

An aerial photograph of a city in ruins, showing extensive destruction of buildings and infrastructure. Debris is scattered across the ground, and some structures are partially collapsed. In the background, signs for 'WAREHOUSE LINE' and 'SAVANNAH LINE' are visible on some buildings. The scene is overlaid with a semi-transparent green horizontal band.

# BUILDING RESILIENCE IN COMMUNITIES



Robert D. Shumeyko  
Regional Director, Office of Community Planning and  
Development – New England Region  
U.S. Department of Housing and Urban Development

# RESILIENCE 101

## Definition

re·sil·ience (n.) : the ability to plan and prepare for, recover from, or more successfully adapt to actual or potential adverse events

## Takeaways

- Many shocks and stresses are regional
- Distant vulnerabilities can have local impacts
- Chronic stresses affect anticipation, response, and recovery from major shocks
- There are several scales to resilience

# RESILIENCE SCALES



**PERSONAL**



**NEIGHBORHOOD**



**REGIONAL**



**NATIONAL**



**GLOBAL**

# HOW HUD SUPPORTS RESILIENCE

1. CDBG-DR Program
2. Rebuild by Design (RBD)
3. National Disaster Resilience Competition (NDRC)
4. Sustainable Communities Initiative (SCI)

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# **CDBG-DISASTER RECOVERY PROGRAM**

