

Before we begin...

- Welcome! Please take a moment to introduce yourself in the chat function.
- This workshop will be recorded.
- Your microphones are muted to start. This helps us to limit background noise.
- If you have any technical questions, please chat Alisa Goren or email her at alisa@brsinc.com.



EPA BUILDING BLOCKS FOR REGIONAL
RESILIENCE

WELCOME

Workshop #3

Workshop Agenda

TOPICS FOR TODAY
September 30, 2020
1PM – 3PM

- Welcome
- Recap of 2nd Workshop
- Small Group Activity: Strategy Development - Abby Hall, EPA
- Report Out from Small Groups
- Break & Video
- Funding:
 - Making the Business Case for Resiliency & Creating a Capital Strategy, Steve Nelson, BRS/Eastwick
 - UNC-EFC Resilience Resources - Stephen Lapp, UNC Environmental Finance Center
- Funding Discussion – Mary Roderick, LOSRC
- Wrap-up and Next Steps – Mary Roderick, LOSRC and Abby Hall, EPA

Regional Resilience Toolkit

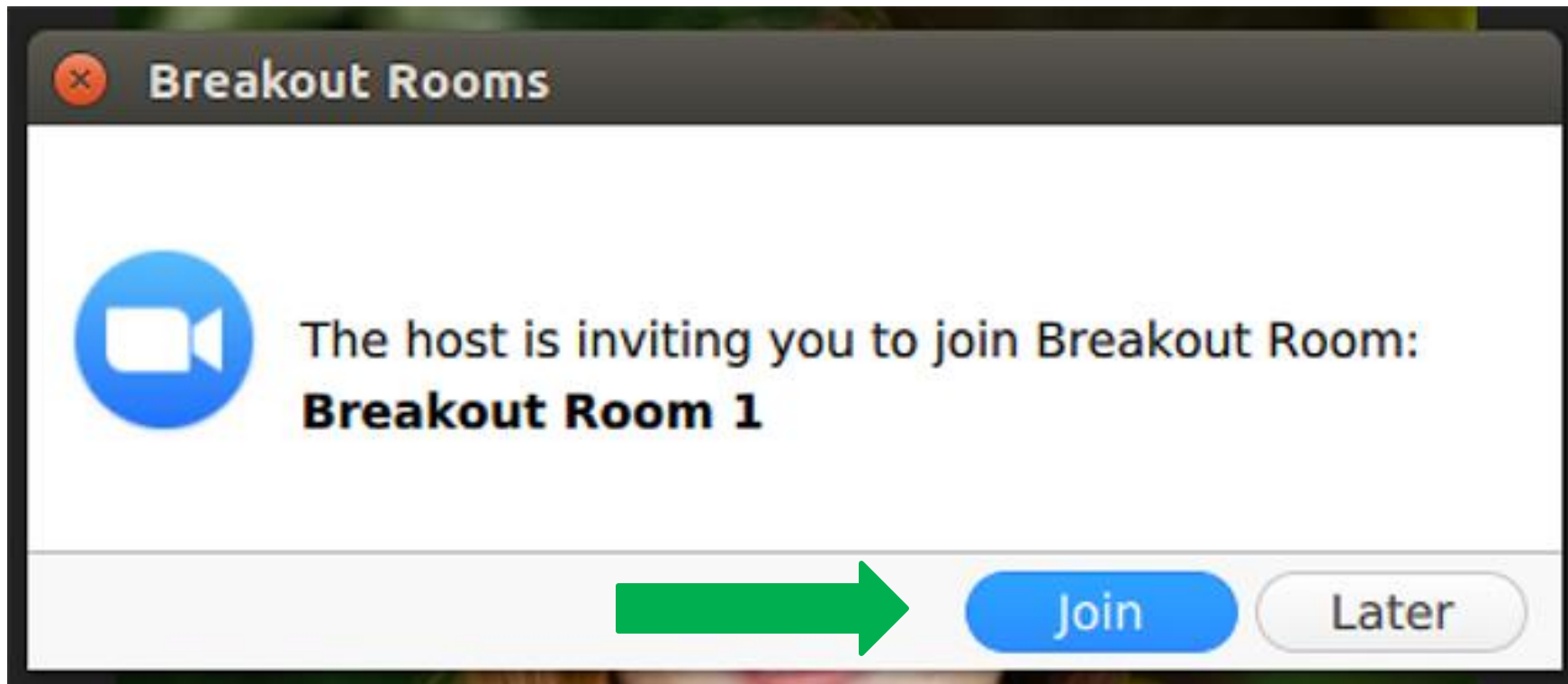
3.5 Strategy Development and Implementation

