



New amphibious homes in the Netherlands





The first development of amphibious housing in the Netherlands was in Maasbommel, along the Maas River, designed and built by Factor Architecten and Dura Vermeer.

Maasbommel, Netherlands

photo by Hans van Beek

BUOYANT FOUNDATIONS Create homes that float in a flood



Mission

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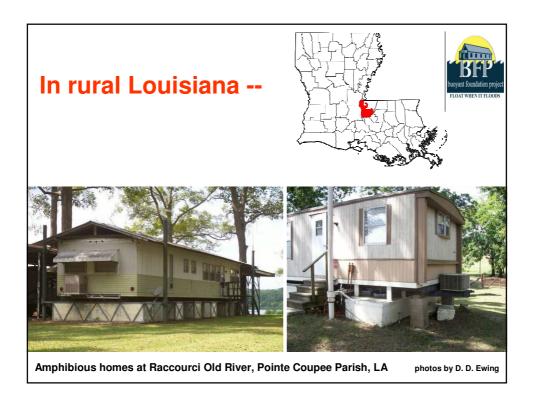


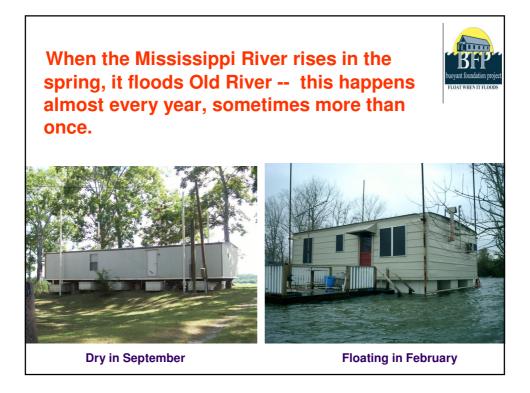
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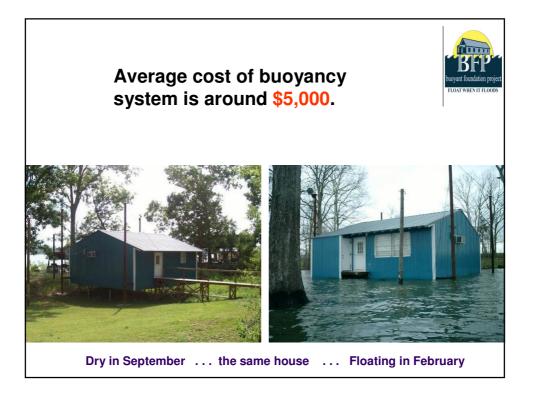
Buoyant Foundations provide increased safety and resilience in cases of extreme flooding and support the restoration of both the physical and the social structures of pre-Katrina New Orleans neighborhoods.



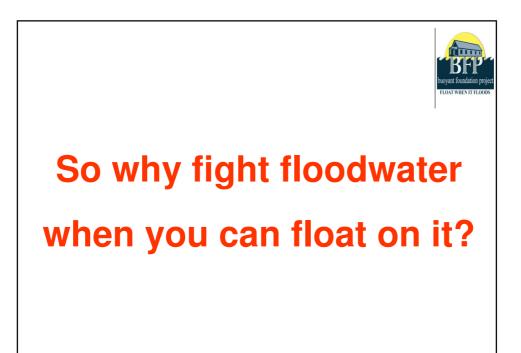


For over 30 years, amphibious houses at Raccourci Old River have been rising and falling reliably with the level of flooding of the Mississippi River.







