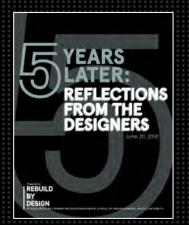


Rebuild by Design is a process that brings together global and local expertise, regional leadership and local vision to tackle multidimensional problems that harness and cultivate strong stakeholder support and government leadership.



## WHAT WE DO

- Large Scale Regional Design Competitions
- Innovative Processes to Address Specific Challenges
- Research, Policy +
  Education



Resilience by Design University (RBD U) gives the next generation of architects, landscape architects, urban designers, and planners the tools to embrace principles of resilience as a central tenet of design.

## RESILIENCE BY DESIGN UNIVERSITY



#### SAFER AND STRONGER CITIES

STRATEGIES FOR ADVOCATING FO FEDERAL RESILIENCE POLICY



Enterpris







## CITY ENGAGEMENTS

- Athens: Promoting stewardship for Lycabettus Hill
- Oakland, CA: Workshop Series on Effective Engagement
- Mexico City: Master Plan framework for Xochimilco
- Los Angeles, CA: Creating a process around updating building codes to encourage resilience
- Amman: RBD\_U: program on Waste, Water, Transportation

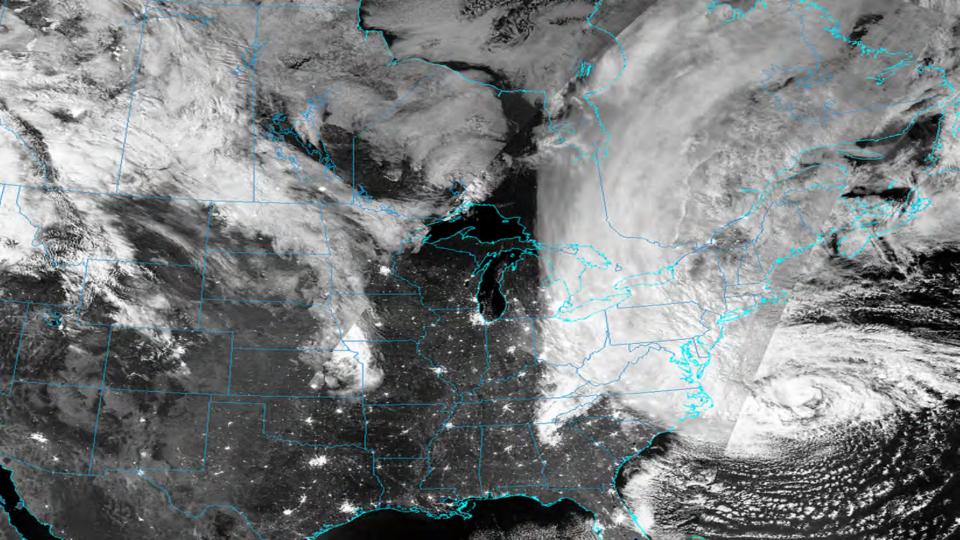


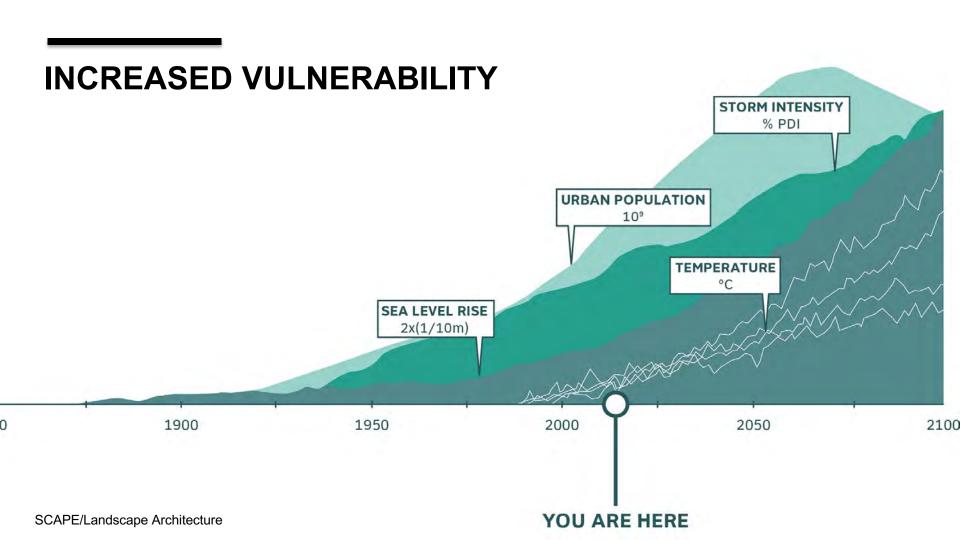
- San Juan, PR: Community Led Master Plan/Resilience Pilot
- Juarez, MX: Design Competition for Juan Gabriel Plaza
- Boulder, CO: Effort to create a
   Resilient and Sustainable Mobile

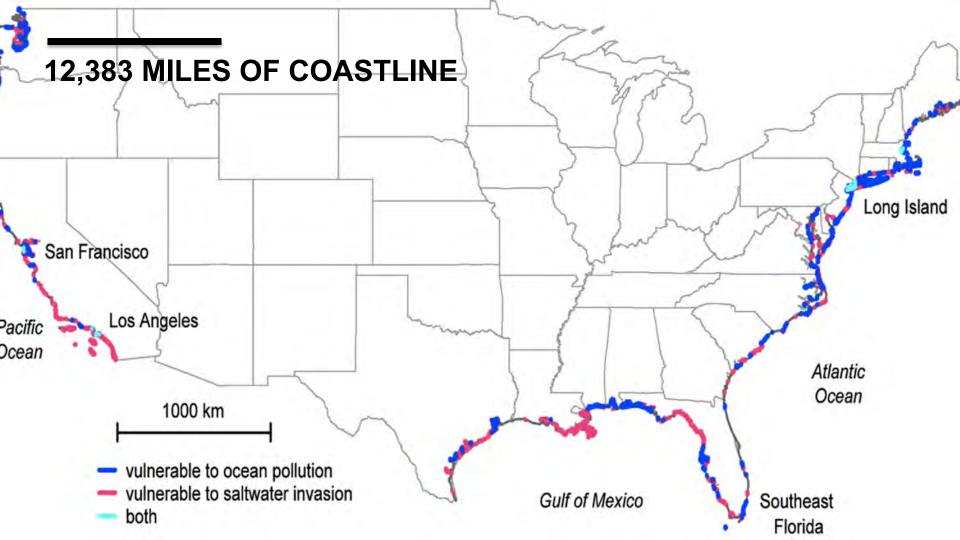
   Home Park
- Atlanta, GA: Student design competition for Ted Turner Drive Resilience Corridor











