



GLOBAL
CENTER ON
ADAPTATION

AFRICA ADAPTATION ACCELERATION PROGRAM



DOUBLING DOWN ON ADAPTATION IN AFRICA

Doubling down on adaptation in Africa is not just an option—it's an absolute necessity if the continent is to unlock its full potential in the face of climate change. Yet despite the critical role that climate finance plays in underpinning broader development goals, African nations continue to face an annual **adaptation funding gap of US \$41 billion**, according to research undertaken by the Global Center on Adaptation (GCA).

In response, the **Africa Adaptation Acceleration Program (AAAP)**—co-designed by the African Development Bank and GCA and endorsed by the African Union—aims to climate-proof US \$25 billion worth of investments by 2025, fast-tracking resilience measures across the continent. Since its launch in January 2021, GCA's technical support under the AAAP Upstream Financing Facility has already helped shape more than **US \$18 billion** in investments backed by international financial institutions, protecting over **112 million** of Africa's most climate-vulnerable people in **40 countries**. Working with the International Monetary Fund (IMF) through its Resilience and Sustainability Facility, GCA is guiding policy and sector reforms that embed adaptation within national strategies, while the **Africa Adaptation Business Platform**—launched in partnership with the World Economic Forum—is forging alliances between private corporations and African financial institutions to unlock new streams of adaptation finance.

When Africa adapts, the world benefits.

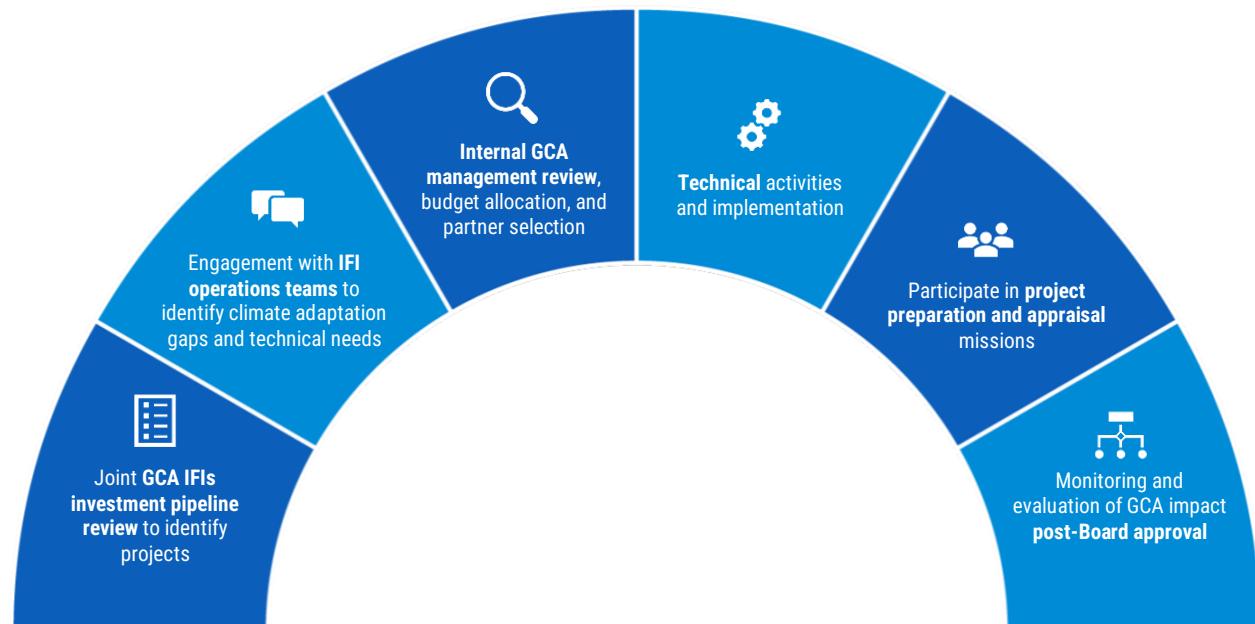
AAAP UPSTREAM FINANCING FACILITY OPERATING MODEL: SCALING CLIMATE ADAPTATION SOLUTIONS

GCA works with International Financial Institutions—including the African Development Bank, the World Bank and the IMF—as well as a range of public and private partners to scale up climate adaptation solutions by providing upstream project preparation and technical assistance, advising on policy and regulatory reforms that embed resilience into national and sectoral planning, structuring blended-finance facilities to de-risk and crowd in private capital, developing and disseminating high-resolution climate data and decision-support tools for evidence-based investments, and catalyzing innovative partnerships that mobilize new sources of funding for adaptation across Africa.

 Mainstreaming climate adaptation in IFI investment projects	 Enabling direct access to global climate finance	 Scaling domestic private sector participation on climate adaptation	 Supporting financial system policy reform
<p>The AAAP Upstream Financing Facility provides climate adaptation advisory support in the design and implementation of investment projects financed by the African Development Bank and other IFIs. It builds capacity within national institutions so as to scale and amplify impact.</p>	<p>In partnership with the Green Climate Fund, the AAAP Upstream Financing Facility works directly with national institutions to develop and refine robust funding proposals—unlocking much-needed adaptation finance and accelerating resilience building on the ground.</p>	<p>The AAAP Upstream Financing Facility helps financial institutions—including national banks—integrate climate resilience into their portfolios by stress-testing assets, developing bespoke risk-screening tools, and mapping high-growth adaptation markets. It also empowers adaptation entrepreneurs with technical assistance and capacity building, enabling them to scale their businesses and bring innovative resilience solutions to market.</p>	<p>The AAAP Upstream Financing Facility supports the IMF in designing climate adaptation policy reform measures through its Resilience and Sustainability Facility.</p>

HOW GCA WORKS WITH IFI PARTNERS TO SHAPE ADAPTATION INVESTMENTS

GCA works with multilateral development banks and both public and private development finance institutions to embed robust climate adaptation measures throughout their investment portfolios. By advising on project design, policy frameworks, and risk management, we ensure that every initiative not only anticipates future climate impacts but also delivers scalable, lasting resilience benefits across sectors and regions.



