



Terms of Reference (ToRs)

Consultancy service: Consultancy to Conduct a Study on Climate Vulnerability, Future Scenarios Analysis, and Impact in the Uganda Cattle Corridor Project.

Duration: 4 Weeks

Reporting To: African Innovations Institute (AfrII) and Ministry of Water and Environment (MWE).

1. Background

Uganda's Cattle Corridor, stretching from the southwest to the northeast of the country, is home to a significant proportion of the nation's livestock and pastoralist communities. However, this vital region faces escalating challenges from climate change and its impacts. Highly variable temperature, erratic rainfall patterns, and the increasing frequency of extreme weather events such as prolonged droughts, floods, and heatwaves are already undermining the productivity, quality, and sustainability of water resources, crop yields, and livestock production that form the backbone of rural livelihoods.

The combined effects of climate variability, land use change, and environmental degradation increasingly threaten the water resources and agricultural livelihoods of the cattle corridor, reducing people's resilience to climate change impacts. Despite growing evidence of vulnerability, there remains limited systematic analysis of **how projected future climate scenarios will affect water resources and livelihoods in the cattle corridor**. Furthermore, adaptation planning is often fragmented or reactive, lacking robust, evidence-based strategies that can be mainstreamed into policy and programming.

In line with this, the Uganda Ministry of Water and Environment (MWE) in collaboration with Conservation International (CI) and Africa Innovation Institute (AfrII) are designing a GEF-funded full-size project titled “*Water Security and Catchment Resilience in Uganda's Cattle*

Corridor” (GEF ID: 11696). The project aims to enhance sustainable and climate-resilient land and water management practices in Uganda's Cattle Corridor. Details about this project can be found [HERE](#)

To holistically address the adaptation interventions in the project, we are seeking the expertise of a consultant to undertake a study on the Climate Vulnerability Future Scenarios Analysis and Impact in the Uganda Cattle Corridor project target sites. The findings from this study will generate evidence-based insights on future climate scenarios and adaptive outcomes that will be integrated into the design of the aforementioned project. The assessment will cover the five districts of Kole, Pader, Kitgum, Mityana, and Rakai.

2. Objectives

The objective of the consultancy is to assess climate risks and vulnerabilities affecting the cattle corridor, draft the potential impacts under future climate scenarios, and evaluate the adaptive capacity of the cattle corridor landscape. The findings will inform the integration of evidence-based, climate-resilient strategies into project development and implementation. Specifically, the consultancy will:

- i. **Undertake the Climate Risk and Vulnerability Assessment** - establish risks and vulnerabilities of the cattle corridor landscape and communities livelihoods to the impacts of climate change and other systemic factors. The consultant shall examine the exposure, sensitivity, and adaptive capacity of key stakeholders including farmers, processors, and MSMEs to these risks using secondary data.
- ii. **Prepare the Future Climate Impact Scenarios** - analyze projected climate trends for cattle corridor landscape using down-scaled climate models using downscaled climate data and validated simulation tools to assess medium and long-term impacts on water security, catchment resilience, and livelihoods in the Cattle Corridor's target districts: Kole, Pader, Kitgum, Mityana, and Rakai. Draft a Future Scenarios section for the Cattle Corridor Project that reflects localized climate projections, socio-environmental vulnerabilities, and intervention-specific implications aligned with GEF STAP guidance.

- iii. **Carry out the Adaptive Capacity and Resilience Analysis** - apply the GEF adaptation Decision Tree and propose a suite of context-relevant, and locally supported adaptation strategies to strengthen resilience and inform the project's design and future Water and Environment Strategic Investment Master Plan.
- iv. **Develop Recommendations** - Develop actionable recommendations that promote climate-resilient strategies and enhance adaptive capacity across the cattle corridor landscape. These recommendations will address identified climate risks, vulnerabilities, and strategies to enhance the resilience of the Cattle Corridor landscape.

4. Scope of Work

The consultancy will be conducted in selected districts in the cattle corridor landscape. The scope of work will include:

- Developing a climate baseline and generate localized future climate using downscaled and validated climate models for the cattle corridor.
- Analyze projected climate scenarios to assess their implications on water security, catchment resilience, and livelihoods in the five target districts: Kole, Pader, Kitgum, Mityana, and Rakai.
- Assess climate vulnerability by examining the adaptive capacity, exposure, and sensitivity of communities and ecosystems using relevant secondary data.
- Draft localized future scenarios that integrate climate projections with socio-environmental vulnerabilities and project-specific implications, in line with GEF STAP guidance.
- Apply the GEF Adaptation Tree and recommend tailored adaptation strategies that are context-specific, and locally supported to inform the Cattle Corridor Project and the Water and Environment Strategic Investment Master Plan.

