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Global Adaptation Action:

Building Equity Through Collaboration Before Crisis

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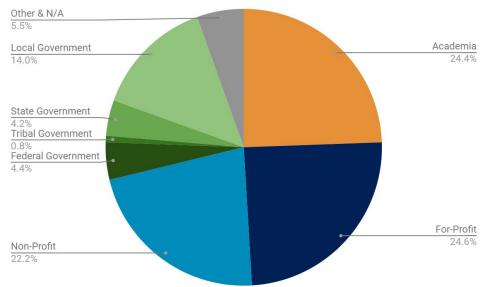
Adaptation Professional *Someone who uses future climate information*

into their day to day work.



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Organizational Members at ASAP



Recent Additions: *Arup and Institute for Sustainable Communities*





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2022 Webinar Schedule



- Innovative adaptation practice with tangible results
- Cross-sector project teams
- ► Justice and equity

Adaptation + Mitigation Nexus

Transportation Innovations (May 18)

Global Adaptation Action

- Breaking the Disaster Cycle: Building Equity Through Collaboration Before Crisis with <u>ARISE-US</u> (TODAY)
- Multilateral Adaptation Action (September 21)

Advancing the Adaptation Field

- ► The Adaptation Workforce (**November 16**)
- Measuring Adaptation Success (January 18)

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Global Adaptation Action:

Building Equity Through Collaboration Before Crisis







Camila Tapias Spin Global and ARISE-US Antoine Richards Institute for Diversity & Inclusion in Emergency Management

Shefali Juneja Lakhina Wonder Labs





Ma. Laurice Jamero Manila Observatory

Elisa Mariel Trujillo Leyva ARISE-Mx

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UN Disaster Risk Reduction ARISE Value Proposition

The global recognition of the significant, lasting impact that climate change and disasters will have on economic growth, community wellbeing, and related financial and economic systems, is rapidly growing. For companies, big and small, to survive and even prosper in this environment, they need to adapt fast. The uncertainties and transformation brought about by climate change and disasters can be seen as significant risks but also as opportunities.

By connecting a passionate community of business and other public and private partners, ARISE works as a catalyst for business innovation and for knowledge sharing to reduce risk for a sustainable and resilient future. Through its regional and national Networks and links into the global policy discussions on sustainability, climate action and disaster risk reduction, ARISE offers its members the opportunity to demonstrate leadership in cooperating with public partners to reshape business, society and financial frameworks to implement tailor- made solutions for all industries and sectors, leading to take risk-informed decisions, formulate adaptive strategies and implement preventative actions.



arise ©

ARISE – **Priorities**

- <u>SMEs</u>: enhancing the resilience of Small and Medium Enterprises.
- <u>Investors</u>: integrating disaster and climate risk into investment decisions by the financial sector.
- <u>Insurance</u>: incentivizing disaster risk reduction and enhanced data for risk-informed decision-making through engagement with the insurance industry as global risk manager.
- Infrastructure: supporting resilient infrastructure development.



ARISE Members

- It is a UNDRR-led network of private sector entities which currently comprises:
 - More than 28 national networks.
 - ✔ Over **360** member companies.
 - ✓ Nearly **850** members in the shared community cloud across **49** countries.
 - Members from private and public sectors.
- Members voluntarily commit to support and implement the Sendai Framework Disaster Risk Reduction 2015 – 2030, aligned with the 2030 Agenda for Sustainable Development and its Sustainable Development Goals (SDGs), Paris Climate Agreement, New Urban Agenda and Agenda for Humanity.

aris

• Join ARISE-US Network: https://www.linkedin.com/groups/13958427/

www.preventionweb.net/arise

Case Study #1 An equitable decision intelligence tool for emergency management







Camila Tapias Spin Global and ARISE-US Antoine Richards Institute for Diversity & Inclusion in Emergency Management

Cultivating Equity Through Collaboration

Wednesday, July 20th , 12:00 PM-1:30 PM EST



Camila Tapias



Camila Tapias SPIN Global

Strategic Planning.

We provide our clients comprehensive expertise, guidance, and decision support solutions.

Partnerships.

We prioritize inclusion of private, non-governmental and public sectors, and traditionally underrepresented groups.

Impact Innovation.

We combine operations, research, and technology with science, data, and "last mile" user needs.

Neighborhoods and Nations.

Our solutions are sensitized to reflect the operating environment at any scale.