LEVERAGING MILLIONS TO INFLUENCE BILLIONS

Through the AAAP, GCA and the African Development Bank are climate-proofing US \$25 billion of investments by 2025—accelerating climate adaptation across Africa and advancing the UN Sustainable Development Goals through four interlinked priority areas:

- 1. Food Security:** The goal is to shape at least **\$10 billion** in investments for climate-smart agriculture and resilient food systems for **38 million farmers and herders in 26 African countries**.
- 2. Infrastructure and Nature-Based Solutions:** The goal is to mainstream innovative climate resilience solutions, including nature-based solutions, into **\$12 billion** worth of investments in infrastructure for water, transport, energy, and urban systems. This will ensure climate-resilient infrastructure assets and services for **100 million people**.
- 3. Youth Entrepreneurship and Adaptation Jobs:** The goal is to support **one million young people** with entrepreneurship skills and create **five million adaptation jobs** through IFI investments worth over **\$2 billion**.
- 4. Adaptation Finance:** The goal is to unlock access to **\$1 billion** in climate adaptation finance. This will be achieved through the design of innovative public and private financial instruments and solutions that include structuring resilience bonds and debt-for-resilience swaps, influencing IFI investments for the financial sector, and by developing mechanisms for designing bankable adaptation investments and monetization of relevant adaptation benefits.

Since its launch in January 2021, the **AAAP Upstream Financing Facility**—managed by GCA—has been the engine behind climate-proofing investments across Africa. By bringing the best available science, data and technical expertise to national governments, regional bodies and financial institutions, the Facility helps design and mainstream adaptation into projects financed by the African Development Bank, the World Bank, the Green Climate Fund and other IFIs. It underwrites GCA and its implementation partners—many of them African institutions—to deliver research, monitoring, knowledge-sharing and policy support, while building local capacity to drive transformational adaptation on the ground. To date, this catalytic facility has shaped US \$18 billion in resilience investments that will protect over 112 million people—and every US \$1 committed to the Facility helps climate-proof US \$100 of future investment, ensuring that Africa's adaptation solutions are both scalable and sustainable.



AAAP UPSTREAM FINANCING FACILITY RESULTS AND EXPECTED IMPACT



Gates Foundation



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ÉTRANGÈRES
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AFRICAN DEVELOPMENT BANK GROUP



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THE WORLD BANK
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European
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IFAD
Investing in rural people

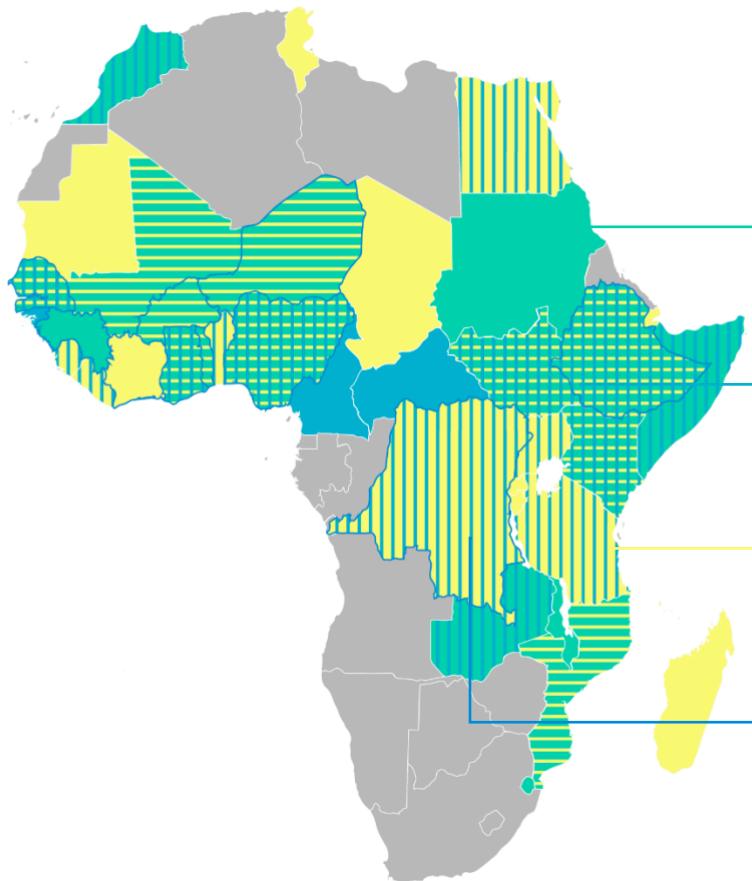
AFD
AGENCE FRANÇAISE
DE DÉVELOPPEMENT

INTERNATIONAL
MONETARY FUND

European Bank
for Reconstruction and Development

AAAP UPSTREAM FINANCING RESULTS AND EXPECTED IMPACT PER PILLAR

Over less than three years the AAAP Upstream Financing Facility has achieved the following results and expected impact in each priority area.



