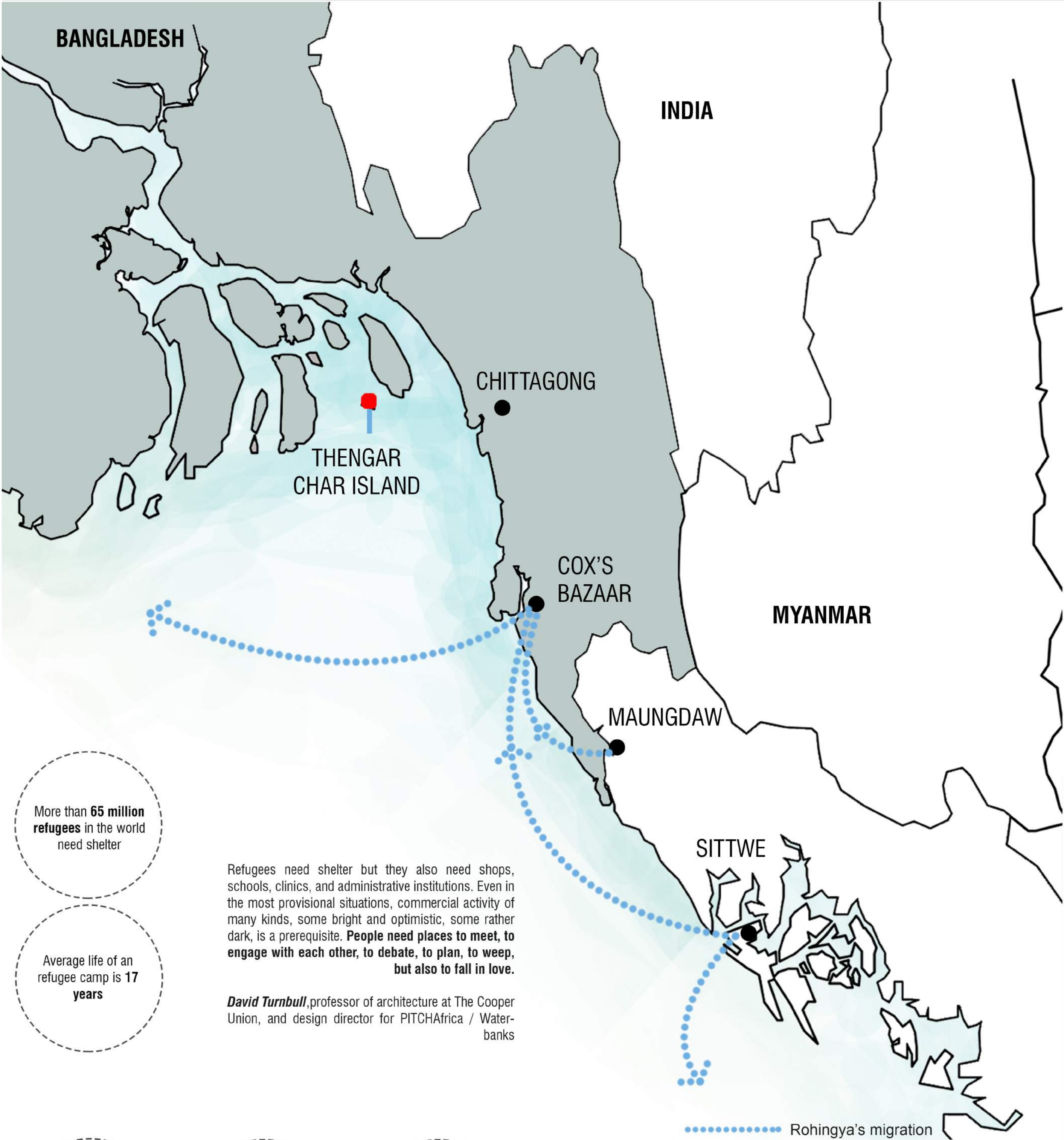
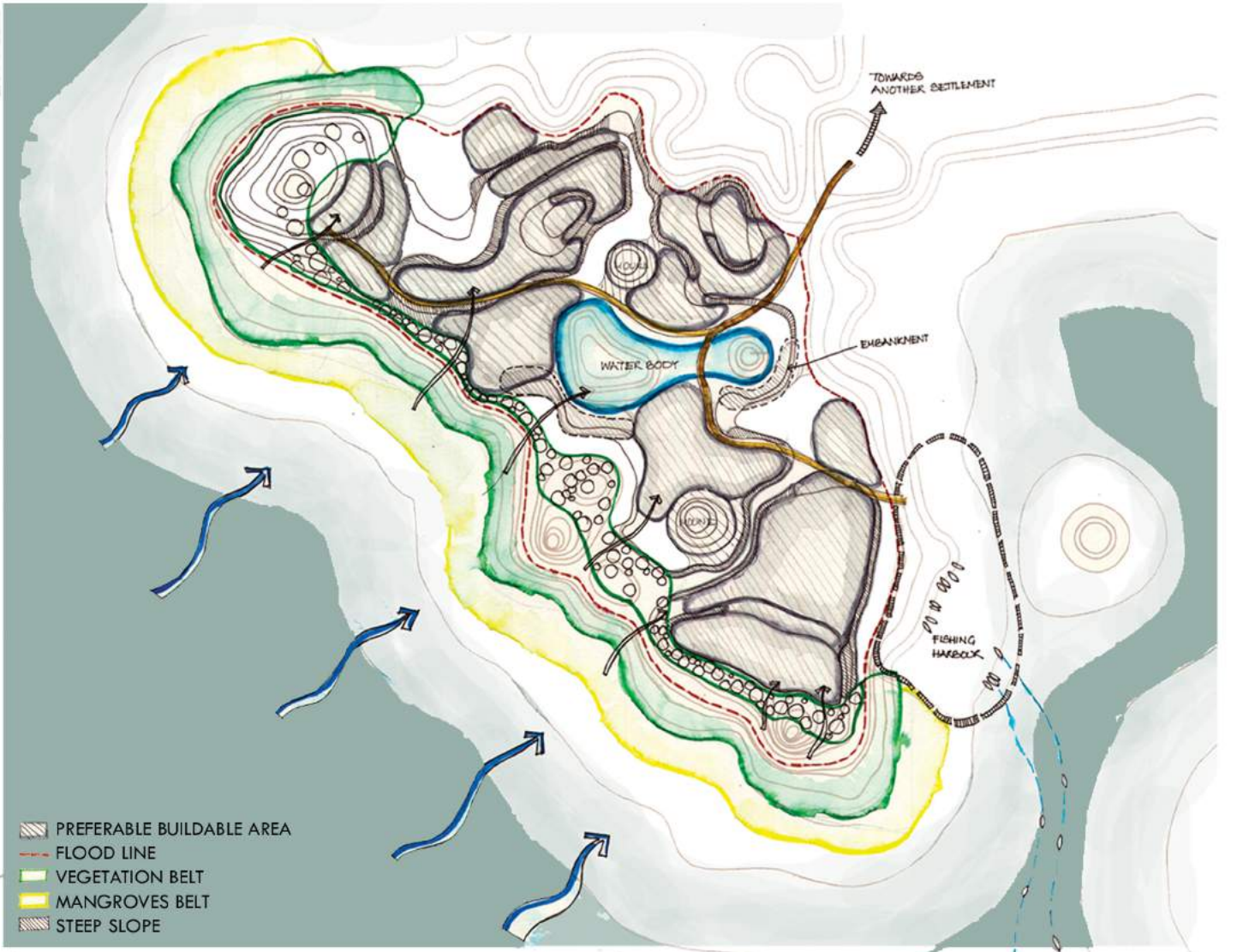