Developing an Equitable DEI Tool

Bias in data

The need for an equitable DEI tool

Preventing further harm in underserved communities



DEI in Emergency Management

Equity must be intentional

Emergency managers should acknowledge existing inequities

There is a need to develop partnerships across sectors

Functional Pilots

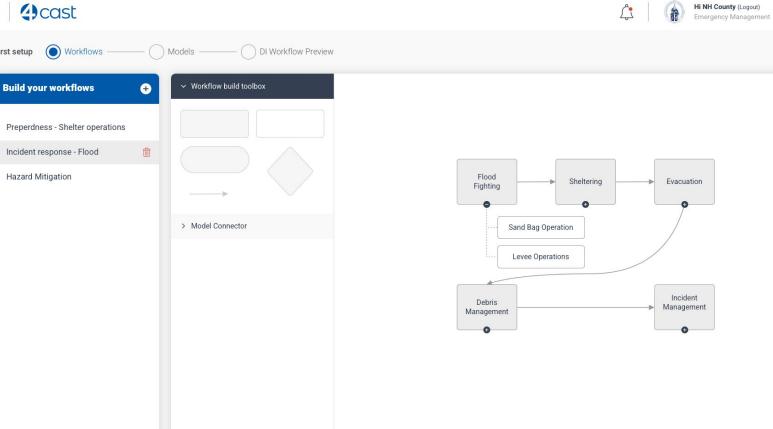
New Hanover County, NC

Workflow review

Scenario-based approach

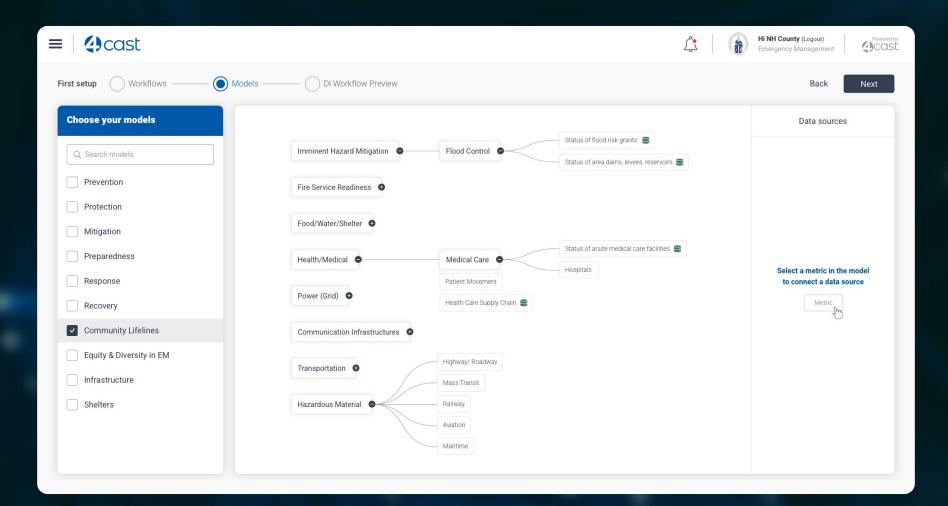
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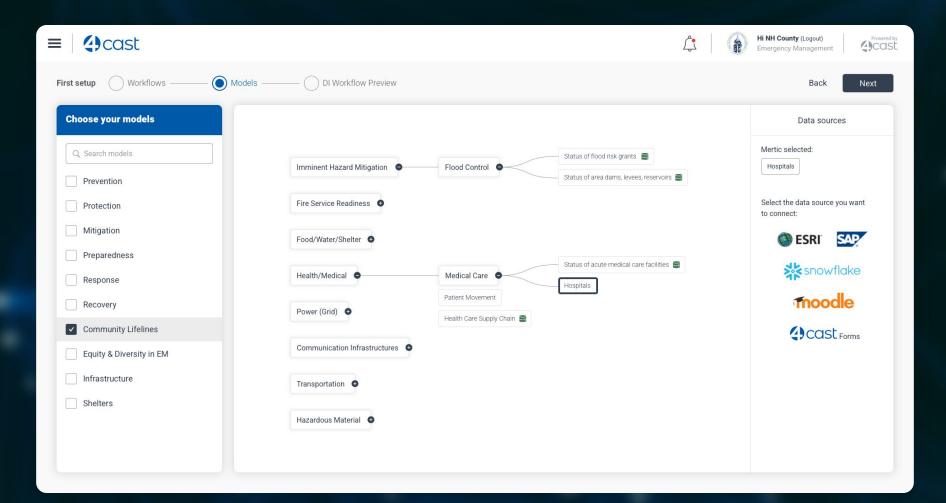
First setup