	Investments Influenced	Countries Worked In	Expected Number of People Benefitting
FOOD SECURITY	\$5 billion	25	18.7 million
YOUTH ENTREPRENEURSHIP & ADAPTATION JOBS	\$1.4 billion	14	1.2 million
INFRASTRUCTURE & NATURE-BASED SOLUTIONS	\$11.5 billion	26	92.4 million
CLIMATE ADAPTATION FINANCE	\$0.3 billion	14 Direct Access Entities in 10 countries supported to enable direct access to global climate finance	



Program to Build Resilience for Food and Nutritional Security in the Horn of Africa



GCA is supporting the **\$226 million Program to Build Resilience for Food and Nutritional Security in the Horn of Africa**. Financed by the African Development Bank, this investment program's goal is to improve peace and security in the region by enhancing resilience to climate shocks. This reduces conflicts that arise from resources made more scarce by climate change. It also enhances food security and living conditions in six countries in the Horn of Africa.

Under this project, GCA is partnering with the Alliance of Bioversity International and the International Center for Tropical Agriculture (CIAT) to **provide technical assistance**. **This includes developing toolkits and building capacity in Kenya and Djibouti, promoting the uptake of the most promising digital technologies** to build the resilience of smallholder farmers. These toolkits will, in turn, influence AfDB investment which extends to cover Ethiopia, South Sudan, Sudan, and Somalia.



INVESTMENT VALUE INFLUENCED BY GCA
\$226 million



EXPECTED NUMBER OF PEOPLE BENEFITTING
1.3 million people
in the Horn of Africa



IMPLEMENTATION PERIOD
2022-2026



KEY PARTNERS



GCA'S ADDED VALUE

GCA's technical assistance and support include:

- Identifying agriculture adaptation constraints that can be solved using digital technologies
- Assessing conditions and opportunities for digital applications for drought index insurance
- Preparing climate risk and digital agriculture profiles
- Helping stakeholders identify and implement opportunities through a digital agricultural adaptation toolkit
- Building the capacity of policymakers to ensure uptake of digital solutions using the toolkit
- Engaging with the African Development Bank and beneficiary countries to support the feasibility study and technical design of Digital Climate Advisory Services in three countries.

EXPECTED OUTCOMES

Through this investment project, the following outcomes are expected:

- 1.3 million farmers and pastoralists using climate services where 15 million livestock are benefiting
- 30% increase in agricultural productivity with 30% increase in annual income
- 30% increase in uptake of climate risk financing and insurance solutions
- 55,000 jobs created for youth and women
- 170,000 hectares cultivated using digital climate-enabled solutions



Livestock Productivity and Resilience Support Project in Nigeria

In Nigeria, GCA is supporting the World Bank's \$500 million Livestock Productivity Resilience Support project. The investment project's goal is to **improve the productivity of the livestock value chain for over 1.4 million people to mitigate the causes of farmer-herder conflicts** in selected states in Nigeria. The project is increasing livestock productivity, improving food and nutrition security, encouraging income growth, and building social cohesion among communal groups. This boosts livestock resilience and helps to minimize environmental degradation and emissions.

GCA is providing **technical assistance to ensure the investment takes climate change into account by incorporating digital tools** for adaptation into the livestock chain in Nigeria. GCA is conducting climate risk assessments so that interventions are well-targeted and contribute to the overall resilience and food security of the population. GCA is using the AAAP Smallholder Adaptation Accelerator, an analytical tool to help influence decision-making around adaptation, to integrate digital climate services into the investment project.



INVESTMENT VALUE
INFLUENCED BY GCA
\$500 million



EXPECTED NUMBER OF
PEOPLE BENEFITTING
1.43 million people
in Nigeria and
45 million livestock



IMPLEMENTATION PERIOD
2022-2028

KEY PARTNER



GCA'S ADDED VALUE

GCA's technical assistance and support include:

- Assessing climate risk and incorporating digital solutions for adaptation in the livestock sector into the project's design
- Identifying opportunities, constraints, and entry points for investments to promote climate adaptation across livestock value chains
- Establishing an inventory of existing and viable digital tools and climate-smart digital agriculture solutions and platforms that are applicable to the livestock sector
- Developing a micro-region rural risk typology to establish a climate risk map of smallholder livestock in the country

EXPECTED OUTCOMES

Through this project the following outcomes are expected:

- Supporting 45 million livestock benefiting from digital climate adaptation solutions, supporting 1,430,000 individuals
- 200,000 farmers adopting improved agricultural technologies (50% female).
- 150,000 hectares of grazing area transitioned to sustainable land management practices.
- 60 livestock infrastructure systems rehabilitated with climate and disaster-resilient practices
- 150,000 farmers adopting climate smart technologies



Ethiopia Food Systems Resilience Program

GCA is working with the World Bank Group to build the climate resilience of food systems in Ethiopia under the **\$600 million Ethiopia Food Systems Resilience Program**. The project is active in nine regional states and two city administrations in Ethiopia, and focuses on cereals, pulses, horticulture and coffee, oil seeds, and livestock value chains. The project improves the enabling environment for food system resilience, develops the food market, ensures that small-scale irrigation development and management is resilient, and promotes transformative agricultural services and innovation systems.

In collaboration with the International Maize and Wheat Improvement Center (CIMMYT), GCA is providing **technical assistance and support for project implementation in agricultural value chains to climate-proof the program investments**. GCA's support includes focusing on deploying digital adaptation tools to address climate risk.