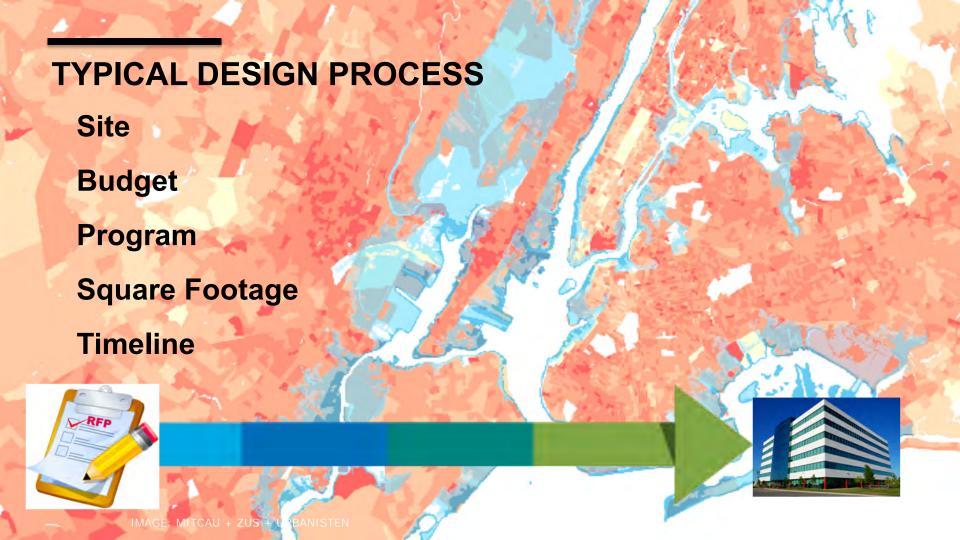
## HOW SHOULD WE PROTECT OURSELVES

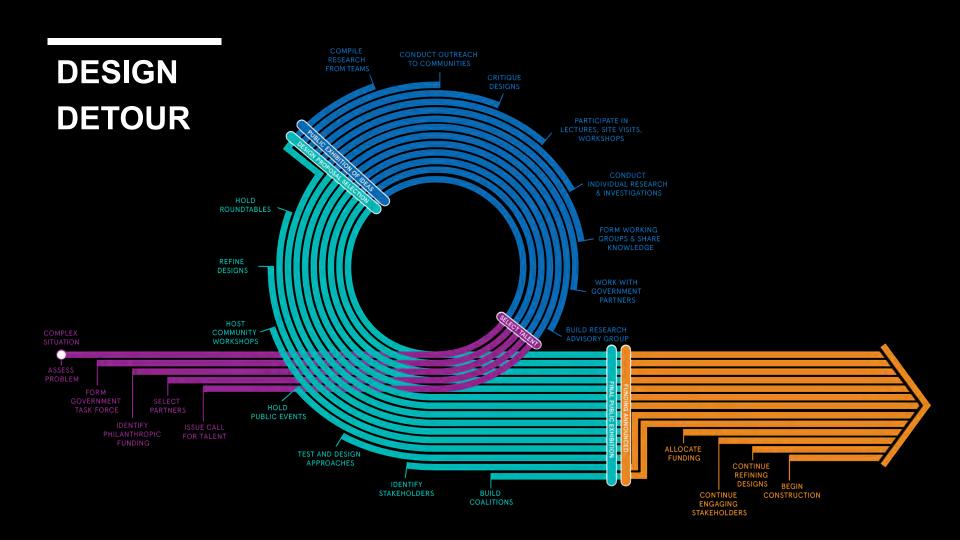
HINT: NOT LIKE THIS!



Osabe, Japan



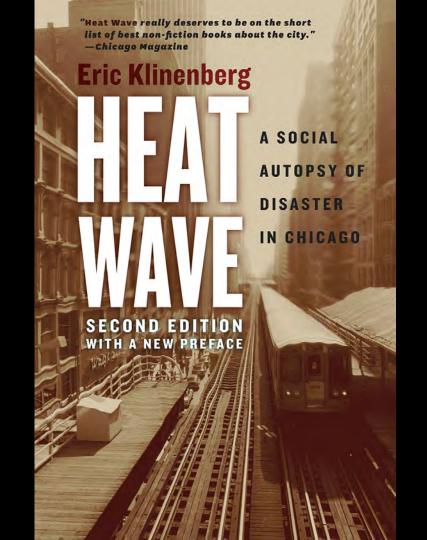




## **SOCIAL RESILIENCE**

1995 Chicago Heat Wave Killed 700 people

KLINENBERG, 2002



## HURRICANE SANDY DESIGN COMPETITION

JUNE 2013 – JUNE 2014

- 10 Interdisciplinary Teams
- Northeast United States
- Federal Disaster Dollars (CDBG-DR) to be awarded by HUD
- Infrastructure should address multiple goals at the same time
- Judged on Innovation, Collaboration and Implementation