Disaster resilient resettlement of
Rohingya refugees in Thengar Char Island,
Bangladesh

8th ICBR Lisbon | Nov 2018
Building 4Humanity Category 3:
DESIGN COMPETITION Resilient Projects (Student Teams)
Team Members: Akhilesh Singh, Mohit Arya, Reva Sakseena & Vishal Kumar
Supervisor: Prof. Sanjeev Singh
University/School: School of Planning and Architecture, Bhopal, India
Project Location: Thengar Char Island, Bangladesh Team Code: B4H-DC3142



Interaction with users to understand their actual requirements



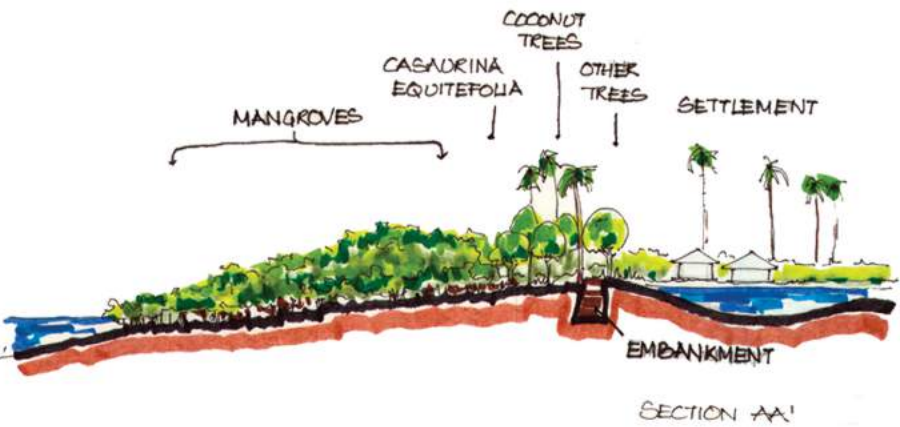
Site synthesis to identify suitable buildable land parcels on site