INVESTMENT VALUE
INFLUENCED BY GCA
\$600 million



EXPECTED NUMBER OF
PEOPLE BENEFITTING
1.6 million households
in Ethiopia



IMPLEMENTATION PERIOD
2023-2029

KEY PARTNERS



GCA'S ADDED VALUE

GCA's technical assistance and support include:

- Mapping 14 value chains identified by the World Bank Group and Ethiopia to assess climate risks for smallholders in crop/livestock sub-sectors
- Assessing opportunities and constraints related to deploying digital adaptation tools to address issues identified in the value chains.
- Further developing and updating the Ethiopian Digital Agro-climate Advisory Platform and testing the extended platform
- Providing recommendations for policy and investment to scale up
- Conducting an ex-ante analysis of the required investment to deploy the services

EXPECTED OUTCOMES

Through this investment project, the following outcomes are expected:

- 2.4 million farmers adopt resilience-enhancing technologies and practices (30% female)
- 15% reduction in food-insecure people in program-targeted areas
- 20% increase in yields of targeted crops in targeted households.
- 25% increase in volume of agricultural products sold.



Kenya–South Sudan Corridor Road Upgrading Project



**INVESTMENT VALUE
INFLUENCED BY GCA
\$223 million**



**EXPECTED NUMBER OF
PEOPLE BENEFITTING
3.5 million citizens**
from bordering inhabitants



**IMPLEMENTATION PERIOD
2023-2027**

KEY PARTNERS



AFRICAN DEVELOPMENT BANK GROUP

In Kenya, GCA is supporting the \$223 million Kenya-South Sudan Link Road Upgrading Project financed by the African Development Bank. The investment project is upgrading sections of the Kenya to South Sudan road corridor, which forms a critical trade route between Kenya and South Sudan.

The project focuses on the Lesseru–Kitale (55km) and Morpus–Lokichar (138km) sections of the corridor. The corridor interconnects Kenya and South Sudan across the Rift Valley, Kenya's most populated province and a food basket for the country, producing maize and other crops. Improved connectivity will promote uninterrupted trade and communication between Kenya and South Sudan, boost export-oriented agricultural development, and contribute to the economic and social empowerment of the local population.

GCA is providing technical assistance to integrate grey and green climate adaptation solutions into the road project, with a focus on climate-informed operations and maintenance and nature-based solutions. Climate risk analysis and options for identifying climate adaptation opportunities are coordinated with project stakeholders. This includes the African Development Bank, Kenya National Highway Authorities, and Kenya Forest Service. GCA's intervention is providing actionable options to improve the corridor's resilience to climate change and inform technical standards for design and assets management at the national scale.

GCA'S ADDED VALUE

GCA's technical assistance and support include:

- Assessing climate hazards such as extreme heat, flooding and landslides; and quantifying associated risks to planned transport assets, which amount to approximately \$71.5 million/year in 2050 for the mean RCP8.5 scenario
- Identifying and appraising relevant adaptation and resilience options with potential value addition ranging from \$1.3 to \$8.7 per dollar spent on these solutions
- Strengthening capacity through the University of Nairobi to mainstream resilience for transport infrastructure planning, design, and operations

EXPECTED OUTCOMES

Through this project the following outcomes are expected:

- 193 kilometers of resilient, refurbished road
- 500 additional traders (60% women) utilizing improved market facilities
- 7,200 direct jobs created (30% women)
- The development of a Kenya–South Sudan Trade Facilitation Strategic program



Liberia Urban Resilience Project



INVESTMENT VALUE
INFLUENCED BY GCA
\$40 million



EXPECTED NUMBER OF
PEOPLE BENEFITTING
200,000 people
(50% women) in Greater
Monrovia, Buchanan,
Gbarnga, and Ganta



IMPLEMENTATION PERIOD
2022-2028

KEY PARTNERS



GCA is supporting **Locally Led Adaptation efforts to inform the design of the World Bank's \$40 million Liberia Urban Resilience Project** in Greater Monrovia and three secondary cities (Buchanan, Gbarnga and Ganta). The investment project will increase flood resilience and access to urban infrastructure in vulnerable informal neighborhoods. It is enhancing the climate resilience of these communities. Concurrently, the project is strengthening municipal and institutional capacities in Liberia, improving integrated urban management.

GCA is **providing technical assistance to the project by integrating community-driven design into the climate risk profiling and enumeration process in urban informal settlements of Greater Monrovia and the three secondary cities**. This is achieved by developing a community engagement strategy and offering suggestions on integrating community involvement at key points in the project cycle.

GCA'S ADDED VALUE

GCA's technical assistance and support include:

- Community-driven risk profiling and enumeration of neighborhoods in Northern Bushrod and South-eastern Paynesville
- The development of a community engagement strategy to guide World Bank-financed climate adaptation projects, based on prior community-driven enumeration efforts

EXPECTED OUTCOMES

Through this project the following outcomes are expected:

- Integrated understanding of climate hazards and risks in 15 communities in Southern Paynesville and 37 in Northern Bushrod Island in Monrovia, informing project implementation
- Strengthened capacity for Government of Liberia staff to engage with local communities on adaptation issues and conduct community-driven risk enumeration and profiling.
- 200,000 people benefiting from improved urban infrastructure
- 340 hectares of area protected from flooding



Kampala-Malaba Metre-Gauge Railway Refurbishment Project

GCA is working with the African Development Bank, Uganda Railways Corporation, and the World Wide Fund for Nature (WWF) on **climate-proofing critical upgrades to the Kampala-Malaba Metre-Gauge Railway in Uganda**. The goal of GCA's technical support is to reduce climate risk for railway assets by designing and integrating grey and green adaptation solutions, including Nature-based Solutions.