Note: The assignment will culminate in the delivery of a detailed technical report, a stakeholder validation workshop, and a set of clear, actionable recommendations for building climate resilience in the Cattle Corridor.

5. Deliverables

The consultant will deliver the following:

- Inception report detailing refined methodology, work plan and data collection tools
- Draft data collection instruments
- Interim briefing to stakeholders after fieldwork
- Draft assessment report with preliminary findings, maps and case studies
- Final report including climate risks, adaptation rationale, and recommended strategies structured along the GEF Adaptation Decision Tree model.
- Presentation of report to the PPG task force team for validation.

6. Timeline and payment schedule

The assignment will take a maximum of four (4) weeks beginning from 25th August, 2025, up to September 22nd, 2025, as detailed below.

Expected output	Timeline	Format	Instalment payment (%)
Inception report and data sources, analysis tools	August 28, 2025	Word doc	30
Draft report	September 12, 2025	Word doc	40
Validation workshop (online)	September 18, 2025	PowerPoint + Minutes	
Final report	September 25, 2025	Word doc	30

7. Reporting

The consultant will report to Africa Innovations Institute (AfrII) through designated project manager based at AfrII. Weekly check-in will be done through emails, virtual meetings and phone

calls with the consultant to track progress, provide guidance and address and challenges. All deliverables shall be submitted in electronic format (both Word and PDF) and editable excel files for data. The final report will include an executive summary, background, objectives, methodology, key findings, conclusions and recommendations. Annexes will include data collection tools, datasets and other supporting documents.

8. Required Qualification and Experience

The consultant should possess:

- Advanced academic qualifications (Master's or PhD) in Agrometeorology, Meteorology, Geography, Environmental Sciences or a closely related field
- A minimum of five years of relevant experience in climate-agriculture research and advisory services.
- Have in-depth experience in climate modelling and vulnerability and livelihoods analysis and climate adaptation.
- Applicants should be skilled in climate modelling tools (e.g. DSSAT, WOFOST, APSIM), Geographic Information System (GIS), and statistical software.
- All applicants must be able to deliver high-quality, timely outputs in line with the objectives of this assignment.

9. Proposal Documents to include

- a. Signed cover page on bidder's letterhead with the bidder's contact information.
- b. Technical Proposal.
 - i. Corporate Capabilities, Experience, Past Performance, and 3 client references. Please include descriptions of similar projects or assignments and at least three client references.
 - ii. Qualifications of Key Personnel. Please attach CVs that demonstrate how the team proposed meets the minimum requirements listed in this TOR.

- iii. Technical Approach, Methodology and Detailed Work Plan. The Technical Proposal should describe in detail how the bidder intends to carry out the requirements described under the Scope of Works.
- c. Detailed Financial Proposal.

10. Evaluation Criteria: In evaluating proposals, AfrII will seek the best value for money considering the merits of the technical and costs proposals. Proposals will be evaluated using the following criteria:

Evaluation Criteria	Score (out of 100)
Does the proposal clearly explain, understand and respond to the objectives of the project as stated in the Scope of Work?	15
Does the proposed program approach and detailed activities and timeline fulfill the requirements of executing the Scope of Work effectively and efficiently?	15
Does the bidder's past performance demonstrate recent proven experience doing similar work?	30
Does the bidder and the proposed personnel have the specific technical expertise for the assignment?	20
Costs proposed are reasonable and realistic, reflect a solid understanding of the assignment.	20

11. Submission instruction

Interested Consultants or Team should submit application both hard or soft copy of your complete detailed bid including team CVs and two samples of relevant past work by **August 21, 2025 at 4:30 pm (EAT)**, in a sealed envelope to the following address:

Plot 1544, Koire Close, Off Old Kiira Road, Bukoto Tel: +256768 229 363; or as pdf by Email to: procurement@afrii.org copy to info@afrii.org

Subject line: “Consultancy to Conduct a Study On Climate Vulnerability, Future Scenarios Analysis, and Impact in The Uganda Cattle Corridor Project”

Confidentiality

All proprietary information provided by the bidder shall be treated as confidential and will not be shared with potential or actual applicants during the solicitation process. This includes but is not limited to price quotations, cost proposals and technical proposals.

Gender consideration – Africa Innovations Institute is an inclusive non-discriminative institution committed to gender equality and promoting inclusivity. Women are encouraged to apply

Prohibited practices and institutional policies- The offerors should ensure that they comply with AfrII, CCD-MWE, and CI-GEF policies on anti-corruption, anti-terrorism and other prohibited practices (https://www.conservation.org/docs/default-source/gef-documents/prohibited-practices.pdf?sfvrsn=f1e1d9f3_0)