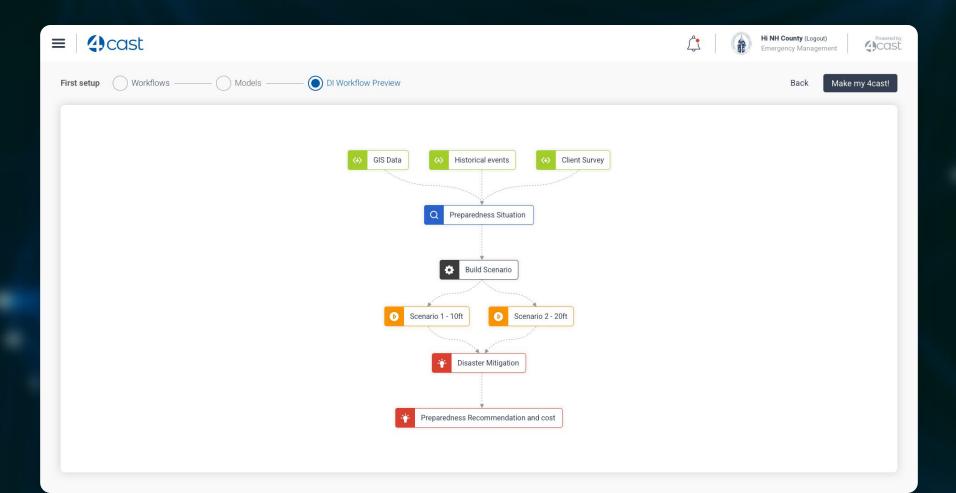


Next

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2 Flood Scenarios



≡ (cast			Hi NH Cour Emergency	ty (Logout) Management
Dashboard Graph Map Workflow Struc	ture Comparison	Additional Repo	orts	
Scenario 10ft	Community Lifelines	92%	Decision Intelligence	Highlights
Scenario 20ft	Imminent Hazard Mitigation	95% ()	▲ 5% of all properties in New Hanover County have greater than a 26% chance of being severely affected by flooding	Infrastructures
	Fire Service Readiness	85% ①	A maritime evacuation plan is required	⊗ 86%
	Food/Water/Shelter	99% ()	First responders need training in flood scenarios	Shelters
	Health/Medical		Shelters and emergency equipment must be inspected	Shekera
	Power (Grid)	92%		© 100%
		• 100% ①		Diversity
	Communication Infrastructures	90% (i)		
	Transportation	85% ①		♦ 82%
3D	Hazardous Material	90% 🕕		Fire Service
				▲ 100%

≡ (cast		Hi NH County Emergency Ma	
Dashboard Graph Map Workflow Structu	re Comparison Additional Rep	ports	
Scenario 10ft C Scenario 20ft	Community Lifelines 73%	Decision Intelligence	Highlights
NHRMC Orthopedic Hospital	Imminent Hazard Mitigation 75% ①	 Evacuation routes are flooded. NC-132, US- 17 road should be used and prepared maritime evacuation routes. 	Infrastructures
	Fire Service Readiness 70% ①	A Shelters flooded	♥ 75%
Novant Health New Hanover Regional Medical Center	Food/Water/Shelter 70% ①	Shelters should only be used in the Central and Northern areas of the county. Prepare for an evacuation of 10,000 people	Shelters
	Health/Medical 62% ()	Prepare for an evacuation of 10,000 people	♥ 65%
	Power (Grid) 72% ①		
	Communication Infrastructures 80% ①		Diversity
	Transportation 66% ①		♥ 59%
3D ⊗	Hazardous Material 85% ()		Fire Service
+			⊘ 70%

≡ QCast				Powered by
Dashboard Graph Map Workflow Struct	ure Comparison Additiona	al Reports		
Scenario 10ft	Community Lifelines 49%	Decision Intelligence	н	ighlights
Scenario 20ft O NHRMC Othopedic	Imminent Hazard Mitigation 45% ①	Evacuation routes are flooded Mc-132 road should be used Mc-192 road should be used Mrepare for maritime evacuation of hundreds of people	Str. Infras	structures
Hospital	Fire Service Readiness 60% ①	Shelters flooded Meters: College Park Elementary School, John J. Blair	£m	9%
Novant Health New Hanover Regional Medical Center	Food/Water/Shelter 40% ①	Elementary School, Winter Park Elementary School,	Shelte	ers
	Health/Medical 35% ①	2800 evacuees is a low assumption in relation to population growth and risks Prepare for an evacuation of 20,000 people	♥ 3	5%
5 Sa 1	Power (Grid) 50% ①			
	Communication Infrastructures 50% ①	 70% of hospitals capacity is down as a result of flood iii Establish a field hospital or mobile medical unit 	Shin Diver	sity B
	Transportation 45% ③		● 4	7%
3D	Hazardous Material	 Plan engineering long-term improvements in Castle Hayne 	Fire S	Service
	70% 🛈	Add 2 more Fire Rescue Task Force teams		
+		According to the National Institute of Building Sciences, every \$1 spent on flood risk reduction saves \$7 on future disaster losses. Smart planning saves lives and can minimize the impact and cost of flooding.	© 6	0%

Synergy Between Equity and Technology

Operational effectiveness

Technology will expedite and provide efficient insights to DEI and planning challenges

Current solutions require a manual, services-based approach

Antoine B. Richards



Antoine B. Richards I-DIEM

About I-DIEM

Purpose

I-DIEM is a global non-profit established to facilitate change by integrating equity into all aspects of emergency management. Our focus is on humanity and our vision supports the empowerment of marginalized communities within all phases of the disaster management cycle.

Mission

Our mission is to support development and implementation of innovative community-based mitigation and adaptation projects to enhance resilience in diverse, vulnerable, and underserved communities.

Vision

The vision of I-DIEM is to enhance global resilience and improve emergency management outcomes by leveraging diversity, equity, and inclusion.

About I-DIEM

Advocacy

- 8 Congressional Testimonies
- Leader in Disaster Equity
- Equitable Considerations for FEMA Polices and Programs
- BRIC Recommendations
- National Disaster Safety Board
- Ensuring Equity in Disaster Resilience, Response, and Recovery Act
- Virtual Equity Roundtable Series (Community Conversations)

Programs

- Equity Response Teams
- HERricane Program
- Julius Becton Jr. Scholarship Program
- I-DIEM Fellowship & Internship Program
- I-DIEM Partnership Program
 - College and University Partnerships
 - Nonprofit Partnerships
 - Volunteer Partnerships
- I-DIEM Jobs Board

Thinking About Collaboration

Definition: "The Action of Working with Someone to Produce or Create Something"

Synonyms: Cooperation, Alliance, Partnership, Participation, Combination, Association, Concert, Teamwork, Joint Effort

Common Knowledge

How Do We Achieve Effective Collaboration?

