

LIFE ADAPT'ISLAND

NATURE-BASED SOLUTIONS FOR ADAPTATION TO CLIMATE CHANGE IN THE CARIBBEAN





GUADELOUPE PORT CARAÏBES KEY DATA :



1.1 million passengers annually

Over €39.18 million in turnover

Over 3.7 million tons of freight traffic

5 locations

202,000 containers per year

5848.8 hectares of land,
5672 of which are coastal

A Message from the CEO

Despite an uncertain international environment, the Grand Port Maritime of Guadeloupe remains as committed as ever to serving the territory, its citizens, and its economy, as it has for more than a decade.

These ambitions form the basis of our 2019-23 strategic plan, which has been adopted by the Supervisory Board, and they are in accordance with the new national port strategy unveiled at the Interministerial Committee for the Sea held in early 2021. The ports are now recognized as major players in the economic recovery and the **ecological transition**.

With the launch of its **Natural Areas Management Plan** in 2016, the Grand Port Maritime of Guadeloupe had already positioned itself as a pioneer. Protecting and preserving natural resources, and **adapting to climate change** are now integral parts of our activities.

Jean-Pierre CHALUS

CEO of the Grand Port Maritime of Guadeloupe

LIFE ADAPT'ISLAND is a project originating out of the CAYOLI environmental program of the Grand Port Maritime of Guadeloupe



A PLAN FOR ADAPTATION TO THE EFFECTS OF CLIMATE CHANGE

Guadeloupe is home to extraordinary biodiversity. It is also highly exposed to the current and future impacts of climate change, such as hurricanes, floods, coastal erosion, changes to the ecosystem, etc.



Faced with these challenges, the IUCN proposes **Nature-based Solutions**, defined as “actions to protect, sustainably manage, and restore natural and modified ecosystems that address societal challenges effectively and adaptively, simultaneously benefiting people and nature.”

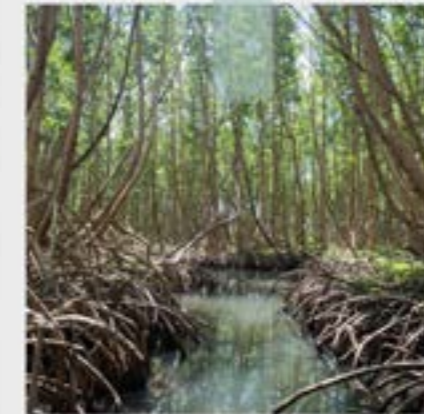
PROJECT OVERVIEW

5-YEAR PROJECT / 2 FOCUS AERAS / 3 TARGET ECOSYSTEMS

- Target environments



Coral reefs



Mangrove wetlands and swamp forests



Seagrass beds

- Project sites



- Calendar



2019 / 2024

Promoting territorial resilience through Nature-based Solutions





BUDGET :
€4,7
millions

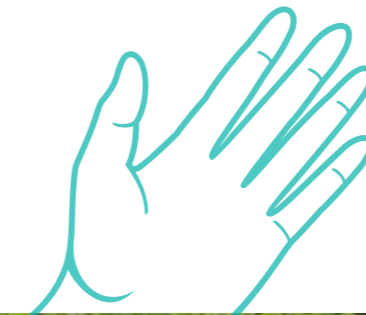
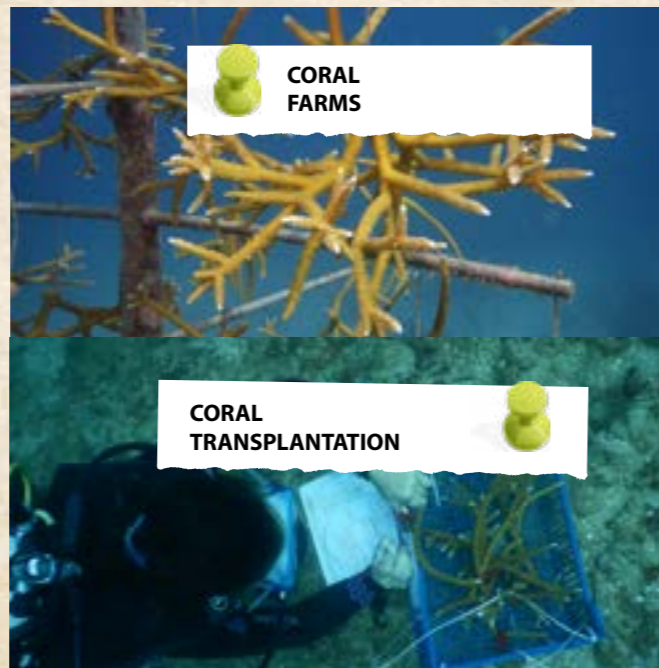
GOALS :

