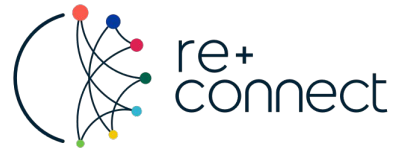


Closing the Last-Mile
Disaster Relief Gap

February, 2022

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We are a social venture building a civic technology platform to **close the last-mile disaster relief gap** and **build long-term resilience** for underserved communities.

Our **mobile and web applications** and **data-driven intelligence** connect **residents, community groups,** and **disaster management & aid organizations** through **collaborative processes** to **direct the right responses to the right places at the right time.**

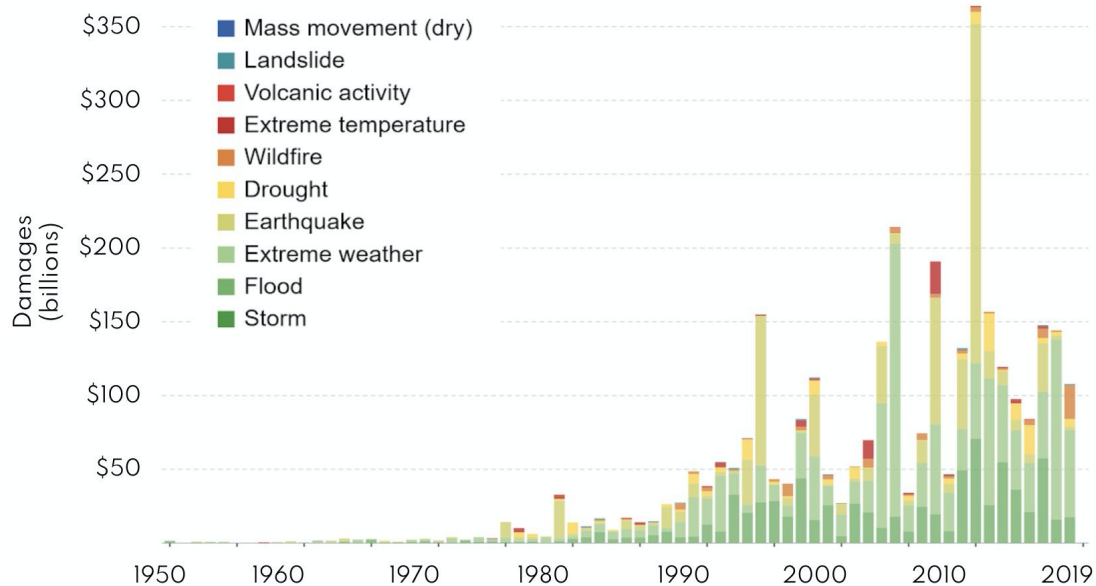
With a long-term vision for global impact, we tailor our solution to areas that suffer the greatest losses to disasters, starting in **Puerto Rico**, where we aim to reach **1 million residents** in the next **5 years.**

01

The Missing Links



Disasters are growing in frequency and severity around the world.



In recent decades, as climate change continues to worsen and our interaction with nature becomes increasingly complex, **disasters are growing in frequency and severity.** This reality exposes disaster management **agencies' limitations** in meeting the growing access and service **needs**, especially for the **most vulnerable populations.**

Puerto Rico is one of the many places that confront one shock after another.



2017

Hurricane Maria



2019

Political Protests & Crises



2020

Series of Earthquakes



2020

Global Pandemic



2021

Annual Hurricane Season

Puerto Rico, home to **over 3 million**, has been under one shock after another. In September 2017, Hurricane Maria caused **devastating and long-term damages** to people's health and safety.

When disasters strike, people face challenges to direct the right response to the right places at the right time.



Resident

Julia, 73,
Utuado



Resident

Mario 38,
Utuado



Community Organizer

Mariana, 48,
Jayuya



Relief Program Manager

Carlos, 42
San Juan

Links are missing for delivering the right response to the right places at the right time.



At-Risk Populations

Disaster information, especially at the **community level**, is often **missing, illegible, or dismissed** due to resource limitation and social and political barriers such as trust and institutional setups.

Information

Coordination

Under time pressure and uncertainty in the face of disasters, coordination across stakeholders around **information sharing, logistics, and operation** can become a major **roadblock**.

Accountability

To **effectively deploy** relief resources and services and **maximize their impact** is a **complex accountability** challenge across all stakeholders.



Disaster Management Agencies

“An enormous duplication of efforts, wasting money and resources...”

“Delay in delivery due to holding supplies subject to protagonism or bureaucracy.”