The investment will rehabilitate the existing 271 kilometers of the Metre-Gauge Railway Kampala-Malaba and Port Bell-Kampala-Kyengera lines, connecting Uganda along Lake Victoria with the Kenyan rail network at Malaba by the Uganda-Kenya border. These upgrades will provide a direct link to the Port of Mombasa, enhancing transportation and trade, and boosting cost-effectiveness.

GCA is **evaluating climate risks for the investment and identifying grey and green adaptation options, with a focus on Nature-Based Solutions (NBS)**. Through GCA's support, the project will better address climate risks such as extreme temperatures and flooding. Potential NBS interventions will be implemented with support from WWF to ensure the long-term resilience of the infrastructure and relevant co-benefits for communities and natural ecosystems.



**INVESTMENT VALUE
INFLUENCED BY GCA**
\$413 million



**EXPECTED NUMBER OF
PEOPLE BENEFITTING**
1.2 million people,
including about
480,000 women



IMPLEMENTATION PERIOD
2022-2027

KEY PARTNERS



GCA'S ADDED VALUE

GCA's technical assistance and support include:

- Quantifying climate hazards such as flooding and extreme temperature, and quantifying damages on assets, services, and people as \$3.7 million and \$3.9 million per year in 2050 under a moderate warming scenario and highest emissions scenario respectively
- Identifying and appraising relevant green and grey adaptation and resilience options, which will reduce railway downtime from 16.0 days to 3.4 days for the moderate warming scenario and 19.1 to 4.7 days for the highest emissions scenario in 2050
- Developing the investment case for the Mpologoma watershed, in collaboration with WWF, to reduce peak flooding in the area
- Building capacity through the Masterclass on Climate Resilient Infrastructure in collaboration with the University of Nairobi

EXPECTED OUTCOMES

Through this project the following outcomes are expected:

- 271 kilometers of resilient railway lines climate-proofed
- 2 million people benefiting from improved transportation of goods and passenger travel, including 480,000 women
- 700 permanent jobs created, with 40% of jobs given to women



African Youth Adaptation Solutions Challenge (YouthADAPT)

The **Youth Adaptation Solutions Challenge (YouthADAPT)** is an annual competition and awards program that supports youth-led enterprises with innovative climate adaptation and resilience solutions. Every winner receives a \$100,000 grant, enabling them to expand their businesses. The winners also get support through a 12-month accelerator program.

The YouthADAPT Challenge was launched in 2021, with significant impact. **The 2021 cohort created 8,512 direct and indirect jobs, trained over 12,000 small-holder farmers, and recorded a 123% surge in revenue.** For the 2022 cohort, GCA selected 20 winners out of 3,700 applications from 51 African countries. The winners were selected from 13 countries, with over 50% representation of female-led businesses. Preliminary results from the 2022 cohort include the creation of 351 jobs (158 direct and 193 indirect), training of 11,128 small holder farmers and unlocking over €700,000 in additional funding.

The YouthADAPT Challenge winners develop adaptation solutions in agriculture, water, waste management and digital. These young entrepreneurs demonstrate the potential to create adaptation jobs while protecting communities from the worst impacts of climate change.



EXPECTED NUMBER OF PEOPLE BENEFITTING
30,000 smallholder farmers, and 250,000 people



IMPLEMENTATION PERIOD
2022-2023

KEY PARTNERS



GCA'S ADDED VALUE

GCA's technical assistance and support include:

- Capacity Building and Training:** Develop training materials and deliver training workshops to equip selected youth-led startups with practical skills in entrepreneurship and climate adaptation mainstreaming
- Mentorship and Coaching:** Provide professional mentorship, empowering them to execute their business plans, create jobs, and support continental efforts towards climate resilience
- Grant Funding:** Provide grant support of up to \$100,000 to support growth and facilitating linkages with potential investors for longer term growth

EXPECTED OUTCOMES

Through this project the following outcomes are expected:

- Inculcate an ecosystem of domestic enterprises providing adaptation goods and services
- Create 20,000 direct and indirect jobs
- Train 30,000 smallholder farmers on climate adaptation



Nigeria – Special Agro-Industrial Processing Zones Program

In Nigeria, GCA is working with the African Development Bank on the \$538 million **Special Agro-Industrial Processing Zones Program**. The program supports the economic and social development programs of the Nigerian government. It contributes to the development of rural infrastructure, improved access to agricultural markets, increased farm productivity, and the promotion of agricultural technology, agribusiness, and job creation.

The key development objectives are to sustainably contribute to poverty alleviation, reducing hunger and inequality. The program also addresses constraints to agribusiness competitiveness by furthering opportunities for economic diversification, job creation, building climate resilience and improved livelihoods.

GCA's intervention is **ensuring that 30% of the jobs created through the project are in climate adaptation**. This includes recommendations to support climate adaptation-focused entrepreneurs in upscaling and boosting youth entrepreneurship. Technical inputs include feasibility studies and assessment of job opportunities in adaptation, as well as the skills required for these new adaptation jobs to support skills development.



INVESTMENT VALUE
INFLUENCED BY GCA
\$538 million



EXPECTED NO. OF
BENEFICIARIES
1,500,000 households
from Nigeria



IMPLEMENTATION PERIOD
2022-2027

KEY PARTNERS



AFRICAN DEVELOPMENT BANK GROUP

GCA'S ADDED VALUE

GCA's technical assistance and support includes:

- Feasibility studies and assessment of job opportunities in climate adaptation within the program, to identify and measure possible adaptation jobs that can be created through the program.
- Assessment of skills required for new adaptation jobs to support skill development program components.

