Feasibility study on central coastal front of the city of Havana: adaptation proposals before the climate change challenges

THE PROJECT

The project aims to carry out a feasibility study in the Malecón Habanero area, the Havana seafront, with the aim of identifying and evaluating the most suitable engineering solutions to counter the effects of climate change.

BACKGROUND

Havana is the political, economic, social and cultural center of Cuba, due to its geographical location, and is particularly exposed to the consequences of sea level rise and extreme hydro-meteorological events, such as floods, that are destroying the natural and human heritage nearby the coast. The Malecón area is considered one of the most vulnerable in the whole country, given the high population density and the high number of present homes.

CONTRIBUTION TO

➢ 2030 Agenda: Goal 11 sustainable cities, Goal 13Climate
➢ NDC CUBA
➢ Tarea Vida

OBJECTIVE

Adaptation and mitigation to climate change.

PLANNED ACTIVITIES

- Preparation of relevant technical information: bathymetric, topographic, meteorological, geological and geotechnical, and on drainage and sewerage, as a basis for subsequent activities.
- Identification and contracting of a specialized company for carrying out the feasibility study.
- Analysis and evaluation of possible engineering solutions for the protection of the Malecón area: preliminary analysis of the alternatives, field investigations, creation of a two-dimensional physical model, definition of costs for four possible alternatives, selection of the best solution, development of the 3D model scale of the identified solution.

SUBJECTS

Promoters:
- Ministry of the Environment and Energy Security, (MASE)
- Ministry of Science, Technology and Environment, (CITMA)

Actuators:
- UNDP Cuba
- Inversiones Gamma S.A. (national technical enterprise)

TOTAL COST OF THE INITIATIVE

€ 1,856,184.00

MASE Contribution: € 1,856,184

OUTPUT

- Feasibility study on an engineering solution, suitable for opposing the effects of climate change