# CDBG-DR PROCESS

CONGRESS

Approves  
Appropriation



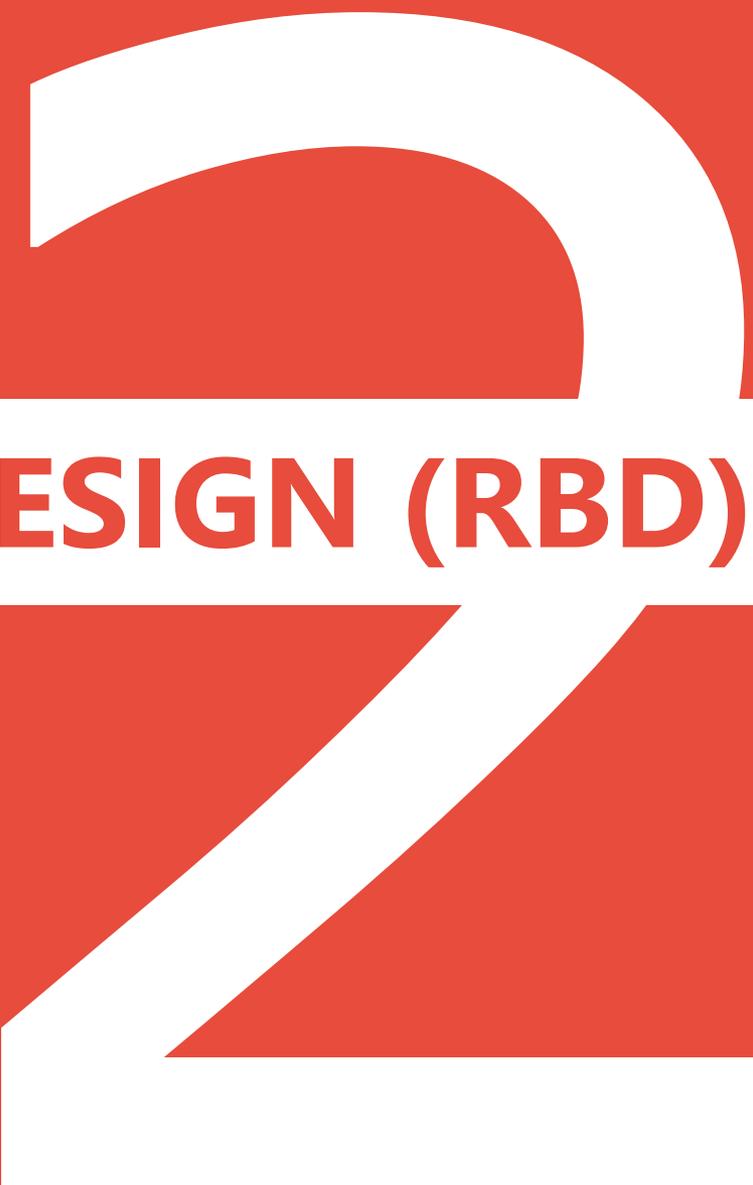
HUD

1. Calculates & announces allocations
2. Publishes a notice in the federal register
3. Awards funds



GRANTEE

1. Prepares action plan
2. Administers programs or activities or works with another entity to distribute funds

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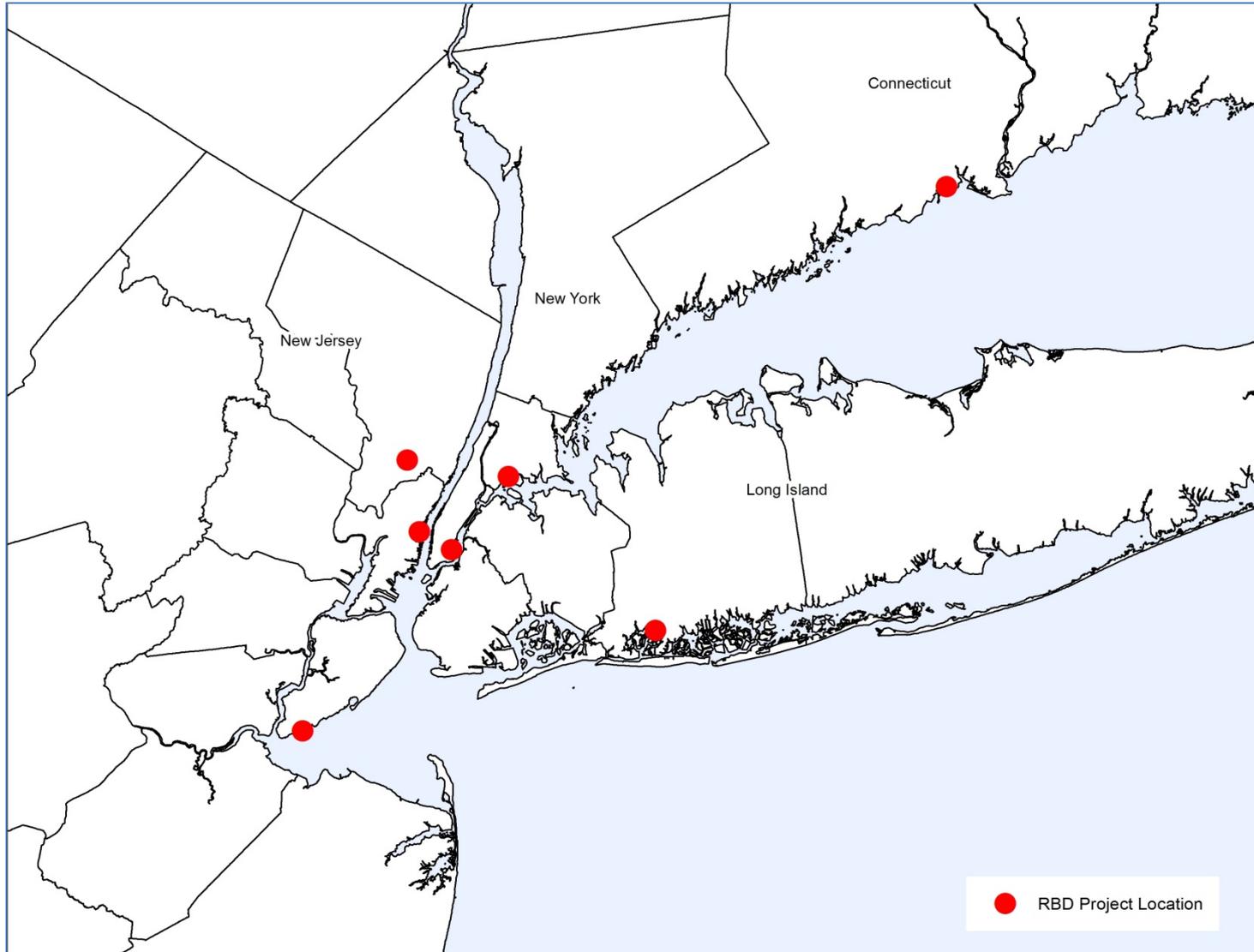
**REBUILD BY DESIGN (RBD)**

# RBD COMPETITION

- Innovative public-private partnership model
- 140 international applicants
- Ten interdisciplinary design teams developed long-term solutions
- Pre-commitment of implementation funds catalyzed participation
- \$930 million awarded to seven winning ideas