EXPECTED OUTCOMES

The following outcomes are expected through this project:

- 500,000 jobs created (100,000 Direct/400,000 indirect)
- 30% adaptation jobs created through the project (expected to be 150,000 jobs)
- 10,000 Small and Medium Sized Enterprises supported



Enhancing Direct Access for Adaptation Finance in Senegal

GCA support is **reducing barriers to large-scale access to multilateral climate funds in Africa and significantly increasing the flow of adaptation finance** to the region. While multilateral climate funds like the Green Climate Fund hold unique potential with high risk-taking capacity to finance large-scale adaptation projects, country institutions often lack an understanding of how to develop robust, evidence-based funding proposals and concept notes.

In Senegal, GCA is working with the Centre de Suivi Ecologique (CSE), La Banque Agricole (LBA), Fonds de Garantie des investissements Prioritaires (FONGIP), and Le Fonds Souverain d'Investissements Stratégiques (FONSIS) to enable direct access to the GCF. The Center's support to FONGIP and FONSIS has included developing a comprehensive gap assessment, identifying a substantial need for **the development of different policies, procedures, and strategies to meet GCF accreditation standards**. GCA is providing technical support to help update these documents and management procedures.

With CSE, GCA's support starts with technical assistance for re-accreditation to the GCF. In parallel, GCA is providing **technical support to CSE and LBA to identify project concepts that will be developed into funding proposals**. These include initiatives to enhance smallholder farmers' resilience in Southern and Eastern Senegal through agroforestry systems.



TARGET INVESTMENT
VALUE INFLUENCED BY GCA
\$200 million



IMPLEMENTATION PERIOD
2023-2025

KEY PARTNERS



Centre de Suivi Ecologique



GCA'S ADDED VALUE

GCA's technical assistance and support include:

- Providing tailored guidance and technical support to streamline the accreditation and reaccreditation processes for Direct Access Entities in Senegal
- Capacity building to develop high-quality adaptation concept notes
- Strengthening the technical and operational capacity of CSE, LBA, FONGIP and FONSIS, enabling them to effectively navigate the GCF accreditation process and access adaptation finance at scale

EXPECTED OUTCOMES

Through this project the following outcomes are expected:

- Develop four adaptation concept notes to be submitted to GCF
- Goal to mobilize over \$1 billion million in funding for adaptation initiatives
- Improve institutional and technical capacity to implement innovative financial instruments
- Enhance the credibility of national entities in the eyes of stakeholders such as investors, donors, and international organizations



Unlocking Adaptation Finance with the Ghana Infrastructure Investment Fund

Climate change is already having significant impacts in Ghana. Studies show that temperatures for all ecological zones are rising while rainfall levels and patterns have been reducing and becoming increasingly erratic. Available data also shows a sea-level rise of 2.1 mm per year over the last 30 years, indicating a rise of 5.8 cm, 16.5 cm and 34.5 cm by 2020, 2050 and 2080, respectively.

With these growing concerns, the government of Ghana gives high priority to climate adaptation strategies. In 2015, it submitted its first *Nationally Determined Contribution (NDC)* to the United Nations Framework Convention on Climate Change. Ghana requires between \$9.3 and \$15.5 billion of investment to implement the 47 NDC measures from 2020 to 2030. A total of \$3.9 billion would be required to implement the 16 unconditional programs of action through 2030. The remaining \$5.4 billion for the 31 conditional programs would be mobilized from public, international, and private sector sources and carbon markets. While mobilizing substantial domestic funding, Ghana relies on international support to achieve its 2030 contributions.

In order to diversify its channels for the delivery of climate finance and to strengthen national ownership, **GCA is providing support to the Ghana Infrastructure Investment Fund (GIIF) for accreditation to the GCF**. Once accredited, GCA will provide technical assistance to develop concept notes and funding proposals, drawing from Ghana's National Investment Roadmap for Climate Resilient Infrastructure, launched in 2022.



IMPLEMENTATION PERIOD
2023-2024

KEY PARTNERS



GHANA INFRASTRUCTURE
INVESTMENT FUND

GCA'S ADDED VALUE

GCA's technical assistance and support include:

- Providing tailored guidance and technical support to streamline the accreditation process for GIIF, ensuring compliance with GCF standards
- Strengthening the technical and operational capacity of GIIF to effectively navigate the GCF accreditation process and access adaptation finance at scale
- Enhancing the capacity of Direct Access Entities to develop high-quality adaptation concept notes, thereby increasing the chances of approval by the GCF Secretariat

EXPECTED OUTCOMES

Through this project, the following outcomes are expected:

- Mobilized private sector funding for adaptation initiatives
- Updated policies and strategies of four national entities
- Improved institutional and technical capacity to implement innovative financial instruments
- Enhanced credibility of national entities in the eyes of stakeholders such as investors, donors, and international organizations



IMF Resilience and Sustainability Facility Senegal



INVESTMENT VALUE
OF THE IMF RSF
\$324 million



IMPLEMENTATION PERIOD
2024-2027

KEY PARTNER



GCA is providing technical assistance to the International Monetary Fund (IMF) to enhance adaptation in Senegal through its Resilience and Sustainability Facility (RSF). The RSF provides longer-term financing to strengthen economic resilience and sustainability by supporting policy reforms that reduce macro-critical risks associated with climate change and pandemic preparedness, and augmenting policy space and financial buffers to mitigate risks arising from such longer-term structural challenges.

The RSF will support Senegal's efforts to integrate climate considerations into policymaking, complementing the Extended Fund Facility and Extended Credit Facility in bolstering overall socio-economic resilience. The RSF reform measures build on Senegal's national adaptation plan and existing diagnostics, including the IMF's Climate Public Investment Assessment.

