

# RESILIENCY BY DESIGN

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Bay Area Regional Collaborative  
Governing Board Meeting

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# Key Challenges and Aspirations

- Equity and Inclusivity
- Access and Mobility
- Place-making
- Resiliency and Long-term Sustainability
  - **Engage** people in the waterfront experience and in waterfront planning.
  - Create a waterfront that responds to **sea level rise**.
  - Ensure that our waterfront communities are **equitable, diverse, and whole**.
  - **Bridge the bay** through collaboration and partnership.



# How can we bring the best minds together to work towards a more resilient and sustainable future?

## Resiliency by Design

- **Captures** the imagination and commitment of the public, working alongside communities to create new ideas.
- **Creates** opportunities for collaboration, recognizing existing efforts and jurisdictional mandates.
- **Taps** into the innovative and creative spirit that defines the Bay Area.
- **Presents** tangible and implementable solutions to complex issues.



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**REBUILD BY  
DESIGN**



# SANDY REGION MULTI-STAGE PROCESS

## IMPACT

October 2012  
**HURRICANE SANDY**  
strikes the Northeast United States. It is the second costliest/most destructive storm in the nation's history.

Executive Order  
reestablishes Hurricane Sandy  
Rebuilding Task Force.

Task Force  
announces Rebuild by  
Design competition.

## TALENT

The Task Force issues a Request for  
Qualifications and Approaches, calling  
for teams to assemble themselves in  
interdisciplinary partnerships to tackle  
the region's physical and social  
vulnerabilities.

148 interdisciplinary,  
international  
teams apply.

10 design teams are  
selected.

## RESEARCH

Teams are lead through an intensive program of field research to introduce them to a variety of local stakeholders, providing a comprehensive view of the storm's effects — the damage it created as well as the long-standing problems it uncovered or exacerbated. The teams undertake five multi-day excursions and a variety of research projects, culminating in a body of regional research and 41 design opportunities that can be developed into full proposals.

### SITES VISITED

**New York**  
Brooklyn: Red Hook  
Queens: Breezy Point, Broad Channel, Howard Beach, Rockaways  
Staten Island: Midland Beach, New Dorp, Oakwood Beach, South Beach, St. George  
Manhattan: Downtown, Lower East Side  
Suffolk County: Copague, Port Jefferson  
Nassau County: Freeport, Bay Park, Oceanside, Island Park, Long Beach, East Rockaway

### New Jersey

Essex County: Newark  
Hudson County: Kearny, Hoboken, Jersey City  
Mercer County: Trenton  
Monmouth County: Asbury Park, Highlands, Kearsburg, Sea Bright, Union Beach  
Ocean County: Toms River

### Connecticut

Fairfield County: Bridgeport, Milford, Fairfield

### THEMES EXPLORED

Social Infrastructure  
Multi-Family Housing  
Major Infrastructure  
Public Transit  
High-Density Urban Development  
Vulnerable Populations  
Small Businesses  
Environmental Justice  
Single-Family Housing  
Economic Development  
Beach Access  
Tourism  
Insurance  
Health Care Infrastructure  
Capacity Needs of Small Communities  
Emergency Response  
Disaster Management  
Governance and Federally Funded Rebuilding  
Displacement  
Climate Change and Risk  
Ecosystem Services  
Conservation  
Ecological Barriers

41 x7

Teams unveil 41  
Design Opportunities.

10 proposals are selected.

## DESIGN

Ten proposals are selected to  
move to the design phase.  
HUD and the partner organizations work  
with teams throughout the design stage  
to gather diverse local stakeholders into  
community coalitions with whom they begin  
to co-design the final interventions.

## REBUILD BY DESIGN GUIDES ALL TEAMS

Throughout the design stage, Rebuild  
by Design continues to gather teams  
for distinct moments of design critique  
and widespread public involvement. A  
series of interactive, community-driven  
activities brings Rebuild by Design to  
new audiences around the region.

