

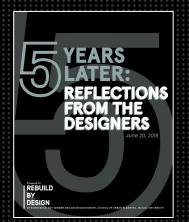
REBUILD BY DESIGN

develops innovative research, collaboration, and design processes to catalyze equitable adaptation.



WHAT WE DO

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



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

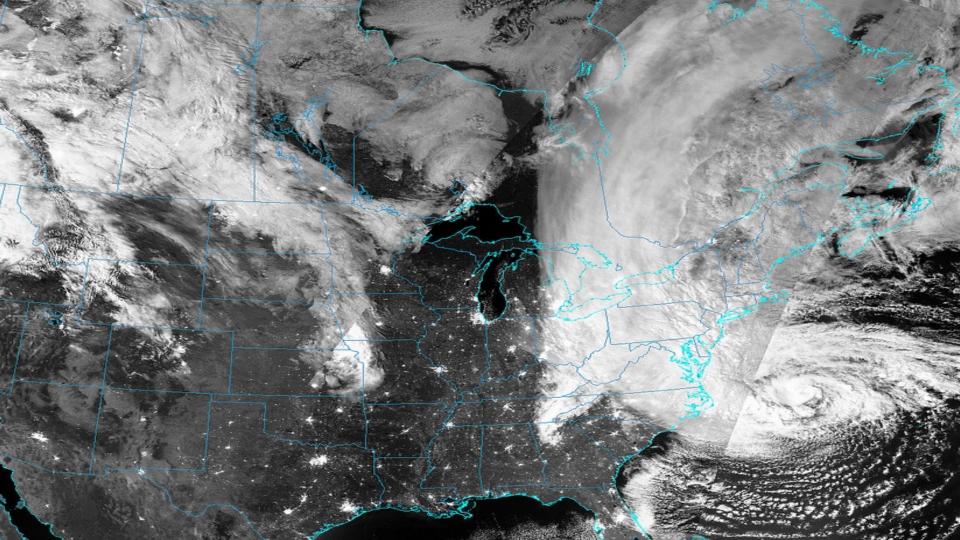
STRATEGIES FOR ADVOCATING FOR



Enterpris



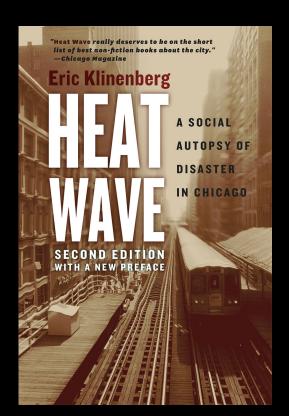




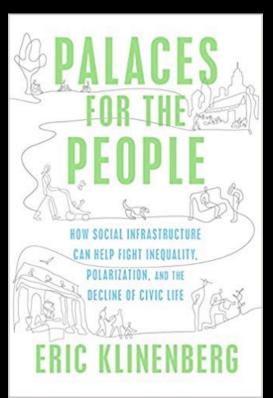


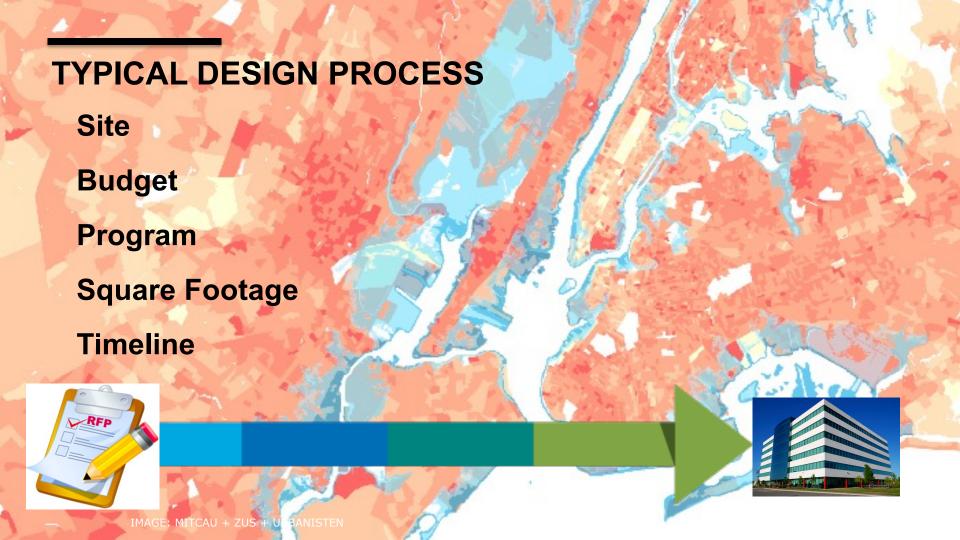


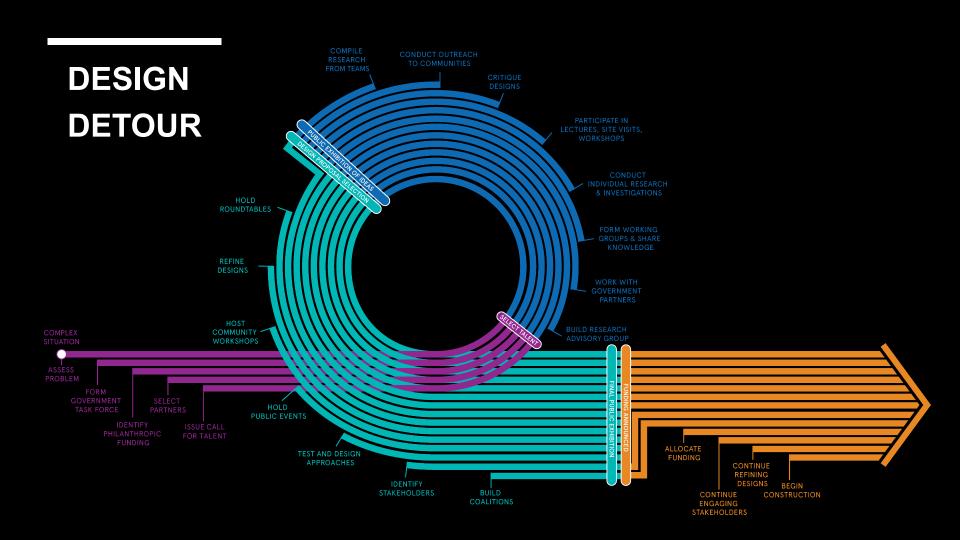
SOCIAL RESILIENCE



1995 Chicago Heat Wave Killed 700 people

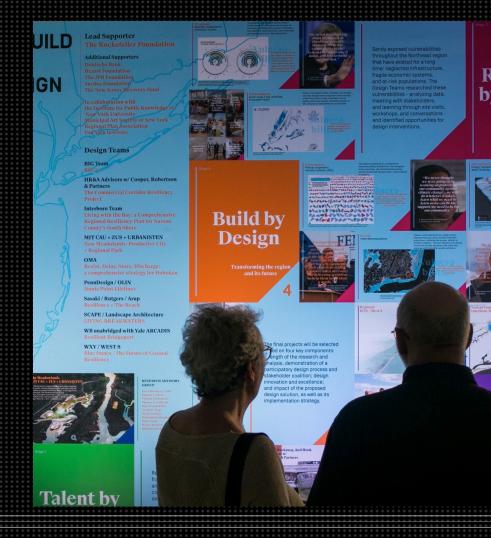






HURRICANE SANDY DESIGN COMPETITION JUNE 2013 – JUNE 2014

- 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





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



Design + Program developed with stakeholders



GOVERNMENT

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

LOCAL ORGANIZATIONS:

COMMUNITY

The Point Community Development Corporation

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

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...

ADVOCACY:

Hunts Point Economic Development 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...

EVENTS





Citymaking Bridgeport

Saturday March 15 1-4pm

Bridgeport Public Library Pop room, 1st. floor 925 Broad St, Bridgeport CT

Bike Tour Along the Pequonnock
Design Your Ideal City: Workshop
Bike Repair: Demonstration and Clinic
Living With Water: Urban Design Station
Hack Your Bike!

Bike Art

Win a Free Bike!!

