



Harriet Tregoning
Principal Deputy Assistant Secretary
Office of Community Planning and Development
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



HOW HUD SUPPORTS RESILIENCE

- 1. CDBG-DR PROGRAM
- 2. NDRC
- 3. SCI
- 4. BUILD AMERICA



CDBG-DR PROCESS

CONGRESS --> HUD --> GRANTEE

Approves Appropriation

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

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

CDBG-DR ELIGIBLE ACTIVITES

CDBG-DR program funds are for necessary expenses related to disaster relief, long-term recovery, restoration of infrastructure and housing, and economic revitalization in the <u>most impacted and</u> distressed areas.

More info:

https://www.hudexchange.info/cdbg-dr/

CDBG-DR GRANTEES

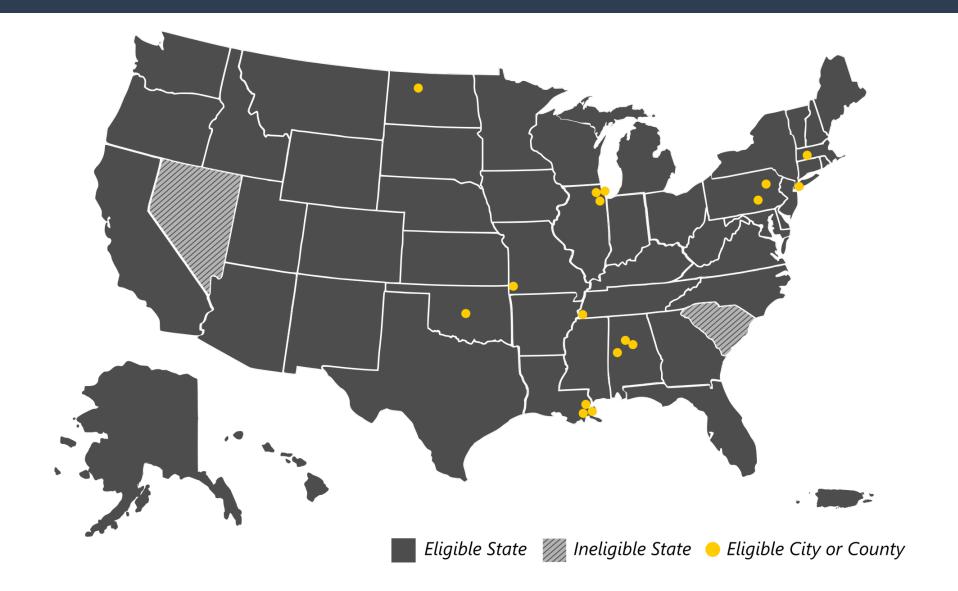


NATIONAL DISASTER RESILIENCE COMPETITION (NDRC)

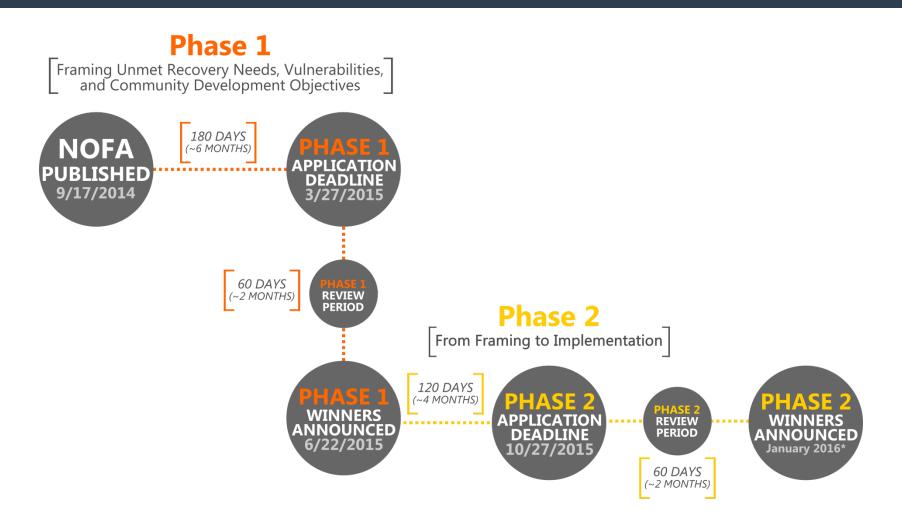
NDRC BACKGROUND

- Public Law 113-2
- 2011-2013 PDMDAs
- \$1 Billion in CDBG-DR Funds
- Partnership with Rockefeller
- Leveraging resilience approaches with other community investments