## BAY AREA DESIGN CHALLENGE

**JUNE 2017 – MAY 2018** 

- 9 Interdisciplinary Teams
- San Francisco Bay
- No federal funds
- Future planning for resilience
- Focus on sea level rise, transportation, housing and equity





## COLLABORATIVE RESEARCH

# COLLABORATIVE DESIGN





#### **COLLABORATIVE DESIGN**

- Analysis of All Stakeholders
- Government Agency Meetings
- · Meetings w existing coalitions
- Forming new coalitions
- Creating unusual events (bike tours, dance parties, movie screenings, parade)
- Design Charrettes
- Brainstorming sessions
- Site tours
- Wholesale Presentations at existing meetings



## MULTIPLE LAYERS OF OUTREACH



#### Design + Program developed with stakeholders

## DESIGN INTEGRATED **FLOOD PROTECTION SYSTEM LIVELIHOODS LEADERSHIP CI FANWAY** CONNECTIONS **EMERGENCY MARITIME SUPPLY**

#### GOVERNMENT

**COMMUNITY** LOCAL ORGANIZATIONS:

Corporation

ADVOCACY: **Hunts Point Economic Development** 

Sustainable South Bronx

Mothers on the Move

**Bronx River Alliance** 

Rocking the Boat

Majora Carter Group

The Blk Projek

Youth Ministries for Peace and Justice

The Point Community Development

South Bronx Unite

OTHER COMMUNITY ADVOCACY: New York City Environmental Justice Alliance

**Environmental Defense Fund** 

**Pratt Center for Community Development** 

Adam Liebowitz

Mathews Nielsen

**WXY** 

and more...

FEDERAL:

Congressman Jose E. Serrano (NY-15)

**US Army Corps of Engineers** 

STATE:

Assemblyman A. Crespo 85th District

NYS Department of Environmental Conservation

NYS Department of Transportation

CITY:

NYC Economic Development Corporation

Office of the Mayor of New York City

NYC Department of Environmental Protection

NYC Office of Emergency Management

NYC Department of City Planning

NYC Department of Transportation

NYC Department of Parks and Recreation

LOCAL:

Community Board #2

Community Board #2 - Environmental Committee

Corporation

BUSINESSES:

-- INDUSTRY

The Hunts Point Terminal Produce Cooperative Association

**Hunts Point Cooperative Market** 

New Fulton Fishmarket at Hunts Point

Smitty's Filet House (fish wholesaler)

Nathel & Nathel (produce wholesaler)

Vista Food Exchange

Anheuser-Busch Distributors

Il Forno Bakery

Oak Restaurant & Grill

LABOR:

Brotherhood of Teamsters Local 202

United Food and Commercial Workers

and more...



HUD - Rebuild by Design

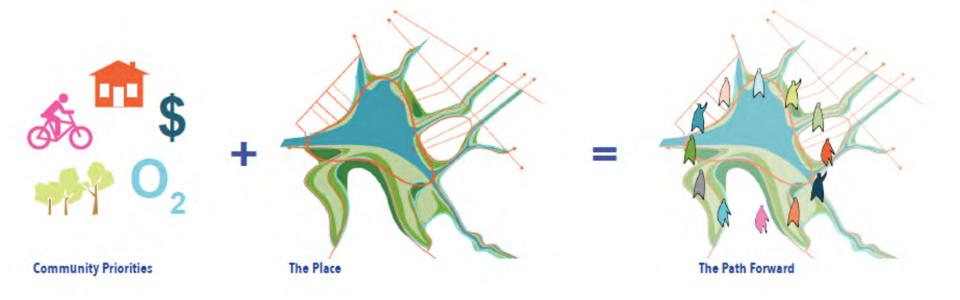


### PARKS PRESENT OPPORTUNITIES TO BUILD RESILIENCE

- Absorb Water
- Promote Equity
- Increase Health Outcomes
- Clean Air
- Increase Habitat
- Space for Protection
- Build Social Resilience



