Abstract
Hurricane and flood resistant permanent housing for those who live in the dangerous slums of Jimani, Dominican Republic. Our project can help contribute to fix the issue of the millions of impoverished people that do not have adequate housing and provide an example that can be used anywhere around the world.

Background
- Current housing lacks protection from heavy rains and hurricanes
- Homes have little security as most are made of sheet metal

Program Design
- Emphasizes community, economic solutions and social improvements
- Multigenerational households which makes choosing a house size limiting
- 70% of households has a female head who is a single parent with children under the age of 15
- The duplex design allows single mothers the opportunity to live in a common building with other women facing the same situation, thus facilitating new relationships and support systems
- Micro-loan financing features low interest rates with a 5 year payback period
- In-kind labor allows our group to donate 5 community centers

Construction Methods
- Cement base/stilts
- Sandbags in walls
- Adobe siding
- Hip roof: ModRoof
- Shades for cooling
- Gutter

Design Concept
- A gutter system will be used to collect rainwater in a trough located on the side of the house for families to collect water for their daily needs.
- The roof is a 4 plane hip roof made of ModRoof paneling that withstands high winds during floods and hurricanes

Community centers will be centered around 40 complexes all facing the south

Sandbags will be placed in wall frames to provide weight and stability during hurricanes

Adobe will be used as the sidings of the wall

Gutters will be used to collect rainwater in a trough located on the side of the house for families to collect water for their daily needs.

The roof is a 4 plane hip roof made of ModRoof paneling that withstands high winds during floods and hurricanes

References