DJ and Live Music Free food from Pantanal, Ms Thelma's, and Rootsman This afternoon festival hi ways people around the an active role in making

Citymaking Bridgeport is a co of Rebuild by Design, a design Oberna's Hurricane Sandy Tas U.S. Department of Housing & (HUD), rebuildbydesign.org

Contact: jchou@\ 212-924-7000 x2

INCLUSIVE



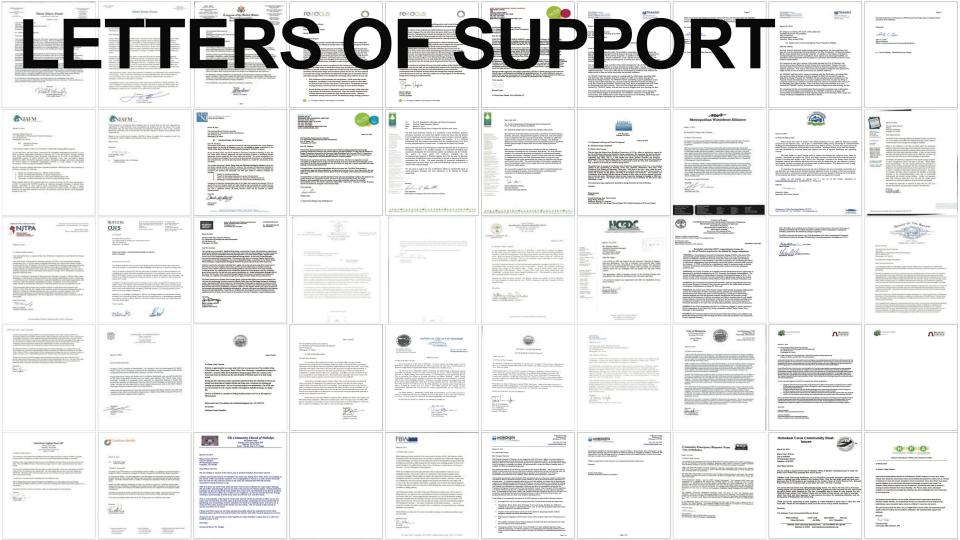














PROJECTS

BIG Team The BIG U Manhattan, NY



HR&A Advisors, Inc. with Cooper, Robertson & Partners Commercial Corridor Resilience Project Asbury Park, NJ; Rockaways, NY;



Interboro Team Living with the Bay: A Comprehensive Regional Resilience Plan for Nassau County's South Shore Nassau County, NY



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



OMA

Resist, Delay, Store, Discharge: A Comprehensive Strategy for Hoboken Hoboken, NJ



PennDesign/OLIN Hunts Point Lifelines Bronx, NY



Sasaki/Rutgers/Arup Resilience + The Beach Union Beach, Asbury Park, Toms River, NJ



SCAPE/Landscape Architecture Living Breakwaters Staten Island, NY



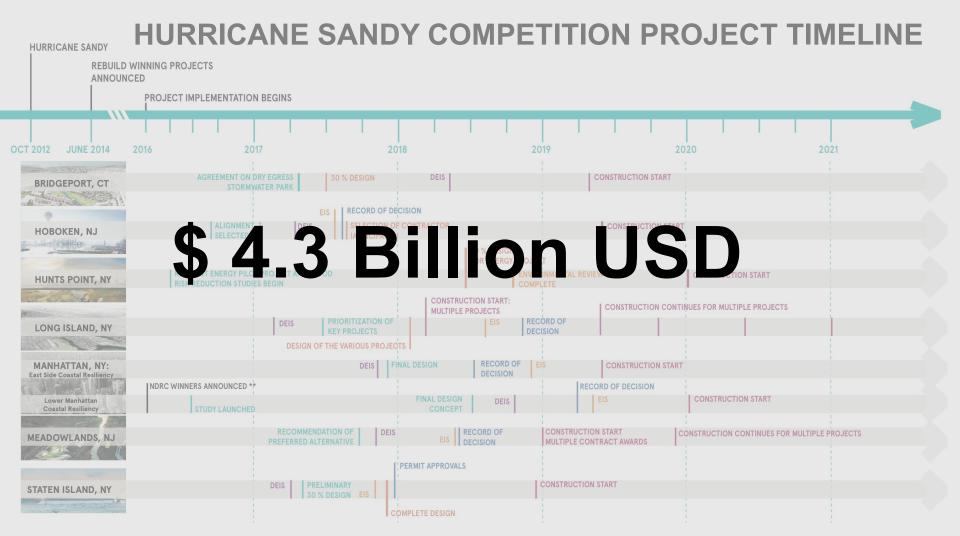
WB unabridged with Yale ARCADIS Resilient Bridgeport Bridgeport, CT