- Develop an innovative, nature-based strategy to adapt to climate change
- Restore the connections between coastal ecosystems
- Encourage the participation of civil society and communities
- Replicate innovative techniques throughout the Caribbean



RESTORATION PROJECTS :

A PROJECT BY NATURE



A PROJECT FOR PEOPLE



CHALLENGES AND FUNCTIONS OF THE 3 ENVIRONMENTS

CORAL



Elkhorn
Acropora palmata



Staghorn
Acropora cervicornis

GRASSES



Turtle grass
Thalassia testudinum

MANGROVES



Red mangrove
Rhizophora mangle



White mangrove
Laguncularia racemosa



Black mangrove
Avicennia germinans

QUANTITATIVE OBJECTIVES

- Preserving natural areas
- Rehabilitating and protecting



45,000 sq.m
of coral reefs



45,000 sq.m
of seagrass beds



80,000 sq.m
of mangroves

- Introducing species that make up the natural coastal habitats :
 - Developing an anchorage area with 20 eco-designed moorings
 - Producing scientific materials for dissemination, such as protocols, reports, conference proceedings, and scientific articles validated by international experts

ENVIRONMENTAL IMPACT

This project aims to protect and restore three of the main coastal ecosystems and to thereby limit the consequences of extreme climate events on the territory, as well as its impacts on economic and social activities.

MAIN THREATS TO THE ENVIRONMENT

Climate change is severely impacting the Caribbean islands. The range of threats reduces the resilience of already weakened ecosystems, manifesting in a variety of ways:

Weather disruptions:

More frequent flooding and droughts leading to water shortages, extreme weather events and rising sea levels.

Rising temperatures and ocean acidification:

these two phenomena affect the health and survival of marine species, particularly coral.

Emergence of diseases: increasing pressures in recent decades have led to an increase in disease outbreaks in marine species, along

with the emergence of new diseases that impact coral reefs.

Upsetting the balance between species:

Species endemic to the Caribbean, such as the seagrass *Thalassia testudinum*, which have historically dominated particular ecosystems, are now being overrun by opportunistic species whose services to the ecosystem are less beneficial.

ECOSYSTEM SERVICES PROVIDED

- Regulating, for example, by stabilising and trapping sediment
- Protecting the coastline against extreme weather events
- Reducing the risk of flooding
- Improving water quality
- Preserving biodiversity and related cultural and recreational matters, such as the beauty of the landscape, increasing acceptance of Nature-based Solutions (NBS), and heightened environmental awareness

RAISING AWARENESS ABOUT ENVIRONMENTAL PRESERVATION

- Raising awareness among cruise passengers and sea users
- Raising awareness among students of all ages
- Developing educational materials
- Creating an underwater educational trail
- Developing and distributing restoration protocols for each of the targeted species that are replicable throughout the Caribbean and approved by the scientific community
- Transferring good practices at the regional and international level.



SOCIO-ECONOMIC BENEFITS FOR THE ENTIRE TERRITORY

- Creating new jobs
- Developing local skills and encouraging environment-related careers
- Boosting eco-tourism
- Creating an underwater educational trail
- Increasing the number of people aware of adaptation to climate change and the protection of coastal ecosystems.



PROJECT PARTNERS

EUROPEAN COMMISSION

The LIFE program is the European Commission's financial instrument for supporting projects in the areas of the environment and climate.



COORDINATING BENEFICIARY

An industrial and economic entity, manager of natural areas and responsible for the implementation of project activities



CO-BENEFICIARY

URAPEG-FNE 971, a Federation of organisations working in the area of the environment, handles outreach and communications for the project



CO-BENEFICIARY

An independent Brussels think tank working on climate, the environment, and the implementation of sustainable development objectives, including gender equality. Its role is to further the dissemination of the project at the European level.



CONTACTS



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