

# Pre-feasibility study for an urban forest

## Potential Climate/ Disaster Impacts addressed and Justification for this Approach

The municipality of Santa Marta faces rapid urban growth, which has led to the loss of vegetation and the increased use of materials such as cement. Combined with transport and industrial activity, this is causing a heat island effect in the city. Furthermore, Santa Marta is exposed to adverse climate-related hazards, such as droughts and land degradation, and the occurrence of compounding events, such as wildfires, increased erosion, and mass movement processes. Urban forests have the potential to reduce the heat island effect, by creating a cooling effect and increasing thermal comfort. Moreover, they have different environmental co-benefits, such as facilitating water management and protecting ground water reservoirs, controlling wind patterns, capturing pollutants, and protecting urban biodiversity.

## 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.

### Project Title

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

### Project Number

20.9118.9-001

## Results and Impacts

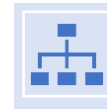
Development of a pre-feasibility study to identify appropriate institutional and financial approaches for the implementation of an urban forest and its management, that includes: 1) an analysis of the different options for ecosystem integration, 2) an economic and financial assessment of the urban forest, 3) an analysis of possible synergy and consolidation instruments with territorial planning tools, 4) analysis of potential financial flows and recommendations to involve potential investors, 5) guidelines and recommendations for the operation, maintenance and monitoring of the urban forest. Implementation of consultation workshops and trainings with local experts and relevant stakeholders, consisting of 1) workshop on ecosystem integration, 2) workshop on economic and financial analysis; 3) workshop on operation and maintenance options.



**TYPE OF APPROACH**  
Framework conditions



**COUNTRY**  
Colombia



**LEVEL OF INTERVENTION**  
city



**TYPE OF RISK MANAGEMENT**  
prevention, resistance



**MAIN HAZARDS ADDRESSED**  
Drought, Heat Wave, Landslide



**URBAN FUNCTION PROTECTED**  
Recreation, Basic existential functions (water, electricity, etc.)



**SPHERE OF INTERVENTION**  
economy, environment



**RESOURCES REQUIRED**  
3 international experts, 30-50 working days each, consulting contract



**COOPERATION PARTNERS**  
Municipality of Santa Marta, environmental sustainability authority (DADSA)