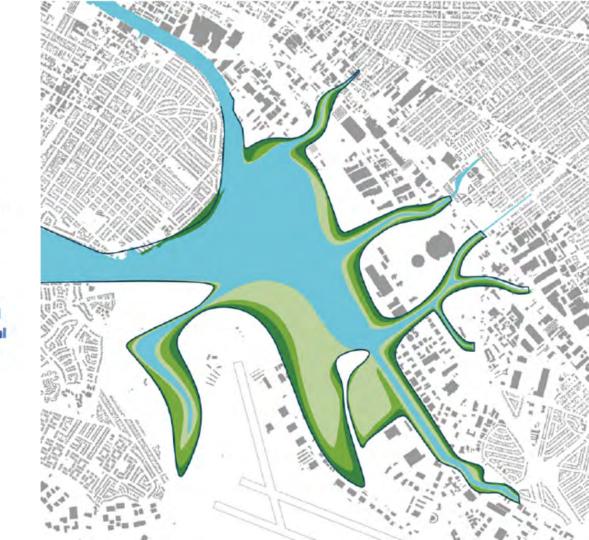




#### Restore

Wetland Area: From 100 existing acres to 300 proposed acres

Reshape creeks, sloughs and shorelines to expand riparian and wetland ecosystems, reduce fluvial flood risk, and provide protection from sea level rise.



### Link

25 miles of neighborhood-shoreline connections, with a 4.5 mile loop around Oakland Estuary

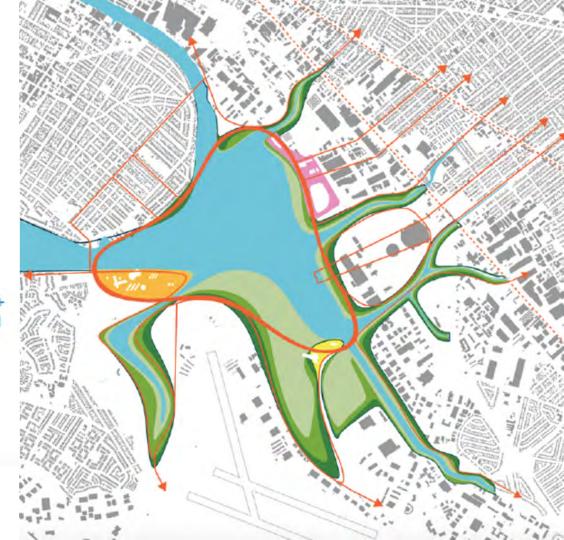
Create a sinuous, Estuary-circling promenade and turn concrete channels into flourishing greenways to link neighborhoods, schools and work places to both the shoreline and regional mobility networks.



## Gather

Three new recreational gathering spaces

Bring diverse communities together in thriving parks to foster social resilience, health, and access to nature.