Duplication & negligence

“I would distrust the organization if they did not release the resources even if they had them or if they released them without asking”

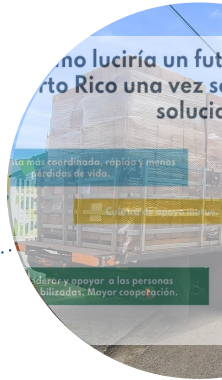
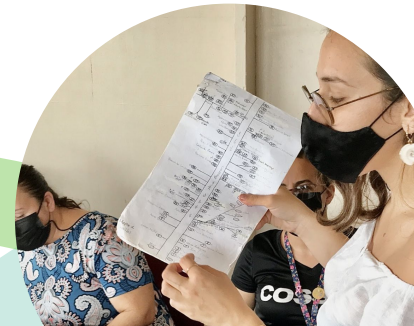
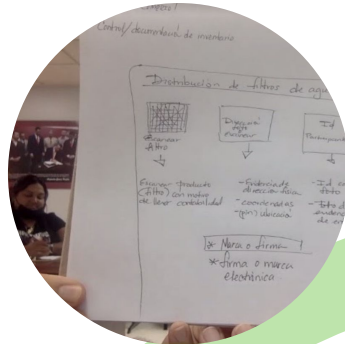
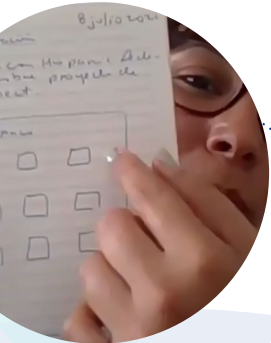
Mismatch with community needs

“other communities lost their help due to the lack of coordination and communication between organizations...”

Question of sustainability

“Finding volunteers and resources to get somewhere and finding which communities have already been helped is difficult...”

“...although we have the resources, we are not included in major coordination, and we do not know how to channel them to those communities.”

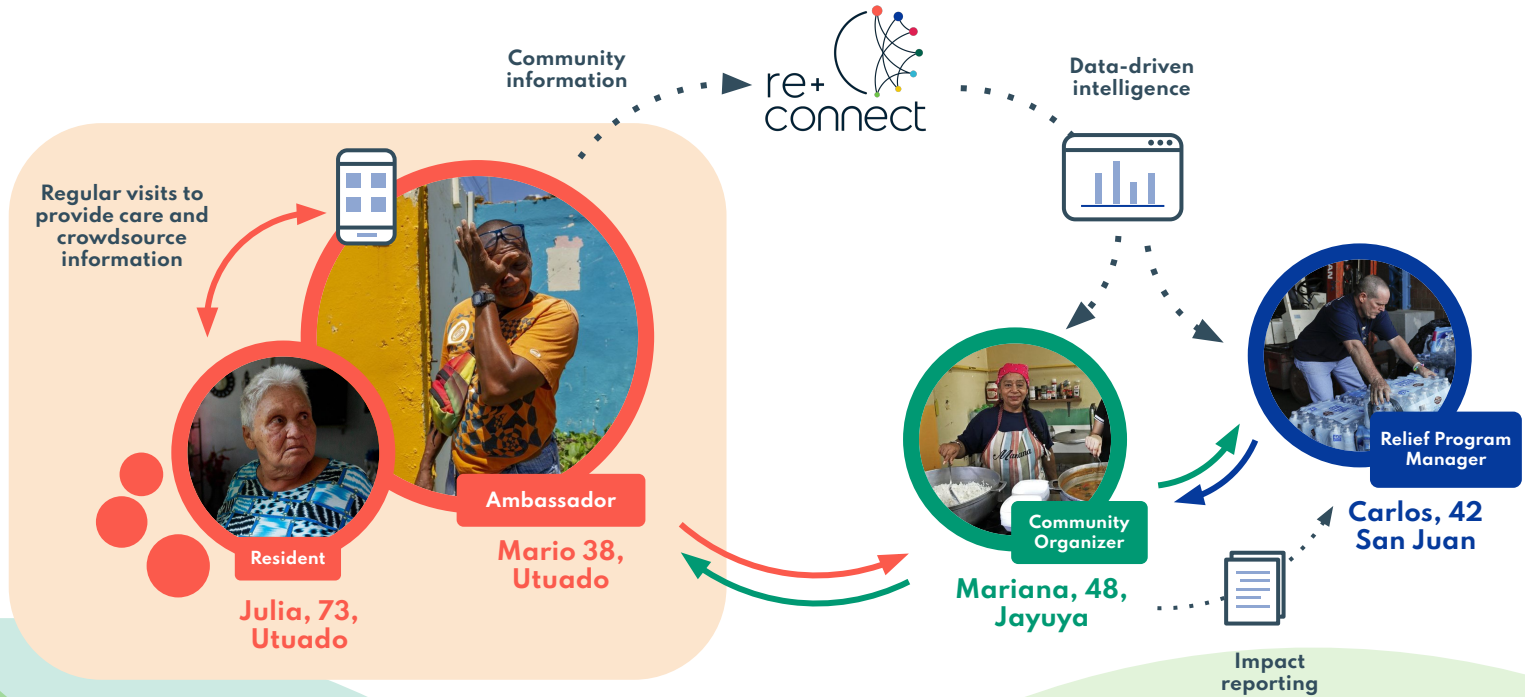


02

Our Solution & Innovation



We connect individuals and organizations to fill in the missing links.



Over the next years, we look to release the following functions to close the last-mile disaster relief gaps and build long-term resilience.