Site zoning based on site synthesis and community requirements

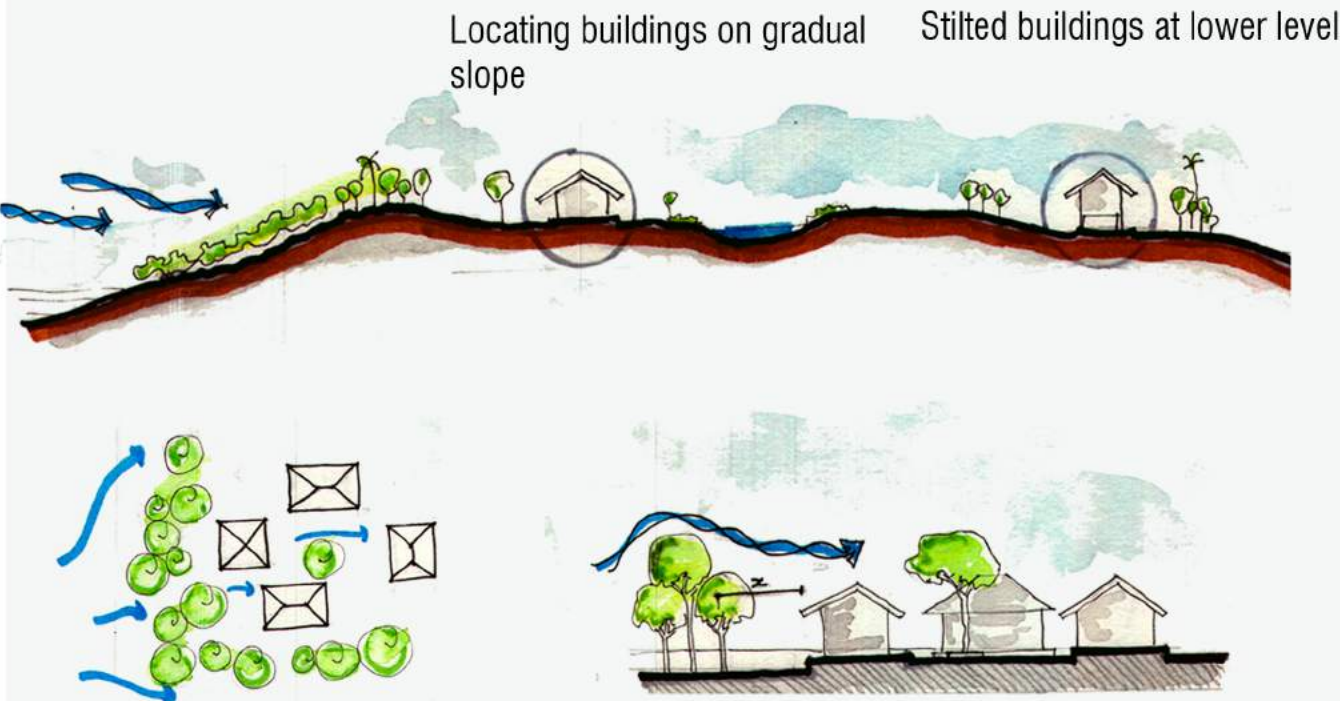
AKIRA MIYAWAKI'S CONCEPT

Creating forest that protect lives. Native plant species can grow faster and can help in cutting down the velocity of winds and waves.

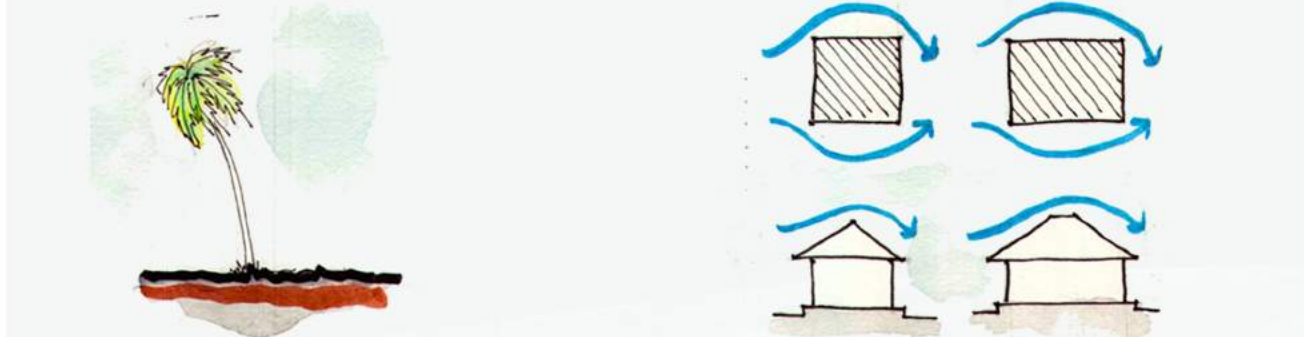


ENVIRONMENTAL RESILIENCE

Vernacular architecture best suits to its climate and environment.



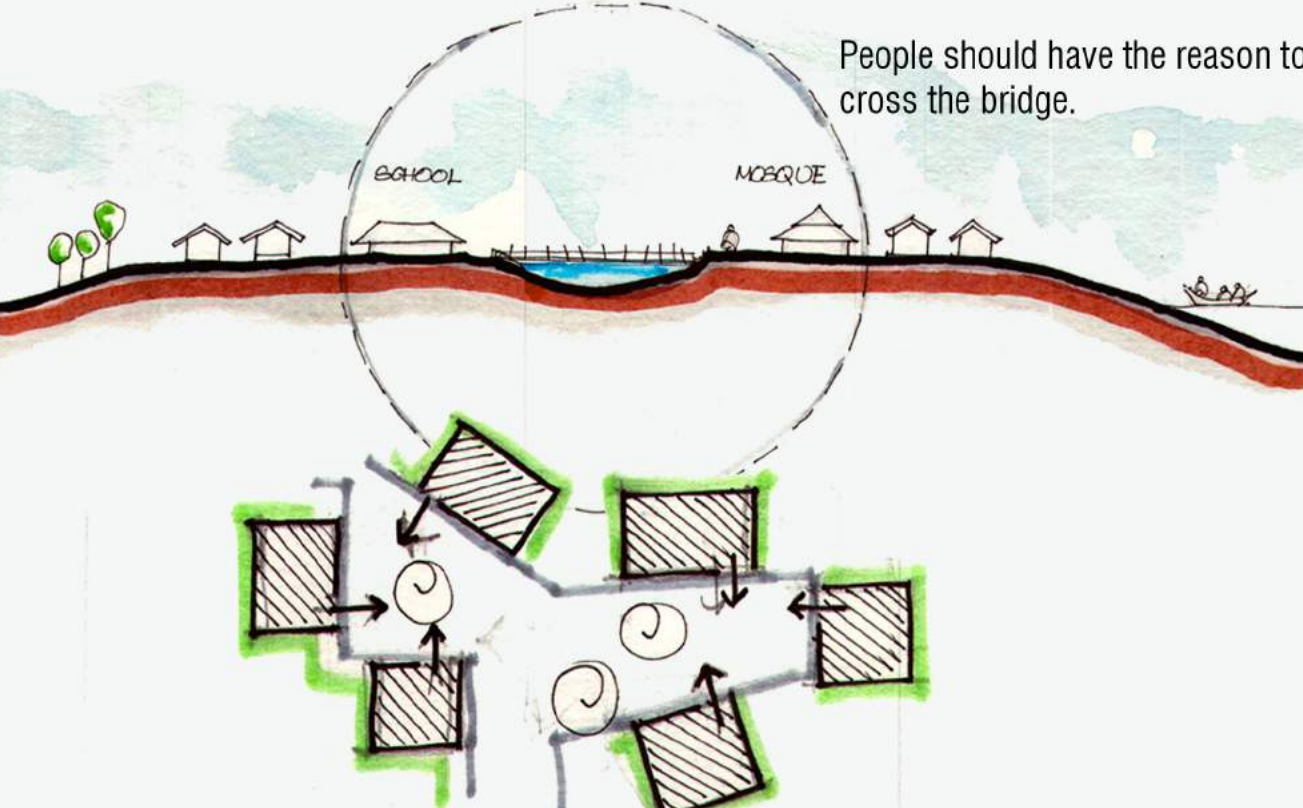
Cluster level-Organisation of buildings and vegetation planning to cut down wind velocity.