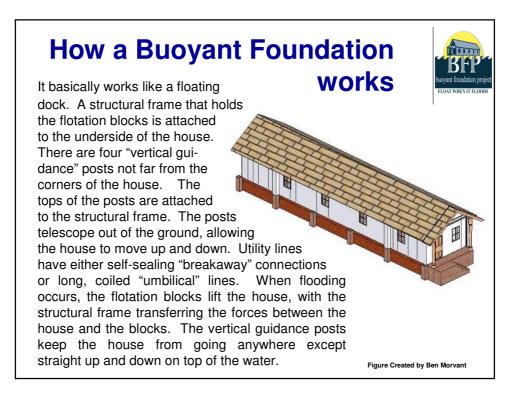


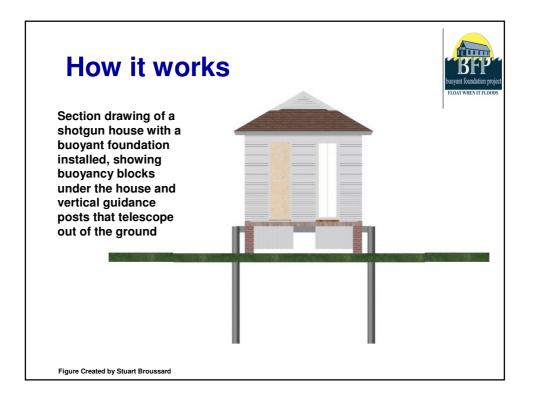
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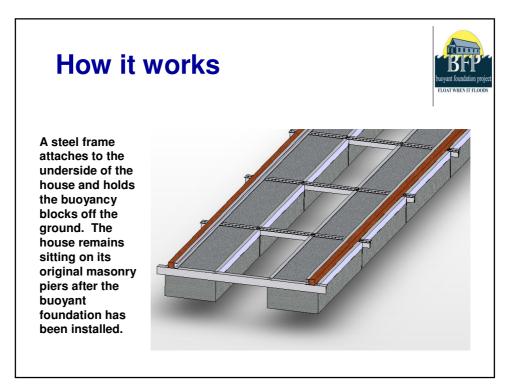


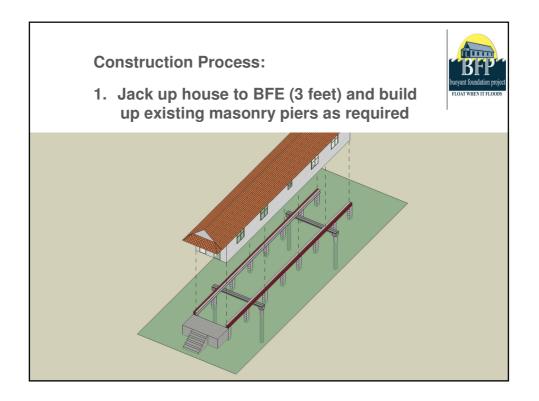
Advantages

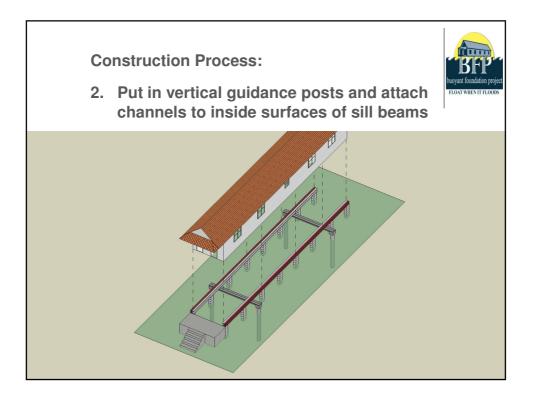
- House normally remains close to the ground
- Elevates house to exactly what is required to stay above water, even if high above BFE
- Less susceptible to hurricane wind damage
- Alleviates problems of soil subsidence and elevated sea level due to global warming
- Looks essentially the same as before Katrina
- Original traditional architecture is preserved
- Neighborhood retains original character