**01/
Crowdsource**

Crowdsource
community
information
on needs &
capacities

**02/
Match**

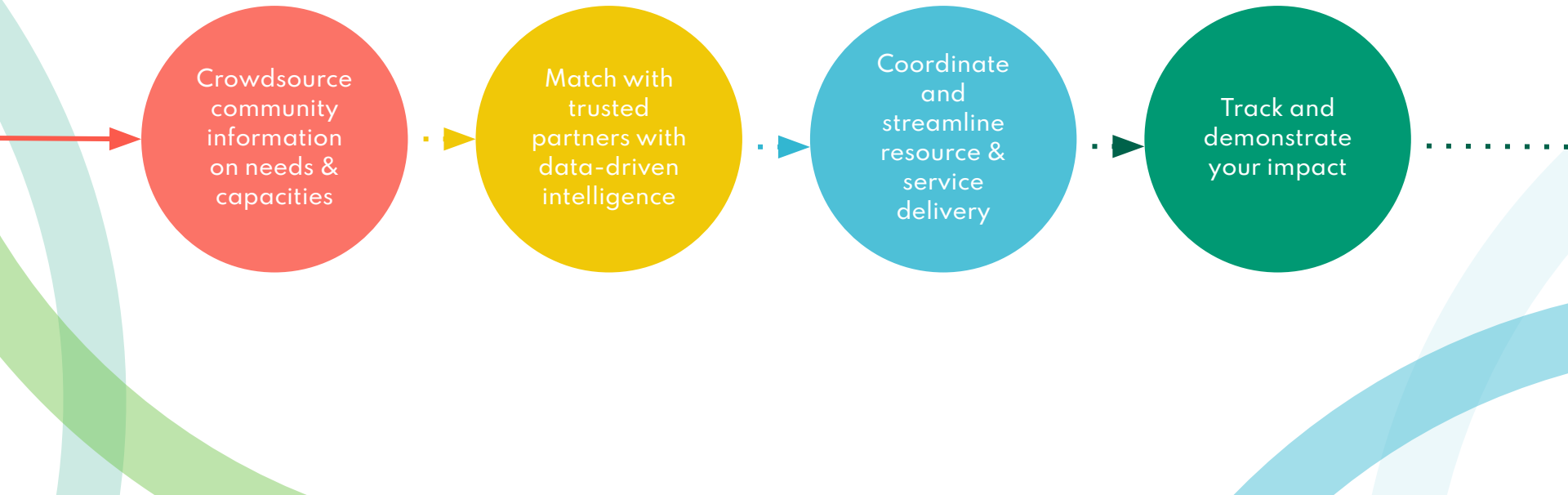
Match with
trusted
partners with
data-driven
intelligence

**03/
Coordinate**

Coordinate
and
streamline
resource &
service
delivery

**04/
Track**

Track and
demonstrate
your impact



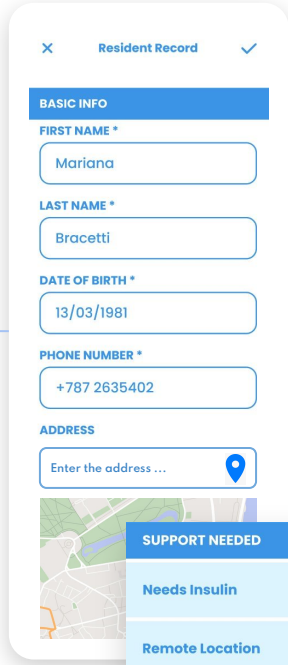
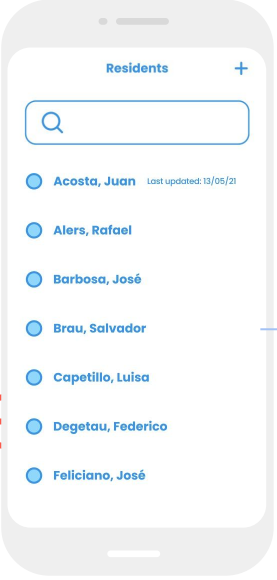
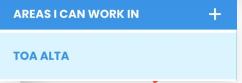
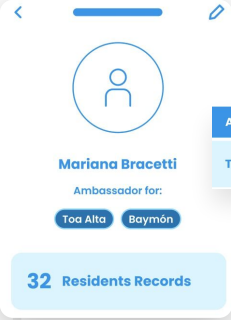
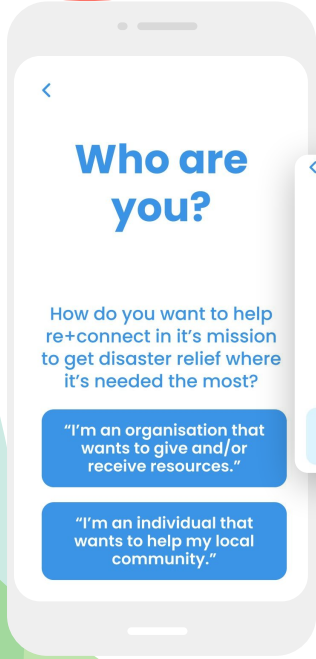
01/ CROWDSOURCE

