

Design out the box



Context

The world has recently witnessed a number of natural disasters that has deprived people of shelter for long periods of time.

Tropical Cyclone:

Effects: Tropical cyclones out at sea cause large waves, heavy rain, and high winds, disrupting international shipping and, at times, causing shipwrecks. On land, strong winds can damage or destroy vehicles, buildings, bridges, and other outside objects, turning loose debris into deadly flying projectiles. The storm surge, or the increase in sea level due to the cyclone, is typically the worst effect from land falling tropical cyclones, historically resulting in 90% of tropical cyclone deaths.

Locations: Tropics



Earthquake:

Effects: Shaking and ground rupture are the main effects created by earthquakes, principally resulting in more or less severe damage to buildings and other rigid structures. Earthquakes can also cause landslides, avalanches, fires, tsunamis and floods. This can lead on to water contamination, reduced or no communications and unstable environment. Especially with tsunamis the landscape can be completely unrecognizable due to the destruction caused by the wave.

Locations: Plate boundaries.



Floods:

Effects: Physical damage - Can damage any type of structure, including bridges, cars, buildings, sewerage systems, roadways, and canals. Water supplies - Contamination of water. Clean drinking water becomes scarce. Diseases - Unhygienic conditions. Spread of water-borne diseases. Crops and food supplies - Shortage of food crops can be caused due to loss of entire harvest. Transport - Transport links destroyed, so hard to get emergency aid to those who need it.

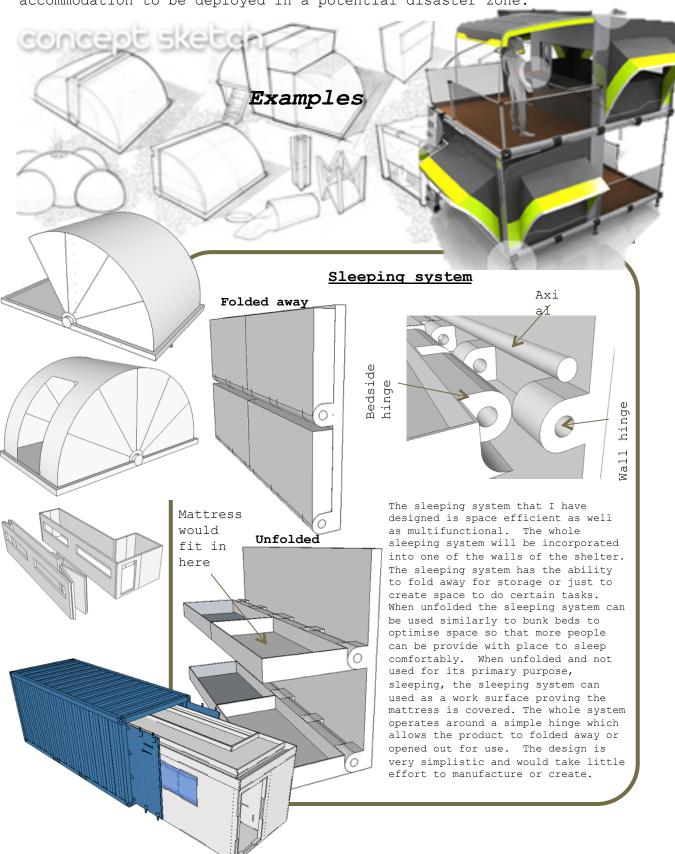
Locations: Areas near water or low lands.





Task

Design an easily transported, erected, and insulated shelter system that could support a family, and provide temporary living accommodation to be deployed in a potential disaster zone.





Design an easily transported, erected, and insulated shelter system

Design Ideas		
Design Ideas		



Interior Accommo	dation	·