

# Assessing Intra-Community Public Health Impacts from Compounding Food, Energy, and Water Insecurities



**Anaís Roque**, *The Ohio State University*

**Enid Quintana**, *University of Puerto Rico*

**Sameer H. Shah**, *University of Washington*

**Mary Angelica Painter**, *University of Colorado Boulder*

**Fernando Cuevas**, *Interamerican University, Metro Campus*

**Fernando Tormos-Aponte**, *University of Pittsburgh*



Image: Presentation of Community Health exercise with community leaders in Workshop 1 (Feb, 2022)

# Original Research Overview



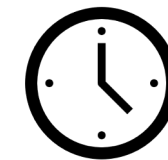
## Purpose

- Explore the relationships between social capital and community health resilience in the wake of compounding hazards.
- Develop an accessible and action oriented survey for community leaders and public health officials to assess local needs before, during, and after natural hazards.



## Research Site

Corcovada, Puerto Rico



## Timeline

Phase 1: December 2021– July, 2022

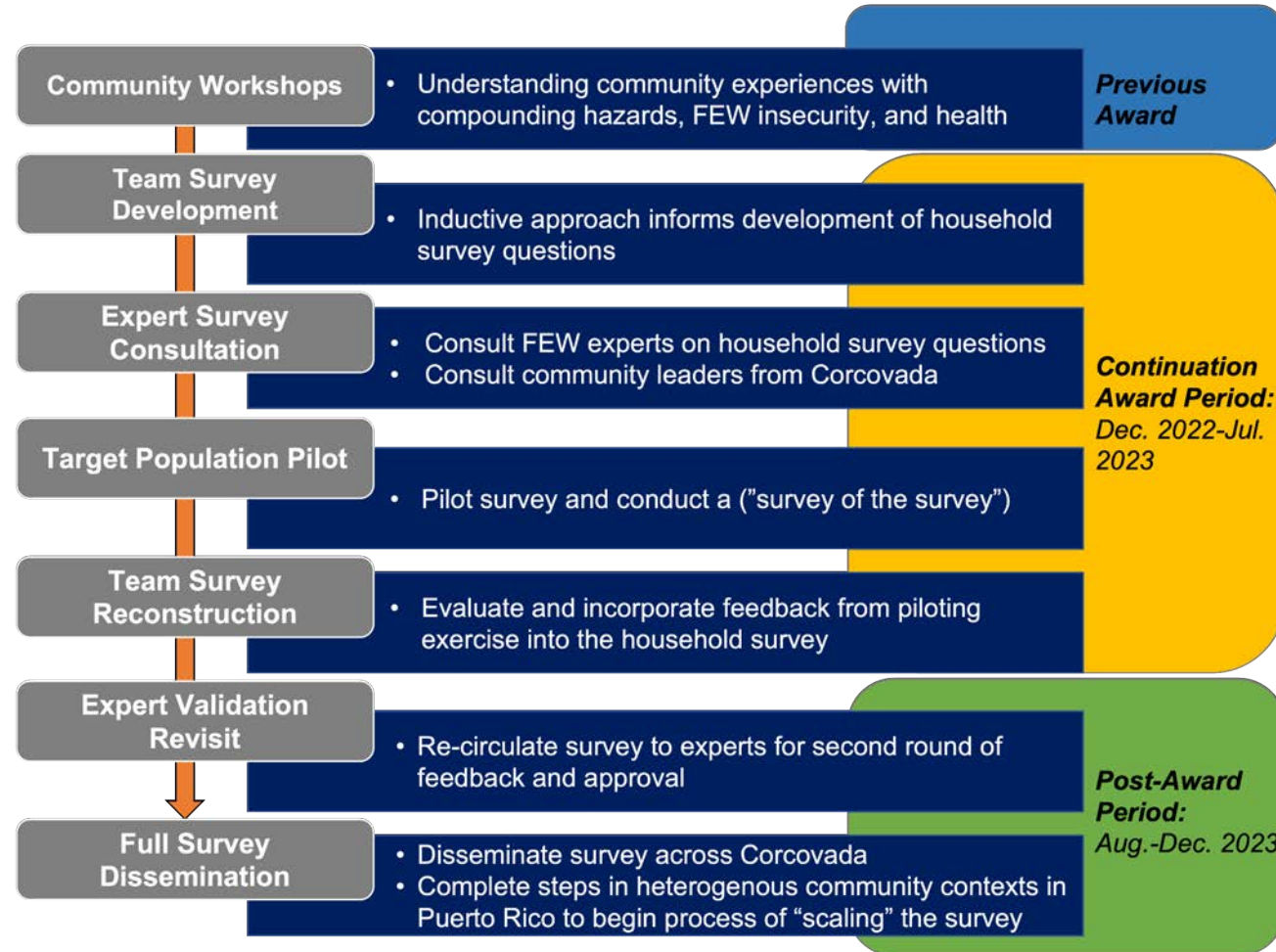
Cont. Award: January – July, 2023

# Continuation Research Overview

## **To co-develop an accessible and efficient survey for:**

- Communities to understand interacting and reinforcing impacts of FEW insecurities and their public health outcomes; and
- Obtain input from experts and community participants to enhance the design and useability of the survey.

# Methods



# Preliminary Findings

## 1) Team Question Development Outcomes

- “before hazard”, “during hazard/disaster”, and “ after disaster”

## 1) Expert Feedback Outcomes

- clarity, consistency, grammar, and numbering

