



# Reinforcement of Resilience to Food and Nutrition Insecurity in the Sahel

GCA in partnership with AfDB through AAAP is supporting the Gambian component Project 2 of the Programme: Build Resilience to Food and Nutrition Insecurity in the Sahel (P2-P2RS). The project, implemented in Central River Region; Lower River Region; and Western Coastal Region of the Gambia, aims to improve the livelihoods, food security and nutrition of populations through sustainably increase agro-sylvo-pastoral productivity and production and increase income from agro-sylvo-pastoral and fisheries value chains.

## Adaptation Need

More than 99 percent of croplands in the Gambia are entirely rain-fed. Due to the reliance on rain-fed agriculture, prolonged dry spells, rising temperatures, and erratic rainfall have already had severe effects on food security in Central, Lower River and Western Coastal Regions of the Gambia. For example, Rice production dropped by 68 percent in 2007 compared to 2002, with similar declines recorded in 2011 due to poor rainfall. From 2001 to 2020, the country experienced seven major floods and 13 disaster events between 2008 and 2022, displacing thousands and damaging croplands. According to the 2022 National food Security survey, more than a quarter of Gambians (27 percent of the population) were food insecure, which translates into more than 646,800 people. Without climate-smart adaptation measures, climate change will continue to threaten agricultural productivity, with severe implications for food security.

## GCA's Added Value

GCA is supported the integration of climate-smart adaptation through development of the Gambia Google Earth Engine (GEE) web platform for improved weather & climate advisory services in target Gambian value chains. In addition, GCA conducted a market assessment on Digital Climate Advisory Services (DCAS) and strengthened capacity of government agencies to disseminate digital weather and climate information to smallholder Gambian farmers.

Total Investment Value Influenced

**231.46M**

Beneficiaries

**1.5M**

IFI Implementation period

**2023 - 2028**

Program

**Food Security**

Partners

**African development Bank**

Status

**Completed**



## PROJECT GOALS

### Steaming Adaptation and Resilience

To contribute to the resilience of Gambian agricultural production, GCA, in collaboration with the Department of Water Resources (DWR), developed a Google Earth Engine (GEE) web platform. The platform integrates diverse datasets—including meteorological data (both station-based and model-based), climate projections, natural hazards, and agricultural information—to support the Government of The Gambia in delivering targeted weather and climate advisory services for key agricultural value chains. The platform facilitated access to timely and localized climate information, and address key climate hazards such as erratic rainfall, droughts, and extreme temperatures. Additionally, GCA has strengthened the institutional capacity of DWR to integrate and utilize climate-smart agriculture data, and to disseminate digital weather and climate information to smallholder farmers, thereby reducing vulnerability and increasing the resilience of agricultural livelihoods in the face of a changing climate.

### Expected Project Outcomes

GCA's support to the program is expected to generate the following outcomes:

Climate-smart agriculture data to disseminate digital weather and climate information to smallholder farmers developed.

Enhanced digital system for dissemination of agro-weather and geo-information to inform agricultural decisions.

TIMELINE

# GCA Support Status

Technical Assistance Preparation

GCA Support Implementation

December, 2022

GCA Support Completion

June, 2025

Monitoring

# Project Investment Value

Total Investment Value  
**231.46M**

IFI INVESTMENT VALUE

**212.27M**

OTHER INVESTMENT  
VALUE

**19.19M**

## IFI partners



African  
development Bank

## CONTACTS

### GENERAL MEDIA INQUIRIES

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### REQUEST FOR INFORMATION

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## RELATED ARTICLES & RESOURCES

### Related resources

[African Development Bank Project](#)

Portal 