

SCUOLA DI ARCHITETTURA URBANISTICA INGEGNERIA DELLE COSTRUZIONI

SUSTAINABLE ARCHITECTURE AND LANDSCAPE DESIGN

BACK TO THE BLUE

Supervisor: Luis VIVES SANFELIU

Sara ALIMARDANI 872263

Academic year 2017/2018

I would like to use this opportunity to express my gratitude to everyone who supported me throughout this project.

I want to thank my advisor prof. Vives for his aspiring guidance, invaluable constructive criticism, and advice during the reviews.

I am sincerely grateful to my husband, Gabriele, who has been my constant source of support and continuous optimism, it was absolutely impossible to finish this without having you by my side.

This work is also dedicated to beloved my parents, Abolfazl and Sedighe, and my dear brother, Hamid, who have always loved me unconditionally and whose good examples have taught me to work hard for the things that I aspire to achieve.

I am also sincerely thankful to my dear Carlo and Claudia who always believed in me and supported me.

This accomplishment would not have been possible without all of you

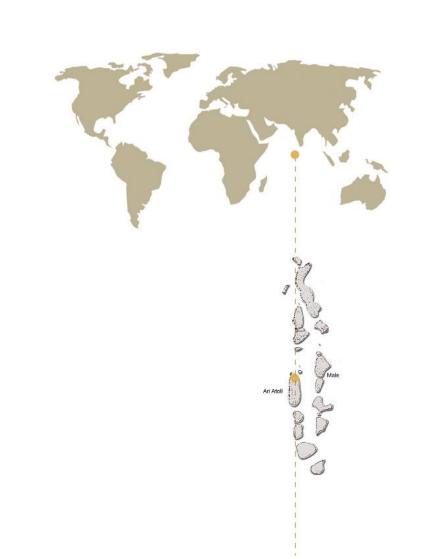
Thank you,

Sara Alimardani

Abstract

Water has been always one of the most essential needs of human beings, either as a survival purpose or just as a sanctuary element to turn to when we want a little piece of nature.

The Maldives has become a very popular destination for beach lovers that want to taste this exotic feeling of being surrounded by crystal clear blue water. This huge amount of request come certainly with consequence. Local islands have recently drawn the attention of the tourists since they are uitable places to spend the vacation near the traditional life of the locals and still benefit from the blue ocean. However, local Islands are still not prepared for this amount of tourism which make them more vulnerable than the resort islands. Ukulhas is one of the local islands that has become a popular destination recently. Visiting the island myself, I noticed some defects in the social and ecological aspect which I decided to focus on as my thesis subject and bring the water, island and human back in peace and harmony.



Introduction

Ukulhas is one of the inhabited islandsin maldives. The tourism started in this island in 2008 and got the atention of many tourists since then. Talking to the other tourists and asking them about their reason for choosing this island(or other local islands), I understood that rather than the breathtaking view, they were also looking to experience another culture and take in the REAL Maldive. Just like the thing I was looking for. However, this need for cultural experience did not take place.

The lack of extra activities is another thing that affects both tourists and locals.

Another thing that drew my attention was the beach condition that was poorly monitored in some areas.

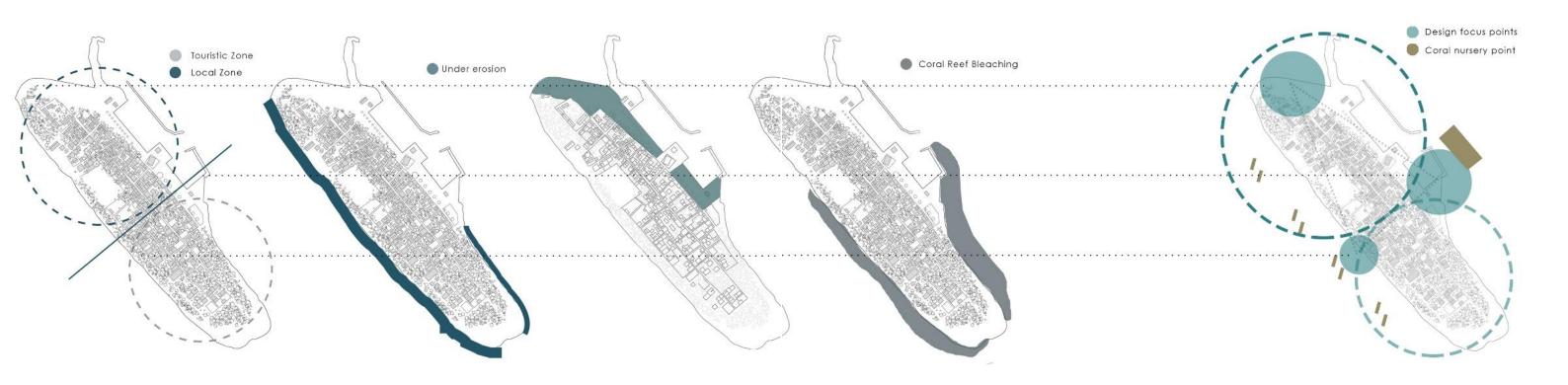
So this project aims to provide a solution in these three aspects: social, architectural and ecological aspect.