Crowdsource community information on needs & capacities

Mobilize residents to become community ambassadors

Crowdsource important community information for everyone

Connect residents with organizations to participate in relief mission



02/ MATCH

Match with trusted partners with data-driven intelligence

Share and find relief resources to help communities in need

The screenshot shows the 're+connect' web application. At the top, there is a navigation bar with 'HOME', 'RESOURCES', 'APPEALS', 'AGREEMENTS', and 'AMBASSADORS'. A 'PROFILE' icon is also visible. Below the navigation is a 'Map Filters' section with expandable options for 'Data Layers' (Resources, Needs, Community Orgs), 'Map Layers' (Regions, Municipalities, Barrios), and 'Resource Needs' (Water, Generators, Food, Medical Supplies). A 'Resources' list on the left shows four items: 1. 120 Bottled Water (1.3 miles, 3 hrs) from Community Puerto Rico; 2. 120 Bottled Water (7 miles, 8 hrs) from CAM Las Carolinas; 3. 70 Meal Boxes (3.2 miles, 19 hrs) from American Red Cross; 4. 28 Generators (12 miles, 1 day) from American Red Cross. On the right, a map of Puerto Rico is divided into 'NORTH', 'CENTRAL', and 'SOUTH' regions, with numbered markers 1-4 corresponding to the resource locations. The 'SEA' label is visible at the bottom of the map.

Community Orgs

1



Community Puerto Rico

+1 (787) 934-8111
hello@cpr.org

2



CAM Las Carolinas

+1 (787) 927-0000
hello@camlascarolinas.org



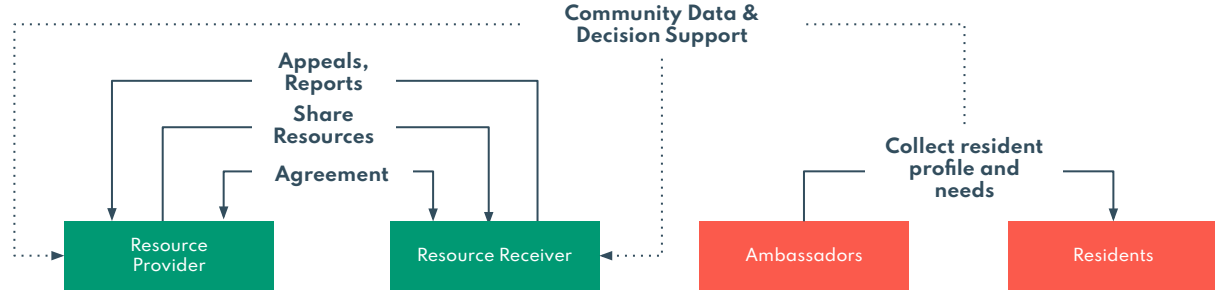
AREAS OF OPERATION	+
TOA ALTA	
CAUSES	+
LGBTQ+	
WOMEN'S RIGHTS	
QUALIFICATION	+
501(C)3 STATUS	
BANK STATEMENTS	

Connect with trusted organizations aligned with your mission

Access data-driven intelligence for improved matching

03/ COORDINATE

Coordinate and streamline resource & service delivery



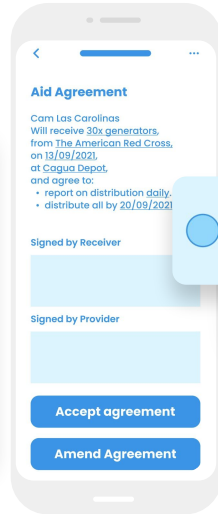
Access all key logistics information in one place

Resources Appeals Agreements

Filter by: All

<input type="checkbox"/>	DATE	RESOURCE	QUANTITY AVAILABLE
<input type="checkbox"/>	27/09/2021	Water Bottles	15030/30000
<input type="checkbox"/>	12/09/2021	Generators	50/200
<input type="checkbox"/>	01/09/2021	First Aid Kits	10/150
<input type="checkbox"/>	27/09/2021	Meal Packs	1000/2200

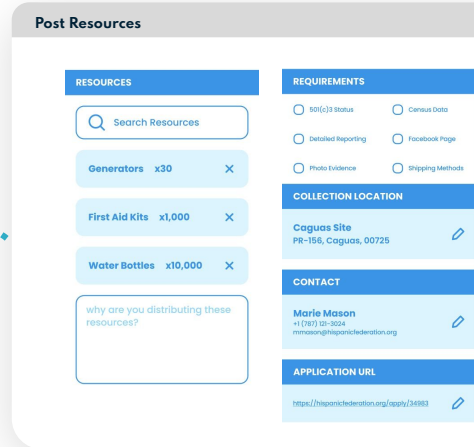
Complete key coordination steps with partners



re+connect Remember to start the agreement for the resources you applied for!

Don't forget you have a distribution report due today!