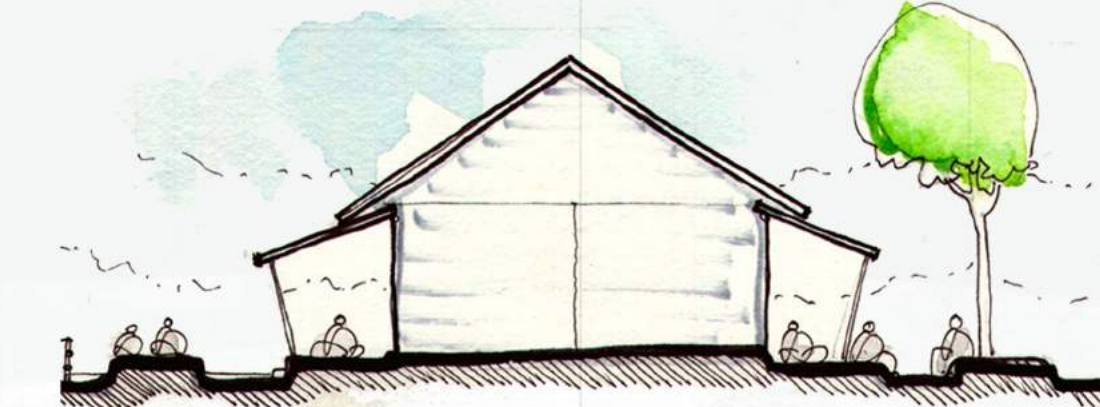
The manner in which trees and plant life adapt to climate hints at ways building might do the same

SOCIAL RESILIENCE

Strengthening the community

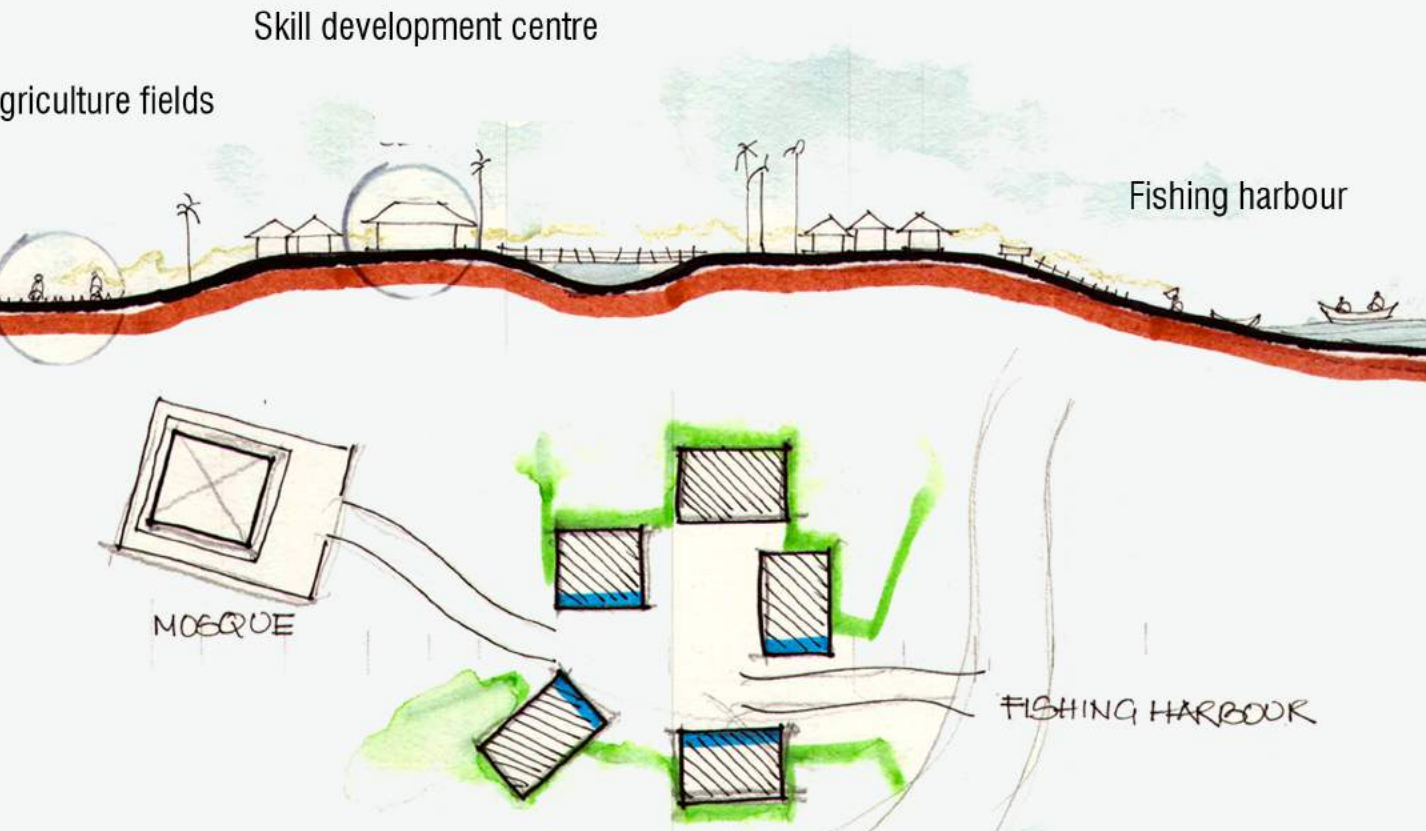


Cluster level-Encouraging interaction through common connected open spaces.