Connecting Silos: The Need for Collaboration

Healthcare / Hospitals	Emergency Management
Physicians	Public Administration
Nurses	Engineering
Respiratory Therapists	Public Health
Radiologic Technologists	Emergency Management
Physician Assistants	Sociology
Nurse Practitioners	Psychology
Pharmacists	Urban Planning
Phlebotomists	Public Policy
Chaplains	Anthropology
Hospital Administrators	Political Science
Legal	Environmental Science
Social Work	Geography
	Seismology

Communication

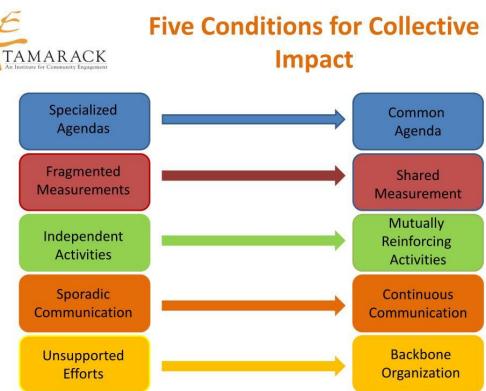
Understanding Collective Impact: Connecting Silos

Understand Where and Why Silos Exist

Understand Our Unique Roles and Expertise on Key Issues

Understand How Our Roles and Expertise Can Help Others With The Same Goals

Understand Mutual Beneficence



Connecting Silos: The Need for Collaboration

- Remember: "The Goal is NOT to Break Down Silos"
- Collaborative Thinking: The Goal is to Connect Silos
- Collaborative Thinking: Leverage Resources and Partnerships to Achieve Mutual Goals and Outcomes
- Collaborative Thinking: Partners and Collaborators vs. Competition
- Remember: The Most Successful Business and Partnerships Sustain on Collaboration

Collaboration in Action

Equitable Decision Intelligence Integrating Al into Emergency Management to Understand Vulnerability

Data Assessment

Equity Assessment Tools, Metrics, and Measures

Partnership – Policy, Practice, and Research

Equitable Decision Intelligence Webinar

for Emergency Management September 29 11AM-12PM EST







To register visit https://bit.lv/Equitv4EM more visit https://www.equitabledecisionintelligence.org



Closing Remarks

- 1. Email <u>equity@spinglobal.org</u> to join Model Design Ideation conversations to contribute suggestions and requirements to future Model Versions
- 2. Access Open-Source Content: https://github.com/4cast-ai
- 3. Sign up for an Equitable Decision Intelligence for Emergency Management Pilot: <u>https://forms.gle/3YGREgJ3znYoHgTS7</u>
- 4. Join the LinkedIn group: Equitable Decision Intelligence for Emergency Management <u>https://www.bit.ly/Equitabledecisionintelligence</u>
- 5. I-DIEM Resources & Toolkits: Research & Resources Archives I-DIEM

Case Study #2 Co-learning disaster resilience for caring, equitable, and just outcomes







Shefali Juneja Lakhina Wonder Labs **Ma. Laurice Jamero** Manila Observatory

Co-learning disaster resilience for caring, equitable, and just outcomes

Dr. Shefali Juneja Lakhina (she/her) Co-founder, Wonder Labs

Website: www.wonder-labs.org Twitter: @ShefJL and @WonderLabs1 Email: shefali@lakhina.com



OUTLINE

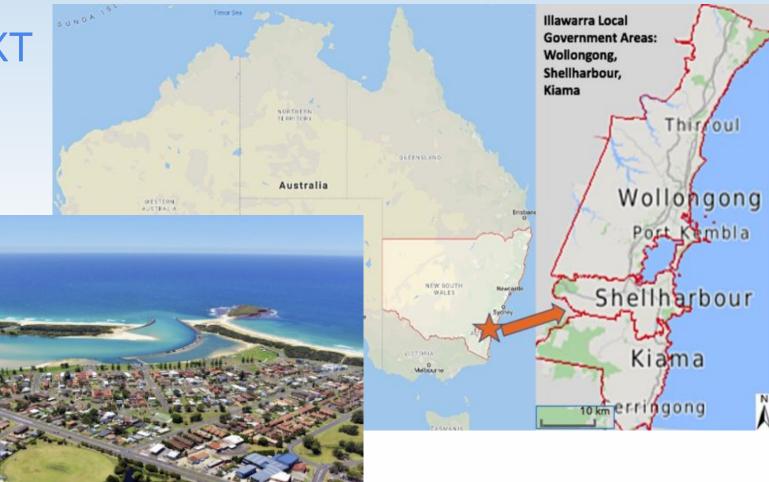
Context Bringing intentionality to entry points, partnerships, and desired outcomes

Methodology Adopting a person-centered approach for co-learning with CARE

Outcomes

Converging for equity and justice outcomes

CONTEXT





CONTEXT

Funded by Australian Research Council and NSW Office of Emergency Management's 2017 Community Resilience Innovation Program grant.