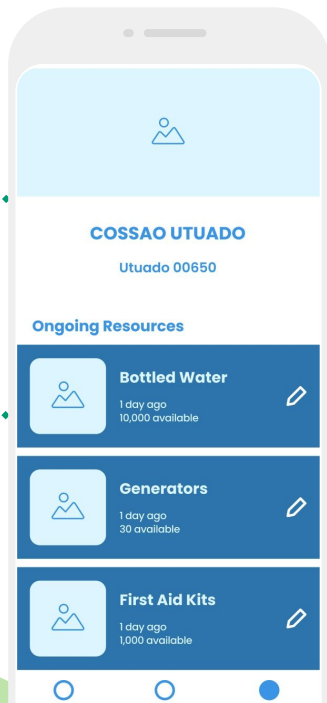
Post and find relevant relief resources and services made easy



04/TRACK

Track and demonstrate your impact

Track where relief resources and services have made a difference

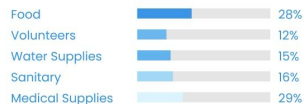


Gather impact reports, data, and stories from multiple partners

Organization Matched



Resource Provided



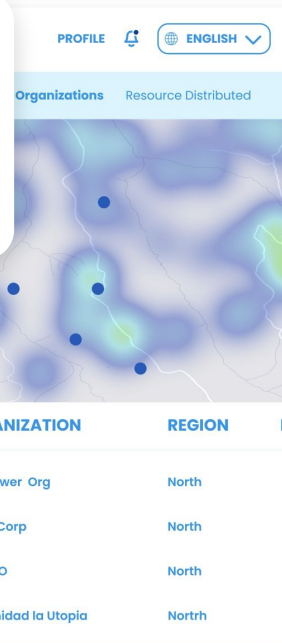
Impacts

120 Organizations supported
\$10,000 worth value delivered
3,000 people supported

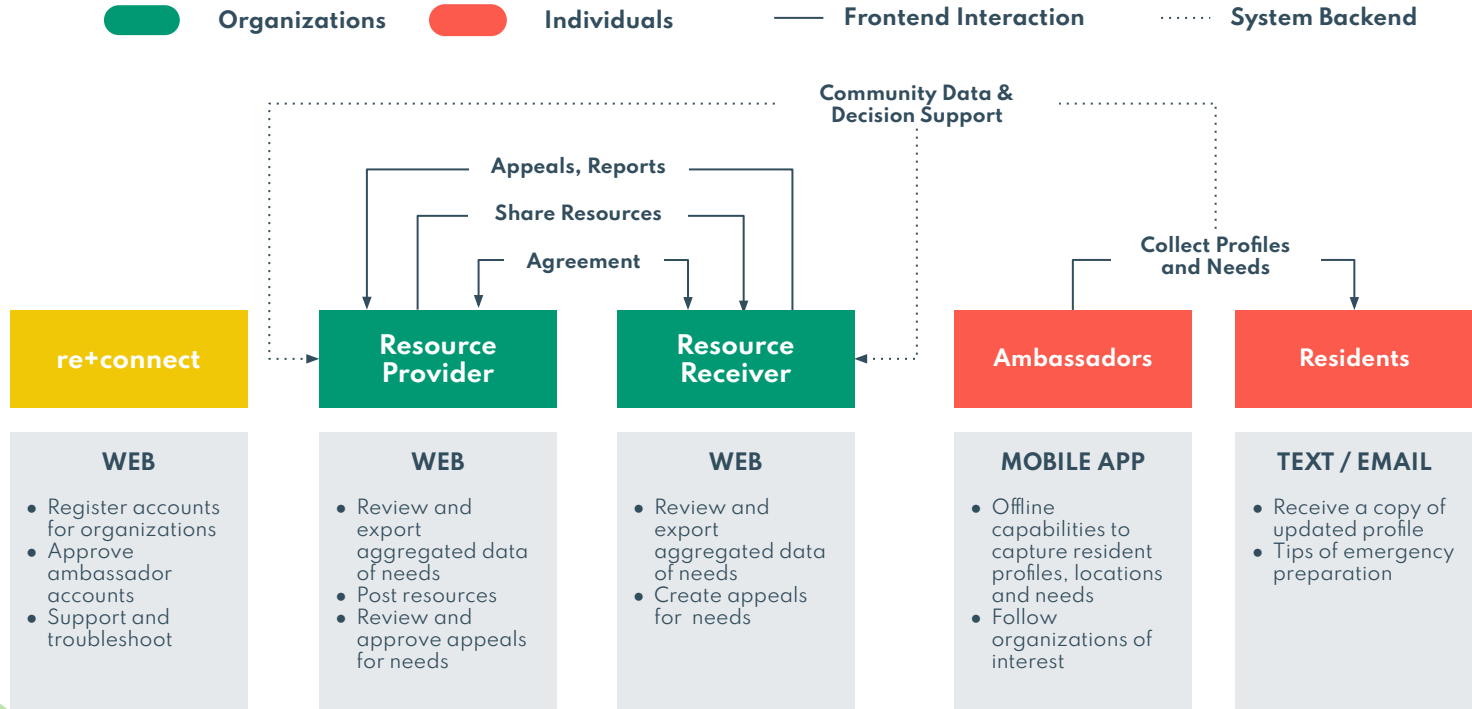
Most Delivered Resources

2,000 Meals
400 Volunteers
200 Power Generators

View and share your impact with your team and donors



We bring technology, data, and human networks together to close the last-mile relief gaps.



We have studied what's been tried in PR and around the world. We aspire to deliver more.



We co-create a more resilient future with you.