STRATEGY DEVELOPMENT INFORMATION							
Problem statement							
Strategy name							
Strategy summary							
Hazard(s) addressed							
Strategy type	Operational	Programmatic	Plans, Regulations, and Policy Development	Capital Improvement/ Infrastructure Project	Education/ Outreach/ Coordination	Evaluation	
Process/ implementation mechanism	Long Range Planning	Land Use Planning	Capital Planning	Operations	Emergency and Hazards Planning	Project Planning and Design	New Initiatives
Responsible agency							
Partners							

Breakout Rooms

Group 1	Group 2	Group 3	Group 4	Group 5
Hot Springs Post Office	North Fork WTP and Reservoir	Transylvania Regional Hospital	Fletcher EMS Station	Canton Paper Mill

Breakout Rooms



Report Out

Group 1	Group 2	Group 3	Group 4	Group 5
Hot Springs Post Office	North Fork WTP and Reservoir	Transylvania Regional Hospital	Fletcher EMS Station	Canton Paper Mill



EPA Building Blocks for Regional Resilience

Funding Resilience: How-To Guide

Presented by BRS Inc./Eastwick Solutions

Funding:

- How to... Characterize Resilience Work Broadly
- How to... Increase Fiscal & Financial Literacy Among Public Agency Staff
- How to... Sell Resilience Projects

HOW TO...

Characterize Resilience Work More Broadly

Mainstream Resiliency

STRATEGIES FOR FUNDING COORDINATION

- Mainstream into:
 - Overall community development
 - Community planning
 - Community visioning
 - CIPs
- Integrate HMPs into other plans
- Find co-benefits



Interdepartmental Coordination

STRATEGIES FOR FUNDING COORDINATION

- Coordinate on spending for capital projects.
- Pool funding for large-scale green infrastructure projects.
- Unexpected co-benefits can arise:
 - Workforce development/economic development opportunities
 - Green infrastructure & recreation
 - Transportation improvements and green infrastructure
 - New sources for matching funds



A photograph of three women sitting in a meeting. The woman on the left is wearing glasses and a maroon top. The woman in the center is wearing a pink top and is gesturing with her hand while speaking. The woman on the right is wearing a blue hijab and holding a tablet. In the background, there is a whiteboard with colorful sticky notes.

HOW TO...

Increase Financial & Fiscal Literacy

Who's the Audience?

- Public Agencies
- Non-Profits
- Private Investors
- Public

Framing, data, persuasion



Who's Doing the Financing?

- Public Agencies
- Non-Profits
- Private Investors

Welcome to their world

- Fiscal Year?
- Grant deadline?
- ROI
- P3
- AAA or Aa1?
- BCA
- Flood Reduction Credits?

Training = Capacity Building

Be conversant with current finance and funding options that are evolving at a rapid pace.

- Senior staff and elected leaders must develop financial literacy to talk to private financiers and public agencies.
- Search for pro bono training support through social investment firms.
- Support local expertise.



HOW TO...

Sell Resilience Projects

Develop a Funding Network



- Build partnerships and relationships
- Connect
 - Tours
 - Conferences
 - Phone calls
 - Public presentations
- Invite agencies to quarterly resiliency planning meetings

Develop a Funding Network (cont'd)



- What are the priorities?
 - Find out - Attend meetings, look at websites & 990s
- Keep Up with Funding Opportunities
 - ID potential sources and track
- Include resilience policies and actions as eligible funding activities in plans
- Participate in public dialogue on bond and tax disbursements

Build Local Support

.....through consistent outreach and frequent public dialogue

- Cultivate Internal Allies
- Enlist support of community stakeholders and active local groups
- Establish a Resilience Action Agenda
- Ensure that resilience is a front burner community topic
- Conduct a participatory budget process



Make Local Investments

Integrate Resilience Budgeting

Part of regular
budgeting and
decision-making
discussions.

Examine All Funding

Internal budget
sources

Re-purpose existing
funds?

Innovative Funding

Local resources
demonstrate
community commitment
and willingness to
adopt innovative ways
to address risks and to
fund community safety.

