

Resilient Disaster Recovery: Building Back Better in the Public and Private Sectors

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Resilience vs. recovery

- Recovery: Long-term rebuilding and restoring built and natural environment after disaster
- Resilience: Ability for social, natural, and built environment systems to bounce back after disaster or cope with longterm change
- Where is the interface?
 - More resilient infrastructure, communities, businesses, etc. have fewer recovery needs
 - There are opportunities to improve resilience in disaster recovery
 - Disaster v. climate resilience

Brainstorm #1

• What are some opportunities to improve climate resilience during disaster recovery?

https://www.polleverywhere.com/free_text_polls/XWzhSlbNV8 R5oj2

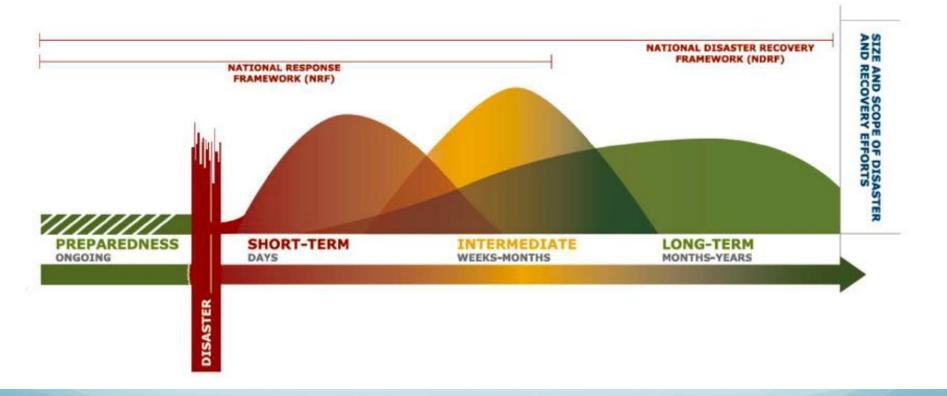
Brainstorm #2

• What are some challenges for increasing climate resilience during disaster recovery?

https://www.polleverywhere.com/free_text_polls/RWWL55xDw Ng3rmh

Disaster Recovery Concepts and SDRP Projects

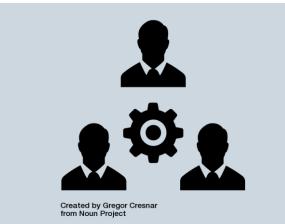
What is disaster recovery?



Disaster recovery planning

Operational





- Emergency mgmt approach
- Recovery support functions (RSFs) and the National Disaster Recovery Framework
- Who will be involved? Whose capacities should be tapped?



- Land use, design approaches
- Policies that guide redevelopment
- Should we rebuild in a different way?
- How should we spend the money?



Vision: Strengthen the ability of the Southeast's coastal economy and environment to recover from the next coastal storm.

Mission: Provide training, resources, information, and relationships that communities need to effectively bounce back.





ACTIVITIES

- 1. Support **priority projects in NC, SC, GA, and FL** that enhance the ability of coastal communities to prepare for disaster recovery
- 2. Build capacity and relationships in **the private sector** to support disaster recovery
- 3. Build regional capacity for disaster recovery planning

North Carolina

- Subawardee: North Carolina Emergency Mgmt
- Project: Lessons learned from the Hurricane Matthew disaster recovery



South Carolina

- Subawardee: South Carolina Emergency Mgmt
- **Project**: Resilient business trainings in coastal counties





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'After Matthew': Businesses share ideas about disaster preparedness		f

By Clayton Stairs cstairs@southstrandnews.com May 2, 2018 🔍 (...)

Georgia

- Subawardee: Georgia Dept. of Natural Resources, Coastal Mgmt Division
- **Project**: Disaster Recovery and Redevelopment Plans for Brunswick-Glynn County and Charlton County; Annex on Marine Debris Removal

SEPTEMBER 201





Florida

- Subawardee: Miami-Dade Emergency Management
- Project: Update /business
 engagement on existing disaster
 recovery plan;
 Business survey

Project Phases

- 1. Literature Review and Gap Analysis
- 2. Roundtable Discussions
- 3. Implementation Strategy
- 4. Engagement Sessions
- 5. Updates to Recovery Plan and Post-Disaster Redevelopment Plan



Discussion

How can you, in your work, contribute to building resilience through disaster recovery?

Partnerships for Disaster Recovery

Public private partnerships for disaster recovery



2018

For the Long Haul: Public-Private Partnerships for Long-Term Disaster Recovery – (PDF, 2MB) This white paper examines publicprivate partnerships active in long-term disaster recovery. It includes insights about disaster recovery and P3s from existing resources, as well as a case analysis of six partnerships.

