

Request for Proposal (RfP)

Nairobi Climate Hazard Mapping and Inclusive Vulnerability Assessment

C40 Cities Climate Leadership Group, Inc.

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United States of America

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1. C40 Cities Climate Leadership Group Inc.

C40 is a network of nearly 100 mayors of the world’s leading cities working to deliver the urgent action needed right now to confront the climate crisis and create a future where everyone, everywhere, can thrive. Mayors of C40 cities are committed to using a science-based and people-focused approach to limit global heating in line with the Paris Agreement and build healthy, equitable and resilient communities. We work alongside a broad coalition of representatives from labour, business, the youth climate movement and civil society to support mayors to halve emissions by 2030 and help phase out fossil use while increasing urban climate resilience and equity.

To learn more about the work of C40 and our cities, please visit our [website](#) or follow us on [X](#), [Instagram](#), [Facebook](#) and [LinkedIn](#).

2. Summary, purpose and background of the project

2.1. Programme: Resilient Urban Futures

The “Resilient Urban Futures” (RUF) programme is a long-term global initiative designed to run from November 2025 to March 2030. The overall approach of the programme is based on directly strengthening urban climate resilience against the major impacts of flooding, droughts, and extreme heat, while protecting vulnerable populations and promoting sustainable urban development.

To remove systemic barriers to adaptation, the programme is structured around three strategic workstreams (Workstreams):

- **Workstream 1 – Enabling Action Implementation:** This workstream addresses the fundamental structural barriers to adaptation by integrating climate data, financing, land use, and local governance processes into urban planning tools.
- **Workstream 2 – Delivering Adaptation Actions:** This workstream provides targeted technical assistance to accelerate the on-the-ground deployment of priority adaptation actions, including sustainable urban water management, heat mitigation, and the development of Nature-based Solutions (NbS).
- **Workstream 3 – Raising Ambition & Scaling Delivery:** This workstream aims to build strong public and political momentum for resilience through peer-to-peer learning activities via dedicated networks, accelerator programmes, youth engagement, and global and regional communication campaigns.

Geographically, the RUF programme primarily focuses its interventions on the regions of Africa and Southeast Asia. It targets a network of 20 cities in total, among which 10 specific metropolises have been rigorously selected to receive deep-dive support. In Nairobi, rapid urbanization intersects with escalating climate hazards, particularly extreme heat, localized flash flooding, and water scarcity, which disproportionately impact frontline communities in informal settlements. To address these systemic barriers, the programme focuses on integrating climate data into urban planning tools and delivering targeted technical assistance.

2.2. Project: Nairobi Climate Hazard Mapping and Inclusive Vulnerability Assessment

Nairobi has experienced significant shifts in its climate over the past few decades, mirroring the broader warming trends seen across East Africa. Historical climate data indicates a steady increase in both average and extreme temperatures, resulting in a higher frequency of 'hot days' exceeding 30°C. Furthermore, Nairobi has witnessed a notable shift in precipitation patterns, characterized by an increase in the intensity and frequency of extreme rainfall events that trigger severe localized flooding. In fact, approximately 70% of disaster events in Kenya are now attributed to extreme hydro-meteorological weather. These escalating climate shocks act as risk multipliers, placing unprecedented strain on the city's infrastructure, public health systems, and economic stability.

The impacts of these climate hazards are profoundly uneven, disproportionately affecting Nairobi's most vulnerable populations. Residents of the city's informal settlements, such as Kibera, Mathare, and Mukuru, bear the brunt of these extremes due to entrenched structural inequalities. These settlements are frequently situated in ecologically sensitive and hazard-prone zones, such as low-lying floodplains, riparian corridors, and steep cliffs. The built environment in these areas, primarily characterized by high-density, poorly ventilated structures made of galvanized iron sheets, drastically exacerbates thermal stress and the urban heat island effect. Coupled with inadequate drainage, sanitation, and essential services, these communities are highly susceptible to climate-induced health crises, property destruction, and economic disruption, with women, children, and people with disabilities facing the highest intersectional risks.

In response to these escalating threats, Nairobi City County has engaged in foundational climate planning, which includes the development of its ambitious Climate Action Plan (CAP) 2020-2050 and the execution of a rapid Climate Change Risk Assessment (rapid CCRA). These initial efforts successfully established a high-level understanding of the city's greenhouse gas emissions and broader adaptation risks, positioning

Nairobi as a regional leader in climate action. The rapid CCRA was instrumental in identifying the major macro-level threats facing the city, such as city-wide flooding and overarching temperature increases, providing the necessary political momentum to kick start resilience planning.