Advised by Wollongong City Council, NSW Rural Fire Service, Illawarra Multicultural Services, Multicultural Communities Council of Illawarra, the Strategic Community Assistance to Refugee Families (SCARF), and two community representatives.

Research observers included the NSW State Emergency Service, Multicultural NSW, Shellharbour City Council, Kiama Municipal Council, Masjid As-Salaam in Berkeley, Australian Red Cross, and the International Organization for Migration.

Co-learning disaster resilience with CARE

Home > About UOW > Media Centre > 2017 > Working with Illawarra refugees to build disaster resilience



Working with Illawarra refugees to build disaster resilience

PhD research aims to help refugees prepare for natural hazards

Available here: https://www.uow.edu.au/media/2017/working-with-illawarra-ref ugees-to-build-disaster-resilience.php

AUSTRALIA: ENGAGING REFUGEES FOR A DISASTER RESILIENT ILLAWARRA

Wollongong City Council today marks the International Day for Disaster Reduction 2017 theme 'Home Safe Home' with a commitment to inform, engage and partner with refugee households for a disasterresilient Illawarra.

This commitment follows a recent partnership with the University of Wollongong's Australian Centre for Cultural Environmental Research, other local city councils, emergency management services, multicultural services, and diverse refugee communities in the Illawarra.

Funded by a NSW Office of Emergency Management 2017 Community Resilience Innovation Program grant, the University of Wollongong managed doctoral research project – 'Resilient Together', aims to provide insights into how refugee households learn about local natural hazards such as bushfire, storm surge and flash flooding, and what they do to feel safe and secure.

Based on in-depth interviews with 26 refugee households and 12 local organisations across the Illawarra, the research findings show that information on local hazards can be particularly important for refugees, even pre-arrival.

Within the first year of living in the Illawarra, refugees can experience the impacts of bushfire, storm, flooding, heatwave and sea-related hazards.

The findings show that as the first and most familiar point of contact, humanitarian settlement services, local multicultural services and places of worship have an important and untapped role in providing systematic access to hazard information and preparedness training.

METHODOLOGY

Co-learning disaster resilience toolkit



A person-centred approach to engaging with refugee narratives and practices of safety

Shefali Juneja Lakhina



Summary

Section I: What is `co-learning disaster resilience'?

Section II: Thematic guidance

Section III: Person-centred mapping tool

Section IV: Operational framework

Section V: Case of the Illawara

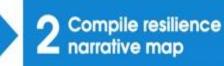
Annex

Key readings

Acknowledgements

METHODOLOGY





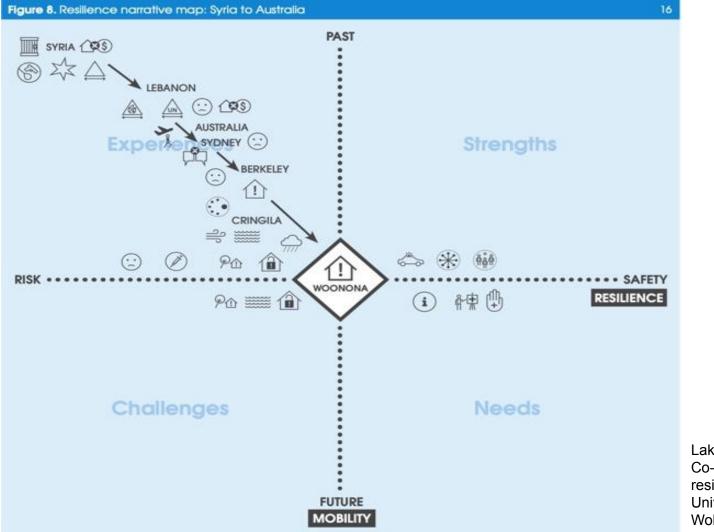
KEY ACTIONS Step 1: Draw outline Step 2: Plot quadrants Step 3: Review and initiate consultations on mode of engagement \rightarrow

3 Operationalise framework for co-learning resilience

KEY ACTIONS Adopt/implement appropriate modes of engagement: Stage 1: Inform Stage 2: Engage Stage 3: Partner

Figure 1: Co-learning disaster resilience: Process flow and key actions.

Lakhina, SJ (2018) Co-learning disaster resilience toolkit. University of Wollongong, Australia.



Lakhina, S J (2018) Co-learning disaster resilience toolkit. University of Wollongong

OUTCOMES



Multicultural Community Liaison Unit, formed in 2017



Helping community: Dohaumang Gualnam, Francis Htjaru, Burhan Zangana, Innocent Baradogomwa, Nidaa Mostafa, Elizabeth Jowanie, Joshua McLaren and Kirsten Englert-Adnum. Picture: Greg Ellis.

OUTCOMES

"If I was not part of NSW SES, I don't think my community would know what to do in a flood or storm. I'm not sure that NSW SES previously reached out to people of Karenni, Karen, or Burmese backgrounds to interact in a culturally sensitive way. Through the Multicultural Community Liaison Unit, people from the community feel more empowered – they feel they have a voice and can bring their experiences to the attention of NSW SES."

