

THE ACACIA RESILIENT HOME

Presenter(s):

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LLC

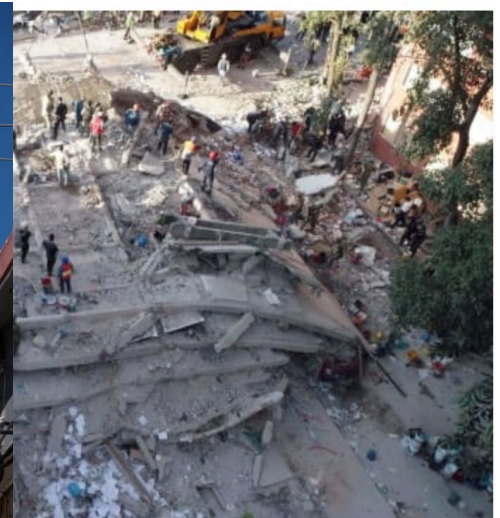




Cubans waded through a flooded street in Havana, on September 10, 2017. Photograph by Yamil Lage | AFP | Getty Images



Photograph by Gabriella N. Báez for CNN



Streets in Mexico City flattened by a powerful quake in Mexico City on September 19, 2017. Photograph by AFP | Getty Images. More than 100 people, according to official tallies, with a



Irma Maldonado stands with Sussury her parrot and her dog in what is left of her home after Hurricane Maria passed through on September 27, 2017 in Corozal, Puerto Rico. Photograph by AFP | Getty Images



Fire in South Wales, on New Year's Eve. Photograph by Matthew

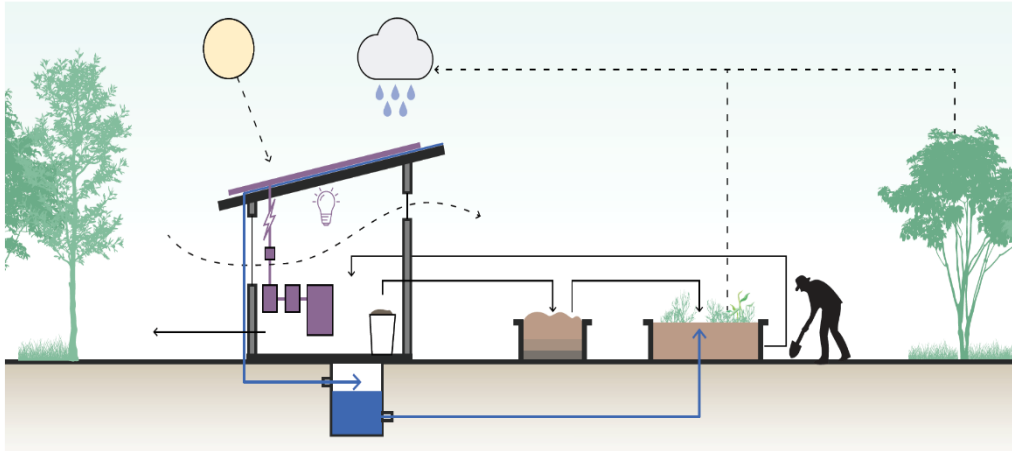
Acacia Network – Part of the Solution

- 2nd largest Latino-based non-profit in the United States;
- Headquartered in NYC and located in six states + Puerto Rico;
- We've created approx. 570+ energy efficient in a portfolio of 1,900+ units and have with another 950+ currently under construction;
- Palacio Dorado (Toa Alta, PR) - 103 unit senior housing project completed in 2018, and certified as a green building;
- Upcoming...our Resilient Homes to be constructed in Caguas, PR.



The Acacia Resilient Home

RESILIENT DESIGN SYSTEM DIAGRAM



- 1,000 gal. Water Reservoir
- 200 gal. Rain harvesting Tank
- Filtration System
- Potable Water Usage Off-Grid up to 2 weeks
- Gas Infrastructure for Gas Appliances



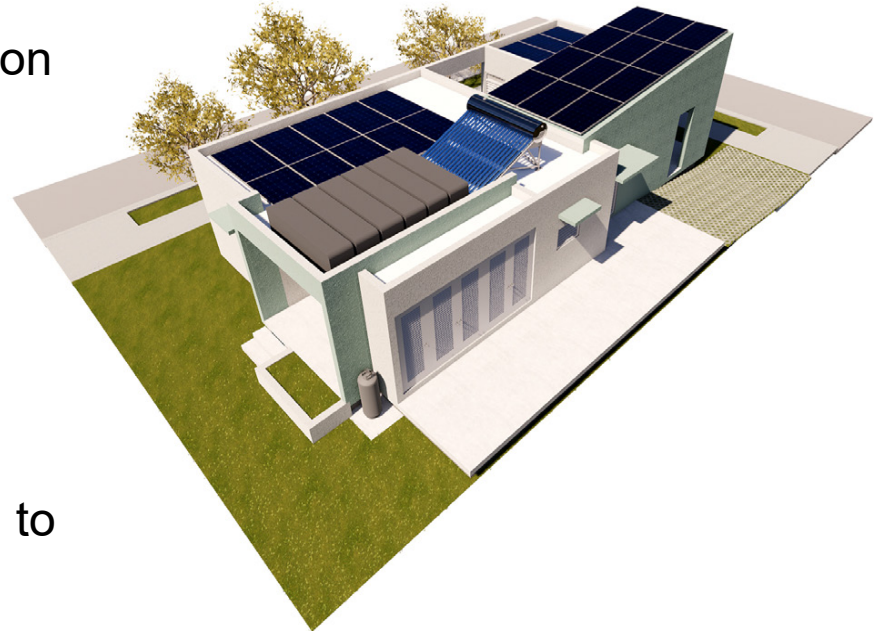
- Annual Power Generation: 10,000kw/hr (833kw/hr monthly)
- Monthly Average Home Demand: 800 kw/hr
- System capable of storing power for up to 14hrs of continuous usage Off-Grid.(No A/C)



- Passive design strategies
- modular design
- adaptable design
- Earthquake Resistant

The Intended Impact

- Provide long-term sustainable, green, and **resilient** housing for low-moderate income families;
- Create a scalable model for implementation across the island and in other disaster & non-disaster areas;
- Develop a vacant and blighted site in the Municipality of Caguas (executed Development Agreement in Fall 2019);
- Monitor prototypes (for a 2-3 year period) to determine efficiencies & resiliencies for scalable implementation;
- Reduce cost and construction timeline through economies of scale.

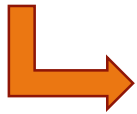


Funding Request

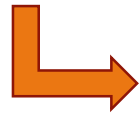
Acacia is requesting an initial investment of **\$414,000** for:



Construction of the Resilient Homes



On-going monitoring of prototype functionality
(Cost not included in request)



Continued analysis of scalability and cost
reduction (Cost not included in request)



Cost to date (i.e. arch plans, etc.) have been covered through our *Ayuda Puerto Rico* fundraising efforts raised after Hurricane Maria.



Thank you.



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