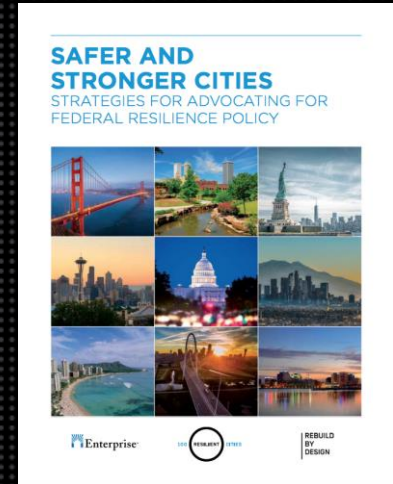
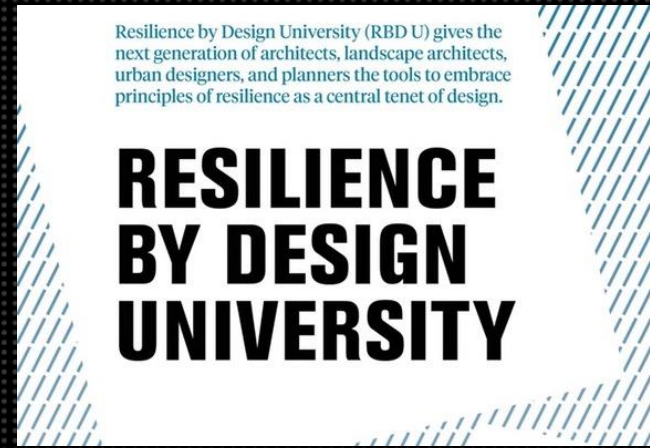