New Orleans  
Site Visit

4 x4

Thank you LES Dance Party  
Manhattan, NY

I <3 My Shoreline Resiliency Fair  
Staten Island, NY

Rebuild One City Parade  
Asbury Park, NJ

Citymaking Bike Ride  
Bridgeport, CT

Earth Day, Rockaway  
Queens, NY

BIG TEAM  
3 x48

HR+4 WITH COOPER  
ROBERTSON AND PARTNERS  
5 x29

INTERBORO TEAM  
6 x57

MIT CAU + ZUS + URBANISTEN  
3 x16

OMA  
2 x26

PENNDISIGN/OLIN  
4 x75

SASAKI/RUTGERS/ARUP  
2 x2  
53

SCAPE/LANDSCAPE  
ARCHITECTURE  
2 x2  
60

WB UNABRIDGED WITH  
YALE ARCADIS  
8 x16

WXY/WEST8  
2 x16

## IMPLEMENTATION

June 2014  
Winning proposals are  
announced.  
HUD allocates \$930 million to  
city and state governments to  
carry out the first stages of  
implementation for six winning  
and one finalist design.

City and state governments  
have until September 30,  
2022 to spend federally  
allocated money.

Teams showcase their  
final proposals.  
The Rebuild by Design jury  
assesses their proposals,  
including the designs,  
coalition involvement, and  
implementation plans.

HUD Secretary Shaun  
Donovan, as Jury Chair,  
selects winning proposals.

# BROAD COLLABORATION

5

Philanthropic  
Funders

4

Partner  
NGOs

141

Neighborhoods

19

Universities

535

Community  
Stakeholder Orgs

181

Government  
Agencies

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# FINAL DESIGN PROJECTS

After months of collaborative design, learning, and community engagement, the ten teams finalized their designs: ten visionary proposals aimed at making the region more resilient in the face of future storms.

Because of the interdisciplinary nature of the process and the diverse expertise represented amongst the teams, the ten projects range in scale, typology, location, and approach. They incorporate the tools of architecture, landscape architecture, urban planning, environmental science, and engineering to address

issues as varied as ecology, urban density, and coastal communities — from dense housing projects to marine environments far offshore.

Despite their differences, the projects all grew from the same soil: the comprehensive vulnerability assessments made during the Rebuild by Design research phase. As each unique project sprouted up, the teams' close collaborations with local communities helped the projects mature into the complex, robust structures they finally became.



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## Resiliency by Design – Bay Area

We hope to create a unique, innovative process, using key elements of Rebuild by Design from the Sandy Region, while addressing Bay Area-specific goals.

Key elements:

- Interdisciplinary
- Regional
- Collaborative
- Replicable
- Implementable



# MULTI-STAGE PROCESS



Time constraints of competition fosters urgency

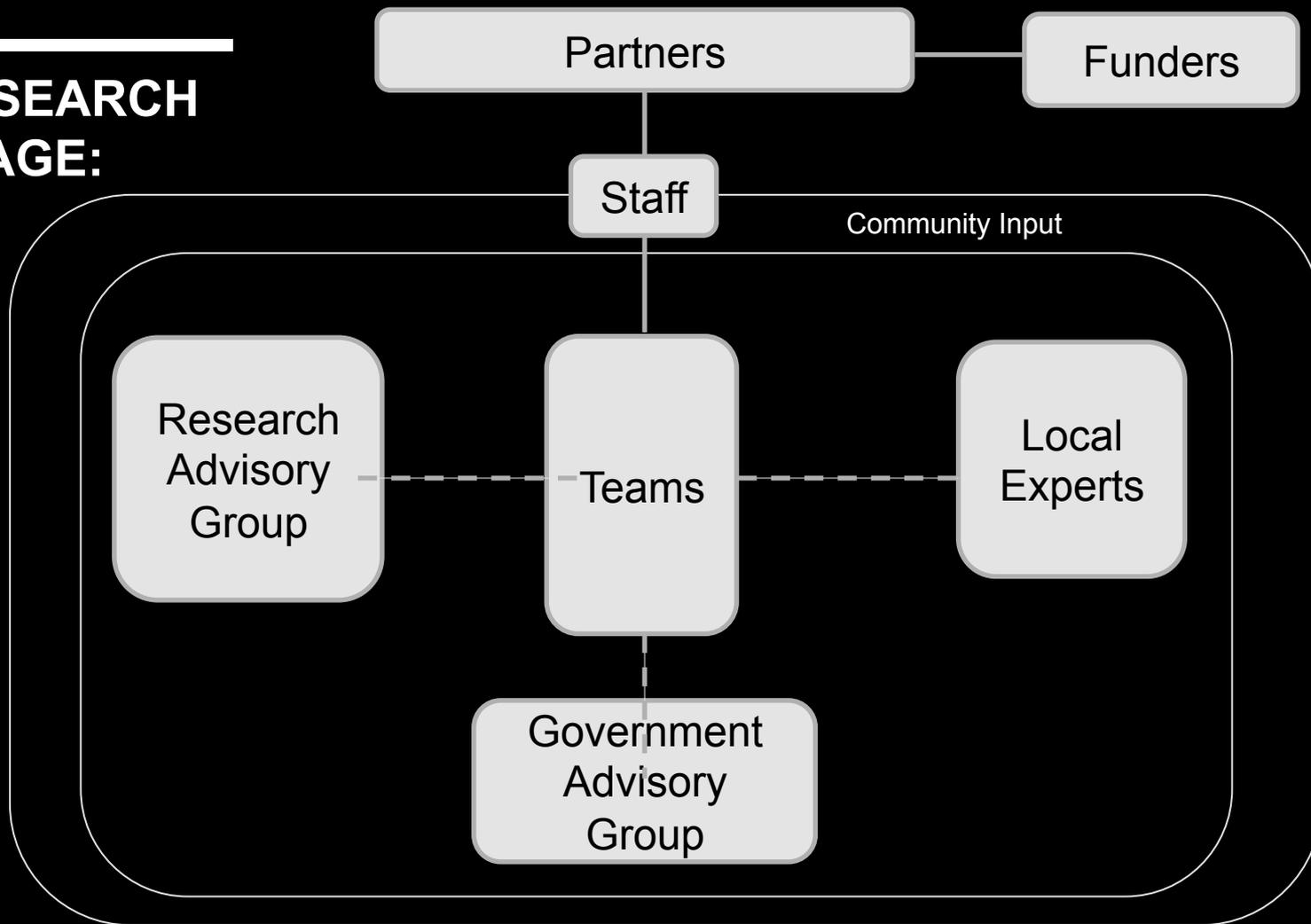
Broad and diverse ideas generated in short amount of time