Despite this critical early progress, the rapid nature of the previous CCRA particularly left significant spatial and socio-economic data gaps that currently hinder the implementation of targeted interventions. While macro-level assessments are useful for broad policy, they inherently lack the granular, micro-level GIS mapping required to identify hyper-local hazard hotspots down to the neighbourhood or block level. Furthermore, previous assessments often lacked a robust Inclusive Climate Action (ICA) lens, failing to adequately disaggregate vulnerability data to show how specific climate stressors intersect with gender-based inequalities, informal housing and labour dynamics, and health disparities. Without this highly localized and intersectional data, city planners cannot accurately prioritize where limited resources should be deployed or how infrastructure upgrades should be engineered for specific settlements.

To transition from high-level climate strategy to the delivery of bankable, on-the-ground adaptation projects, a highly detailed and spatially granular risk assessment is now an absolute necessity. By undertaking this detailed data and analysis exercise, Nairobi will bridge the critical gap between macro-level economic models, such as the "cost of inaction" scenarios developed by Stockholm Environment Institute and the lived realities of frontline communities. This enriched, micro-level evidence base will not only fulfil the requirements for the comprehensive 2027 CCRA update but will also directly inform immediate, life-saving policy interventions, including the upcoming Urban Heat Action Plan. Ultimately, this exercise ensures that Nairobi's future climate investments are deeply informed, scientifically robust, and unequivocally targeted to protect the city's most vulnerable residents.

2.3. Objectives

The primary objective of this assignment is to develop a highly granular, equity-centred spatial evidence base of climate hazards in Nairobi. This foundational data will support the city transition from a broad, macro-level climate awareness to being able to develop targeted, neighbourhood-level resilience interventions. Specifically, the consultant must:

- Identify and describe the most significant climate hazards currently affecting the city, comparing findings with the previous Rapid CCRA. This includes an assessment of historic trends for these hazards, incorporating details on seasonal and annual variability.
- **Undertake a detailed, downscaled hazard assessment:** Following the hazard identification, evaluate the probability, frequency, intensity, scale, and spatial distribution of these specific hazards (e.g., extreme urban heat, flash flooding, riverine inundation, and water scarcity) both currently and develop projections of how these indicators will potentially shift in the future (up to 2050) for each of these hazards. The consultant must ingest and downscale macro-level economic models ("cost of inaction" scenarios) from the Stockholm Environment Institute (SEI) and existing urban heat data from the WRI Cool Cities Lab, strictly avoiding the duplication of macro-level data gathering.
- **Produce micro-level, open-source GIS hotspot mapping:** Translate the current and future climate scenarios into high-resolution spatial maps that highlight where the hazards are currently being realised within the city and how this will change in the future. The maps must include a layer

indicating where vulnerable communities (e.g., informal settlements) and critical infrastructure (e.g., transport corridors, health facilities, and informal markets) are located to visualize overlaps and identify potential hotspots.

- **Conduct an inclusive, intersectional impact assessment:** Evaluate how the identified, localized climate hazards disrupt key urban systems and affect frontline communities currently and how this is likely to change in the future based on future climate projections. This includes a qualitative descriptive assessment of the impact each climate hazard has on identified vulnerable population groups (informal workforce, women, youth, outdoor workers, persons with disabilities) as well as critical urban infrastructure, applying a rigorous Inclusive Climate Action (ICA) lens.
- **Analyse the city's adaptive capacity:** Conduct a thorough evaluation of the factors that either inhibit or support Nairobi City County's adaptive capacity, including the County's institutional, infrastructural, and financial capacity to manage and mitigate the identified micro-level risks. This analysis must be structured to directly feed into and satisfy the baseline requirements for the city's comprehensive 2027 Climate Change Risk Assessment (CCRA) update.

Note: All work must be completed in line with the C40 July 2025 Climate Change Risk Assessment Guidance to ensure alignment with C40 standards and seamless integration into the 2027 CCRA.