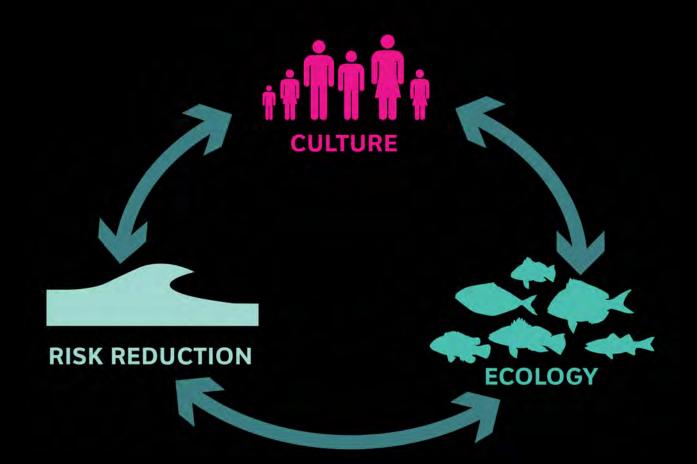




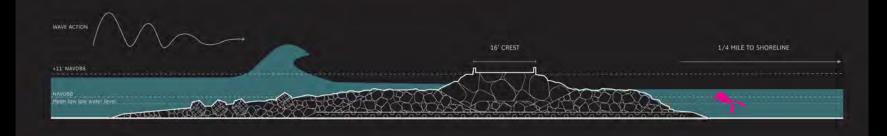


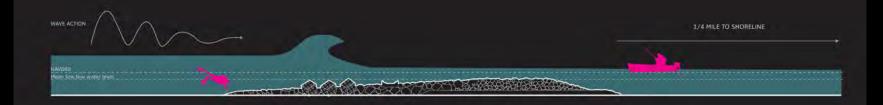






#### **BREAKWATERS REDUCE WAVE ACTION**





DO:

**REDUCE EROSION** 

**LESSEN WAVE IMPACTS** 

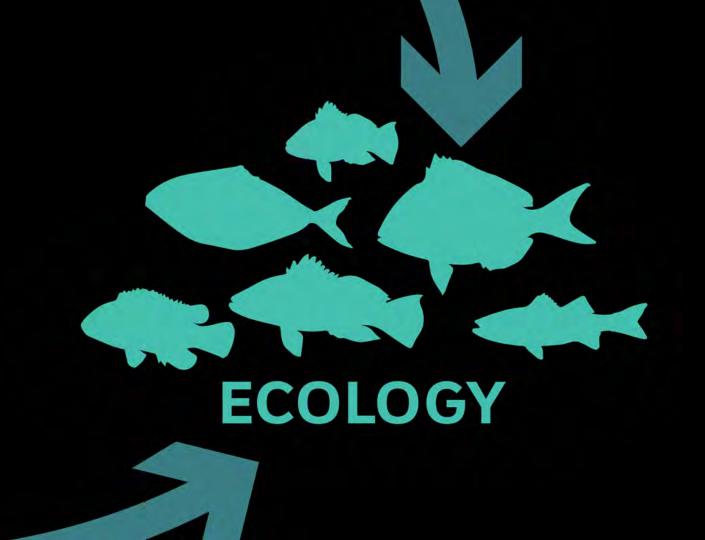
**PROVIDE HABITAT** 

ENCOURAGE RECREATIONAL FISHERIES

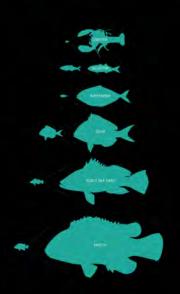
**BUILD BEACHES** 

DO NOT:

KEEP OUT FLOOD WATER



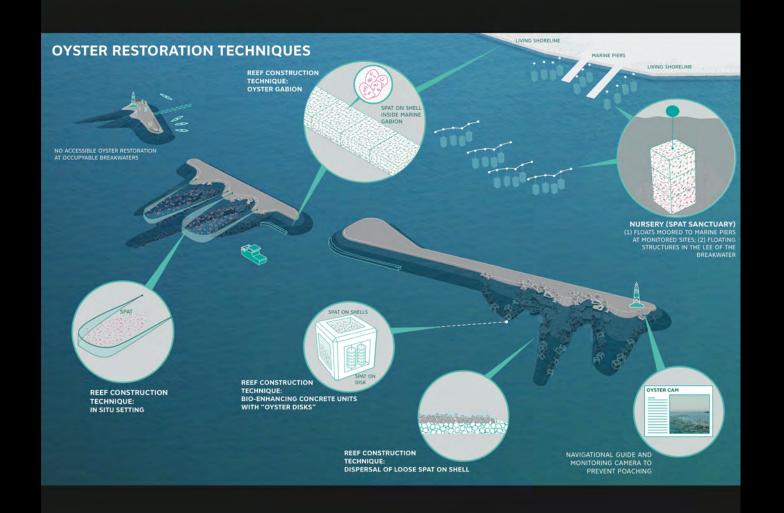
### **CREATE NICHES**





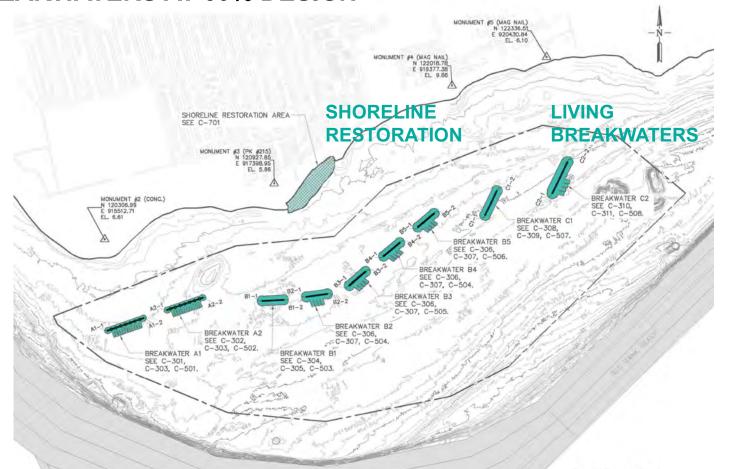




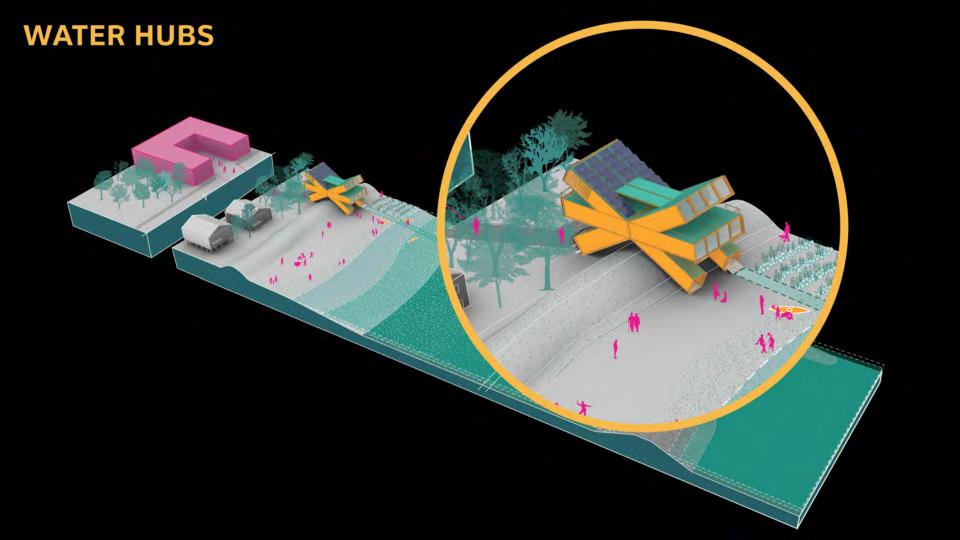


3/6/18

### LIVING BREAKWATERS DESIGN BREAKWATERS AT 60% DESIGN



# **RECREATION**











HUD - Rebuild by Design













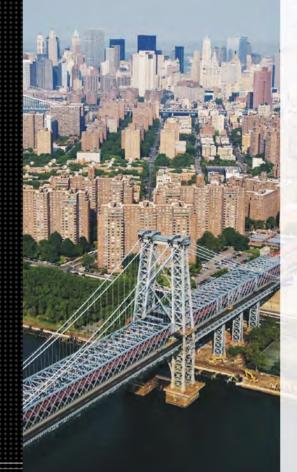






## **EQUITY IN STEWARDSHIP**

- Trust for Public Land & James
   Lima Planning + Design
- National Analysis
- 11<sup>th</sup> Street Bridge + Bronx River
   Alliance Models
- Board to be comprised of local organizations
- Funding stays within the park
- Equitable distribution of permits
- Download at rebuildbydesign.org