SKILLS & RESOURCES +

- HAS VAN
- TRAINED NURSE
- CAUSES I CARE ABOUT
- LGBTQ+
- WOMEN'S RIGHTS
- AREAS I CAN WORK IN
- TOA ALTA

Who are you?

How do you want to help re+connect in it's mission to get disaster relief where it's needed the most?

- "I'm an organisation that wants to give and/or receive resources."
- "I'm an individual that wants to help my local community."

Most Delivered Resources

Food	28%
Volunteers	12%
Water Supplies	15%
Sanitary	16%
Medical Supplies	28%

re+connect HOME RESOURCES APPEALS AGREEMENTS AMBASSADORS PROFILE ENGLISH

Organization Matched ----- org of others

VIEW Matched Organizations Resource Distributed

ORGANIZATION	REGION	MATCHED
Sun Flower Org	North	7
Mercy Corp	North	7
COSSAO	North	3
Comunidad la Utopia	North	1

re+connect Don't forget you have a distribution report due today!

re+connect Don't forget you have a distribution report due today!

re+connect Remember to start the agreement for the resources you applied for!

Design with people

We invite all key stakeholder groups to be **an integral part of designing what matters to you**, from the technology solution to how your data is used.

Bridge the gap

We empower residents to become **Community Ambassadors** to bridge the **digital gap** by reaching out to their friends, families, and neighbors who prefer face-to-face.

Disaster-proof tech

We design and build **lightweight applications optimized for offline access**, accounting **uncertainties and limitations due to disasters** and local contexts, with a focus on preparation.

Connect for good

We deploy **social sciences** and best practices to **encourage and augment collective actions** among individuals and organizations as the core of sustainable resilience building.

03

People & Partners



We are an interdisciplinary team dedicated to co-creating a resilient future.



**Jasmine
Qin**

DIRECTOR

- MIT & Yale**
- + Environmental management
 - + Digital development
 - + Business development



**Azury
Lin**

PRODUCT

- MIT & Parsons**
- + Product development
 - + Design strategy
 - + Branding



**Pamela
Silva**

CO-DESIGN

- MIT**
- + Collaborative design
 - + Co-design facilitation
 - + Community resilience



**Manveer
Kalirai**

GOVERNANCE

- University of Toronto**
- + Research & Innovation
 - + Data & tech governance
 - + AI & Ethics



**Natalia
Arcila**

COMMUNICATION

- Union College**
- + Communication strategies
 - + Community engagement
 - + Disaster response

We are supported by experienced advisors.



**David
Carrasquillo**

AID ORGANIZATION
+ POLICY

**Hispanic
Federation**



**Robert
Soden**

DISASTER
INFORMATICS +
TECHNOLOGY

**University of
Toronto +
CoRisk Labs**



**Jason
Jay**

BUSINESS +
ORGANIZATIONAL
CHANGE

**MIT Sloan
School of
Management +
Sustainability
Initiative**



**Daniel
Aldrich**

SOCIAL NETWORKS +
DISASTER
RESILIENCE

**Northeastern
University
Security and
Resilience
Studies**



**Erez
Yoeli**

BEHAVIORAL
SCIENCE + ALTRUISM

**MIT Sloan
School of
Management**

We are actively building a robust network.

research



Northeastern University



National Center for Disaster Preparedness
EARTH INSTITUTE | COLUMBIA UNIVERSITY



tech & data



sponsorship



co-development



04

Business & Plans



We deploy diverse funding mechanisms for long-term sustainability.



Grants & Investments

- + Foundations
- + Government grants
- + Individuals
- + Accelerators & competitions



Startup Funding

- + Minimum lovable product built for target users
- + Co-development partnerships



Fee-for-Service

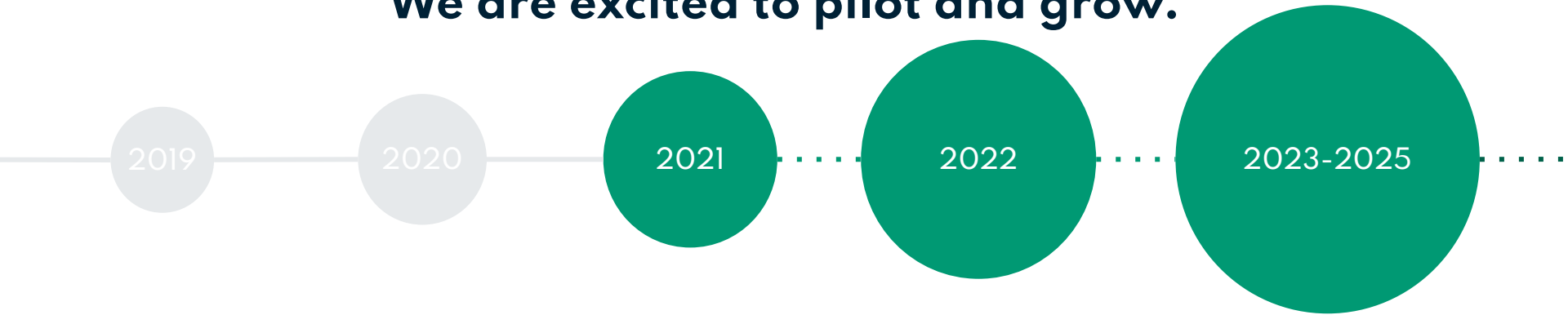
- + Tiered/bundle SaaS and data subscription
- + On-demand advisory consulting services
- + Education and training



Community Fund

- + Voluntary contribution from individuals to support community development work and program maintenance

We are excited to pilot and grow.