NDRC ELIGIBLE APPLICANTS



NDRC TWO-PHASE COMPETITION



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

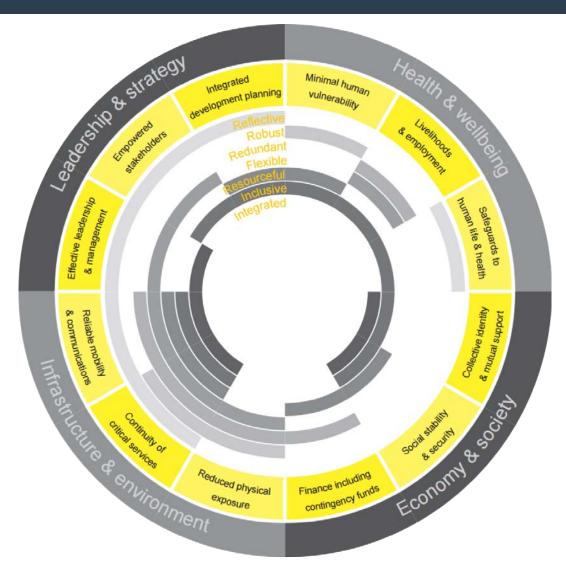
NDRC BCA REQUIREMENT

- In Phase 2, HUD requires a Benefit-Cost Analysis (BCA) for high dollar values proposed projects in their application
- Applicants must use the base-case discount rate of 7% and follow guidelines of OMB Circular A-94
- Applicants must submit outcome metrics for all projects in each of the following categories:
 - Resilience Value
 - Environmental Value
 - Social Value; and
 - Economic Revitalization

ROCKEFELLER **TECHNICAL ASSISTANCE**

- Phase 1: \$5 million in TA and capacity building for 67 eligible NDRC applicants
 - Five regional Resilience Academies and Federal Resilience Workshop
- Phase 2: \$3.2 million in TA to 40 NDRC applicants
 - Resilience Academies and a Resilience Summit in Washington

ROCKEFELLER CITY RESILIENCE FRAMEWORK



NDRC RESOURCES

NOFA: http://portal.hud.gov/hudportal/documents/huddoc?id=2014ndrc-nofa.pdf

HUD Exchange: https://www.hudexchange.info/cdbg-dr/resilient-recovery

NDRC Webinar Series:

https://www.hudexchange.info/news/ndrc-webinar-series/

White House Fact Sheet:

https://www.whitehouse.gov/the-press-office/2014/06/14/fact-sheet-national-disaster-resilience-competition

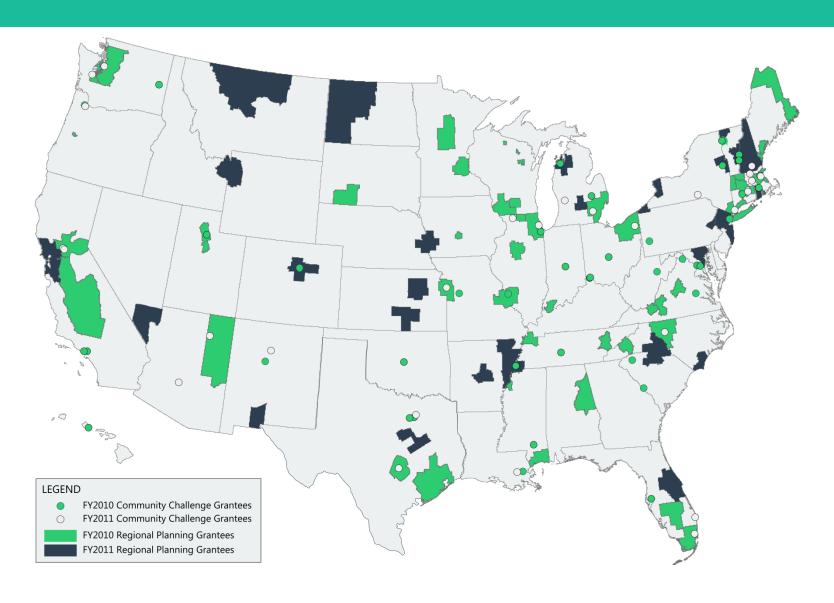
Questions? Email Resilientrecovery@hud.gov



SCI BACKGROUND

- Established in 2009 with the Partnership for Sustainable Communities
- Community Challenge and Regional Planning Grant Programs
- 143 communities awarded grants in FY2010-2011
- \$240 million in funding; additional \$250 million leveraged
- City-wide, neighborhood, corridor, and station area plans
- Regional plans for sustainable development

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...