WXY/West 8 Blue Dunes - The Future of Coastal Protection Atlantic Coastline

HURRICANE SANDY COMPETITION PROJECT TIMELINE HURRICANE SANDY REBUILD WINNING PROJECTS ANNOUNCED PROJECT IMPLEMENTATION BEGINS OCT 2012 **JUNE 2014** 2016 2017 2018 2019 2020 2021 AGREEMENT ON DRY EGRESS DEIS **CONSTRUCTION START** 30 % DESIGN BRIDGEPORT, CT STORMWATER PARK RECORD OF DECISION ALIGNMENT 3 SELECTION OF CONTRACTOR DEIS **CONSTRUCTION START** HOBOKEN, NJ SELECTED 30 % DESIGN FOR ENERGY PROJECT RESILIENT ENERGY PILOT PROJECT AND FLOOD **ENVIRONMENTAL REVIEW** CONSTRUCTION START **HUNTS POINT, NY** RISK REDUCTION STUDIES BEGIN CONSTRUCTION START: CONSTRUCTION CONTINUES FOR MULTIPLE PROJECTS MULTIPLE PROJECTS RECORD OF PRIORITIZATION OF **DEIS** LONG ISLAND, NY DECISION KEY PROJECTS **DESIGN OF THE VARIOUS PROJECTS** FINAL DESIGN RECORD OF MANHATTAN, NY: **CONSTRUCTION START** DEIS East Side Coastal Resiliency DECISION INDRC WINNERS ANNOUNCED ** RECORD OF DECISION **FINAL DESIGN** CONSTRUCTION START Lower Manhattan DEIS **Coastal Resiliency** STUDY LAUNCHED **CONCEPT** RECOMMENDATION OF DEIS **RECORD OF** CONSTRUCTION START CONSTRUCTION CONTINUES FOR MULTIPLE PROJECTS MEADOWLANDS, NJ PREFERRED ALTERNATIVE MULTIPLE CONTRACT AWARDS PERMIT APPROVALS CONSTRUCTION START STATEN ISLAND, NY 30 % DESIGN EIS

COMPLETE DESIGN



INFORMING SIMILAR APPROACHES

REBUILD BY DESIGN National Disaster Resilience Competition







2013

2014

2018

2018







The BIG U

BIG (Bjarke Ingels Group) One Architecture Starr Whitehouse Buro Happold Level Agency for Infrastructure James Lima Planning + Development **Green Shield Ecology AEA Consulting, Arcadis Project Projects**, **Parsons School of Constructed Environments**



LIVING BREAKWATERS

SCAPE LANDSCAPE ARCHITECTURE

Parsons Brinckerhoff
Dr. Philip Orton
Stevens Institute of Technology Ocean & Coastal
Consultants SeArc Ecological Consulting
LOT-EK, MTWTF, The Harbor School and Paul Greenberg

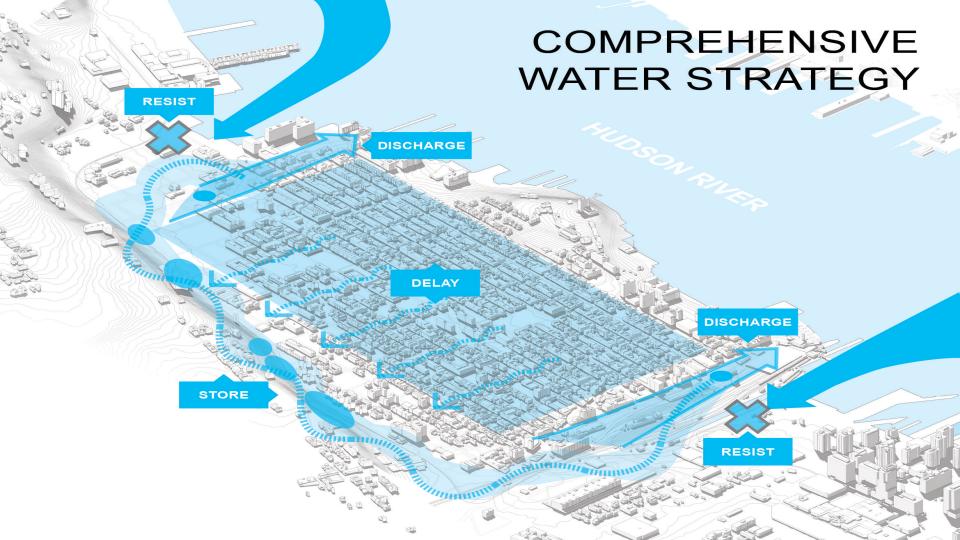


Resist, Delay, Store, Discharge: A Comprehensive Strategy for Hoboken



OMA

Royal HaskoningDHV HR&A Advisors, Balmori Associates



WHAT HAVE WE LEARNED?

