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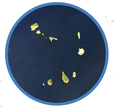
UNIVERSITY INSTITUTE OF LISBON

CAPE VERDE

DESIGNING FOR SUSTAINABILITY

Industrial unit for food processing and transformation



STOLED WATER

FRUTAS DO ATLÂNTICO

"ÁGU FURTADO"

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CONTEXT

Over the centuries, the food system has become extremely important for the economic and social development of any country.
Stoled water aims to reinforce how important and precious waterand its access as a human right. In a world where one in three people do not have safe drinking water and 4.3 billion people do not have access to adequate sanitation, with possibilities of increasing values due to climate change, it is necessary to promote and dedicate special attention to the environment, families and the food security of communities

The project as a expression for the problem of the lack of water on the planet whatever, especially in an archipelago bathed by the largest ocean.
Proposes an industrial unit for food production and processing as a tool for urban and socio-economic development, in order to increase the role of agricultural production and food security to improving the quality of families life.
Search then to share new ideas and knowledge in the face of the long periods of dry weather in the archipelago of Cape Verde with a project that fit in a national context, providing my contribution to development of the land where i saw myself grow up.

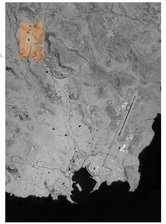
Cabo Verde, is a island country in the central Atlantic Ocean, consisting of ten volcanic islands. The archipelago form part of the Macaronesia ecoregion, along with the Azores, the Canary Islands, Madeira, and the Savage Isles.
Located on the west coast of the African continent, between 600 and 850 km west of the Senegalese peninsula. Cape Verdean society saw its economic growth being affected due to late independence and the lack of natural resources such as labour.

THE PLACE / Santiago Island

Is the largest island of the archipelago of Cape Verde, belonging to the Sotavento group. It is about 75 km long in the north-south direction and about 35 km wide in the east-west.
The intervention area is located in the city of Praia, the capital and largest city of Cape Verde in Achada São Filipe, about 7 km from the capital.The road structure that allows quick access to the airport, the port and existing infrastructures provide suitable conditions for the implementation of the project.

FRUTAS DO ATLÂNTICO

The consumption of fruits and vegetables is a public health priority in several countries, Cape Verde being no exception to the rule. In this sense the STOLED WATER proposes an industrial called Frutas do Atlantico, for fresh fruit processing.
Offer the consumer a product of defined quality and guarantee of safety and maintenance of nutritional quality. As a raw product, the factory focuses on packing melons and melacias, as they are exotic and tropical fruits that adapt to the archipelago and its morabeza.
As a transformation process it offers its cutting capacities to produce fruit salads in tamper-proof, standard or made-to-measure plastic buckets to supply establishments such as hotels, restaurants, supermarkets.
The supply of the products can be provided by an agricultural space destined for the company, as well as by local farmers who share the same idea and business purpose.
Waste produced is used to support local livestock farming.

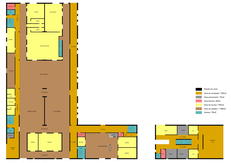


Aerial view of City of Praia:

Overview plant:

Buildings
Refreshment Area
Secondary road
Primary road
City of Praia ring road
Water Line (Ribeira Sao Filipe)
Connection route

Site plan intervention:

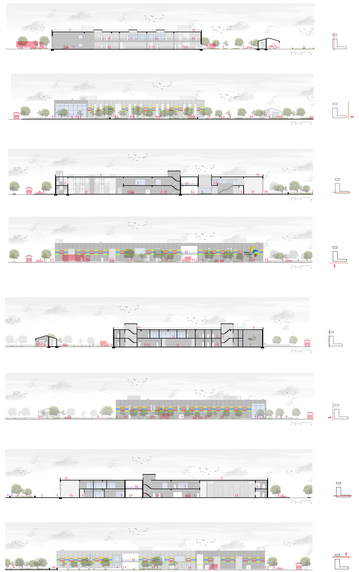


Space plan / Ground floor

Space plan / First floor

Emergency plan / Ground floor

Emergency plan / First floor

Technical plan / Ground floor

Technical plan / First floor