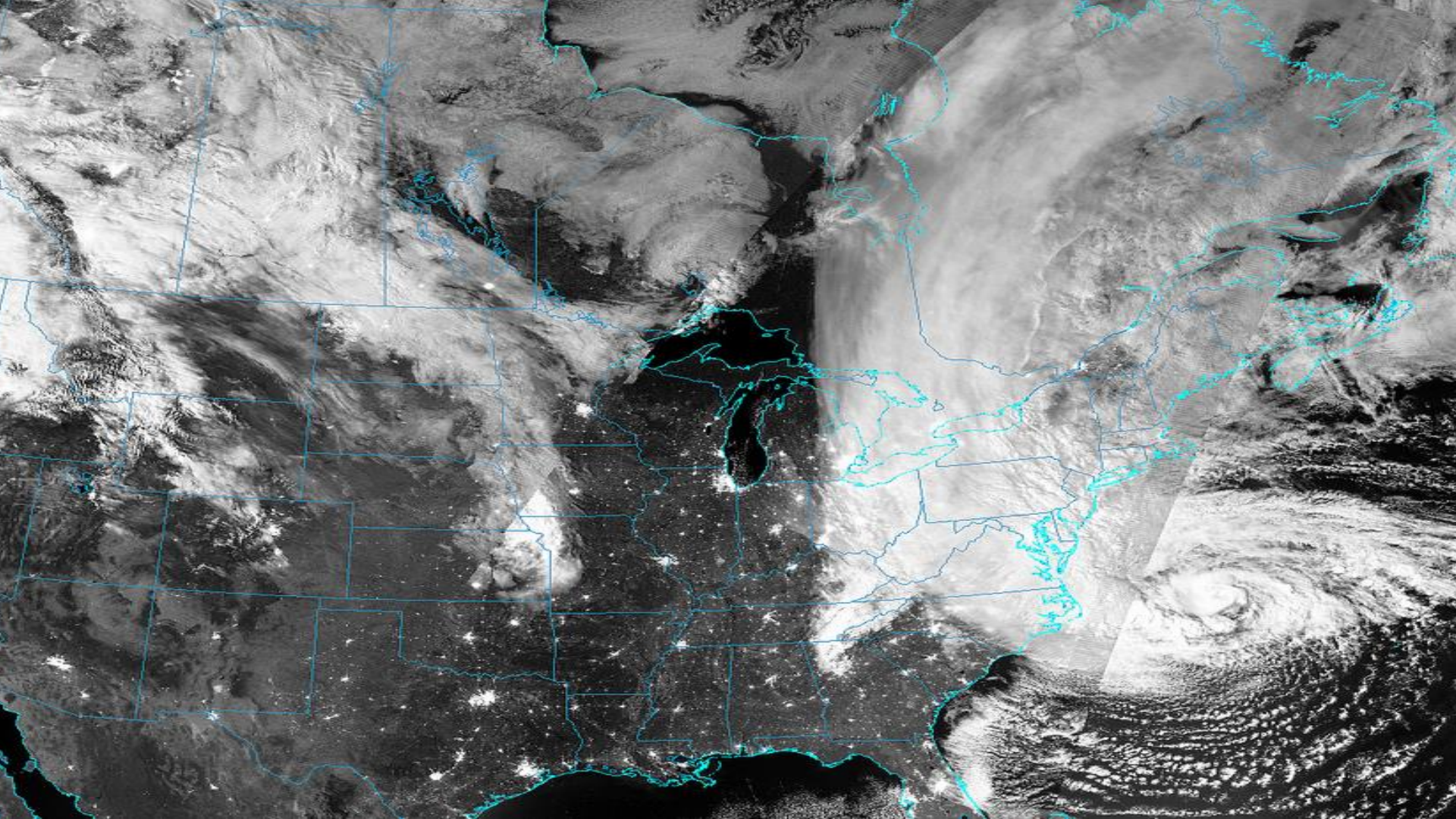
REBUILD BY DESIGN



WHAT WE DO

- 1 Large Scale Regional Design Competitions
- 2 Innovative Processes to Address Cities' Challenges
- 3 Research and Policy







PHYSICAL



SOCIAL

HURRICANE SANDY DESIGN COMPETITION

JUNE 2013 – JUNE 2014

- 10 Interdisciplinary Teams
- Northeast United States
- Federal Disaster Dollars (CDBG-DR) to be awarded by HUD
- Focus on the Future, Not Returning to the Past
- Infrastructure should address multiple goals at the same time
- Judged on Innovation, Collaboration and Implementation

**JUILD
GN**

Lead Supporter
The Rockefeller Foundation

Additional Supporters
Deutsche Bank
Hears Foundation
The JPB Foundation
Surdna Foundation
The New Jersey Recovery Fund

In collaboration with
the Institute for Public Knowledge at
New York University
Municipal Art Society of New York
Regional Planning Association
Van Alen Institute

Design Teams

BIG Team
BIG Team
BIG L

HR&A Advisors w/ Cooper, Robertson
& Partners
The Commercial Corridor Resiliency
Project

Interboro Team
Living with the Bay: a Comprehensive
Regional Resiliency Plan for Nassau
County's South Shore

MIT CAU + ZUS + URBANISTEN
New Meadowlands: Productive City
+ Regional Park

OMA
Resist, Delay, Store, Discharge:
a comprehensive strategy for Hoboken

PennDesign / OLIN
Hunts Point Lifelines

Sasaki / Rutgers / Arup
Resilience + The Beach

SCAPE / Landscape Architecture
LIVING BREAKWATERS

WB unabridged with Yale ACADIS
Resilient Bridgeport

WXY / WEST 8
Blue Dunes - The Future of Coastal
Resiliency

**RESEARCH ADVISORY
GROUP**
Dina Goldberger, Chair
Walter A. Barbour
Victoria Chabotson
Phyllis G. Berkman
Gordon D. Brown
Walter D. Drake
Michael E. Hines
Michael J. Kimmelman
Klaus F. Kopp
Walter A. Lippman
Walter A. Lippman
Walter A. Lippman

Build by Design
Transforming the region
and its future

Talent by Design

The final projects will be selected
and on four key components:
Length of the research and
analysis, demonstration of a
participatory design process and
stakeholder coalition; design
innovation and excellence;
and impact of the proposed
design solution, as well as its
implementation strategy.