2.4. Deliverables and Scope of Work

Deliverable 1: Inception Report, Methodology, & Data Integration Plan

- **Scope:** The consultant must provide a detailed articulation of their understanding of the RfP requirements and a comprehensive methodology for achieving the project work, which will be used for accountability and assessment throughout the mission. Crucially, the consultant must develop a formal "Data Integration Protocol." This protocol will outline the exact technical mechanism and timeline for importing the SEI macro-level economic scenarios and WRI heat maps, proving how the consultant will bridge this external data with their micro-level GIS mapping. The consultant must engage all different partners to ensure ongoing data & analysis undertaken by partners is collated to feed into the CCRA (including engaging WRI on their heat data as well as FSD Africa).
- **Output:** A comprehensive Inception Report including the Data Integration Protocol. This phase will conclude with a mandatory inception workshop involving C40, Nairobi City County climate focal points, FSD Africa (NCARP) representatives, and the UCAP CAI team to ensure all concurrent programs are fully aligned.

Deliverable 2: Detailed, Downscaled Hazard Assessment

- **Scope:** Evaluate the probability, frequency, intensity, scale, and spatial distribution of current and future climate hazards, including extreme urban heat, flash flooding, riverine inundation, and water scarcity. This must also include an assessment of historic trends and hazard variability.
- **Output:** A technical report detailing the findings of the downscaled hazard assessment.

Deliverable 3: Community & Stakeholder Engagement Strategy

- **Scope:** The consultant will develop a formal stakeholder and community engagement strategy to ensure the clear co-design and co-production of project methodology and outputs with key stakeholders and residents. This strategy must define the specific forms and outcomes of resident engagement, ensuring it directly informs how residents provide input into all subsequent assessments.
- **Output:** A comprehensive Engagement Strategy document and a Stakeholder Map, ensuring local perspectives are integrated into the technical delivery.

Deliverable 4: Micro-Level GIS Hazard Maps & UCAP CAI Handover

- **Scope:** Building on the hazard findings identified in the Detailed, Downscaled Hazard Assessment (Deliverable 2), the consultant will generate localized, high-resolution spatial hazard maps that highlight 'hazard risk hotspots' for current and future climate hazards. These maps must include distinct, overlayable layers for thermal hotspots, flood inundation zones, natural drainage pathways, and vulnerable socio-economic infrastructure (e.g., tin-roof densities, informal markets).
- **Output:** A complete suite of digital maps and raw geospatial files (e.g., Shapefiles, GeoJSON) that are fully compatible with open-source software (like QGIS) to prevent vendor lock-in.
- **Critical Dependency:** The consultant must conduct a formal, documented "Data Handover Workshop" to directly transfer the heat-specific spatial data to the UCAP CAI team, ensuring the maps are "decision-ready" for emergency response planning.

Deliverable 5: Inclusive Vulnerability & Impact Assessment Report

- **Scope:** This assessment must be co-designed with residents, following the strategy developed in Deliverable 3. The consultant will draft a narrative and analytical report that cross-references the GIS hazard maps developed in Deliverable 3 with demographic and socio-economic realities on the ground. Applying a strict Inclusive Climate Action (ICA) framework, the consultant must disaggregate the data to articulate specific burdens. For example, the report must detail how extreme heat disproportionately impacts female market vendors, or how flash flooding threatens the physical safety and sanitation access of PWDs in riverine settlements. The consultant is strongly encouraged to integrate qualitative, community-grounded data (e.g., utilizing existing enumeration data from groups like SDI/Muongano wa Wanavijiji) alongside the quantitative GIS data.
- **Output:** A comprehensive, heavily visualized Impact Assessment Report highlighting hyper-local vulnerabilities, intersectional equity metrics, and economic risks to the informal sector for current day hazards, with an assessment of how these impacts will likely change based on future climate projections.

Deliverable 6: Adaptive Capacity Analysis & Final CCRA Baseline Package

- **Scope:** The final phase requires the consultant to evaluate Nairobi's current policy frameworks, disaster response mechanisms, and infrastructural readiness to handle the hazards mapped in Deliverables 3 and 4. The consultant must then package the entirety of the project's outputs (reports, methodologies, and raw data) into a consolidated framework.
- **Output:** 1. A final synthesized report detailing the city's adaptive capacity, specifically flagging factors that both support and hinder the city's ability to adapt, and immediate risk reduction priorities. 2. The "CCRA Baseline Package": A structured, organized digital repository containing all raw datasets, shapefiles, and economic risk models, formatted to explicitly meet C40's Leadership

Standards for the upcoming 2027 full CCRA update. 3. A final executive presentation delivered to the Nairobi City County Climate Change Steering Committee.