—Elizabeth Jowanie, Multicultural Community Liaison Unit, NSW State Emergency Service

"Bringing different people from different backgrounds together – like different ingredients – combines to create an incredible community service. Everyone in the community is satisfied. Everyone wants to take part and contribute. It's good to have different knowledge and skills. For example, speaking different languages. The Illawarra has a very diverse community and, in an emergency, if someone doesn't speak English well, someone in the Multicultural Liaison Unit can help."

—Elie Butoto, Multicultural Community Liaison Unit, NSW State Emergency Service

UOW collaboration with SCARF and SES receives high commendation in the Resilient Australia Awards



ity groups can provide mail A project that demonstrated the value of including refugees in local disaster planning, to help them prepare by acknowledging their skills and experience, has been recognised for its contribution to community disaster resilience.

The **<u>Resilient Australia Awards</u>** is a national program, convened by the Australian Institute for Disaster Resilience (AIDR), to promote and celebrate innovation and best practice disaster response.

The NSW Office of Emergency Management recently announced the award recipients, which included a University of Wollongong-led project called, 'Resilient Together: Engaging the Knowledge and Capacities of Refugees for a Disaster Resilient Illawarra'.

Resilient Together was a collaboration between local councils, emergency services, and refugee settlement programs.

It was Highly Commended in the Business Award Category, awarded recently by the Hon Troy Grant, Minister for Police and Emergency Services at the awards ceremony at Parliament House in Sydney.

The project set out to solve a critical gap in humanitarian programs, where refugees are not systematically given information about personal safety and home preparedness for a range of local and natural hazards.

Rather than simply create multilingual information packs, interviews with refugees from Africa, Southeast Asia and the Middle East who have lived in the Illawarra for up to 15 years provided understanding of how they learn about natural hazards and what they already do to feel safe and secure.

A crucial part of the research involved local settlement and multicultural services, often the first point of contact for new arrivals.

Through their connection to these communities they can help them understand and prepare for hazards, rather than making it the responsibility of emergency services.



here.

Living with Fire Design Challenge

Reimagining Community Wildfire Protection Planning in Ventura County, California

The Kindling Equity team focuses on the meaningful inclusion of socially vulnerable communities in the Community Wildfire Protection Plan (CWPP) in Ventura County's Wildland Urban Interface. In collaboration with the Ventura Regional Fire Safe Council, the team engages with vulnerable communities (e.g., low-income, non-English speaking, Indigenous, housing-insecure) to understand their needs and ensure inclusive fire planning practices. The team's <u>Story Map</u> presents ecological data and diverse community feedback, to visualize the "projected" and "reimagined" states of wildfire risk in Ventura County. This project aims to understand the intersection of inequity and wildfire risk, as well as provide a framework for other local governments to generate more inclusive CWPPs. Read the Kindling Equity team's final project report <u>here</u>.

Reimagining defensible space in Santa Barbara County, California

This project created science-informed recommendations on wildfire-centric plant maintenance, species selection, and placement. In collaboration with the Santa Barbara Botanic Garden (SBBG), the team conducted interviews to develop a list of native species for combustion testing. In addition, the team carried out combustion trials with plants from SBBG to understand the hydration-flammability response of various species when well-watered and drought-stressed. The results will be communicated with the public through signs and workshops at SBBG and published through UCANR to reach community stakeholders. This team hopes to scale up this work to the County level to inform policy decisions on plant selection and defensible space. Learn more from the team's story map

Reimagining community resilience in Gold Hill, Boulder County, Colorado

This project developed an <u>innovative program</u> for wildfire adapted forest ecosystems and communities using a 100-acre forest thinning/meadow restoration project in Gold Hill, CO. In collaboration with the Boulder Watershed Collective (BWC), this team conducted a community survey to gauge wildfire mitigation knowledge, attitudes, and behaviors. The team held two nature walks to teach the public about the planned forest treatment area. In addition, the team held two community envisioning events to discuss "projected" and "reimagined" states of wildfire resilience based on multi-objective forest restoration projects. This project will inform BWC's efforts around wildfire mitigation practices and education with the Gold Hill community over the coming years. Lessons learned from this project can be used to inform other wildfire mitigation efforts in communities across the Front Range in Colorado. Learn more about the project methodology, findings, and outcomes <u>here</u>.

Inclusive evacuation planning for Marin County, California

This 6-week summer project augments Zonehaven AWARE by contributing to community-centered research and visual design for more inclusive evacuation planning. Specifically, the WEmap team examined the challenges and opportunities of inclusive evacuation planning for culturally and linguistically diverse communities in Marin County. In addition to developing a prototype for Zonehaven, the WEmap team applied intersectional, GIS, and design thinking methodologies to deliver open-source data that can contribute to just, inclusive, and equitable wildfire resilience outcomes. Learn about the team's project methodology, findings, and outcomes here.

