



Hemali Oza

Ph.D. Student, Environmental Health Sciences
Second Year ARCS Scholar Herz Global Impact Award



EMORY UNIVERSITY

Measuring the Climate Resilience of Urban Informal Communities to Environmental Shocks and Stressors

CLIMATE CHANGE

THE CHALLENGE OF OUR TIME

- Climate change is already playing a role in development and infrastructure.
- There is a need to build more resilient households and communities.
- Practitioners and researchers need the ability to measure resilience.



RESILIENCE

is the capacity to absorb, cope with, or adapt to a changing environment.



EXAMPLE 1

Building stronger water infrastructure to withstand droughts and floods.



EXAMPLE 2

Using temperature and water-sensitive crop options to withstand droughts.

Resilience is difficult to quantify since it's an intangible construct.

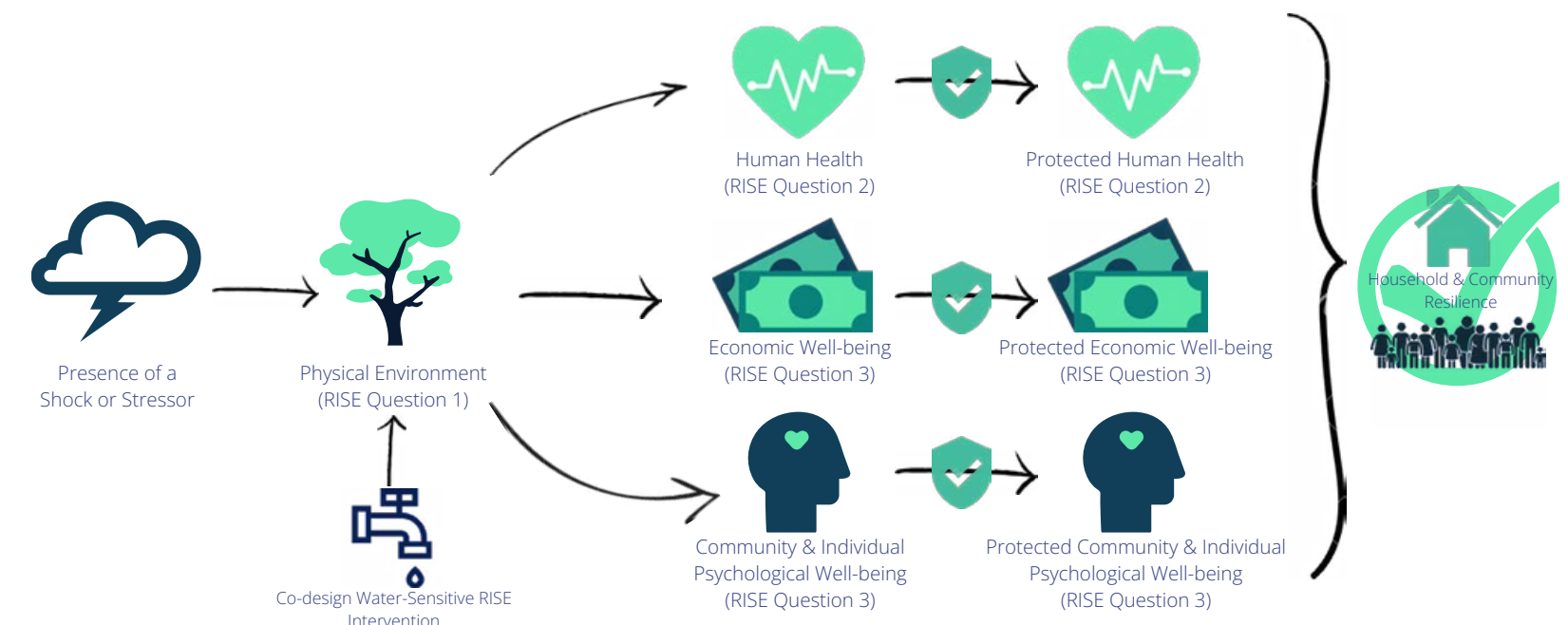
RESEARCH OBJECTIVES

TO ASSESS THE IMPACT OF RISE INTERVENTIONS ON HOUSEHOLD AND COMMUNITY RESILIENCE

- Develop and validate a context-specific resilience measurement tool for RISE
- Implement the tool at the 24 RISE settlements in Indonesia and Fiji*



RESILIENCE HYPOTHESIS



Resilience is the quality to absorb, cope with, or adapt to shocks and stressors.

Household Resilience Framework & DOMAINS*

Based on an a priori framework Serfilippi et al., 2018



CONTRIBUTIONS

of this research



VALIDATE
the resilience measurement tool.



EXAMINE
the impact of RISE interventions.



DISSEMINATE
the results at every level.