# RBD PROJECTS



# RBD PROJECTS

Living Breakwaters,  
Staten Island, NYC



Living with the Bay,  
Long Island, NY



East Side Coastal Resiliency,  
Manhattan, NYC



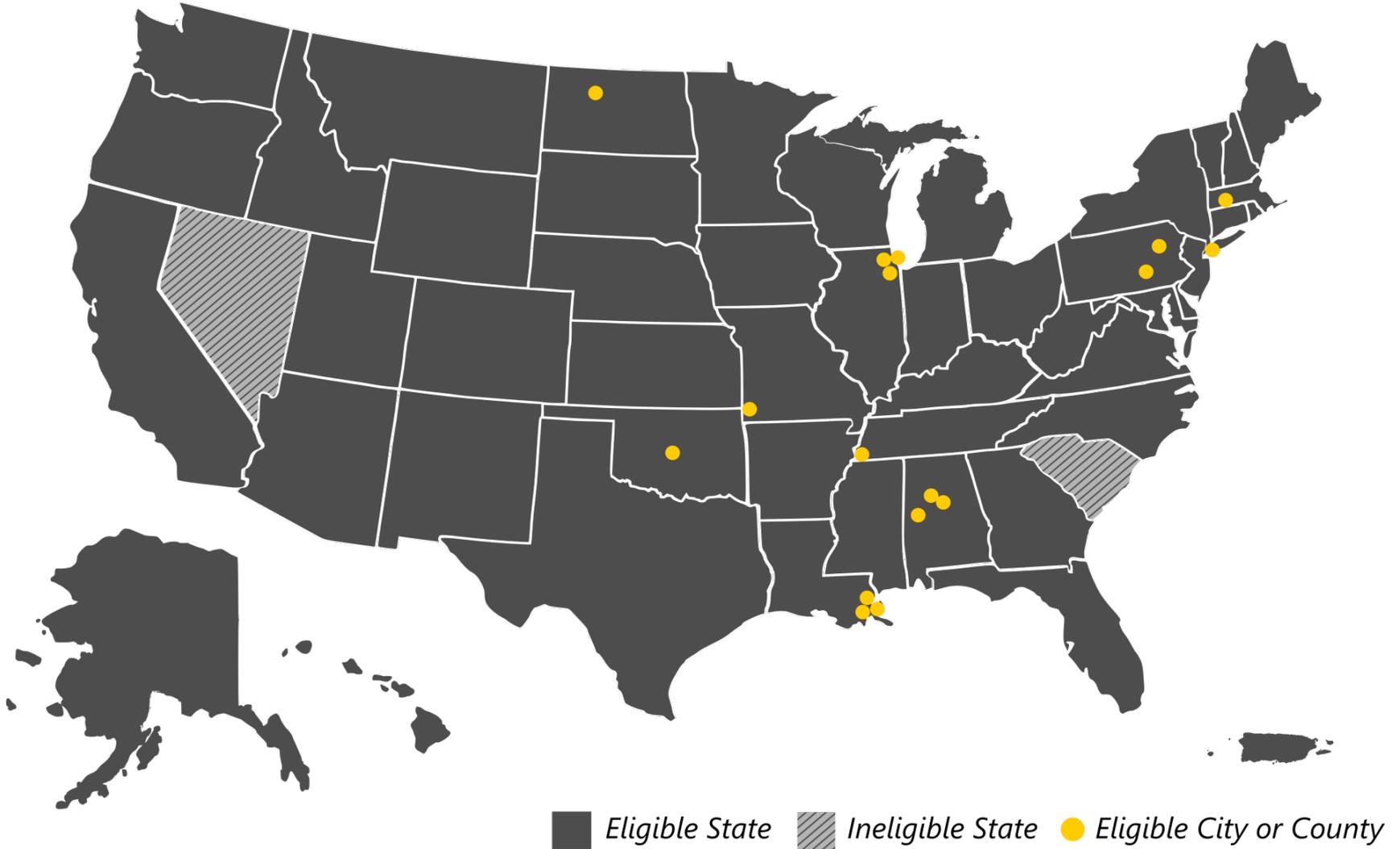
Hudson River Project,  
Hoboken, Jersey City, Weehawken, New Jersey





**NATIONAL DISASTER RESILIENCE  
COMPETITION (NDRC)**

# NDRC ELIGIBLE APPLICANTS



# NDRC TWO-PHASE COMPETITION

## Phase 1

[Framing Unmet Recovery Needs, Vulnerabilities,  
and Community Development Objectives]