CONCLUSIONS

Top-down communication Co-learning

Inclusion and diversity Equity and justice

Collaborative outputs Convergent outcomes

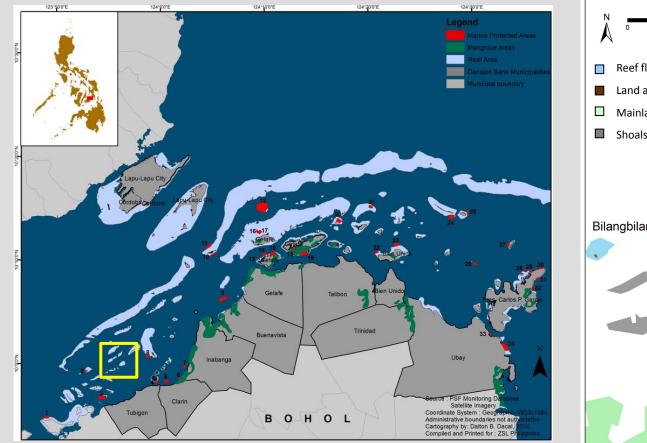
ADAPTATION PRACTICES OF SMALL ISLANDS IN THE PHILIPPINES

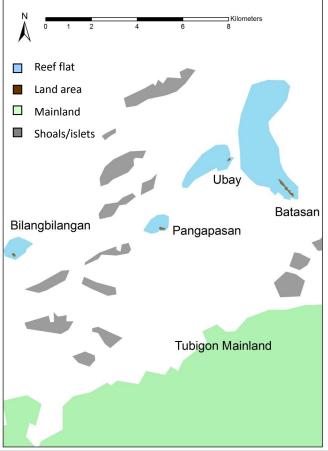
Ma. Laurice P. Jamero, PhD

CASE STUDY

Bohol, Philippines



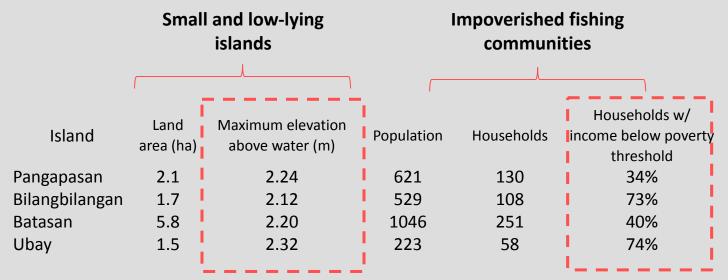




Source: Project Seahorse (2015)



Tubigon, Bohol, Philippines

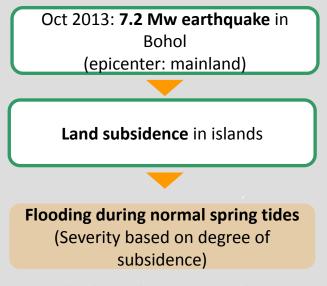


Note: Population data from Community-Based Monitoring System (CBMS) Census 2014-2015 of the Municipality of Tubigon



TIDAL FLOODING

Onset of tidal flooding

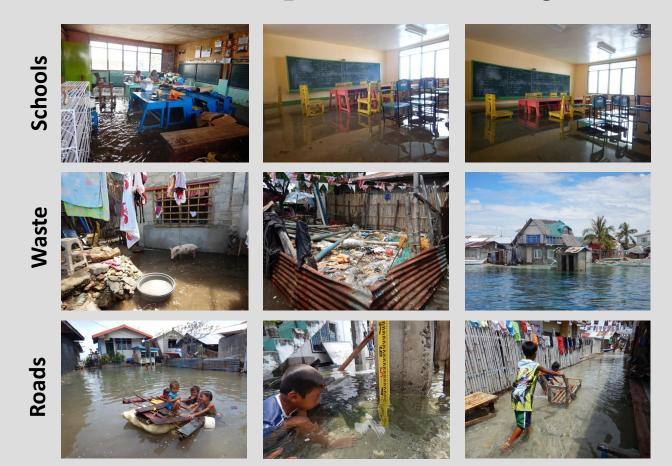


Note: Islands rarely experienced flooding before earthquake

Causes of tidal flooding:

- Local: earthquake (2013)
- Global: accelerated sea level rise

Social impacts of flooding

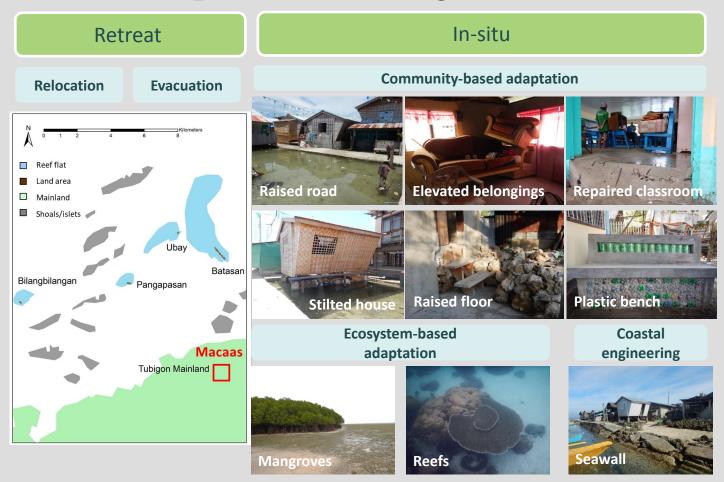


ADAPTATION STRATEGIES



350 Pacific

Adaptation in Tubigon, Bohol



Permanent relocation to mainland



Challenges

Municipal Government struggling:

- Main reason: <u>no funds</u>
- No construction yet
- No livelihood assistance
- Temporary solution: <u>Evacuation during</u> <u>hazards mandatory</u>