3. Proposal guidelines

This Request for Proposal represents the requirements for an open and competitive process. Proposals will be accepted until **August 14, 2026, 5pm GMT**. Any proposals received after this date and time will not be accepted. All proposals should include clear timetables, how you will work with C40, clear costs and detail on experience in this area.

The proposal should give C40 evaluators all the information they need to assess your bid. Please clearly indicate where applicable:

- How your proposal is responsive to the Evaluation Criteria;
- A summary of your understanding of the Nairobi project and the specific scope of work regarding SEI and UCAP CAI integration;
- Proposed working partnership with C40, including project governance, key roles, and escalation procedures;
- Proposed timeline of implementation outlining milestones;
- Information about your fee, detailing costs for each deliverable;
- The assumptions you are making about the project, identified risks, and appropriate mitigation measures;
- Resumes of proposed key personnel (limited to two pages per person) demonstrating GIS and socio-economic expertise;
- Examples of 3 or more similar technical mapping/assessment projects;
- Suppliers must submit at least two reference letters or recommendation letters from projects completed within the past 3 years as part of their proposal.
- Information about the organisation's commitment to equity, diversity and inclusion.
- Information on data protection: C40 is subject to European Union and United Kingdom data protection regulations and the winning proposal must ensure its continued compliance. If the execution of the project requires the processing or control of personally identifiable information (PII), please describe your knowledge and ability to comply with Directive 95/46/EC and the General Data Protection Regulation (GDPR).

Supplier diversity

C40 is committed to supplier diversity and inclusive procurement through promoting equity, diversity and inclusivity in our supplier base. We believe that by procuring a diverse range of suppliers, we get a wider range of experiences and thoughts from suppliers and thus are best able to deliver to the whole range of our diverse cities and the contexts that they operate within.

We strongly encourage suppliers (individuals and corporations) that are diverse in size, age, nationality, gender identity, sexual orientation, majority owned and controlled by a minority group, physical or mental ability, ethnicity and perspective to put forward a proposal to work with us.

Feel welcome to refer to C40's [Equity, Diversity and Inclusion Statement](#). Supplier diversity and inclusive procurement is one element of applying equity, diversity and inclusion to help deliver the goals of the Paris Agreement and build healthy, equitable and resilient communities.

Contract

Please note this is a contract for professional services and not a grant opportunity. Organisations unable to accept contracts for professional services should not submit bids. The work will be completed on the [C40 Standard Services Contract](#).

These terms and conditions are accepted as drafted by the majority of our suppliers and we reserve the right to penalise your bid on the basis of non-acceptance of terms. If you do wish to include any requested amendments with your proposal, please do not mark up the document in tracked changes but provide [a separate negotiation document](#) for review setting out clearly your rationale for the change.

If C40 is unable to execute a contract with the winner of this competitive process, we reserve the right to award the contract to the second highest Potential Supplier.

Subcontracting

If the organisation submitting a proposal needs to subcontract any work to meet the requirements of the proposal, this must be clearly stated. All costs included in proposals must be all-inclusive of any outsourced or contracted work. Any proposals which call for outsourcing or contracting work must include a name and description of the organisations being contracted.

4. RfP and project timeline

RfP timeline	Due date
Request for Proposals sent	July 24, 2026
Questions submitted to C40	August 6, 2026
C40 responds to questions	August 7, 2026
Deadline for receiving Offers	August 14, 2026, 5:00pm GMT
Clarification of Offers	August 17–August 20, 2026
Evaluation of Proposal	August 19–August 25, 2026
Presentation of Proposal	August 27, 2026
Selection decision made	August 27, 2026
All Potential Suppliers notified of outcome	August 27, 2026

Project timeline	Due date
Kick-off Workshop	September 10, 2026
Deliverable 1: Inception & SEI Data Integration Plan:	October 1, 2026
Deliverable 2: Detailed, Downscaled Hazard Assessment:	October 28, 2026
Deliverable 3: Community & Stakeholder Engagement Strategy:	November 20, 2026
Deliverable 4: Micro-Level GIS Hazard Maps & UCAP CAI Handover:	December 18, 2026
Deliverable 5: Inclusive Vulnerability & Impact Assessment Report:	January 27, 2027
Deliverable 6: Adaptive Capacity Analysis & Final CCRA Baseline Package/Mission Closure:	February 26, 2027

5. Proposal evaluation criteria

Proposals will be evaluated against the following criteria.