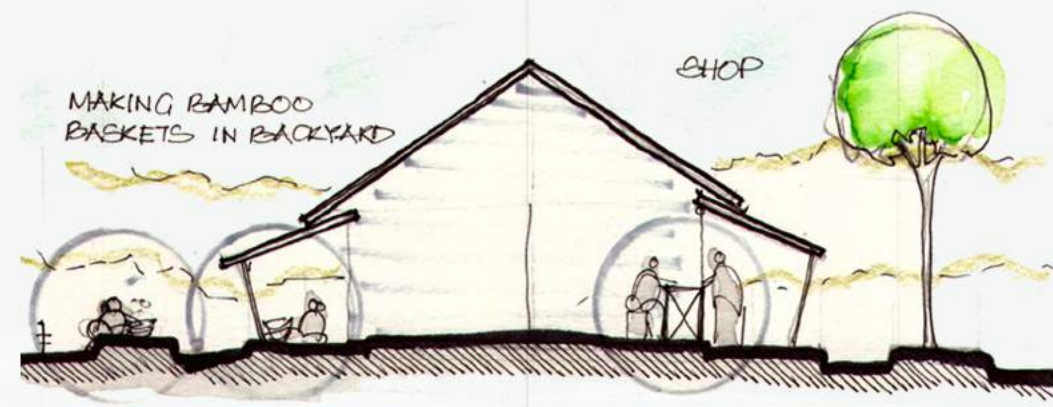


In-out spaces make dwelling and surrounding more lively

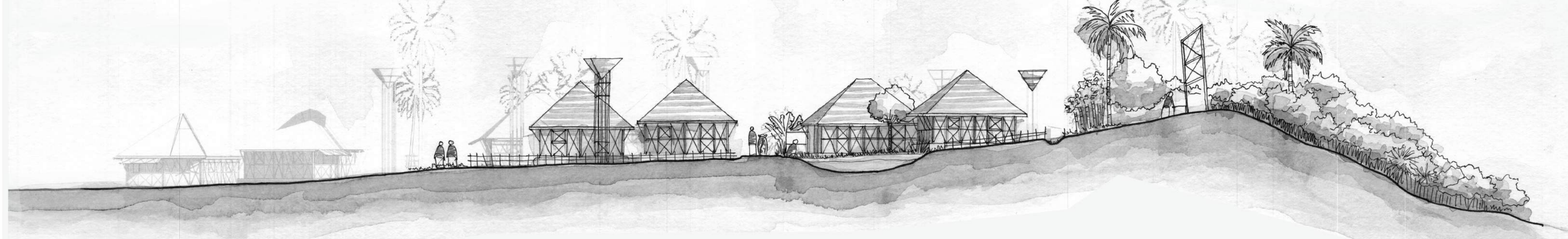
ECONOMICAL RESILIENCE



Cluster level-Paths connecting two major areas provide economic opportunities to the clusters