Community <u>reluctant</u> to move

- Main reason: <u>Livelihood</u> based on fishing
- Relocation site also prone to disasters: river flooding, and tidal flooding

Temporary evacuation to mainland

	Before Earthquake	After Earthquake
Evacuation practice	Rarely evacuated	Readily evacuates to designated area on island or mainland
Risk information Typhoon strength		 Typhoon strength Tide level Timing: Peak tide vs expected landfall
Decision criteria	Strong typhoon is destructive	Weak typhoon during high tide is destructive

Challenge to implementation

Current early warning systems do <u>not</u> provide tidal info

Effectiveness against tidal flooding

Prevented loss of lives during the passage of several typhoons

Ecosystem-based adaptation

Challenges

Reefs

- Ability of corals as natural wave barriers <u>not well-known</u> by communities
- ≻Were <u>mined</u> instead



Mangroves

- Ability of mangroves <u>well known</u>, being <u>planted</u> eagerly
- Variety of <u>planted mangroves not as resilient</u> against waves (Villamayor et al, 2016)



Coastal engineering

Island	Seawalls
Batasan	No seawalls, but want to build one on Habagat* side
Ubay	Habagat*side functional (35m), Amihan* new (9m)
Pangapasan	Habagat* side functional (24m), Amihan* collapsed (20m)
Bilangbilangan	Habagat* side collapsed (220m), Amihan* none

*Note: Habagat = Southwest monsoon, Amihan = Northeast monsoon

Damaged (Bilangbilangan)



Challenge: old seawalls damaged

Damaged seawalls offer <u>reduced protection</u> against waves

Environmental risk: Seawalls (damaged or not) can accelerate coastal erosion

	Maladaptation	Successful Adaptation
	Adaptation-malada	ptation continuum
a	Towards more vulnerable, inequitable daptation that increases risk for humans nd ecosystems, has mitigation tradeoffs	Towards equitable and effective adaptation with human, ecosystem and mitigation co-benefits
Benefits to humans	Increases social vulnerability and/or causes unintended harm to humans	Decreases social vulnerability; build adaptive capacity to new disturbances
Benefits to cosystem services	 Increases climate-related impacts on ecosystems and ecosystem services 	Reduces climate-related impacts on ecosystems and ecosystem services
Equity outcomes	Worsens present and/or future condition of the poor, low-income, ethnic groups and/or females	Highly beneficial to the poor, low-income, marginalized ethnic groups and/or females
Transformation potential	 Does not facilitate or unintendedly inhibits deep, systemic change 	Contributes to deep, systemic change of norms, practices, behaviors
Reduced GHG emissions	Causes additional GHG emissions	Does not increase GHG emissions OR has mitigation co-benefits (e.g. sequesters CO2)

ADAPTATION PRACTICES OF SMALL ISLANDS IN THE PHILIPPINES

Ma. Laurice P. Jamero, PhD

Discussion





Elisa Mariel Trujillo Leyva ARISE-Mx

Thank you to our experts!

- Antoine B. Richards Chief of Staff, Institute for Diversity & Inclusion in Emergency Management
- Camila Tapias Global Disaster Resilience Specialist, SPIN Global and ARISE US Board Member
- Shefali Juneja Lakhina Co-Founder at Wonder Labs
- Ma. Laurice Jamero Head of Resilience Collaboratory at Manilla Observatory
- Elisa Mariel Trujillo Leyva National Director for ARISE Mx

Special thanks to Joyce Coffee, Climate Resilience Consulting!

Co-Creation

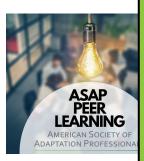
Webinar Series



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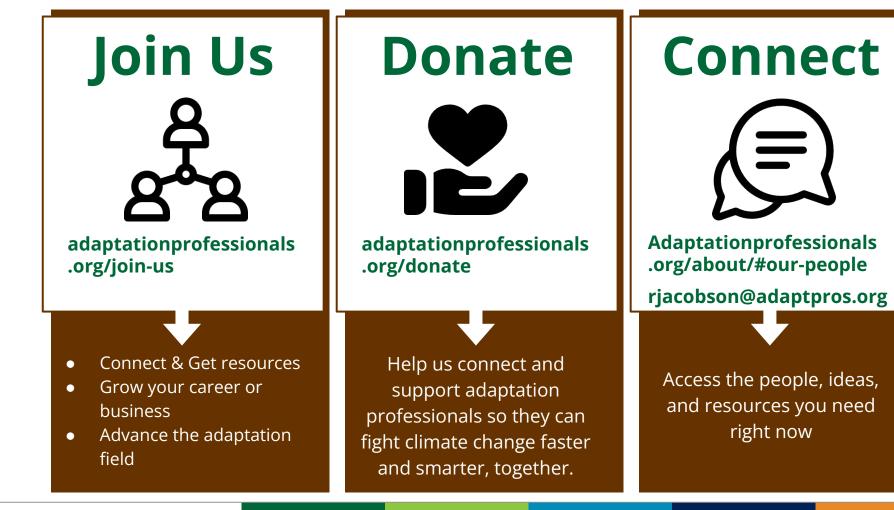
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