GCA is strengthening climate adaptation measures within the RSF policy framework. In consultation with the IMF, GCA has supported the identification and formulation of adaptation policy reform measures. In addition, GCA will support the implementation of policy measures related to the policy framework governing water resource management, the revision of the construction code, and the dissemination of data on climate vulnerabilities.

GCA'S ADDED VALUE

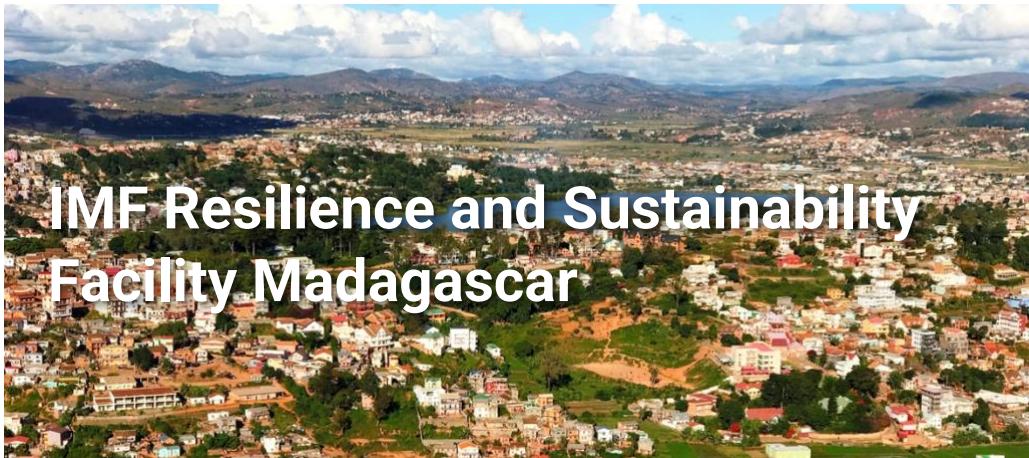
GCA's technical assistance and support include:

- Provide technical assistance to the identification and formulation of policy reforms related to climate adaptation during preparation of the RSF
- Supporting the implementation of three reform measures agreed upon under the RSF Arrangement by providing tailored technical assistance on sectorial policies, methodologies, and opportunities to access climate finance

EXPECTED OUTCOMES

The following outcomes will be influenced by GCA's support:

- Reinforcing climate governance and mainstreaming climate adaptation into public financial and investment management processes
- Enhancing adaptation to climate change and resilience against climate risks by developing and implementing targeted reform measures
- Mobilizing Climate Finance for climate adaptation in the country. Reforms will strengthen the country's position on global and domestic scales for climate investments



INVESTMENT VALUE
OF THE IMF RSF
\$321 million



IMPLEMENTATION PERIOD
2022-2029

KEY PARTNER



In Madagascar, GCA's technical assistance is supporting the IMF's efforts to strengthen climate adaptation through its Resilience and Sustainability Facility (RSF). The longer-term financing provided by the RSF aims to strengthen economic resilience and sustainability by supporting policy reforms that ease macro critical risks related to climate change and pandemic preparedness, and augmenting policy space and financial buffers to mitigate risks arising from such longer-term structural challenges.

The RSF will support Madagascar's efforts to integrate climate considerations into policymaking, complementing the Extended Fund Facility and Extended Credit Facility in bolstering overall socio-economic resilience. The RSF reform measures build on Senegal's national adaptation plan and existing diagnostics, including the IMF's Climate Public Investment Assessment and the World Bank's Country Climate and Development Report.

GCA's technical support strengthens climate adaptation measures within the RSF policy framework. In consultation with the IMF, GCA supported the identification, prioritization, and implementation of climate adaptation policy measures. GCA will support the implementation of two agreed policy reforms: developing a climate finance policy and strengthening the policy framework governing water resource management. GCA will also participate in a climate finance roundtable to accelerate the mobilization of public and private finance for climate adaptation in the country.

GCA'S ADDED VALUE

GCA's technical assistance and support include:

- Provide technical assistance to the identification and formulation of policy reforms related to climate adaptation during preparation of the RSF
- Supporting the implementation of three reform measures agreed upon under the RSF Arrangement by providing tailored technical assistance on sectorial policies, methodologies, and opportunities to access climate finance.

EXPECTED OUTCOMES

The following outcomes will be influenced by GCA's support:

- Reinforcing climate governance and mainstreaming climate adaptation into public financial and investment management processes
- Enhancing adaptation to climate change and resilience against climate risks by developing and implementing targeted reform measures
- Mobilizing climate finance for climate adaptation in the country. Reforms will strengthen the country's position on global and domestic scales for climate investments

CATALYZING CHANGE FOR CLIMATE ADAPTATION: OUR APPROACH

GCA's work is guided by three core approaches. They are: knowledge, leadership, and action.

KNOWLEDGE: Research for Impact

GCA builds and accelerates the application of adaptation knowledge globally. GCA creates and manages knowledge, leads research to fill knowledge gaps, and drives innovation to develop specialized approaches. Our **State and Trends in Adaptation** reports provide a comprehensive overview of the present and projected climate risks in Africa and a blueprint for adaptation action.



LEADERSHIP: Agenda Setting and Advocacy

GCA's convening power brings together the most influential thinkers and decision-makers, while giving voice to the most vulnerable. GCA formulates policy messages to shape and move global, regional, and local adaptation agendas forward.



ACTION: Programs

GCA works with governments, academia, community-based organizations, IFIs, national banks, and private financial institutions to shape and implement investments in a way that builds resilience for climate-vulnerable people and creates jobs. GCA supports access to financing from the Global Climate Fund.



