

The RAFT

Resilience Adaptation Feasibility Tool



RESILIENCE ACTION WORKSHOP FOR THE MIDDLE PENINSULA



WELCOME & WORKSHOP GOALS

Welcome!

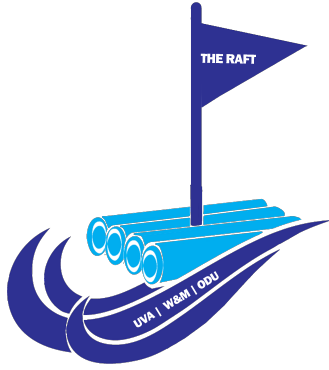
Goals for today's workshop:

- To refresh participants on The RAFT process
- To briefly share Scorecard results and opportunities to increase local resilience
- You will develop One-Year Resilience Action Checklists
- You will begin to identify people who can be helpful for implementation

AGENDA

- 9:00 am Welcome, Introductions, and Workshop Goals
- 9:10 am RAFT Overview and Flash Presentations on Resilience Opportunities
- 9:40 am Developing the Resilience Action Checklists
- 9:50 am Developing Your Community One-Year Resilience Action Checklist
- 11:20 am Share Locality Priority Actions
- 11:45 am Preview Implementation Phase and Teams
- 11:55 am Next Steps and Evaluation
- 12:00 pm Adjourn

THE RAFT: OVERVIEW

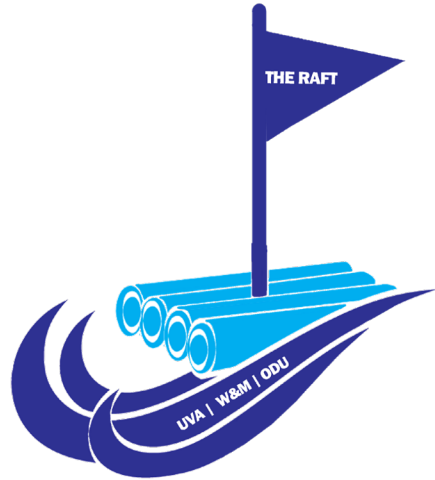


***To help Virginia's coastal localities
improve resilience to flooding
and other coastal storm hazards
while remaining
economically and socially viable.***



Cape Charles, June 2017

THE RAFT TEAM



Multi-disciplinary academic partnership

Core Team:

