

Kenya – Enhancing Infrastructure Resilience in Mombasa Metropolitan Area

Country

Kenya

ACP-EU Disaster Risk Management

Program Component

Mainstream DRR and CCA into national and priority sector policies and investment planning

Amount approved

€750,000 / \$793,000

Duration

04/2024 – 02/2026

Context and Objectives

Mombasa's strategic location as a major seaport and gateway to the East African region positions it as a key center for trade, commerce, and tourism, one that relies on its infrastructure to thrive. The concentration of economic activities, coupled with rapid urbanization, poses challenges to urban infrastructure development, land-use planning, and environmental sustainability. The city faces issues such as inadequate urban drainage systems, encroachment on flood-prone areas, and heightened vulnerability to climate change impacts, including increased flood risks.

The objective of the grant is to improve the understanding of the vulnerability of urban infrastructure and services to floods and coastal erosion risks and to inform infrastructure investments and resilient city planning in the Mombasa Metropolitan Area.

Main Activities and Expected Results

Understanding the impact of floods and coastal erosion on urban infrastructure and services in and near Mombasa Metropolitan Area

This activity involves collecting existing geographic, topographic, geological, hydrologic, and meteorological data to inform hydrological and hydraulic modelling that can assess flood hazard, infrastructure exposure, and vulnerability assessment to calculate flood risk. These studies support the identification of risk hotspots and of interventions to mitigate them.

Expected Results:

- The risk assessment will enhance local understanding of the city's infrastructure vulnerability and inform development of effective strategies for managing flood and coastal risks.
- Enhanced knowledge of the most vulnerable areas and impacts of climate change, sea-level rise, on flood risk and coastal erosion will provide the government officials with the pillars needs for future investments.
- The increased flood risk awareness among the population in flood-prone zones will empower them to take proactive measures to mitigate risks and protect their communities.

Developing strategic investment plans for flood and coastal risk reduction for Mombasa metropolitan area and studying adaptation solutions to enhance the resilience of infrastructure on critical hotspots

This activity supports analysis of policies, programs and institutions that determine readiness to manage resilient infrastructure and flood risk, assessments of the effectiveness of these policies and frameworks, and the determination of recommendations for strengthening the capacity of key stakeholders. The creation of a strategic investment plan will identify potential solutions, provide preliminary cost estimates, and conduct a cost benefit and multi-criteria analysis.



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Expected Results:

- Improved institutional capacity for risk-informed planning and investment in the Mombasa Metropolitan Area.
- Enhanced knowledge of the most vulnerable areas and impacts of climate change, sea-level rise, on flood risk and coastal erosion will provide the government officials with the pillars needs for future investments

Partnerships and Coordination

The World Bank implements the project in close coordination with the State Department of Housing and Urban Development and the County Government of Mombasa. The World Bank coordinates its efforts with the EU Delegation to Kenya.

This project directly contributes to the implementation of the Mombasa-Kilifi highway, funded as part of the [Global Gateway EU-Africa Investment Package](#), which will pass through a flood impact zone and will need to integrate these risks into its design. In addition, the project team is in close communication with the EIB on their Mombasa Solid Waste Circular Economy Project, enacted under [COPIP](#) (Clean Oceans Project Identification and Preparation), and with a EU-UNDP program supporting the development, revision and implementation of better harmonized risk management policies, laws and strategies in Kenya's other coastal counties. The project also supports the World Bank-financed [Kenya Urban Support Program](#).