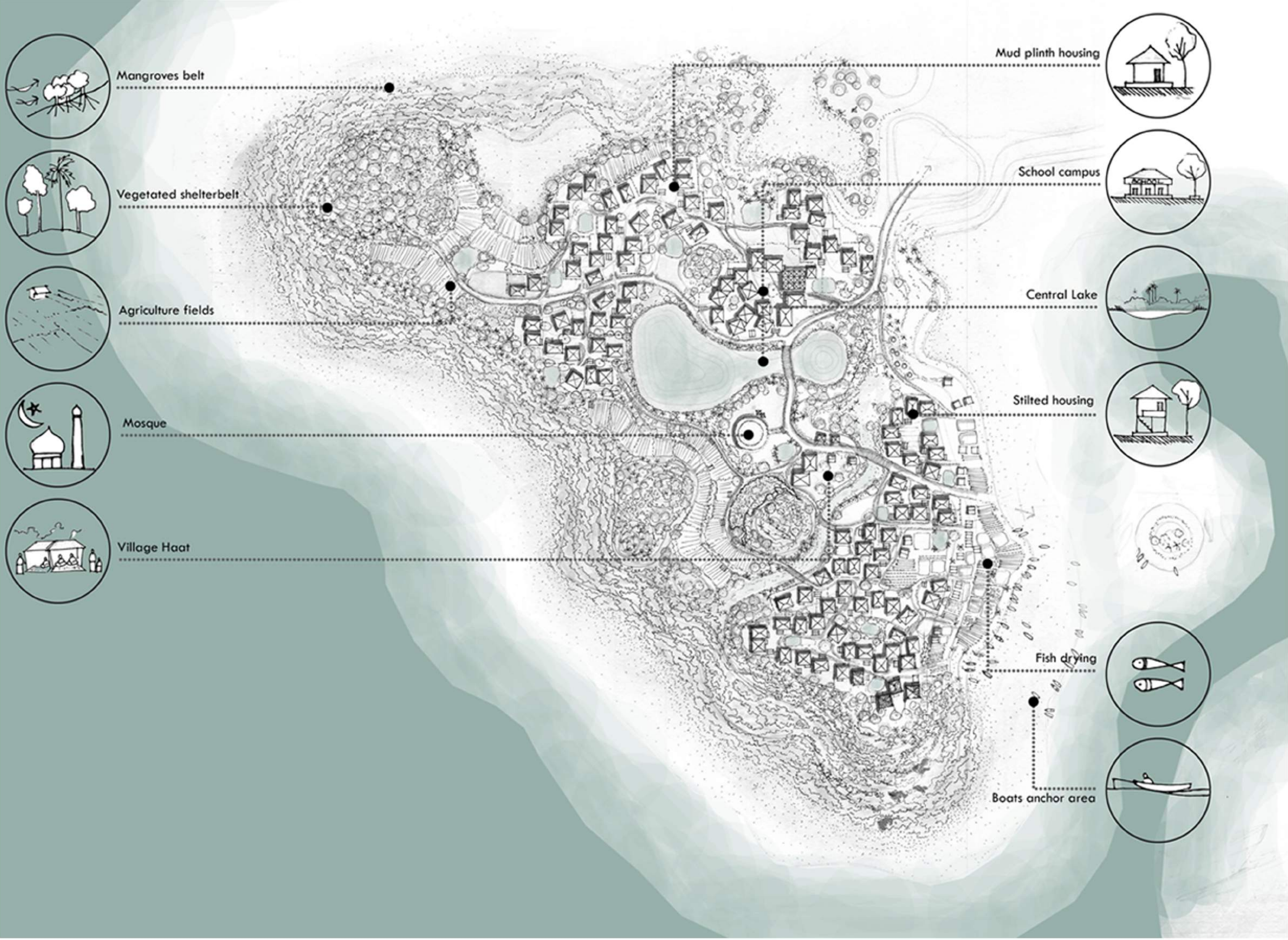


Backyard, in-out spaces provide women to work from home.

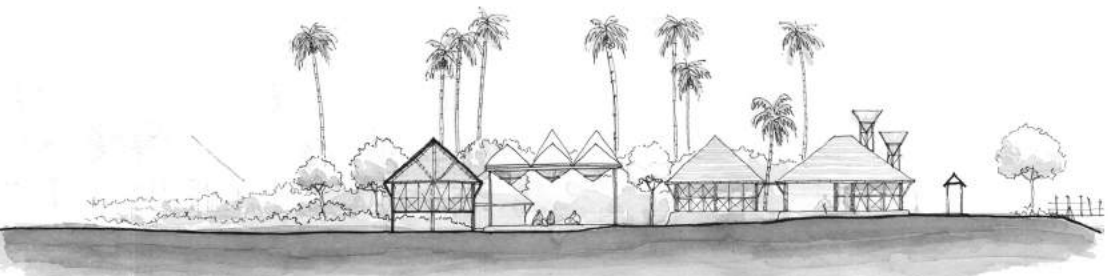


Disaster resilient resettlement of Rohingya refugees in Thengar Char Island, Bangladesh

The project explores the possibilities of implementing