Economic and Business Recovery After Coastal Disaster: Strategies for the Private Sector and Economic Development in the Southeast (in development)

www.secoora.org/sdrp/publications

Why P3s?

In 2017, disasters affected the lives 46.9 million U.S. residents, 15 percent of the population (Brock Long, FEMA Administrator).

Public sector cannot meet all recovery needs.



P3s for disaster recovery

- Includes small and large partnerships across sectors
- We find 3 general objectives:
 - Redevelopment
 - Information-sharing and learning
 - Planning and policy

Six Cases



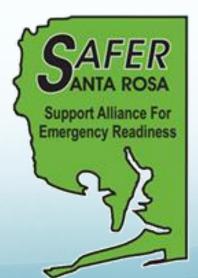


NEW JERSEY CORPORATE WETLANDS — RESTORATION PARTNERSHIP —





Stable Housing • Strong Families Better Community



HMDRRI Hurricane Matthew

Disaster Recovery and Resilience Initiative

BUILDING MORE RESILIENT HOMES

Design can enable realitience at the town sole tops individual families from the threat of feating "house introduces house design and construction analysis make your home stronger, and to goe you and writers peace of mind.





RECORATE.

And the other designs of the o

CONVERSATION GUIDES FOR SIX COMMUNITIES, REBUILDING AFTER HURRICANE MATTHEW

WINDSOR, NC

FAIR BLUFF, NC

SEVEN SPRINGS, NC

KINSTON, NC

DDINCEVILLE NO

HOMEPLACE

Partners UNC-Chapel Hill and NC State Private design firms Six municipalities in North Carolina

CONTRACTOR OF

HOMEPICA

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Homeplace

I WANT (OR WAS **APPROVED**) TO...

Relocation and elevation are two of the most common forms of FEMAand state-funded hazard-mitigation and risk-reduction techniques. The choice to relocate or elevate can be one of the most important and stressful decisions faced by homeowners in flood-prone areas. This guide will walk you through your options.



RELOCATE

In this scenario, the local government uses FEMA and state funds to purchase the home, demolish it, and turn the land into open space in perpetuity. Homeowners receive pre-disaster fair market value for their homes, and they move elsewhere.

GO TO PAGE 24

ELEVATE Before or after a disaster, homeowners can choose to have their current house elevated in place to meet the latest hazard safety standards. Safety standards and elevation options are explained in the following

GO TO PAGE 40

pages.

RELOCATE

* 11 1 GIVEN

I WANT TO

Where can I move?

and reap return. This would include fixed rule while that herein

What can I afford?

What will my house look like?

84, M2000, 2012 S

I WANT TO **ELEVATE**

What can I afford?

What are my elevation options?



What will my house look like?

23 _ HOMEPLACE _ COMMUNITY CONVERSATION GUIDE

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04_RESOURCES 05_GLOSSARY

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Discussion

How can you, in your work, partner with other organizations or sectors or engage existing partnerships toward the goal of disaster recovery? Wrap Up

Engage with SDRP

- Join our listserv
- Participate on our listserv and calls
- Share our partnership with your colleagues
- Attend our annual meeting
 - Tentative place and date
- Share your work or facilitate a conversation at our annual meeting

SDRP is *considering* a regional project that would examine opportunities and challenges for disaster recovery and redevelopment planning. If your jurisdiction might be interested in exploring one, please let Amanda know!



• What are three concrete next steps you can take to advancing resilience in disaster recovery?

Share with us

• Please share one of your steps (anonymous poll)

https://www.polleverywhere.com/free_text_polls/Y3ziMBK 58G89C34

Thank you

Special Thanks To	Please reach out!
Mary Conley, TNC Lindy Betzhold, NOAA Christian Kamrath, NC DCM Margaret Keller, UNC	Amanda Martin amanda.martin@unc.edu www.secoora.org/sdrp Twitter: @sdrp_resilient
Funding for this project is provid	ed by the National Oceanic and

Atmospheric Administration (NOAA Award No. NA16NOS4730007) through the Coastal States Stewardship Foundation to the Southeast Coastal Ocean Observing Regional Association (SECOORA).



National Disaster Recovery Framework

Strengthening Disaster Recovery for the Nation

Acronyms: NDRF and RSF

Recovery Su	pport Function	Federal Coordinating Agency
	Community Planning and Capacity Building	Department of Homeland Security/Federal Emergency Management Agency
	Economic	Department of Commerce/Economic Development Administration
3	Health and Social Services	Department of Health and Human Services
谷	Housing	Department of Housing and Urban Development
*	Infrastructure Systems	Department of Defense/Army Corps of Engineers
	Natural and Cultural Resources	Department of the Interior

Source: GAO analysis of Federal Emergency Management Agency (FEMA) information. | GAO-16-476