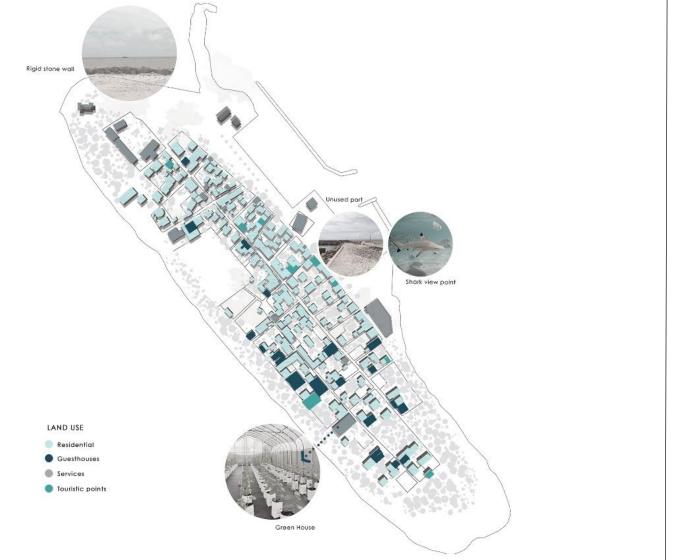
Social aspect: Focusing on a way to bring make a connection between locals and tourists.

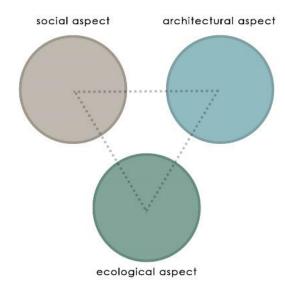
Architectural aspect: To provide a recreational place where people that are surrounded by water all the time can feel a different experience with it, and a place that can also serve as a multifunctional stage for different group activities.

Ecological: To give back what used to belong to the sea, it's beach. It is a proposal for renaturalization of the northern part of the island.

Analysis







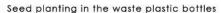


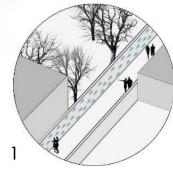


The number of guesthouses is still increasing since 2008 when for the first time tourism took place in the island which leads to island being devided between two zones: local zone and touristic zone.



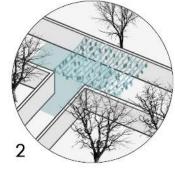






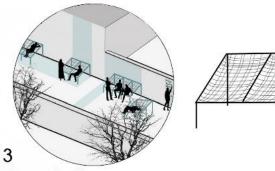


Intersection attractio point (use of plastic waste)

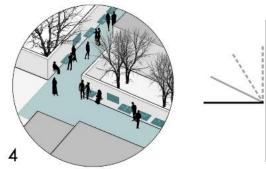




Communication route (use of existing furniture)





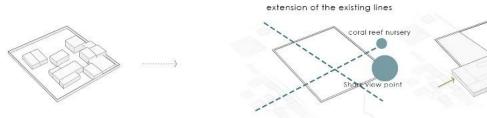


choose the gren house as the starting point of the pop-up rout (cooperation between locals and tourists in the greenhouse)