architecture as a tool for sustaining humanitarian aids in terms of disaster resilient resettlement for the displaced Rohingya communities on the flood and cyclone-prone silt island of Thengar Char, Bangladesh.

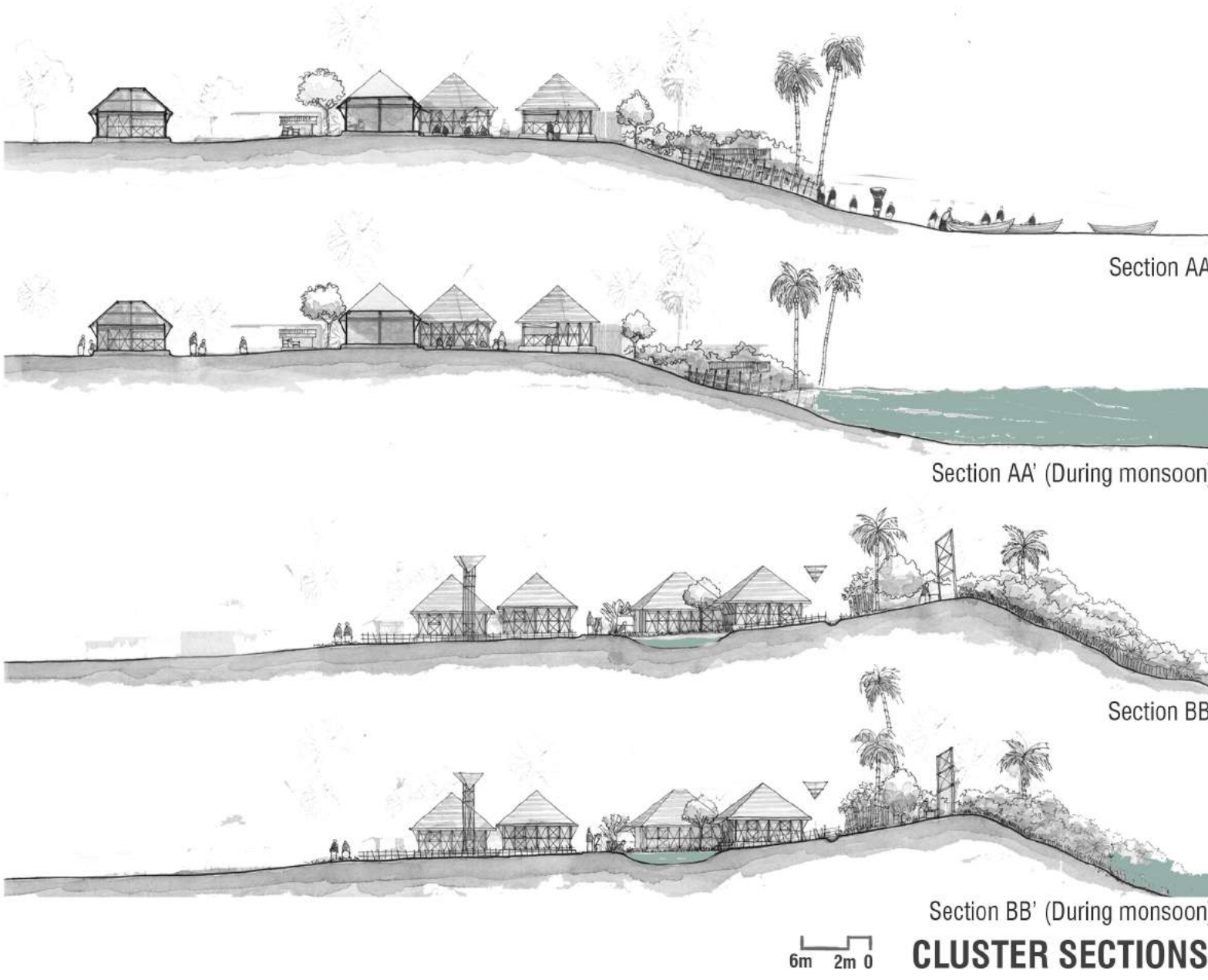
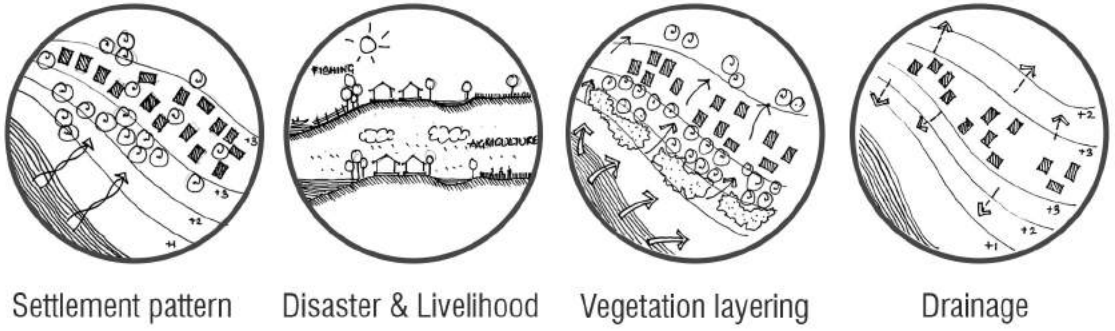