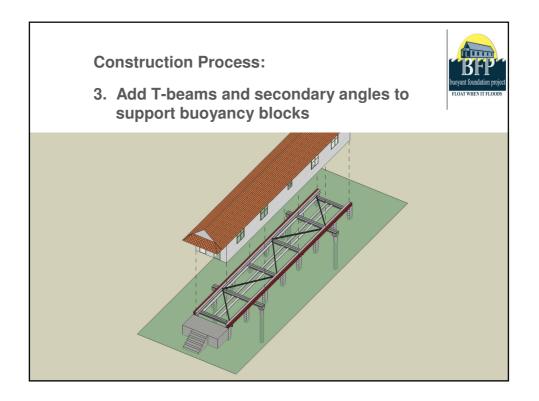


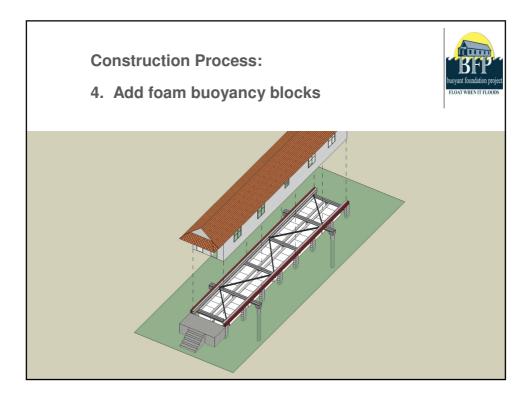


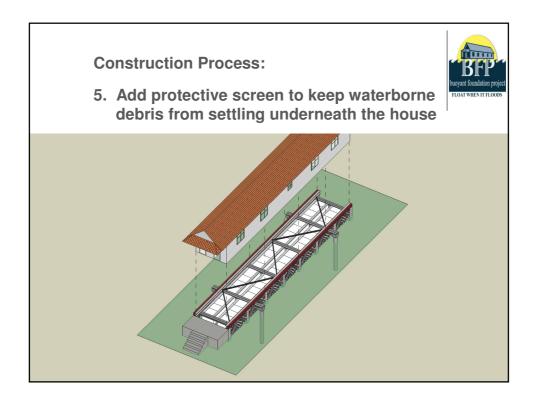




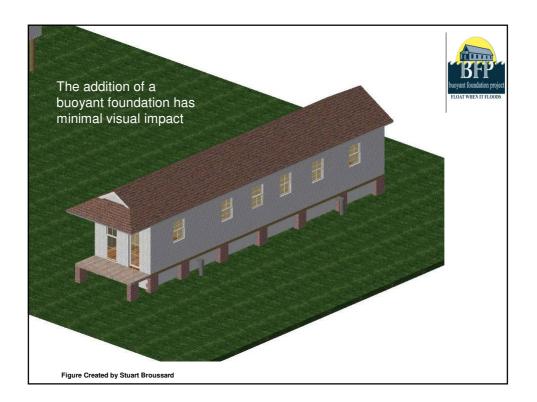




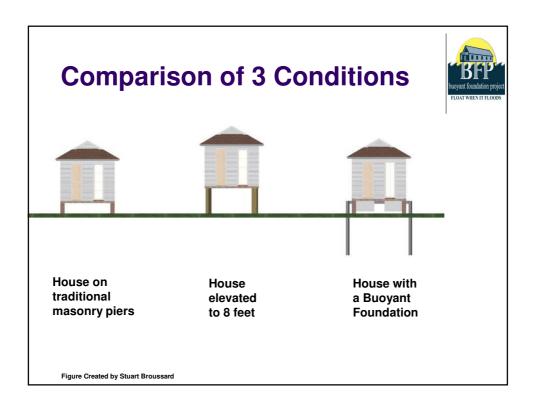






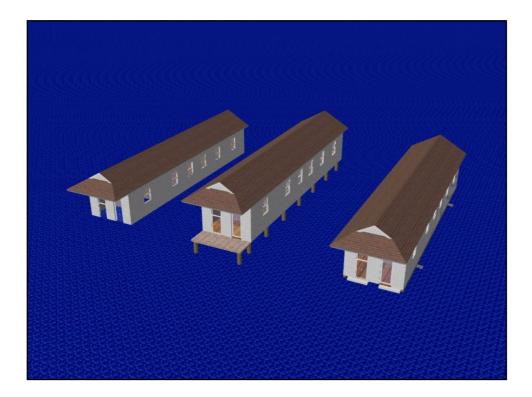


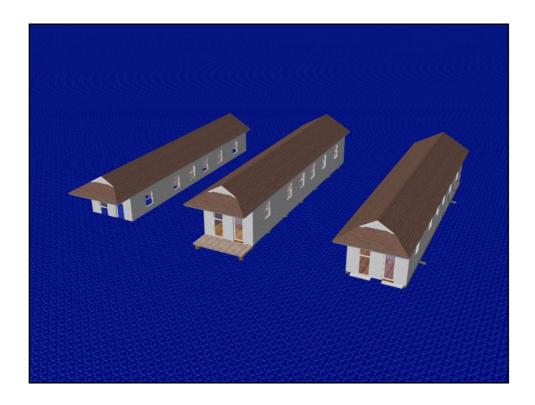


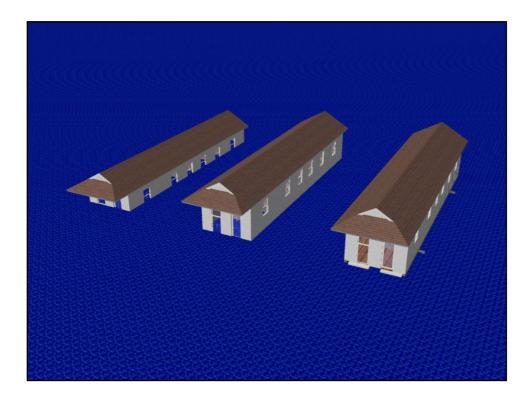


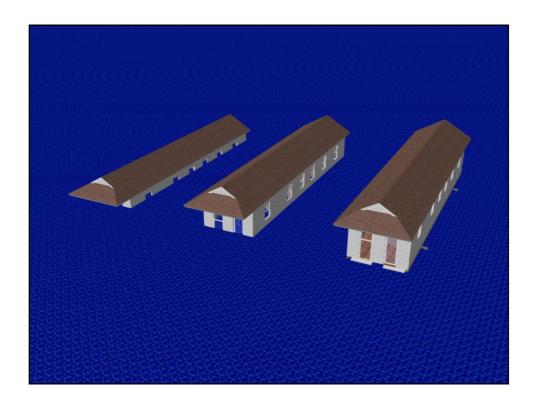


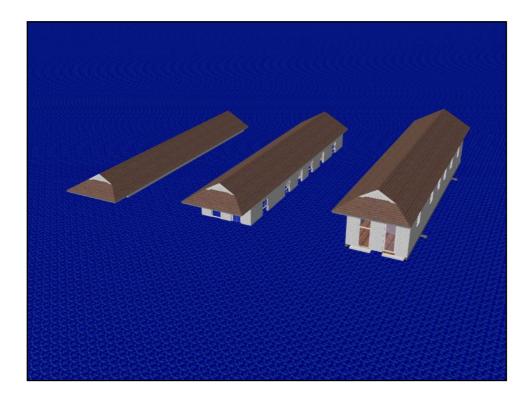


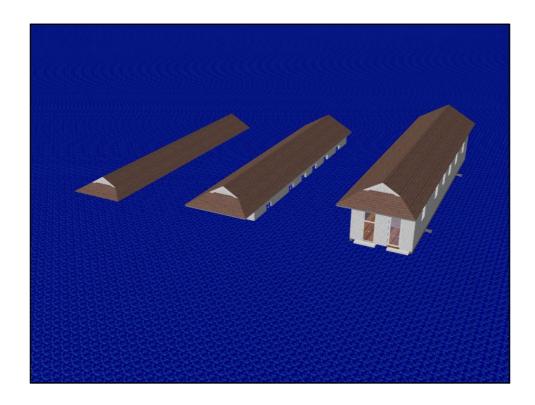


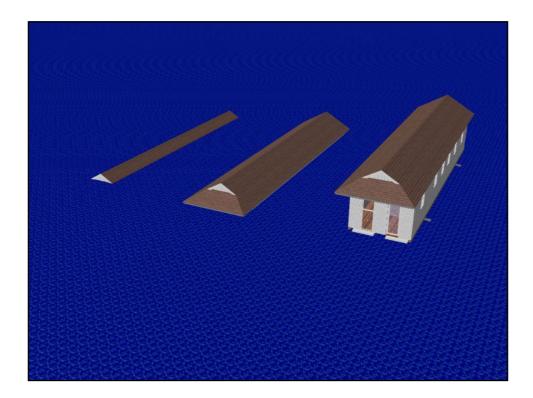


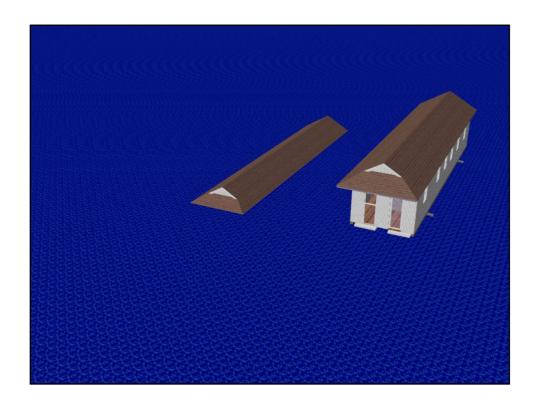