INTERDISCIPLINARY GROUPS CREATE BETTER OUTCOMES

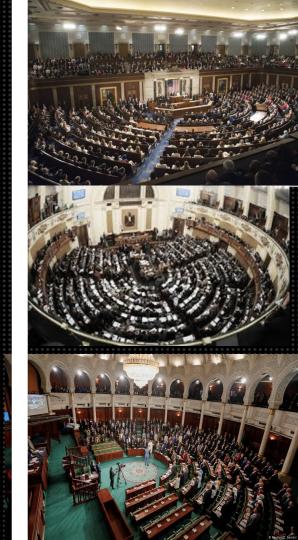
- Architects
- Designers
- Engineers
- Scientists
- Academics
- Writers
- Artist
- Community Engagement Specialists
- Government
- NGO Leaders



THERE IS DISTRUST IN GOVERNMENT IS EVERYWHERE

But in most cases they are needed for implementation

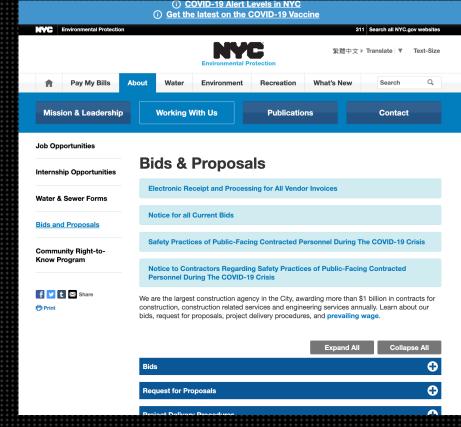
Designers in the lead with the government and community assures that community and government are kept separate and you are working towards the goals of each.



PROCUREMENT IS HARD

The laws that were created to prevent corruption, also prevent innovation. Inflexible rules favors the status quo in:

- Using the same firms
- Using large multinational firms who can support the paperwork and reporting measures
- Prevents opportunities for younger and more diverse firms



REPLICABLE + TRANSFERABLE

Initial investment can have lasting payoffs to other locations in the same region and inspire others.

Examples:

- High Density
- Low Density
- Bay
- Barrier Island
- Wetland/Marsh
- Infill
- High Precipitation
- Drought



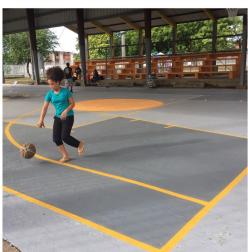
HAVING FAITH IN COMMUNITIES ALWAYS WORKS OUT IN THE END

They have great ideas and their ideas can work!









PLANS CHANGE!

October 2019

Mayor announced a changed plan at a cost of \$700 million, which the City would fund

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 dark. 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 stakeolders asking: Just how committed is ne city to leading the way on resil-

The Big U, which called for a series berms and parkland that would act cently renovated park 8 to 10 feet. a sponge during major storms, was

BE OUR GUEST BY AMY CHESTER AND TOM WRIGHT

By 2015, the first two sections of the project - from E. 25th St. to the Brook-

lyn 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

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, re- Other privately managed parks includ-

igned to protect Lower Manhattan new design will be better or worse vide an extra layer of protection to their the case. n flooding. This area houses more since the city hasn't released any de-220,000 residents as well as a tails. We do know a few things: The billion business sector; if it goes northern portion of the Big U will now have a maintenance budget or process erwater, the whole country is in cost an additional \$700 million (bring- to restore city parks after a major storm ing the price tag for this section to \$1.45 event. Instead of fixing that problem,

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

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 chal-

lenge is more complex.

surrounding communities.

resiliency plan? The original design called for East River ing Brooklyn Bridge Park and Domino It's hard to determine whether the Park are designed to do this, and pro-

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

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

Park to flood in the event of a big storm. city to maintain flood infrastructure

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

Chester is managing director of Re-But the Parks Department doesn't build by Design. Wright is the president of Regional Plan Association, one of the original partners of the Rebuild by Design competition.

New York Daily News

Why does Blaz

want to spend

\$700M more on a

THANK YOU!

Amy Chester, Managing Director achester@rebuildbydesign.org

