

B.A.R.A. G.U.A.B.E.L. PROGRAM

BRINGING AWARENESS TO AT RISK AREAS - GENERANDO UNIDAD A
TRAVÉS DE BUENAS OBRAS, EDUCACIÓN Y LIDERAZGO

DEREK CHILDS, JACK FREDO, HOLLY MASON

PPRR PROGRAM

MEET OUR TEAM



Derek Childs

Architectural Engineering '23



Jack Fredo

Data Science '23



Holly Mason

Industrial Engineering '23

PRESENTATION STRUCTURE



- **Why Piñones?**
- **Program Goals + Objectives**
- **Connecting With Community**
- **Technical Mapping System**
- **Identify Strategic Partnerships**
- **Future of the Program**
- **Acknowledgements**

WHY PIÑONES?

Piñones: The Island Within an Island



**It is important
to take care of
one another in
times of need**

It is difficult for Emergency vehicles to access Piñones via the single two-lane road

- Delayed response times & evacuations

Piñones was among the last areas to receive power after both Hurricane Maria and the recent 4/6 power outage

- Restricts communication



Preparation is key!





PROGRAM GOALS + OBJECTIVES



PROGRAM GOAL

Establish connections within the Piñones community, raise awareness for the B.A.R.A. G.U.A.B.E.L. program, and design a cohesive network that informs residents of incoming natural disasters as well as shares information about community events, opportunities, and services available to them.



WHILE IN PIÑONES

OUR OBJECTIVES

1

Connect the Piñones Community to the Program

2

Fill the Leadership Positions within the BARA GUABEL Program

3

Establish Hubs/Community Centers for the Program

4

Expand the BARA GUABEL Program Technical Mapping System



CONNECTING WITH THE COMMUNITY



Data Collection

1. Shawn introduces group and explains BARA GUABEL program
2. They allow the team onto their property to discuss details
3. Conversation is opened up to the IQP group members and Shawn translates information between the two parties
4. Resident volunteers their information for the technical mapping system



Self-Sufficiency

- Residents on their porch preparing to cook crabs
- Invited into the backyard - papayas and pigs
- Evidence of **self-sufficiency** and knowledge of the land
- Agreed to take part in BARA GUABEL



Local Challenges

- Conversation with 100+ year old resident and his younger female relative
- Born before Puerto Rico had a registry - does not know his true age
- Difficulties acquiring food stamps
- Used local vegetation as medicine



- The woman's goal was to open up a gas station in Pinones
- Receptive to participating in BARA GUABEL
- Volunteered their information to the technical mapping database

Discouraging Past Experiences

- This lady demonstrated an inviting reaction at first
- Her neighboring relative overheard the conversation and came out to join in
- Told the group that neither of them were interested in continuing the conversation



Conversations with Shawn Halliburton

- It was not until the industrialization of Puerto Rico that the land started to become unrecognizable to the residents.
- In the late 40's, the Loíza residents were a large part of the labor force that built the modern infrastructure of Metro San Juan. From 1950-2000, the community watched as their way of life was annihilated.
- When Piñones residents reach out for help, they receive little support from the government, who had promised them that industrialization would benefit them.

TECHNICAL MAPPING SYSTEM

Mapping Tool

- Centralizes survey data
- Click on a blue pin to see information pertaining to that specific community member
- Linked to survey and excel sheet in shared google drive account



Mapping Tool Database Findings

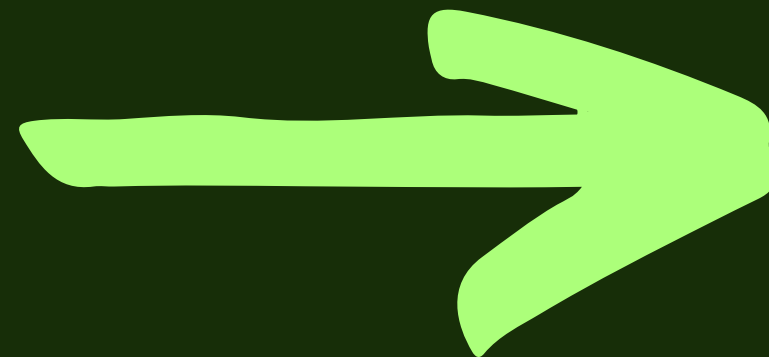
Examples

- 75% of surveyed households own a generator
- Surveyed community members report a wide variety of technical skills throughout the neighborhood
- 72% of surveyed community members report to have access to a vehicle

What does this mean?