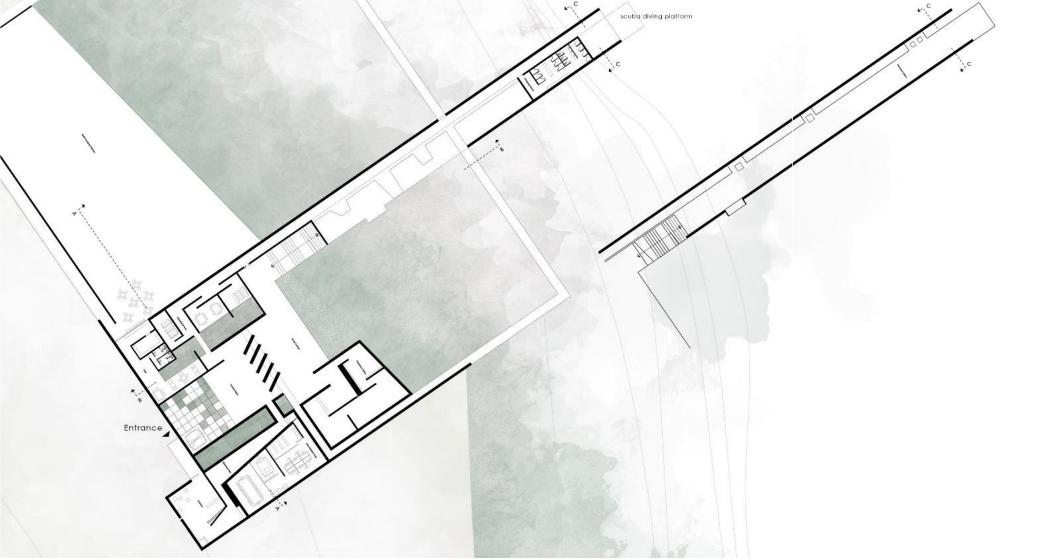


Using an unused port and make a connection between water and the unused open space to create a recreational space for evening group activities. Also taking in acount the alredy existing attraction(shark view point)



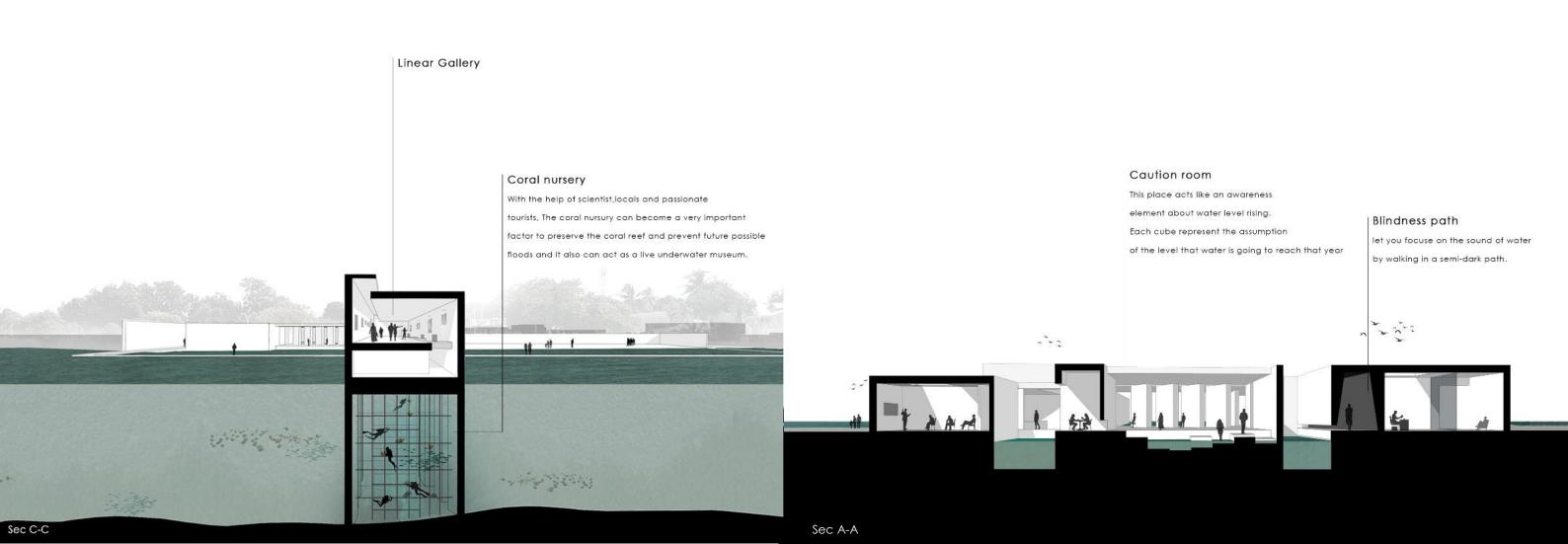
prototype of local blocks

water and land extending into eachother



People arecwalking between the walls inside the streets and since the overall idea comes from the neighbourhood blocks, I fried to keep the same feeling inside the project. Being surrounded by walls and have different perception of water. It bring the water inside and demonstrate different views of the water other that the ocean we see every day.