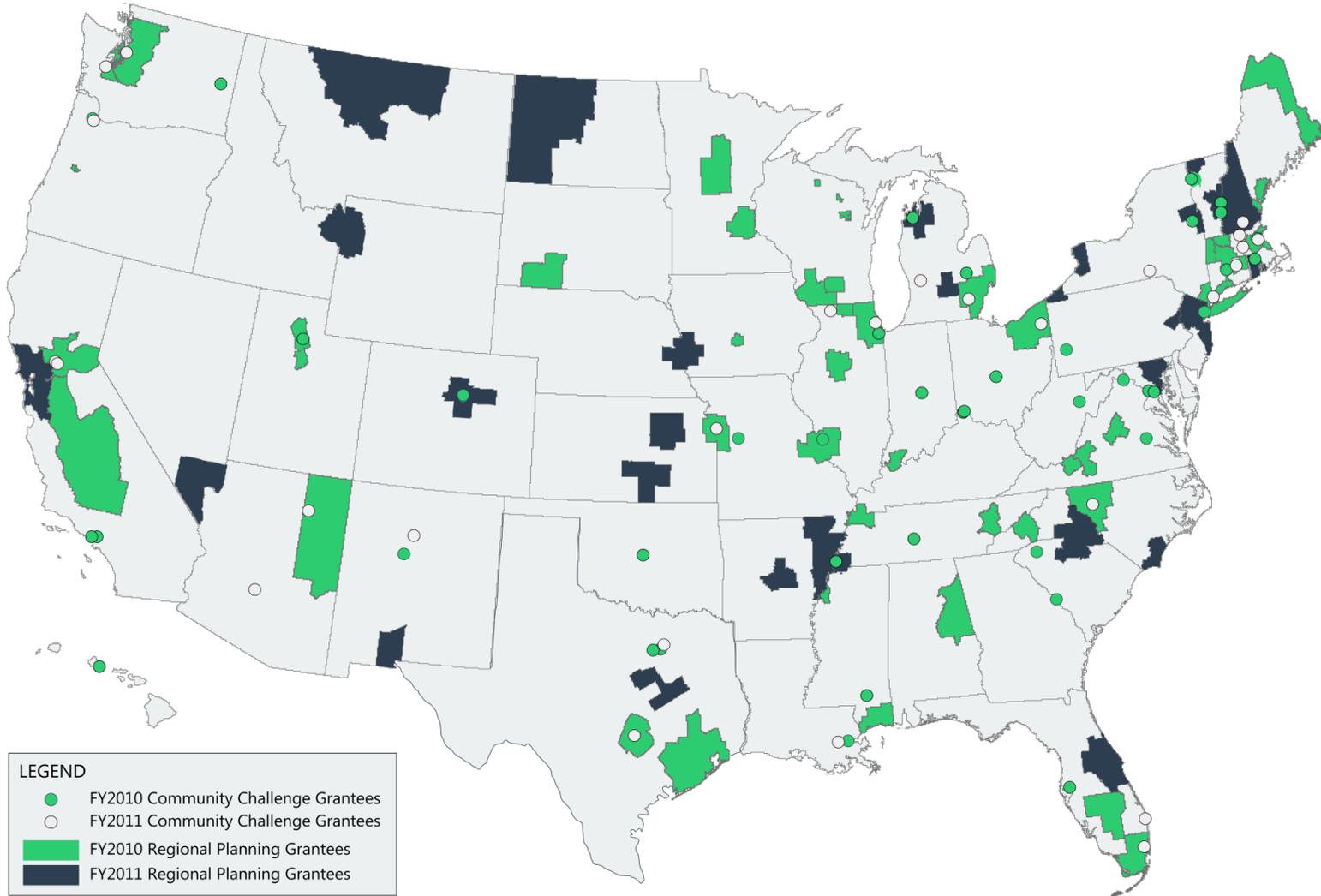
*\*Note: These dates are tentative and subject to change at HUD's discretion*



**SUSTAINABLE COMMUNITIES INITIATIVE (SCI)**



# SCI GRANTEES



# SCI PROJECTS SUPPORTING RESILIENCE

- Economic development and diversification plans
- Climate change and adaptation plans
- Increasing housing and transportation choices
- Modernizing zoning codes and land use provisions
- Affordable housing studies and plans
- Green infrastructure
- Fair Housing and Equity Assessments (FHEA)
- Many more...

# FINAL THOUGHTS ON RESILIENCE

## **Climate change is real, and events are more frequent**

- Since 2005, Congress has allocated \$43 billion in CDBG-DR funds to states and localities
- Hurricane Sandy = \$50 billion in damages
- Hurricane Katrina = \$108 billion in damages

## **Inter-jurisdictional collaborations are critical**

- Natural disasters have cross-jurisdictional impacts
- Cooperation across jurisdictions is critical for response, recovery, and adaptation
- HUD SCI grantees have laid groundwork for resilience strategies at the regional and cross-state level
- Example: NY-CT Sustainable Communities Consortium

# FINAL THOUGHTS ON RESILIENCE

## **Vulnerable populations are most severely affected**

- Natural disasters and other major shocks have devastating and disproportionate effects on low and moderate income families
  - Severe wealth and income inequalities limit choice, opportunity, and financial stability for a large percentage of the population

## **Preparedness is essential**

- Resilience isn't only about investments in the built environment
- The "soft side" of resilience is about making sure that residents of a community are prepared to respond effectively to shocks and stressors
  - Disaster Staffing Toolkit is a valuable resource for this



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