic demand for dairy products is rising, but this growth is constrained by an unstable supply of small ruminants. Smallholder producers are increasingly affected by rising temperatures (with climate projections indicating average increases of up to 4°C) and recurrent droughts (with extreme heat and drought expected every five years). These conditions negatively impact animal welfare and productivity and contribute to shortages of fodder and water, higher feed costs, limited market access, and insufficient public and private extension services. Despite of the central role that women and youth play in small ruminant production and food processing, they continue to face structural constraints, including mobility limitations and employment bias linked to cultural norms, as well as unequal access to productive assets, financial services, markets, and decision-making opportunities.

Challenges

- 1) Smallholders face major constraints in feed, water, animal health, and market access.
- 2) Climate change impacts such as water scarcity, severe climate shocks, land degradation and increased prices of water and feed largely affect the value chain actors, particularly smallholders' livelihood.
- 3) Women and youth are central to production but face structural barriers. These barriers are both economic and social that hinder their equitable inclusion in this value chain, limit employment opportunities, access to productive assets and financial services. The cultural norms also significantly challenge women's economic empowerment, leadership, and meaningful engagement in community decision making.
- 4) The government gives sustainability and climate change adaptation a major priority. There are different programmes that aim at upscaling national capacity for the agriculture sector and the small ruminant value chain. One of which is supporting ACC in providing financial services and upscaling its capacity to nationwide service the agriculture sector

Opportunities

Field visits and meetings confirmed a number of opportunities for addressing these challenges, including: rangeland restoration and management; alternative feed and fodder; rainwater harvesting; supporting women and youth's participation to the sector through providing them with access to finance and providing them with the necessary training, etc.

Proposed Interventions:

Through structured sustainable interventions in partnership with governmental, private sector, and development actors, these interventions aim at supporting resilience of small ruminant producers with a focus on vulnerable population, women and youth. Smallholders' challenges and opportunities have informed the following REWARD interventions:

Component 1 Strengthening climate resilience of small ruminants' food systems

Responds to: vulnerability of small ruminants smallholders to climate change impacts affecting water, feed, inflated prices, and livelihoods. It will therefore aim at reducing vulnerability to climate change of most vulnerable small ruminants' smallholder producers, and in particular the recurrent water and feed deficit exacerbated by climate change.

Component 2: Enabling vulnerable groups to income diversification for climate change adaptation

Responds to the challenges of smallholders in general and women and youth in particular. The component will contribute to building a better entrepreneurship ecosystem through bridging the capacity and skills gaps and provide equitable access for financial services, and strengthen market linkages, to ensure sustainable income diversification and support the full value chain at both governorate and national levels.

Component 3 Policy and Knowledge Generation

Essential for translating project interventions into policy and knowledge material, thus benefiting other related interventions in the future and optimizing sustainability efforts.

Conclusion

The concept mission underscores the needs for addressing the climate change impacts affecting the small ruminants value chain and smallholders.