## 2) Target Population Pilot Outcomes

- local language, gaps in questions



Image: Presentation of results to the community. July 2023

# Public Health Implications



1

Early identification of “at-risk” populations.

2

Monitoring health outcomes and interventions across context and time.

3

CBPR and co-development carries important implications for understanding public health needs.

# Public Health Implication

1



Image: Receiving feedback from community water aqueduct map. July 2023

- Early identification of “at-risk” populations.

Access project website here:



# Public Health Implication

2



Image: Corcovada Water Tank

- Monitoring health outcomes and interventions across context and time.

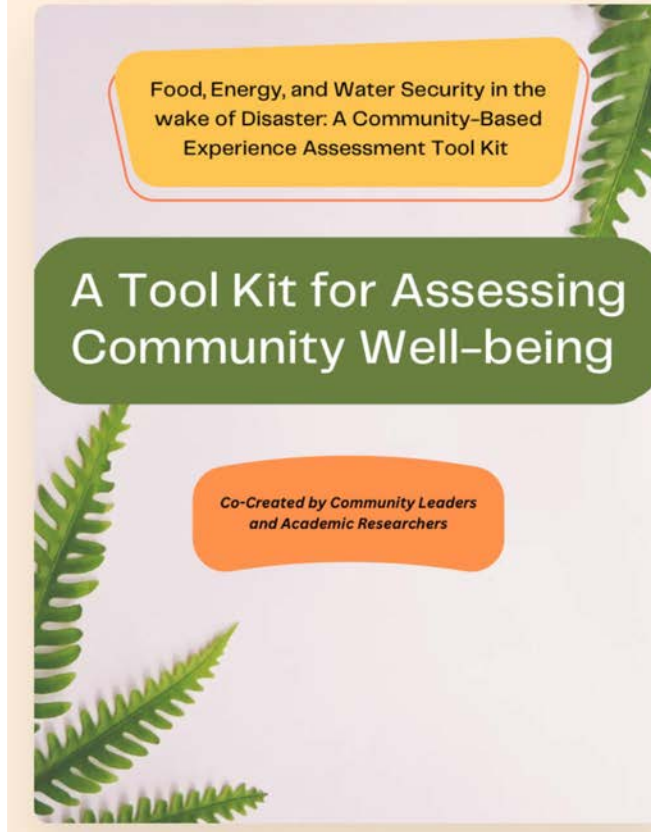
Access project website here:





# Public Health Implication

3



## Toolkit For Survey Deployment

A toolkit is an action-oriented source of information and resources, or tools, that guide users to develop a plan or organize steps for an activity, such as a survey.

This toolkit was co-created in an effort to identify community needs in an easy and accessible way for community leaders, public health official and other interested stakeholders. This toolkit can be utilized for disaster preparedness, response and recovery.

Click anywhere on the title page to the left to view the toolkit in its entirety.

- CBPR and co-development carries important implications for understanding public health needs.

Access toolkit here:



# Acknowledgements

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Image: Community Leaders and team members after Workshop Day 2 (Feb , 2022)