Research

- + Initial primary and secondary research on disaster resilience in PR
- + Building partnerships with communities and agencies

Discover

- + In-depth market research with over 40 entities and 100 individuals
- + Nonprofit incorporated

Define

- + 9 collaborative design workshops, 30+ hours of interviews, ethnographic studies with 100+ participants
- + Minimum lovable product (MLP) and roadmap defined

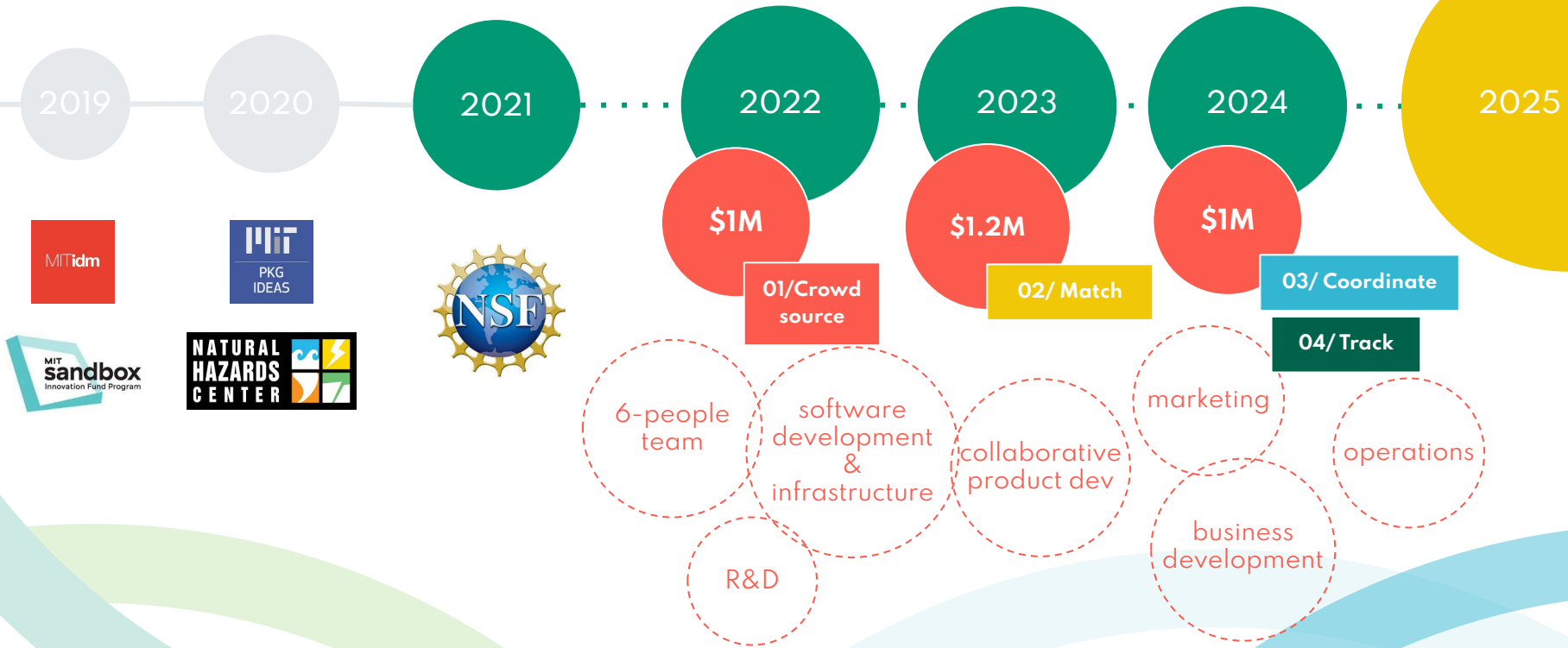
Pilot

- + Build and test MLP that include **01/Crowdsource** (6 months)
- + Reach 100,000 residents in Puerto Rico
- + Continued R&D and collaborative product development

Growth

- + Expand product to include functions for **02/Match**, **03/Coordinate**, and **04/Track**
- + Reach 1 million residents in Puerto Rico
- + Engage coastal communities in TX, LA, FL

We are ready to build and pilot our first minimum lovable product.



05

Impact & Strategy



In the age of disasters, we work to achieve impact across scales and actors in Puerto Rico.

