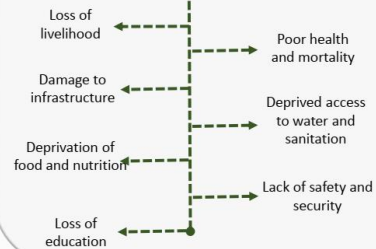


## "Bangladesh is the nature's laboratory of hazards"

Every year 20% of the land mass (~27,000 sq. km<sup>2</sup>) and 30 million inhabitants in Bangladesh are exposed to flooding. Extreme flood events can cover two-thirds of the country (~95,000 sq. km<sup>2</sup>) with nearly 100 million people affected. Climate change is enhancing intensity and the frequency of floods which further exacerbate many other challenges, including livelihoods, poverty and gender relations in interrelated ways.

### Flood Impact



This project aims to co-develop and test a flood resilient home that will provide social, food, water and energy security for vulnerable families living in the flood prone areas of Bangladesh. The project is built on the principals of sustainability and introduced the concept of "home" as a platform to build resilience.

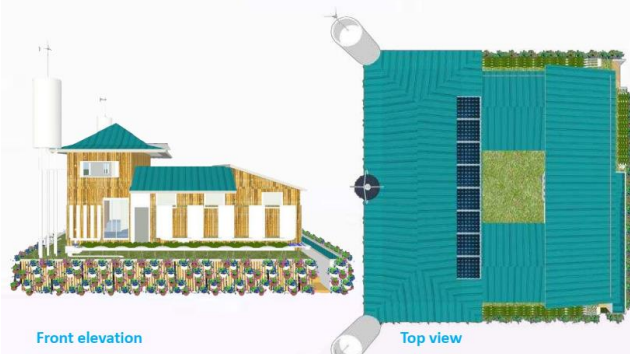
A decent standard of life

Safeguarding life, assets and  
livelihood from disaster (flood)

Giving importance to individual's voice and  
ensuring participation

Protected safety, security and  
dignity of the family members

## "A house is made of walls and beams, a home is built on hopes and dreams"



Isometric view

## People do not want to be displaced; they do not want to live the life of a nomad

- "Home" can be considered as a platform to build resilience
- The design philosophy was evolved aiming at avoiding displacement, reducing dependence on external aid and excessive reliance on ecosystem services, complementing with the infrastructure based solutions
- The featured "home" is built on the following items (6-[F]eature):
  - Float:** A platform that keeps them safe during a flood
  - Food:** Can produce the food, ensuring nutritional balance (protein, carbs, and vitamin)
  - Fire:** can produce electricity from some renewable sources, solar PV panel, concentrator, bio-digester, wind turbine, cyclic power
  - Finance:** It helps continuing the livelihood, provides supplementary income during an emergency, as well as a year-round venture for a small, family from selling out excess energy
  - Free:** Free from external dependence, 100% recycle of waste, built by environment-friendly materials, possess no residual impact on the environment
  - Figure:** Cost figure stand at around GBP 10,000



Side elevation