**REBUILD
BY
DESIGN**



COLLABORATIVE RESEARCH



COLLABORATIVE DESIGN



FUNDING ANNOUNCED: \$930Million USD

NEW YORK CITY:

- **\$335M:** The BIG U in Manhattan, NY
- **\$20M:** Lifelines in Hunts Point, Bronx, NY

NEW JERSEY:

- **\$230M:** Resist, Delay, Store, Discharge in Hoboken, Weehawken, Jersey City, NJ
- **\$150M:** New Meadowlands in Little Ferry, Moonachie, Carlstadt, Teterboro, NJ

NEW YORK STATE:

- **\$125M** Living with the Bay in Nassau County, Long Island
- **\$60M:** Living Breakwaters in Tottenville, Staten Island, NY

CONNECTICUIT

- **\$10M:** Resilient Bridgeport in Bridgeport, CT



A DIFFERENT APPROACH

To initiate, develop, organize, test, analyze, and promote inclusive and collaborative design-driven innovation processes with communities and governments on a regional scale seeking transformative approaches to resilience in the face of future uncertainties, especially those due to climate change.

- Interdisciplinary
- Regional
- Replicable
- Implementable
- Inclusive
- Collaboration
- Comprehensive



LESSON LEARNED: INCLUSIVE

5

Philanthropic
Fundors

4

Partner
NGOs

141

Neighborhoods

19

Universities












































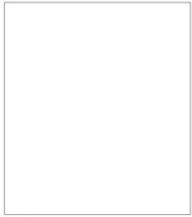






535

Community
Stakeholder Orgs

181

Government
Agencies

LETTERS OF SUPPORT

 <p>West Shore Ocean</p>	 <p>State of New Jersey</p>	 <p>University of the District of Columbia</p>	 <p>reFOCUS</p>	 <p>reFOCUS</p>	 <p>MTRANSIT</p>	 <p>MTRANSIT</p>	 <p>MTRANSIT</p>	 <p>MTRANSIT</p>	 <p>MTRANSIT</p>
 <p>NIAEM</p>	 <p>NIAEM</p>	 <p>NIAEM</p>	 <p>reFOCUS</p>	 <p>reFOCUS</p>	 <p>reFOCUS</p>	 <p>reFOCUS</p>	 <p>Metropolitan Westport Alliance</p>	 <p>Metropolitan Westport Alliance</p>	 <p>Metropolitan Westport Alliance</p>
 <p>NJTPA</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>
 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>
 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>	 <p>Rutgers CUES</p>

Design + Program developed with stakeholders



CRISP STAKEHOLDER RESEARCH:

Who do we need to be in touch with in order to answer your central research question?

Who needs to be engaged in order to support and implement our findings?

STAKEHOLDERS

Who do we need to be in touch with in order to answer our central research question?

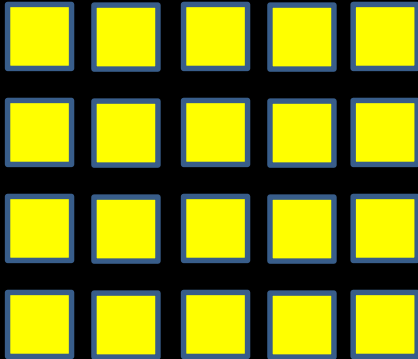
- Local Agencies
- Federal Agencies (FEMA, HUD)
- Local Mayors
- National Experts
- Academics
- Local NGO's

Who needs to be engaged in order to support and implement our findings?

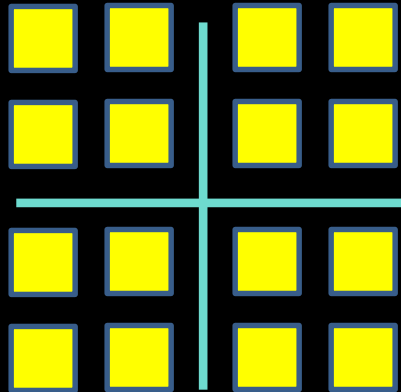
- Governor
- PREPA
- Energy Commission
- Local Planning Associations
- Local Mayor
- Local NGO's
- Federal Agencies
- Infrastructure Agencies

PUERTO RICO STAKEHOLDER STRATEGY DEVELOPMENT

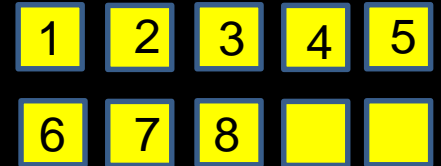
1. List



2. Categorize














3. Rank/Prioritize



MAPPING CRISP STAKEHOLDERS

Each team maps their stakeholders according to a timeline of where they will be in the work over the three year period.