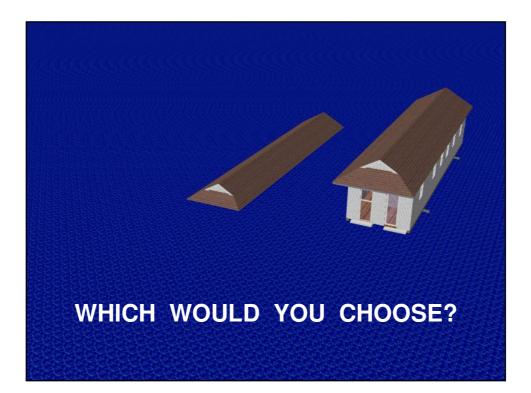


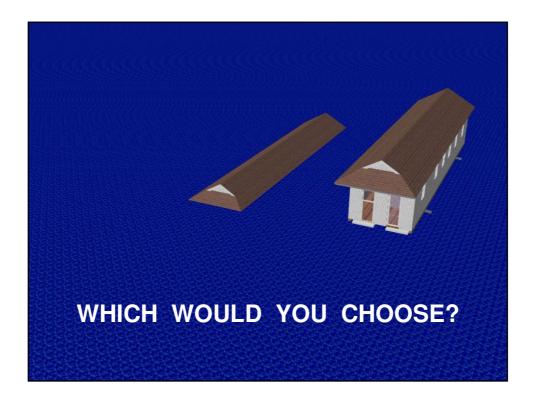


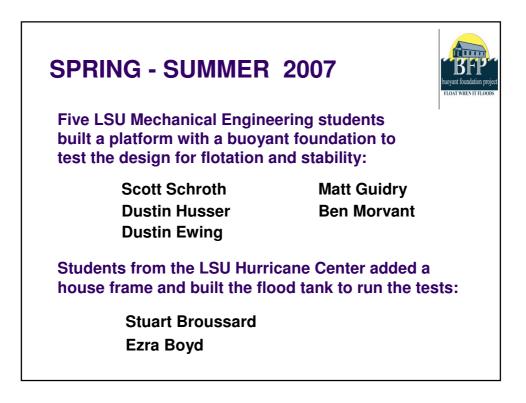


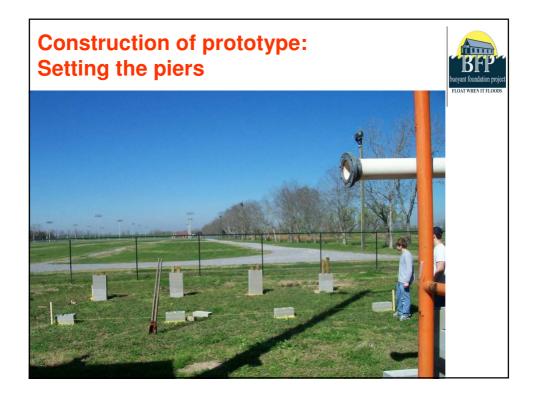
















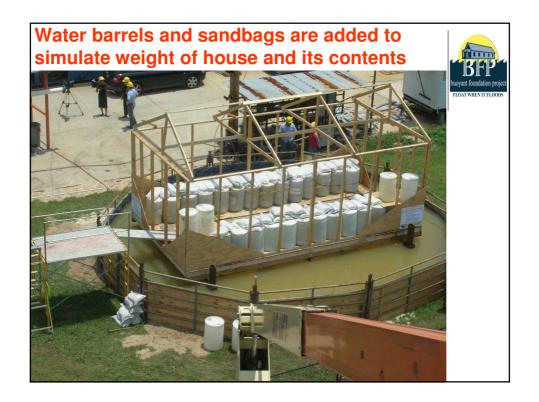


















Lakeview House in New Orleans



This house in the Lakeview neighborhood of New Orleans was built by a contractor as a commercial spec house. It was completed in the fall of 2007, but to date it has not been occupied. Due to difficulties with the permitting process, the contractor was denied a Certificate of Occupancy... but that may soon change.