The building has also an educational aspect. Since there is a coral nursury at the end of the linear volume of the building, It provides a perfect opportunity to teach people ablout coral situation and let them be a part of planting new ones to protect the coral life.



The finishing material of the upper part of the facade is a local tecnique: plaited coconut leaves plastered with earthen mud and painted in white which gives facade a nice texture and also keep the project in harmony with the other buildings in the island.



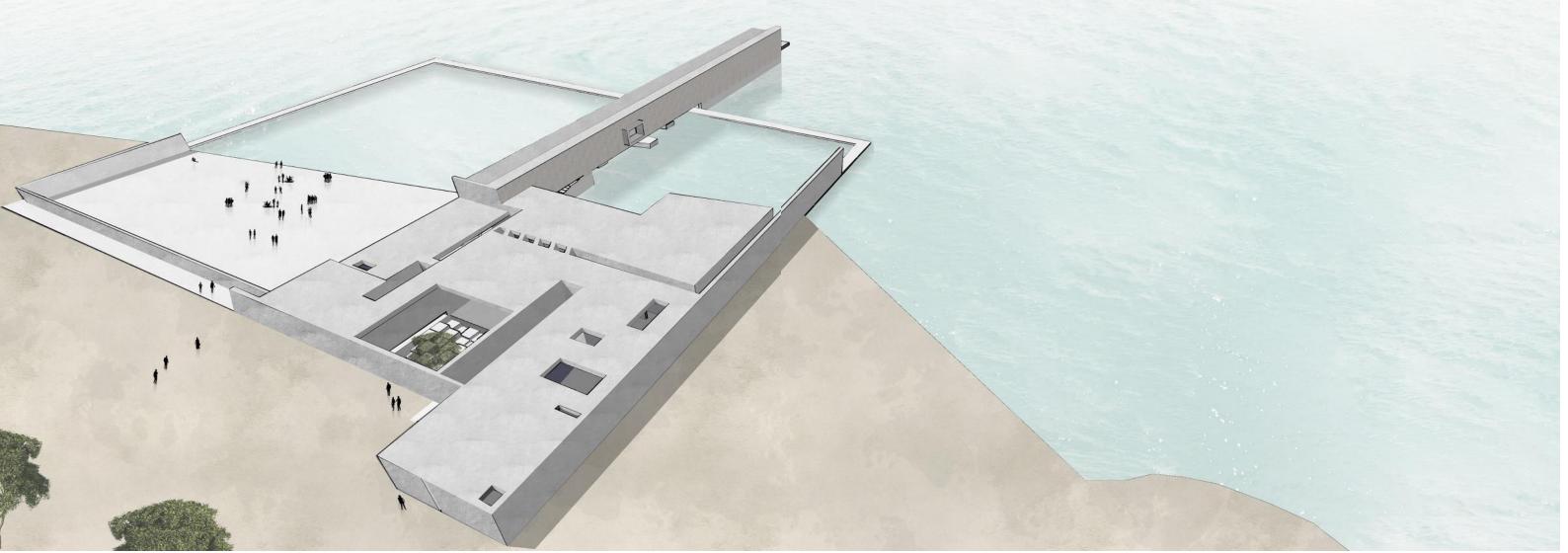


| white concrete





SCuba diving pah



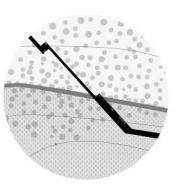
Ecological aspect

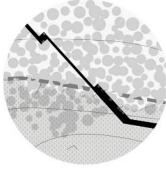


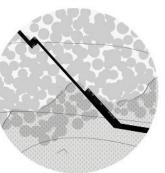
renaturalization of ocean edge

Years ago a stone wall was build to prevend water from flooding into the island. Since then this part of the island has remained unfunctional.

This proposal is to gradually remove the stone wall and prevent flooding in an ecological way.







Planting mangroves

(An activity that can be done with the help of tourists and locals)

As the mangroves grow the roots will eventually break the stone wall and they are a perfect species to stabilizing the soil and prevent future water runs.