SCI RESOURCES

SCI Resource Library:

https://www.hudexchange.info/programs/sci/resources

Better Plans for Better Places Report:

http://betterplansbetterplaces.iscvt.org/

Partnership for Sustainable Communities:

http://www.sustainablecommunities.gov/

HUD Office of Economic Resilience:

http://portal.hud.gov/hudportal/HUD?src=/program_offices/economic_resilience



BUILD AMERICA GOALS

- Attract private investment in resilient infrastructure projects
- Encourage use of CDBG and other federal resources for predevelopment activities
- Provide resources to communities to enable predevelopment work that builds on the SCI model and leads to more resilient and multibenefit infrastructure projects

BUILD AMERICA ACTIONS

- Development of Federal Resource Guide for Infrastructure Planning and Design
 - May 5, 2015 White House Roundtable on Infrastructure Predevelopment titled 'Building the Project Pipeline'
- USDOT and USEPA Infrastructure Finance Centers have been opened
- Launched parallel interagency working group called the Broadband Opportunity Council
- Published a Treasury white paper on PPP risk- and profitsharing models
- Progress towards USACE "Red Book" permitting handbook

BUILD AMERICA PREDEVELOPMENT PRINCIPLES

- Base Project Objectives on Regionally or Locally Established Plans and Policies
- Conduct and Utilize Comprehensive Analysis to Determine Needs and Approaches
- 3. Seek Broad Community Engagement and Support
- 4. Position Communities to Advance Equity
- 5. Foster the Potential for Multiple Funding Sources
- 6. Consider Multiple Potential Scenarios for Achieving Desired Outcomes
- 7. Coordinate with Other Infrastructure Investments
- 8. Employ Adaptable and Reliable Technologies that Look to the Future

BUILD AMERICA RESOURCES

Federal Resource Guide for Infrastructure Planning and Design:

http://portal.hud.gov/hudportal/documents/huddoc?id=BAInfraResGuideMay2015.pdf

USDOT Build America Transportation Investment Center: http://www.transportation.gov/buildamericav

USEPA Water Infrastructure and Resiliency Finance Center: http://water.epa.gov/infrastructure/waterfinancecenter.cfm

Treasury White Paper on PPP risk/profit-sharing models: http://www.treasury.gov/connect/blog/Documents/Treasury%20Infrastructure%20White%20Paper%20042215.pdf

White House Fact Sheet on Build America:

https://www.whitehouse.gov/the-press-office/2014/07/17/fact-sheet-building-21st-century-infrastructure-increasing-public-and-pr

RESILIENCE TOOLS FOR ECON DEV

HUD Exchange Community Resilience Planning Resources:

https://www.hudexchange.info/manage-a-program/community-resilience/community-resilience-planning-resources

U.S. Climate Resilience Toolkit: http://toolkit.climate.gov/tools

FEMA Community Planning and Capacity Building Tools:

https://www.fema.gov/community-planning-and-capacity-building

National Academies Reports:

http://nas-sites.org/resilience/nas-reports/
http://sites.nationalacademies.org/PGA/resilientamerica/

EDA Info on incorporating resilience into CEDS:

http://www.eda.gov/ceds/content/economic-resilience.htm

FINAL THOUGHTS ON RESILIENCE

Increasing Frequency of Climate Change Effects

- 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

Interjurisdictional 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 and Resilience

- 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
- Regional Planning grantees under HUD's Sustainable Communities Initiative were required to conduct Fair Housing and Equity Assessments (FHEAs)
 - This analysis and the FHEAs are now informing the implementation of HUD's new Affirmatively Furthering Fair Housing (AFFH) final rule
 - Importance of engaging LMI populations
 - Example: Growing Transit Communities (Puget Sound Region)