# Building Bridges

A Community-Based Stewardship Study for an Equitable Eas River Park

December 2018

# The city's odd storm splurge

fter Superstorm Sandy civic groups and foundations joined with the federal government to create Rebuild by Design, an international competition to develop creative, resilient new infrastructure to guard New York and New Jersey from climate change.

Seven projects, including one called the Big U, emerged and were awarded nearly a billion dollars from the federal government to start building.

Six years later, the Big U still hasn't broken ground, and the city has just abruptly announced major changes to the project with an expanded pricetag and unclear additional benefits.

That's left many of the original stakeholders asking: Just how committed is the city to leading the way on resilience?

The Big U, which called for a series of berms and parkland that would act as a sponge during major storms, was designed to protect Lower Manhattan from flooding. This area houses more than 220,000 residents as well as a \$500 billion business sector; if it goes underwater, the whole country is in trouble.

### **BE OUR GUEST**

BY AMY CHESTER AND TOM WRIGHT

By 2015, the first two sections of the project — from E. 25th St. to the Brooklyn Bridge — received \$511 million in federal funding, later matched by \$542 million from the city, which also led dozens of meetings with residents to craft an intelligent, effective plan.

Then earlier this year, the city went dark.

A few weeks ago, after several months of silence, the mayor's office announced radical changes to the northern portion of this project. Instead of building a berm, or narrow shelf of land, alongside the FDR Drive, and leaving East River Park to act as a sponge during major storms, they now plan to completely raise the entire, recently renovated park 8 to 10 feet.

It's hard to determine whether the new design will be better or worse since the city hasn't released any details. We do know a few things: The northern portion of the Big U will now cost an additional \$700 million (bringing the price tag for this section to \$1.45

billion); offers no additional flood protection; no additional community amenities, and should have already been well underway.

Spending \$700 million to get a better park or more flood protection might be welcomed, but that's not what the city is offering. Instead, it seems, this money is buying the city out of having to grapple with two thorny problems.

The first: inconveniencing drivers on the FDR, which would require overnight closures to build the original design.

The second challenge is more complex. The original design called for East River

Park to flood in the event of a big storm. Other privately managed parks including Brooklyn Bridge Park and Domino Park are designed to do this, and provide an extra layer of protection to their surrounding communities.

But the Parks Department doesn't have a maintenance budget or process to restore city parks after a major storm event. Instead of fixing that problem,

the city proposes to skirt it by lifting the whole park. That seems unwise.

The city has said that this new approach will shorten construction by six months, but for a project that is designed to last for more than a generation, that's already been slow-walked, let's make sure we get it right.

Mayor de Blasio should engage with the public to determine the best use of

Why does Blaz

want to spend

\$700M more on a

resiliency plan?

an additional \$700 million. Perhaps that will mean using the funds to extend the Big U to the Battery, which was underfunded. Perhaps we should use the money to create a maintenance budget for the

city to maintain flood infrastructure over time.

If they want to insist their way forward is the best, let's hear them make the case.

Chester is managing director of Rebuild by Design. Wright is the president of Regional Plan Association, one of the original partners of the Rebuild by Design competition.

### **DISCUSSION:**

- What is a resilient park? Does it need to protect something other than a park? Does it need to be floodable?
- As our governments face new climate realities, how will we reorganize municipal budgets to fund parks to maintain flood infrastructure? How will we train parks employees?
- How do we ensure equitable facilities in parks?
- How can parks take on additional roles for education and awareness? (National parks are a great example!)