Section AA'



Section BB'

Disaster resilient strategies at settlement level

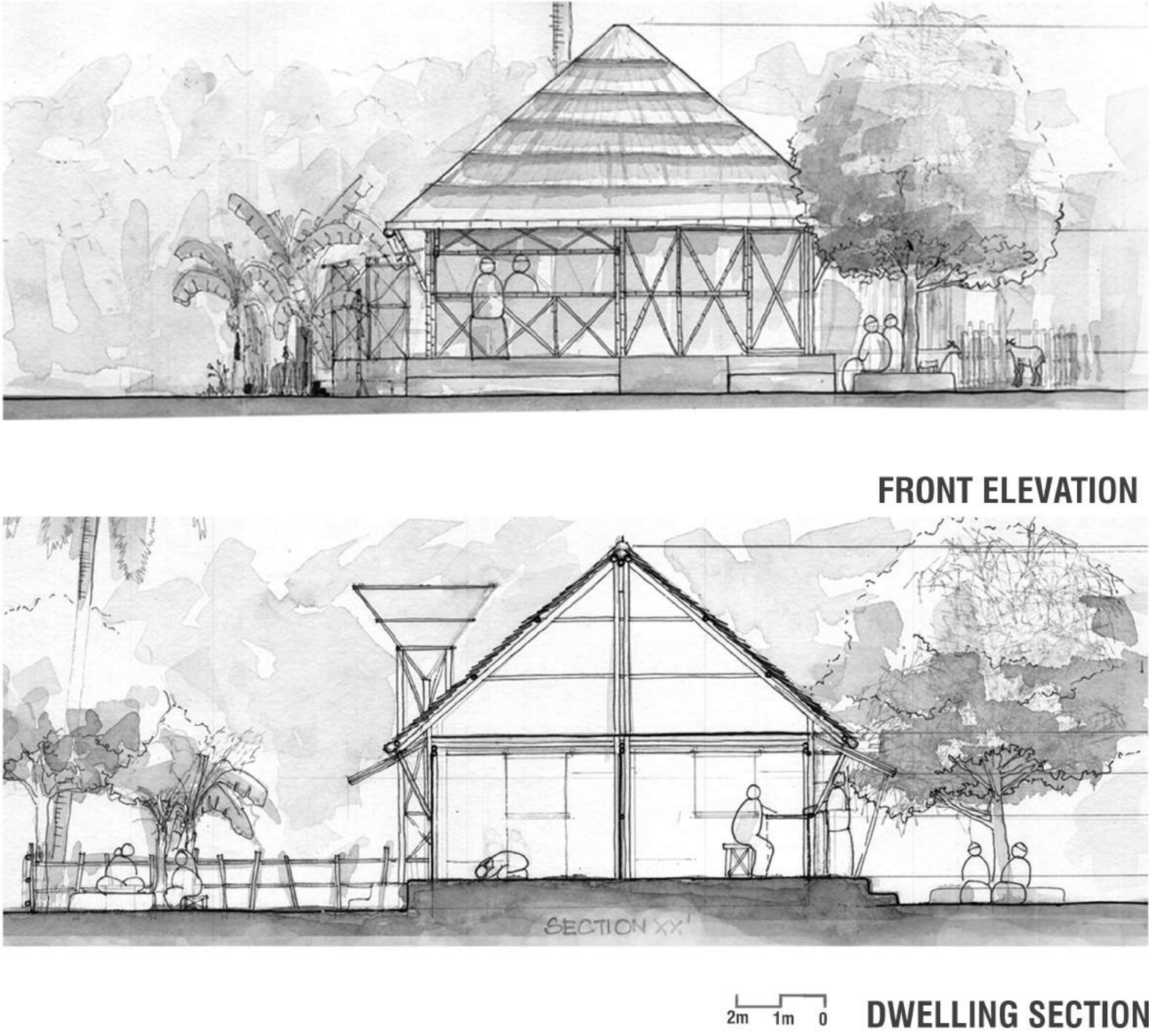
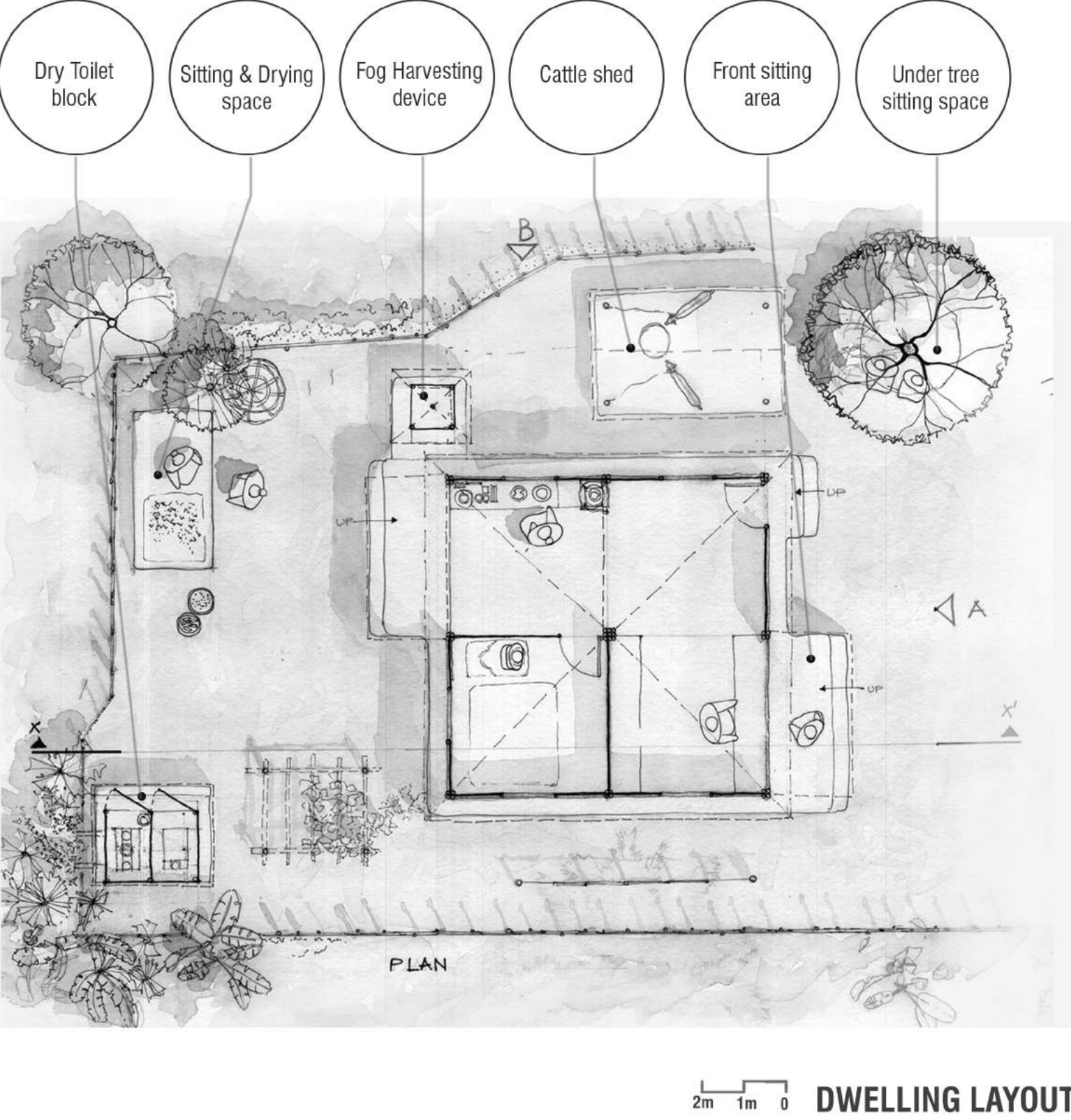


CLUSTER DESIGN

Understanding of Rohingyas social order to give importance to privacy in design, whole cluster has emerged to balance interaction and privacy. Entrance to the units is through shared and interconnected courtyards to achieve social resilience. Front courtyards are mostly used by male members and Backyards are used mostly by female members of the community and women also use front courtyard when men used to go for fishing or agriculture.

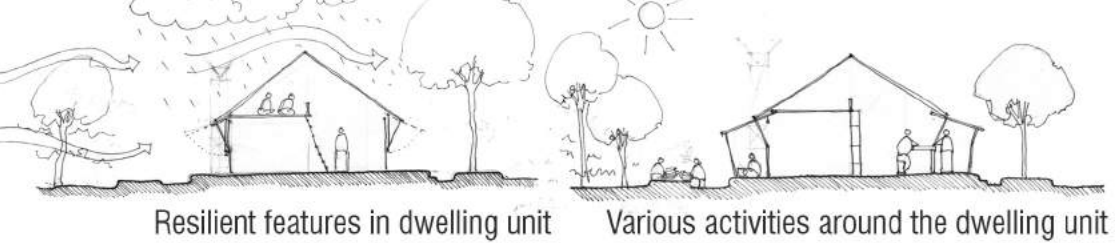


Disaster resilient strategies at cluster level



DWELLING DESIGN

Spaces required for various activities by the Rohingya families are designed along with disaster resilience approach in Dwelling design. Flexibility of space use, affordability by incorporating local materials and techniques and User adaptability by understanding user space requirements are key design parameters for the design of unit.



Disaster resilient strategies at Dwelling level