Public sees tangible results quickly

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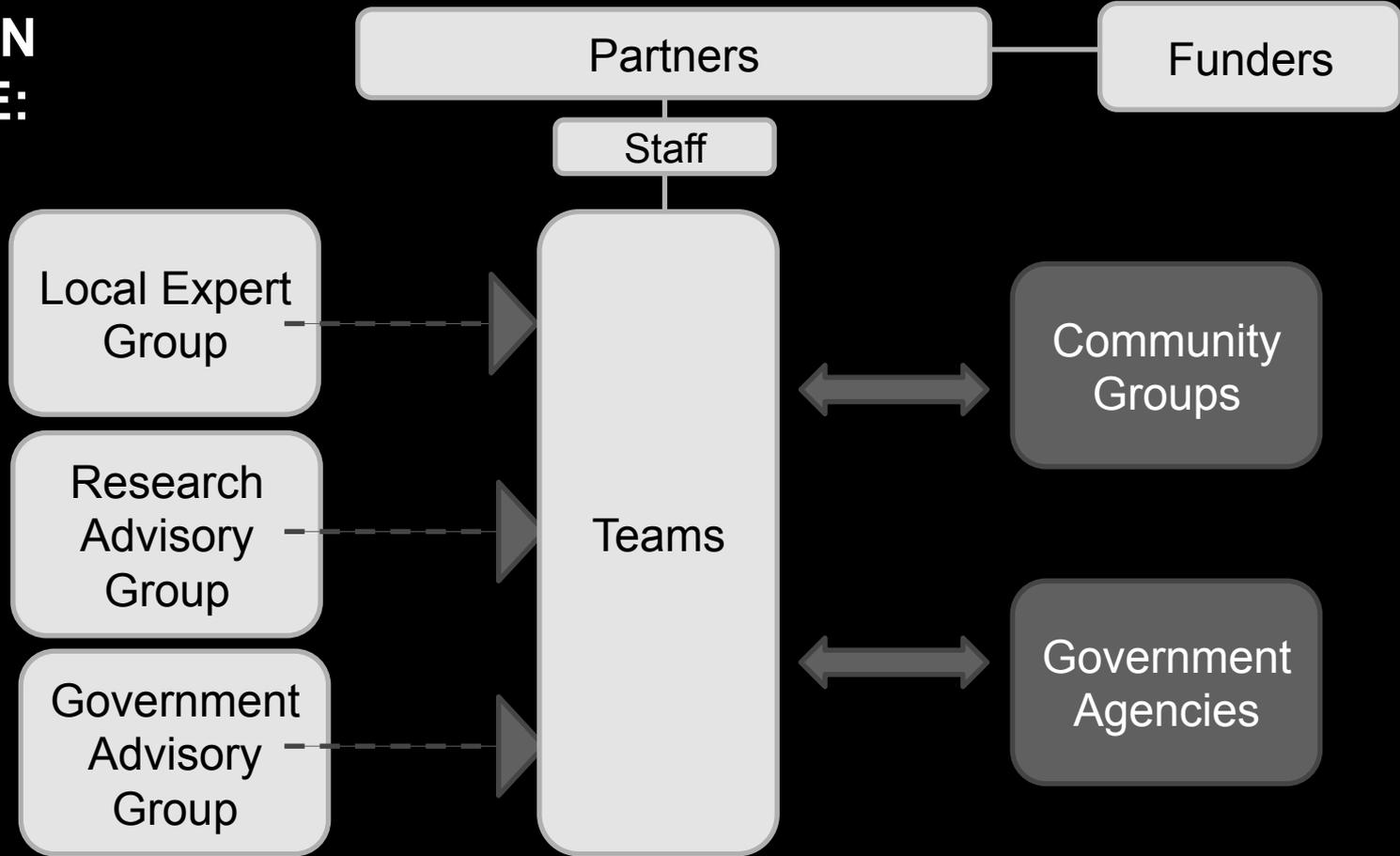
# GOVERNANCE STRUCTURE

