



The environmental policy of the Port Authority of Guadeloupe



- Protection of coastal ecosystems
- Research and development
- Public awareness
- Infrastructure monitoring



Nature-Based Solutions

"Actions aimed at **protecting**, sustainably **managing** and **restoring** natural or modified ecosystems to directly address **societal challenges** in an effective and adaptive manner, while ensuring **human well-being** and producing **benefits for biodiversity**" - IUCN

Economically viable and sustainable alternative

Often less costly in long run

Mangroves threats in Guadeloupe

- Invasive alien species
- Coastal industrialization and urbanization
- Pollution and waste
- Climate change

LIFE ADAPT'ISLAND : NATURE-BASED SOLUTIONS TO ADAPT TO CLIMATE CHANGE IN THE CARRIBEAN

- **Nature-based** solutions
- Ecosystem services provided
- **Restoring connections** between coastal ecosystems
- **Replicating** innovative techniques in the Caribbean
- **Disseminate** good practices
- Raising **public awareness** of environmental preservation
- **Socio-economic benefits** for the entire territory

2019-2024

€ 4,7M €



Objectives

- Allow the development of mangroves in an urbanized flood-proned area
- Evacuate and treat plant or inert waste
- Diversify mangrove species

Terrestrial actions / mangroves



Restoration sites and nurseries

- **Rehabilitation** of wild dumps area
- **Planting** mangrove seedlings
- Create a **nursery** in natural environment and provide new plants
- **Recreate initial state** of the sites
- Management of **Invasive Alien Plant Species**

Marine actions



- **2 coral farms** (*Acropora cervicornis* & *A. palmata*)
- Annual coral **transplant opération, spawning observation** and **gameting collection**

- **Ecomoooring area**
- **Underwater trail**
- *Thalassia testudinum* **experimentation** for production of new plants



- #### Pilot site
- **3.500m²**
 - **Environmental and technical studies**
 - **Excavation** of embankments
 - Set up an **in situ** mangrove nursery
 - **Revegetation** operations

- #### DIC EAST
- **47.316m²**
 - **Authorization** and **access** to the site
 - **Excavation** of embankments
 - Managing **invasive alien species**
 - **Revegetation** operations

- #### Experimental nursery ex-situ
- **48m²**
 - **2 areas** :
 - 70% shaded (only *Laguncularia racemosa*)
 - 0% shaded area (*Rizophora mangle* and *Laguncularia racemosa*)
 - Used for **revegetation** in the two restoration sites