The community possesses skills and resources to increase resiliency.

What's missing?



Strategic Partnerships



IDENTIFYING STRATEGIC PARTNERSHIPS

Giomar Cruz

Leader in Piñones who's recognized for the work he's doing across Loíza. He organizes recreational events for the children in Piñones and gets the youth involved in art programs, musical programs, horseback tours, food and clothing drives, and other various community-driven activities.

- Gio has agreed to serve as a Sector Leader in BARA GUABEL



Centro Comunitario Emiliano Figueroa Torres

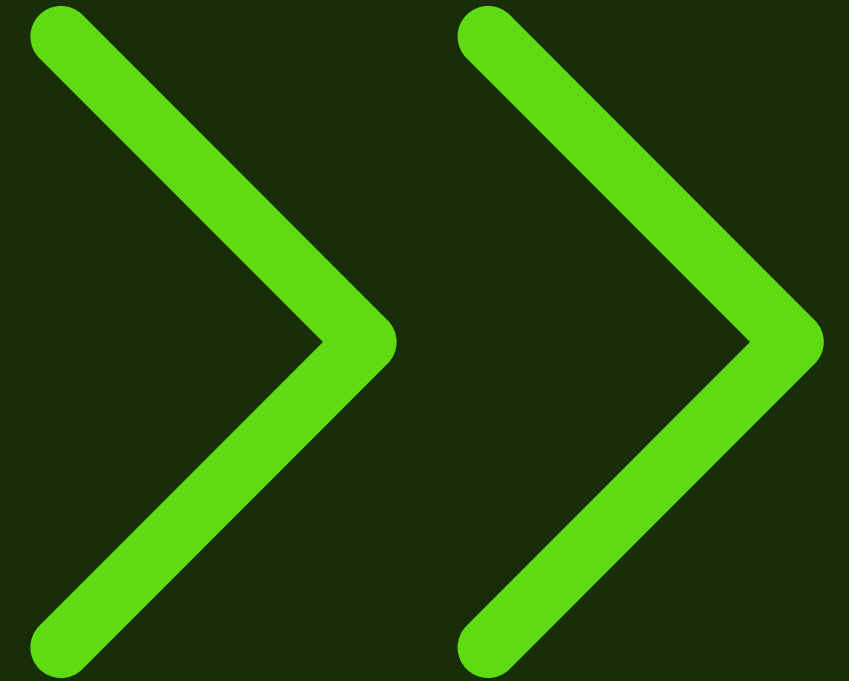


- Cultura ActivaPR
- P.A.Y.E - Piñones Aprende y Emprende
- Salud Para Pinones
- Ohana
- Mandejo De Emergencias
- Naturales (Forest Work)
- Iglesia (Church Volunteers)
- Pro Artes Visuales
- LimPiaR
- **BARA GUABEL**



FUTURE OF THE PROGRAM

BARA GUABEL Future Recommendations



- **Develop a method to regularly update the community on BARA GUABEL's progress**
- **Work with the community center non-profit groups to create a centralized platform to promote their causes**
- **Request a space at the community center and stock it with emergency supplies**

Piñones Community Recommendations



- Replace gas powered generators with solar powered ones

- Reach out to each others in both times of **prosperity** and in need

- The whole is greater than the sum of the parts



PPRR

ACKNOWLEDGEMENTS

We would like to extend a very special thank you to COPI as well as Shawn Halliburton and Paola Rolon Diaz. We have gained so much knowledge throughout our time with you and will forever be grateful for the time we spent in Puerto Rico working on the BARA GUABEL program.



THANK YOU!

Any Questions or Comments?