RESILIENCE by DESIGN

Samuel Carter
The Rockefeller Foundation

Image: Rebuild by Design
Make no little plans. They have no magic to stir [people]'s blood and probably will not be realized. Make big plans. Aim high in hope and work.

Daniel Burnham,
Chicago Architect
How do we scale resilience to improve the lives of millions of poor or vulnerable people?
Rockefeller Foundation Approaches to Scale

**DEEP:**
Catalyzing innovation and integration to reframe how key actors and actions work

**BROAD:**
Distributing solutions and influencing global debate and practice
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RESILIENCE by DESIGN

100 RESILIENT CITIES CENTENNIAL CHALLENGE
Change Paradigms

Pave, pipe, pump and prevent

• Allowed urbanization of delta and coastal cities
• Unintended consequences of increased risks of devastating floods, subsidence, climate change, social isolation and inequality, ecological damage

Living with Water

• Adopt multiple lines of defense
• Increase long term safety by making room for water
• Improve quality of life with water through capture, re-use, and retention to integrate healthy water into public spaces
• Create new economic and development opportunities with safe, attractive waterways and water infrastructure
RESILIENCE by DESIGN

- Structures of Coastal Resilience
- Changing Course
- Rebuild by Design
- National Disaster Resilience Competition
Agency Partner: US ACE

Scope of Work: North Atlantic Coast Comprehensive Study

Structure:
- Core Research Unit
  SLR + Storm Modelling for future storm surge projections
- Four Design Teams
Partners: US ACE, Port of New Orleans, State of Louisiana

Scope of Work: Lower Mississippi River Delta; part of US ACE Mississippi Valley Authority; Louisiana Coastal Master Plan 2017

Structure:
- Core competition design and management by Environmental Defence Fund, with Van Alen Institute and Buro Happold
- Three Interdisciplinary Teams
Partners: HUD

Scope of Work: CDBG-DR authority, Sandy affected region.

Structure:
- Selection of 10 Interdisciplinary Teams
- 3 Month Research Stage producing 41 Design Opportunities
- 4 Month Community Engagement and Design stage, producing 10 Final Proposals
- HUD expected to award 920 M to develop six winning proposals.
National Disaster Resilience Competition

Agency Partners: HUD

Scope of Work: CDBG-DR authority, 48 States, Washington DC, Puerto Rico, and 17 additional counties and cities.

Structure:
Initiative to support eligible communities and build their permanent capacity to engage in resilience planning.
-6 Month Phase One to identify need and resilience building solutions
-4 Month Phase Two for project development