Applying Financial Literacy

Be Intentional

- Approach
- Engagement
- Project Development
- Communications
- Resources

Craft Capital Strategy

- ❑ Diverse
- ❑ Layered = “stacked”
- ❑ Sequencing
- ❑ Start with local sources
- ❑ Leverage
- ❑ Build Public Support

Create Conduit for donations

- ❖ CDFI
- ❖ Community Foundation
- ❖ Other 501 (c) 3

Attract Private Investment

- ✓ Impact investors
- ✓ Private/public partnerships
- ✓ Corporate grants
- ✓ Philanthropic grants

UNC-EFC: Resources To Finance Resiliency

Land of Sky Region Regional Resilience Workshop

9/30/2020

Stephen Lapp, *Project Manager*



SCHOOL OF GOVERNMENT
Environmental Finance Center

www.efc.sog.unc.edu



SCHOOL OF GOVERNMENT

Environmental Finance Center



Dedicated to enhancing the ability of governments and other organizations to provide environmental programs and services in fair, effective, and financially sustainable ways through:

- Applied Research
- Teaching and Outreach
- Program Design and Evaluation



How you pay for it matters

FUNDING GUIDES

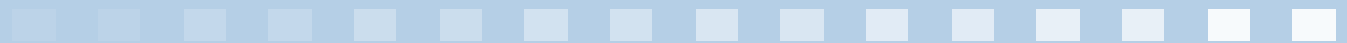


Resiliency & Disaster Recovery Funding Tables

- [2019 Disaster Recovery Funding Table](#)
- [2019 Resiliency Funding Table](#)

Organization	Program	Gov. Entity	Non-Profit	For-Profit	Purpose or Use of Funds	How to Apply	Website	Contact
U.S. Environmental Protection Agency (EPA)	EPA Urban Waters Small Grants	✓	✓		Provides grants to States, local governments, Indian Tribes, public and private universities/colleges, public or private nonprofit organizations, intertribal consortia, and interstate agencies. Grants aim to fund programs that focus on local water quality issues related to urban runoff pollution; providing additional community benefits; actively engaging underserved communities; and fostering partnership.	The grants are competed and awarded every two years, with individual award amounts of up to \$60,000. Currently there is no open Request for Proposals. Please check the website for information on award dates and other opportunities and resources.	http://www2.epa.gov/urbanwaters/urbanwaters-small-grants	Contact Form: https://www.epa.gov/urbanwaters/forms/contact-us
	EPA Environmental Justice Small Grants Program		✓		The Environmental Justice Small Grants (EJSG) program awards grants that support community-driven projects designed to engage, educate, and empower communities to better understand local environmental and public health issues and develop strategies for addressing those issues, building consensus in the community, and setting community priorities. Eligible applicants include incorporated non-profit organizations and tribal governments/organizations.	The EJSG program will fund projects up to \$30,000, depending on the availability of funds each year. These grants are for one-year projects. Currently there is no open Request for Proposals. Please check the website for information on award dates and other opportunities and resources.	https://www.epa.gov/environmentaljustice/environmental-justice-small-grants-program	Regional Contact: US EPA, Region 4 Tami Thomas-Burton 404-562-8027 thomas-burton.tami@epa.gov
	EPA Office of Sustainable Communities Greening America's Communities Program	✓			Help cities and towns develop an implementable vision of environmentally friendly neighborhoods that incorporate innovative green infrastructure and other sustainable design strategies. EPA provides design assistance to help support sustainable communities that protect the environment, economy, and public health and to inspire local and state leaders to expand this work elsewhere. These plans are often the testing ground for citywide actions, such as changes to local codes and ordinances to better support environmentally sustainable growth and green infrastructure.	Information on how to apply was not found. Please reach out to point of contact for further assistance.	https://www.epa.gov/smartgrowth/greening-america-communities	Clark Wilson 202-566-2880 wilson.clark@epa.gov

FEDERAL RESOURCES



EPA Resources

- **Greening America's Communities**
 - Provide design assistance and support to help cities and towns develop an implementable vision of environmentally friendly neighborhoods that incorporate innovative green infrastructure and other sustainable design strategies
- **Community-Based Public-Private Partnerships (CBP3)**
 - Invests in GI projects geared at managing stormwater and other infrastructure needs through agreements with private parties