**RESEARCH  
STAGE:**

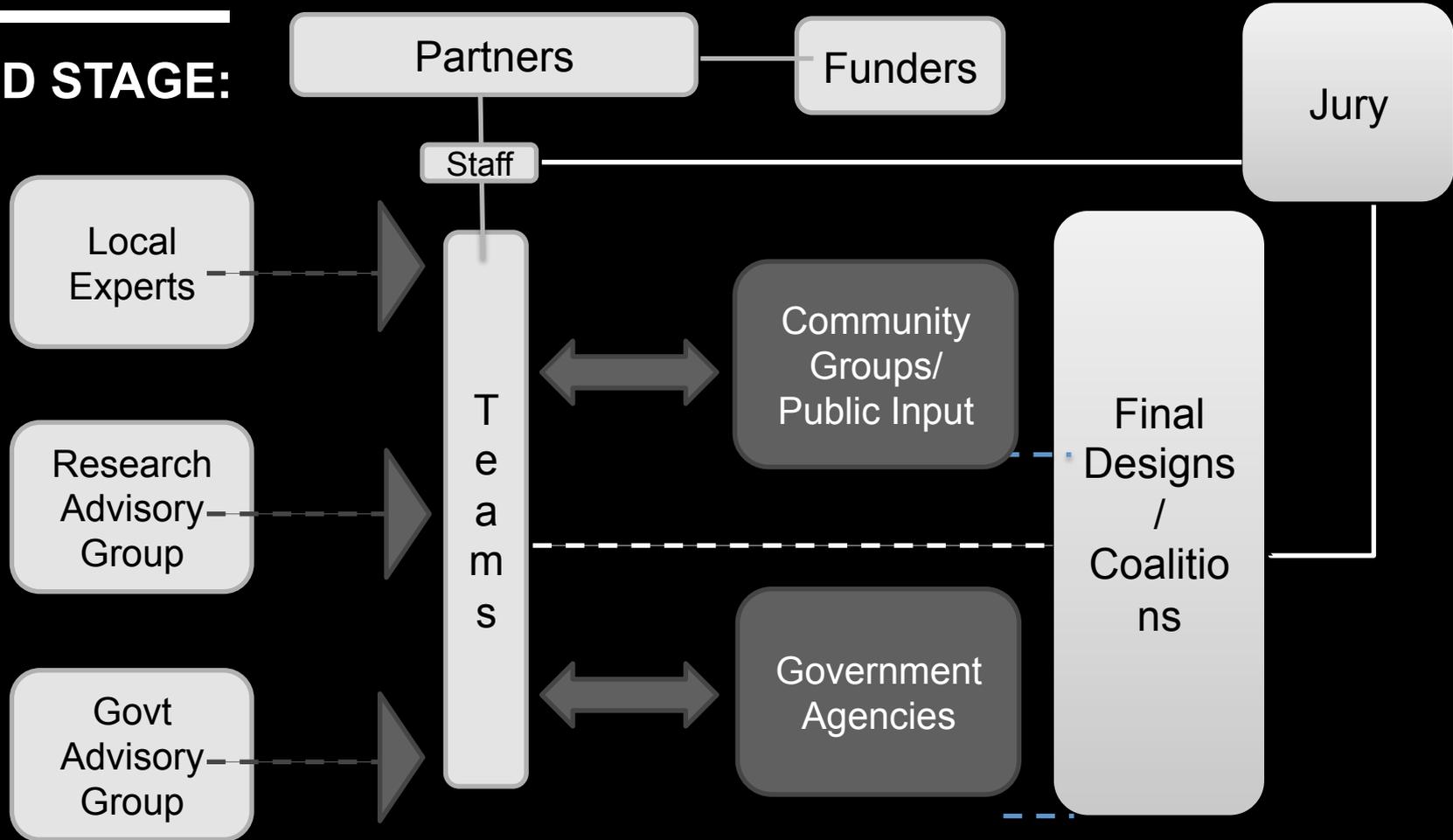


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**DESIGN  
STAGE:**



**END STAGE:**



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# UPCOMING EVENT



Rebuild by Design Exhibit:  
May 14 - August 7, 2015

**Design for Resilience:  
Learning from Rebuild by  
Design**  
“Learning from Rebuild by  
Design”

*A conversation with Gil  
Kelley, Rachel Flynn, and  
Amy Chester*

@ SPUR  
July 21, 6:00 PM

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## NEXT STEPS

- Develop a process based on the findings of the interviews unique to the Bay Area' needs
- Broaden the group of supporters and collaborators
- Outreach to elected leaders and other leaders
- Identify partner organizations to co-direct the process
- Identify Research Advisory Board and other key advisors
- Raise funds



## HOW CAN YOU GET INVOLVED?

- Share your agencies' goals - we will work with you to incorporate them into the design challenge
- Share data and host design teams so they can propose real, effective solutions
- In the Design Stage, assign staff to work with teams to ensure they have the best understanding of your facilities and overall needs
- Participate on an advisory board