Six Mo	1 Year	1.5 Year	2 Year
Group 1			 
Group 2		 	
Group 3	  		 

BUILT

Built

FEMA

EPA
FEMA Solution TEAM

USA COE

Satellite IMAGERY PROVIDERS

ACADGMIA
PR Construction ASSOCIATION

PR DEPT. of HOUSING

GOVERNMENT

Government

HUD Office of Infrastructure
- Gov. Agency
Dep. Com. Comm
Basic Orgs
- Data/funding Reports/Data

FEMA + other fed funds.
- perspectives on fund allocation

FCC
- Gov. Agency
- ?
- Data on Tele Comm Policy Update

PRDH
- Gov Agency +
- ?
- Data on Housing/Managed Retreat/Policy Updates

COR3
- Funding Agency
- ?
- Info on Reconnection Funding

5) political Mayor's FIRST P

ACADEMICS

Academics

Center for UPRM
Academia
Chensky
Sanata
Previous narrative data collection
- Data + local knowledge

University's head/director. Mayaguez

NGO

NGO

worked in Adjuntas
worked in Mayaguez

Non-profits that have worked with San German German Puerto Rico

Community Int. Groups.
- i.e. Romarie PR on
- existing data + research in issue

BUSINESS

Business

PRZ.
- bitcoin / crypto comm.
- where are they

Renewable energy business

Dispora
- track remittances

Business

2019
Year 1

July - Dec

SOCIAL

ENERGY

Year 1 Q 1

Year 1 Q 2

School Teacher
Groceries

Community

Elders Knowledge
↳ experience
- long term inhabitant of community

YOUNG PUERTO RICAN COMMUNITY MEMBERS
PUBLIC
WHO REGARDING EVENTS
AREA, VALUES AND OPINIONS

Local Community Leaders

Relaxing in PR
Juan Gonzalez
Masaso

Responsible
Bio Human

DNR
Lorena P. Torrado-Gonzalez
Ariadna M. Conde
data, enviro

IITF - Govt
(Intl Institute of
Foresty)
Gomez-Barrero P.

Maintenance head
water system

Department head

UPRM
Sea Grant
Kurt Grove
Professor
Projects on coastal
rise / coastal erosion

S - Who
Integrate
Plan for

- Ecotourism
- resident
- Ing Carlos Reyes
- A discussion about his experience, challenges and strategies with the power system restoration in PR after major damage caused by 1998 Hurricane Georges

Maint head / energy system

SOCIAL RISK PERCEPTION
VALUATING HYDRO MODELS



Stakeholder Outreach Timeline

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100%

\$ % .0_ .00 123

Arial

10

B

I

A



Agency / Resource
(* = Hover over cell for acronym information)

A

B

C

D

E

Agency / Resource
(* = Hover over cell for acronym information)

Resource / Agency type

Name of Agency Contact

Contact's Email or Phone #

What kind of information we looking to gather?

1

61

Mayors Office, Adjuntas

Government

(source from....??)

62

Mayors office, Mayaguez

Government

(source from Jorge)

63

Mayra Montero

Private Individual

64

Municipalidad de Anasco

Government

Efrain Rosado

Data, permissions coordina
access field sites

65

News & Media (who?)

Media

66

News Leaders

Media

67

NOAA, NWS - PR

Government

Ernesto Morales

68

NRCS, USDA

Government

Mario Rodriguez

Data, planning projects

69

NRCS, USDA

Government

Manuel Matos

Data support, landslides - la

70

PRAGWATER

Eric Harmsen (UPRM)

Data, SME

71

PRDH

Government

Data on Housing / Managed
Policy Updates

72

PREC

Government

Data Analyst (??)

Energy Usage, Data (hourly

73

PREC

Government

STAKEHOLDER IDENTIFIED

Social	= 32
Geo Physical	= 29
Energy	= 11
Built Environment	= 23
Government	= 11
Academia	= 5
NGO	= 7
Business	= 8
Baseline Stakeholders	= 96 entities or individuals



STAKEHOLDER IDENTIFICATION RESULTS

- Enables the work to be **outcome oriented** and relevant
- Identification of overlaps in important individuals and agencies requiring **inter-team/cross-sector collaboration**
- An opportunity to **learn what others** are working on and how we use this grant to **mutually enhance both of our goals**



THANK YOU!!

achester@rebuildbydesign.org