FEMA



- ***Building Resilient Infrastructure and Communities (BRIC)***

- *Replacing the Pre-Disaster Mitigation (PDM) Program*
- *Support community capability and capacity building*
- *Encourage and enable innovation*
- *Promote partnerships*
- *Enable large projects*
- *Maintain flexibility*
- *Provide consistency*

- **Hazard Mitigation Grant Program (HMGP)**

- Can be used throughout the state for non-damaged facilities for the purpose of hazard mitigation
- Mitigation work must be deemed cost-effective through BCA

- **Public Assistance Grant Program (PAGP)**

- Recovery based, can only be used on the damaged element of a facility that is being repaired to prevent future damage
- <https://www.epa.gov/fedfunds/hazard-mitigation-assistance-programs-available-water-and-wastewater-utilities>

Community Development Block Grant



Building Better Neighborhoods

- [CDBG-Mitigation Program](#)
 - Grant Program
 - Strategic and high-impact projects in areas affected by recent disasters that will mitigate disaster risks and reduce future losses
- [CDBG-I](#)
 - Who?
 - LGUs, water/sewer districts, other single purpose gov. units
 - What?
 - Water/sewer infrastructure projects in areas that meet HUD LMI threshold
 - Max funding is \$2 Million over 3-year period
 - Types of funds?
 - Grants



STATE RESOURCES



CWSRF

- Clean Water State Revolving Fund: NC DEQ, Division of Water Infrastructure
 - Who?
 - Local Government Units
 - For What?
 - Wastewater Treatment
 - Wastewater Collection
 - Reclaimed Water
 - *Funds projects up to \$30 million
 - Type of Funds
 - Low-interest loans (1/2 Market Rate)
 - Some Principal Forgiveness available
 - **0% interest loans available for [“Green Projects”](#) and for rehab projects for some LGUs



Golden Leaf



Golden **LEAF**
FOUNDATION

- [Disaster Recovery Funds](#)
 - Who is eligible?
 - Governmental entities or 501(c)(3) Nonprofits affected by Hurricanes Matthew, Florence, Michael, and Dorian
 - For what types of projects?
 - To repair or replace infrastructure and equipment damaged or destroyed by the storms
 - Hazard Mitigation
 - “Grants may be awarded to construct new infrastructure for hazard mitigation. **Projects to improve damaged or destroyed infrastructure to make it more resilient to future storms** are also eligible and receive higher priority.”



EMERGING AND INNOVATIVE RESILIENCY FINANCING TOOL



Environmental Impact Bonds (EIB)

- **Type of Finance:**
 - Municipal bond that is focused on the achievement of successful environmental outcomes
 - Private investors purchase the bond issued by the municipality
 - “Pay for success” and performance based
- **Scalability:**
 - Need measurable performance metrics
 - Financial capacity to pay bond and attract investors
- **Past Implementation**
 - DC Water
 - Fund 20 acres of GI to manage stormwater
 - Atlanta’s Department of Watershed Management
 - Fund GI to manage stormwater in economically distressed areas

Resilience Bonds

- A form of Catastrophe Bonds
 - Link insurance premiums with resilience projects through an avoided cost rebate structure
- European Bank for Reconstruction and Development
 - First climate resilience bond in 2019, raising \$700 million
 - Proceeds to finance investments in climate resilience projects
- Blue Forest Conservation- Forest Resiliency Bond
 - Pilot program that would pay for forest restoration projects



Insurance Rebates

- Insurance company provides rebates or reduced premiums if you take certain mitigation measures
- NCIUA Mitigation Credits
 - Credits available for certain mitigation activities
 - You can receive up to a 17% discount on premiums

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Discussion

WHERE'S THE MONEY?

Let's Talk.....