~\$ 260,000+
million

average annual loss
due to disasters in PR

8,000+
community
groups

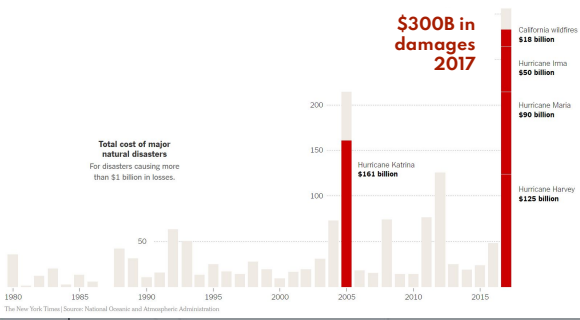
3 million
residents

• **Improve efficacy** of relief efforts with better informed decisions and enhanced coordination.

• **Enhance capacity** with effective organizing and access to resources and support.

• **Reduce harm** with improved services and **build resilience** with social engagements.

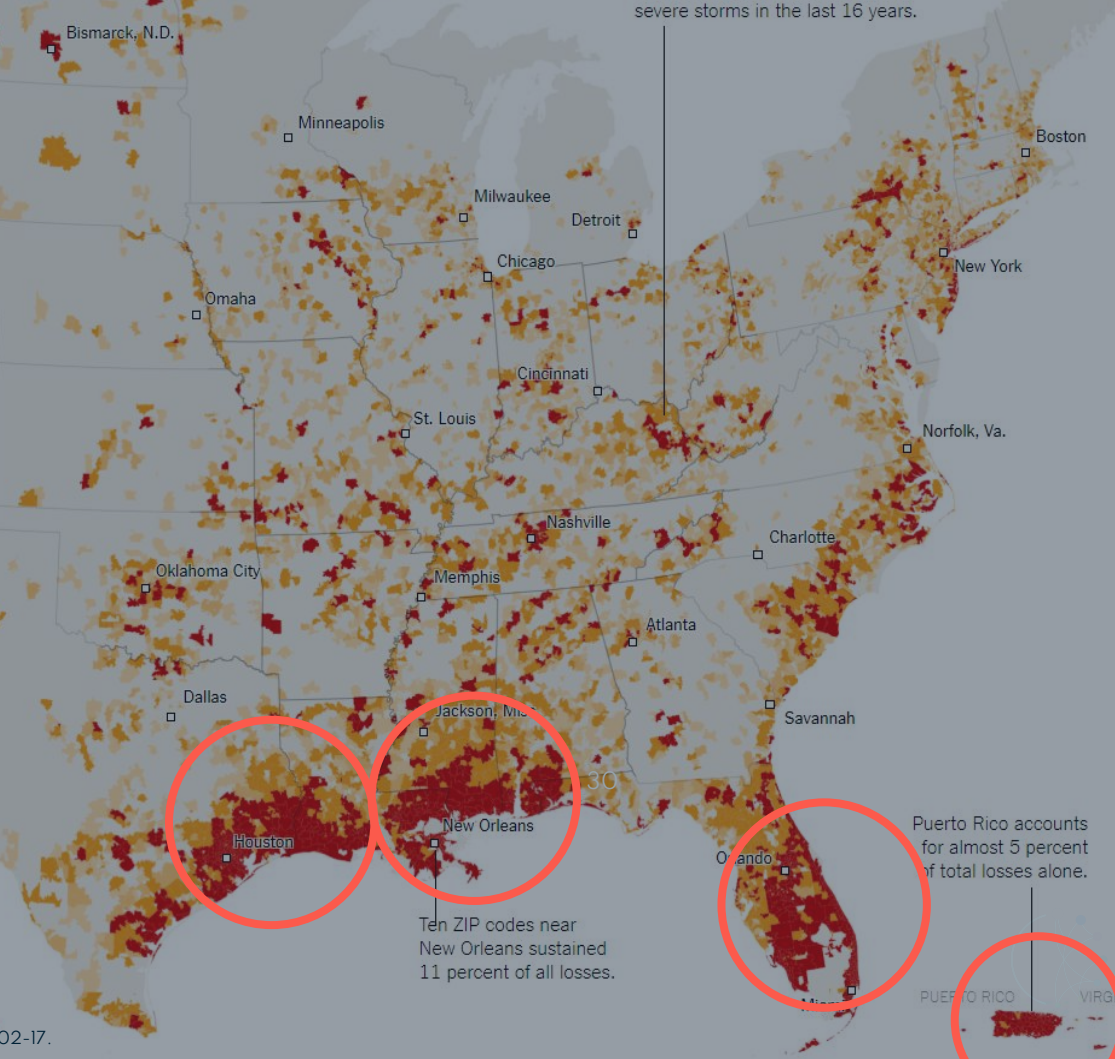
The 2017 Tubbs fire near Santa Rosa was the most destructive wildfire in the US.



Puerto Rico is only one of the many places in the US where disasters strike again and again. We look to tailor our solution to where they are needed the most.

Losses in each ZIP code from major natural disasters, 2002 to 2017.

Source: NYTimes - Losses in each ZIP code from major natural disasters, 2002-17.



Ten ZIP codes near New Orleans sustained 11 percent of all losses.

Puerto Rico accounts for almost 5 percent of total losses alone.



With a long-term vision for global impact, we aim to first close the disaster relief gap and build long-term resilience for **1 million residents** in Puerto Rico in the next 5 years.



Closing the Last-Mile
Disaster Relief Gap

replusconnect.org

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