Following the evaluation of written submissions, C40 reserves the right to invite a shortlist of the highest-ranked bidders for an interview or technical presentation to further validate their proposals. If conducted, the results of these sessions will be incorporated into the final technical score as outlined in the evaluation criteria.

Evaluation criteria	Weighting
Robustness of the project delivery proposal and ability to meet the requirements listed (The overall strength of the methodological approach (downscale macro-data to micro-GIS maps, integrate third-party SEI/WRI data, and apply a strict Inclusive Climate Action lens) and its capacity to meet all technical requirements outlined in the project scope).	30%
Capability, experience, and availability of the proposed team, and knowledge of the local context (The qualifications, technical expertise, and availability of the proposed team, including their client references and deep understanding of Nairobi's specific local challenges).	40%
Cost Reasonableness measured by: • Economy: minimising the cost of resources used / spending less • Efficiency: the relationship between the output from goods / services and the resources to produce them • Effectiveness: the relationship between the intended and actual results • Equity: the extent to which services reach the intended recipients fairly	20%

Alignment with C40's goals on greenhouse gas emission reduction, Commitment to equity and diversity (Strategic fit with C40's climate change goals, alongside an explicit organizational commitment to equity, social inclusion, and diversity).	10%
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6. Project budget

All proposals must include the estimated costs for the completion of all tasks described in the project scope of work, VAT and all taxes included. The total cost must not exceed a maximum contract envelope of USD 30,000. Potential suppliers must provide a detailed and transparent breakdown of their budget. The financial offer must present a clear budget allocation for each of the 4 major deliverables of the project.

Costs should be stated as one-time or non-recurring costs or monthly recurring costs. All costs incurred in connection with the submission of this RfP are non-refundable by C40.

Payment will be made upon the completion and validation of the key milestones of the project by the C40 point of contact and the City of Nairobi. No travel, field mapping, or workshop expenses will be reimbursed separately. All operational expenses and local taxes must be fully integrated into the global financial offer of the consultant. Contract payments will be released according to the following key milestone schedule:

Key Project Milestone / Deliverable	Payment Percentage
Signature of contract and submission of the inception report (Deliverable 1)	20%
Approval of Deliverable 2 (Micro-Level GIS Hazard Maps)	30%
Approval of Deliverable 3 (Inclusive Vulnerability & Impact Assessment)	30%
Approval of Deliverable 4 (Adaptive Capacity Analysis & Final Handover/Mission Closure)	20%

7. C40 policies

C40 expects third parties to be able to abide by these C40 policies

- Non-Staff Code of Conduct Policy [here](#)
- Equity , Diversity and Inclusion Policy [here](#)
- [C40 Non-Staff Travel and Expenses Policy - if applicable - [here](#)]
- [GIZ Travel and Expense Policy - If applicable - [here](#)]

8. Submissions

Each Potential Supplier must submit **one copy of their proposal** to the email address below by

August 14, 2026, 5:00pm GMT:

Susan Masila, Climate Resilience Advisor - Nairobi, smasila@c40.org

Kirsty Griffin, Senior Technical manager, Adaptation Planning, kgriffin@c40.org

Anonymised responses to questions will be provided here ([Q&A](#)) when the Q&A period closes.

Based on the submissions received, C40 reserves the right to promote the establishment of consortium relationships or request potential suppliers refine their submission after receipt.

Have a concern?

C40 is committed to the highest standards of ethical behaviour. As such, we are committed to being open and responsive to complaints and suggestions on how we can improve from outside the organisation. Please refer to [C40 Complaints Procedure](#) on how to reach us.

Disclaimer

C40 will not accept any liability or be responsible for any costs incurred by Potential Suppliers in preparing a response for this RFP. Responses submitted will be accessible by all C40 staff and external evaluators (if any).

Neither the issue of the RFP, nor any of the information presented in it, should be regarded as a commitment or representation on the part of C40 (or any of its partners) to enter into a contractual arrangement. Nothing in this RFP should be interpreted as a commitment by C40 to award a contract to a Potential Supplier as a result of this procurement, nor to accept the lowest price or any tender.