GENDER EQUALITY AND SOCIAL INCLUSION

GCA employs Locally Led Adaptation and gender-sensitive approaches to ensure that the climate adaptation needs of vulnerable communities, especially women and girls, are addressed through investment projects supported by IFIs.

YOUTH

GCA empowers young people to advocate for climate adaptation on the global stage and enhance climate resilience in their communities through education and adaptation-focused employment opportunities.

LOCALLY LED ADAPTATION

Through Locally Led Adaptation, GCA unlocks, supports, and leverages the enormous potential of communities to develop and implement solutions. This involves working with local communities to develop people's climate adaptation plans and making links to planned IFI investment projects. GCA also hosts a Global Hub on *Locally Led Adaptation* to gather best practices and facilitate knowledge sharing and exchanges between practitioners.

GLOBAL CENTER ON ADAPTATION – LEADERSHIP AND GOVERNANCE

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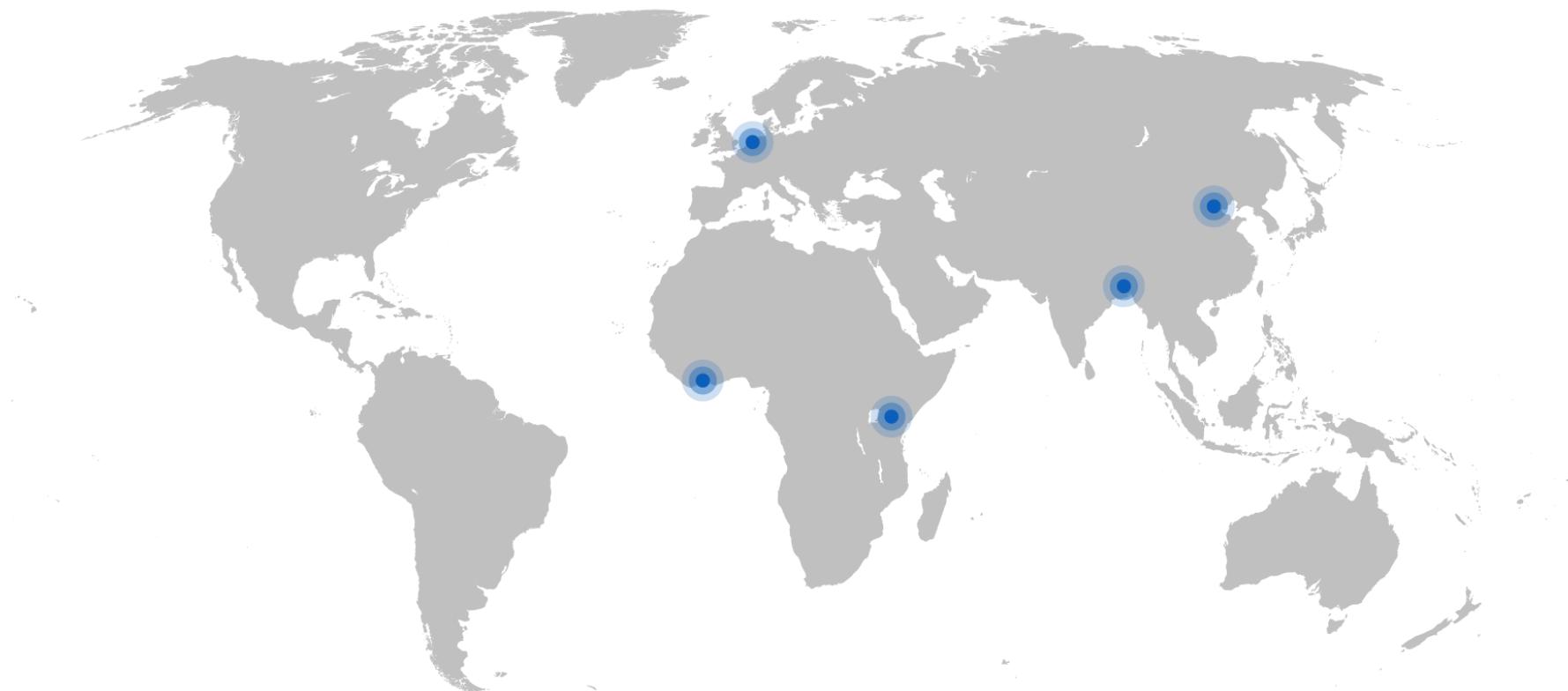
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ABOUT THE GLOBAL CENTER ON ADAPTATION

The **Global Center on Adaptation (GCA)** is an international organization that promotes adaptation to climate change. It works to climate-proof development by instigating policy reforms and influencing investments made by IFIs and the private sector. The goal is to bring climate adaptation to the forefront of global efforts to address climate change and ensure that it remains prominent.

Our **mission** is to climate-proof the planet against the effects of global warming. We do this by finding, incubating, and implementing ways to accelerate and innovate climate adaptation at scale, building a stronger and more prosperous climate-resilient world. Our **vision** is to adapt to a changing climate by securing progress towards sustainable development, safeguarding people, the planet, and our shared prosperity.

Founded in 2018, GCA is the first international organization to maintain dual headquarters in both the Global North in Rotterdam and in the South in Nairobi – underscoring the equal partnership between region and the conviction that climate adaptation solutions must be co-designed and co-owned. Its regional hubs in Abidjan, Dhaka and Beijing, leverage local expertise to pilot and scale context-specific approaches. Together these centers ensure a continuous, two-way exchange of knowledge and best practices that empowers communities and drives resilient and inclusive growth worldwide.



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FIND OUT MORE:
gca.org/programs/aaap

