

# Mitigating climate change and adapting to its impacts

## Working with urban areas to achieve greater resilience

The effects of climate change are steadily increasing throughout the world. According to the GIEC (AR6), the 1.5°C warming threshold set by the Paris agreement will be passed by 2025, with direct impacts on our ecosystems and societies as a result of temperature rise, changes in rainfall patterns, and more frequent and intense extreme natural events (flooding, destructive fires, heatwaves, etc.).

In response to these fundamental challenges, Groupe Huit provides a bespoke and all-encompassing approach to:

- > **Mitigate climate change by reducing GHGs, promoting environmentally efficient solutions or sequestering carbon**
- > **Adapt areas to climate change by offering technical and organisational solutions for all aspects contributing to resilience**

### Our services:

- > Mapping and processing of satellite imagery
- > 1D & 2D hydraulic modelling
- > Institutional and organisational assessment
- > Strategy development
- > Project identification and set-up
- > Feasibility
- > Design and project management
- > Technical assistance

## Our expertise

### MANAGEMENT OF CLIMATE CHANGE RISK AND IMPACTS

#### MITIGATING GREENHOUSE GAS EMISSIONS

- Multi-scale and multi-sector carbon footprint assessment
- Carbon mitigation and sequestration strategy

#### ADAPTATION

- Analysis of climate events
- Risk mapping
- Vulnerability assessment
- Adaptation strategy
- Resilience assessment for cities/regions
- Urban development planning integrating climate risks and promoting nature

#### CAPACITY BUILDING AND CITIZEN INVOLVEMENT

- Institutional and organisational assessment
- Consultation, participative dialogue
- Training and awareness building

#### STRUCTURAL MEASURES

- Drainage, sanitation and drinking water supply networks
- Alternative nature-based solutions
- Protective infrastructure (rivers, sea)
- Hydrology, hydrogeology

INTEGRATION AND MANAGEMENT OF ENVIRONMENTAL, SOCIAL AND GENDER IMPACTS

## An experienced team

Mitigating climate change while adapting to its inevitable impacts requires the mobilisation of a variety of expertise. Groupe Huit has a committed 25-person team with multi-disciplinary and complementary skills.

- > Urban planner specialised in climate change resilience and adaptation
- > Geographer
- > Architect
- > Environmental specialist, ESM expert
- > Sociologist/Anthropologist
- > Water and sanitation infrastructure engineer
- > Flood expert/hydraulics expert
- > Institutional, economics and financial expert

Groupe Huit teams also rely on additional expertise provided by the Keran Group.

- > Landscape designer
- > Biodiversity/Farming specialist
- > Marine environment specialist
- > ITC, database, GIS expert
- > Civil engineer (river and coastal protection infrastructure)

## A unique integrated approach

We bring a dual approach combining both general country and urban planning expertise and sector-specific skills in water, sanitation, market infrastructure, etc., based on on-going consultation with our local project partners and stakeholders.

We renew our methods as needed to bring bespoke solutions that are suited to the project area, incorporating innovative digital tools (GIS analysis, use of open data etc.).

We also focus on transferring skills to ensure the long-term sustainability of the projects implemented.

## Some references



### Democratic Republic of the Congo

**Definition of a strategy for nature-based solutions in response to climate challenges**

WB - 2022



### TUNISIA AND GUINEA

**Climate change risks analysis for the cities of Bizerte and Conakry**

GCA - 2022



### VANUATU

**Risk analysis and urban resilience plan for residential districts exposed and vulnerable to climate change**

WB - 2021



### SENEGAL

**Technical assistance for integrated flood management project**

AFD - 2019



### MONGOLIA

**Technical assistance for climate resilient urban renewal**

ADB - 2018



### BENIN

**Feasibility study for the Adaptation of Cities to Climate Change Programme (PAVICC)**

AFD - 2016 - 2017