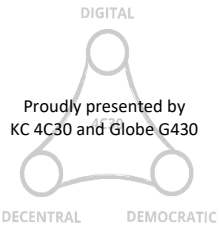


Pre-feasibility study for water management/ green spaces and urban infrastructure



Potential Climate/ Disaster Impacts addressed and Justification for this Approach

An estimation of 35.000 inhabitants of the city of Portoviejo are at high risk of flash floods and landslides resulting from heavy storms, which particularly affect the people living in the hilly suburbs. The city faces two major challenges to improve their stormwater management: 1) Lacking measuring equipment in the urban areas, 2) lacking funding and capacity to identify priority measures for the hills. Portoviejo seeks to establish a measurement network for meteorological, climatological, and hydrological data and to define priority actions for stormwater management and flood prevention in hilly suburbs along the Portoviejo River, including hybrid infrastructure (gabion walls and permeable parks, wetlands, and restoration). This is expected to generate better data for evidence-based decision-making. Short- and medium-term stormwater management is expected to increase the city's resilience. There also exist important synergies with the project "Corridor del Rio Portoviejo", which includes 7 urban parks along the river covering approx. 170 hectares, which has secured technical assistance from GIZ Ecuador. Both initiatives are complementary.

Process of Implementation

After shortlisting the city, the Gap Fund conducted a detailed assessment that was approved by the TS. The team prepared a ToR with the city and later on, the TA was implemented and supervised by the GF team. Throughout the process, all relevant stakeholders were engaged.

Results and Impacts

Development of a pre-feasibility study, consisting of 1) the compilation of existing hydrological, climatological and meteorological data, 2) an update of the city's flood, landslide and storm risk maps, focusing on the urban section of the Portoviejo river and its affluents, particularly those flowing through the hilly suburb, 3) a preliminary design of a measuring network for meteorological, climatological and hydrological data based on the gaps identified under component 1, 4) the identification and preliminary design of green or hybrid infrastructure to control and reduce stormwater runoff and landslides in the hilly suburbs, 5) a roadmap of the next steps for the identified priority measures and recommendation for additional stormwater management infrastructure.

Project Title

Support for Project Preparation for Urban Progress (SuPPUrbP) - City Climate Finance Gap Fund

Project Number

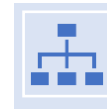
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TYPE OF APPROACH
Framework conditions



COUNTRY
Ecuador



LEVEL OF INTERVENTION
city, neighbourhood



TYPE OF RISK MANAGEMENT
prevention, resistance



MAIN HAZARDS ADDRESSED
Storm, Flood, Landslide



URBAN FUNCTION PROTECTED
Public administration, Public security/ civil protection



SPHERE OF INTERVENTION
socio-political sphere/ governance, environment



COOPERATION PARTNERS
Municipality of Portoviejo, Environment and Risk Management authority.