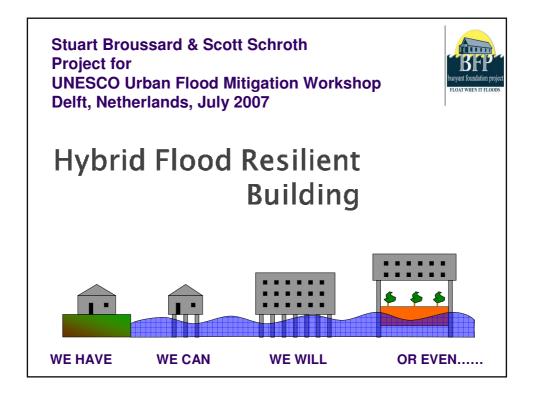


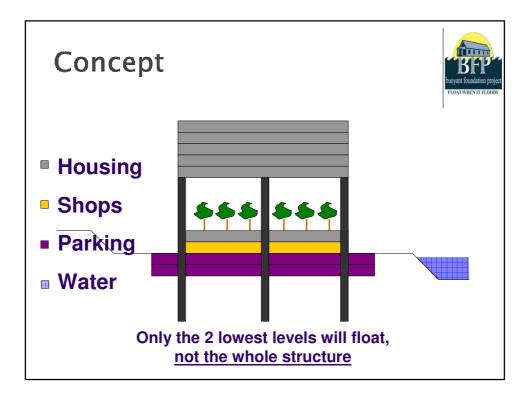
"FLOAT House" Make It Right Foundation, New Orleans

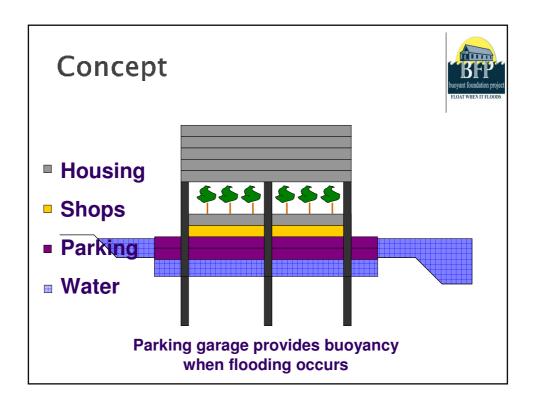




Actor Brad Pitt launched the Make It Right (MIR) Foundation in 2007, promising to give to former residents of the Lower Ninth Ward in New Orleans 150 affordable, sustainable and storm-resistant new homes.









Future **Considerations:** Usina **Sustainable Materials**

The use of recapped, recycled empty water bottles in place of EPS (styrofoam) flotation blocks:

Bundles of air-filled, sealed plastic bottles can provide both buoyancy and redundancy.

Dhaka,







currently a Master of Architecture student at the **University of** Waterloo School of Architecture, each unit consists of two to eight floatable bamboo dwellings clustered around a shared courtyard.

floodproof technology

The stationary brick base structure contains plumbing, utilities and rainwater storage cisterns. Each two-room amphibious bamboo dwelling unit is living and sleeping quarters for a single family.