Timeline



NEMAC + FernLeaf



2017-2018 Phase 1

Economic Resilience

Exposure Analysis

12 Asset Class/Threat Pairs

2020 Phase 3

Residential & Flooding, Wildfire, Landslide

Vulnerability & Risk Assessment

Next Steps

Advisory Board,
Engagement & Outreach Plan

2019 Phase 2

Commercial & Flooding **Vulnerability**

& Risk Assessment

+ AccelAdapt

2020 BB2R Workshop

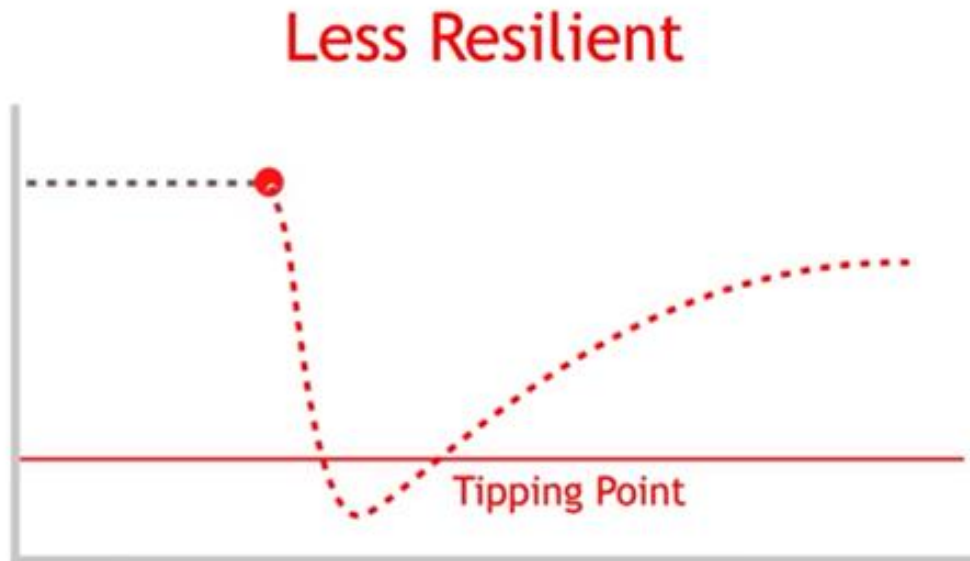
Essential Services/Facilities, Critical Infrastructure

Rapid Risk Assessment, Implementation Plans

Key Concept



“Resilience is about **building the capacity of the community**, at various scales, ...” - RRT





Planning & Implementation

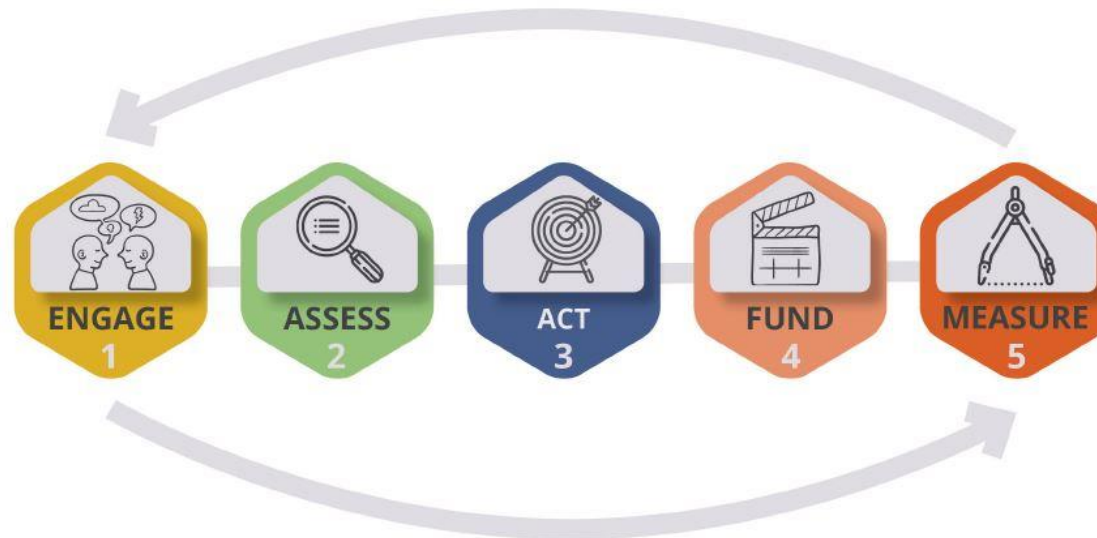
- HMP & AccelAdapt info for Comp Plan updates
- 160-D updates
- MS4 permit requirements
- BRIC project?



Advisory Board



- **Support** broad stakeholder & community **engagement**
- **Identify** planning, policy and regulatory **opportunities**
- **Identify** funding **resources**
- **Prioritize** additional V/R **assessments**
- **Share** adaptation and capacity building **strategies**





Poll: Would you be interested in serving on the Regional Resilience Advisory Board?



REGIONAL RESILIENCE TOOLKIT

5 STEPS TO BUILD
LARGE SCALE
RESILIENCE TO
NATURAL DISASTERS

Next Steps Memo

