



PLUVIAL DRAINAGE SYSTEM

STRATEGIES
Sustainability

CHALLENGE

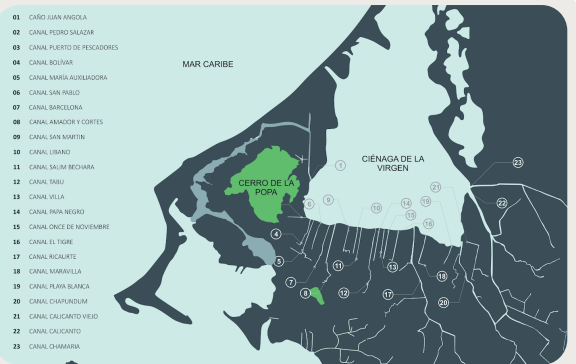
AC: Adaptation to Climate Change

DESCRIPTION

Cartagena has multiple connections between wetlands, lagoons, rivers, pluvial channels, and the Caribbean Sea, which makes it a hydrologically complex environment.

Cartagena has an internal system of 68 pluvial channels of multiple sizes and flows, designed for draining rainwater into wetlands to avoid floodings during storms. From the 68 pluvial channels, the city hall has designs for the 24 biggest channels, the remaining designs are pending.

As nature-based solutions become more sophisticated, there is a desire to implement a Green Gray Infrastructure approach to solving the pluvial drainage issues, as well as creating space for urban renovations around the channels. This is a great opportunity to renew the urban



landscape. The project is highly strategic as it is not only concerned with Climate Resilience, but also with improving neighborhoods and urban areas, greening the city, and reducing the carbon footprint.





KEY PERFORMANCE INDICATORS

- ▷ Build 24 pluvial channels that are already designed
- ▷ Design and build 44 remaining channels based on the Green Gray Infrastructure approach
- ▷ 120km of pluvial channels and urban renovations around them

PROJECT LEADER

Secretary of Infrastructure; Secretary of Planning

CLIMATE EMERGENCY



IMPACTS EXTREME POVERTY



BENCHMARK PROJECT (FOR REFERENCE)

NYC Risk Landscape: Flooding chapter

https://www1.nyc.gov/assets/em/downloads/pdf/hazard_mitigation/nycs_risk_landscape_chapter_4.3_flooding.pdf



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1

SUSTAINABLE DEVELOPMENT GOAL IMPACTED

13 CLIMATE ACTION



Take urgent action to fight climate change and its impact

15 LIFE ON LAND



Protect, restore, and promote the sustainable use of terrestrial ecosystems, manage forests sustainably, fight desertification, halt and reverse land degradation and halt the loss of biodiversity

6 CLEAN WATER AND SANITATION



Ensure the availability and sustainable management of water and sanitation for all

NUMBER OF SDG INDICATORS IMPACTED



Alcaldía Distrital de
Cartagena de Indias



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