Old Dominion University

Virginia Sea Grant Climate Adaptation and Resilience Program

William & Mary Law School

Virginia Coastal Policy Center

University of Virginia

Institute for Engagement & Negotiation

THE RAFT PROCESS

3 Step Process

1. Scorecard

Resilience Assessment
Focus Groups & Interviews

2. Resilience Action Workshop

Resilience Action Checklists
Locality Implementation Teams

3. Implementation

Ongoing Assistance

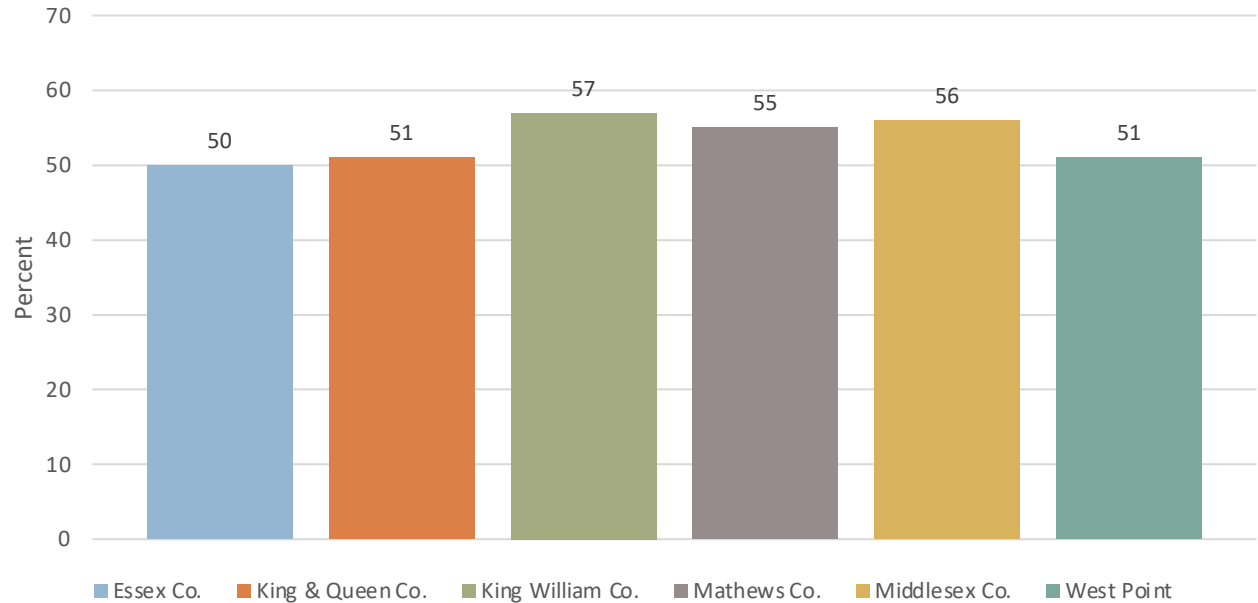


THE RAFT SCORECARD

1. **POLICY, LEADERSHIP, AND COLLABORATION:** policies, coordination, and access to data
2. **RISK ASSESSMENT AND EMERGENCY MANAGEMENT:** risk assessments, vulnerable populations, and plans for disaster preparedness, economic and business preparedness
3. **INFRASTRUCTURE RESILIENCE:** stormwater, critical infrastructure, and natural and nature-based features
4. **PLANNING FOR RESILIENCE:** comprehensive plan, zoning ordinance, building and development incentives, and green infrastructure
5. **COMMUNITY ENGAGEMENT, HEALTH, AND WELL BEING:** residents, social equity, health and wellness

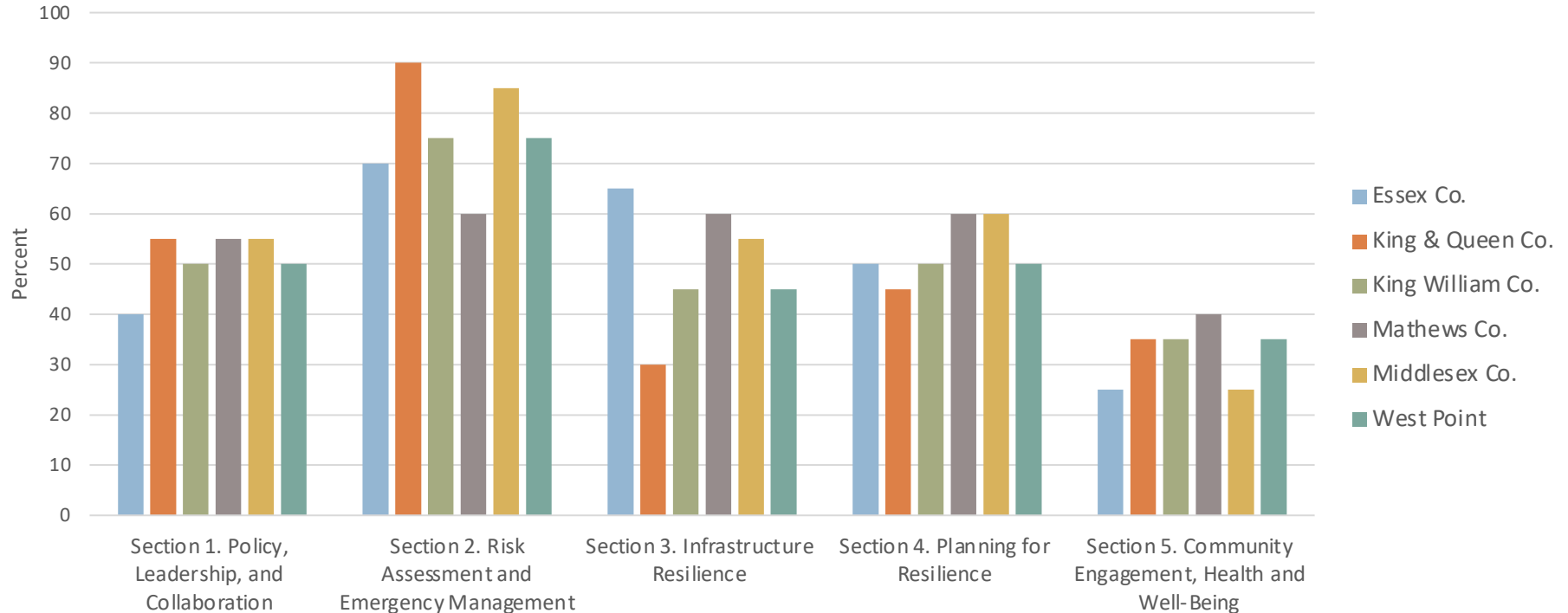
CROSS LOCALITY COMPARISONS

Total RAFT Score Comparison



In-depth comparisons are available in your Locality's Google Drive Folder

CROSS LOCALITY COMPARISONS BY RAFT SCORECARD SECTION



KEY OPPORTUNITIES FOR IMPROVING COMMUNITY RESILIENCE

Locality Leadership, Policy, and Collaboration:

- Use adaptive management to **update ordinances and plans** based on data, scientific analyses, emerging strategies, lessons learned
- Hold **resiliency training** for elected officials and community leaders with resiliency experts as guest speakers
- **Engage stakeholders** who will need emergency response and vulnerable populations in resiliency meetings
- Research and consider **participation in CRS Program.**

KEY OPPORTUNITIES FOR IMPROVING COMMUNITY RESILIENCE

Risk Assessment and Emergency Management

- Work with community groups to **identify vulnerable groups** who live or work in flood zones
- Update **resident emergency plan** to identify risks and needs
- Task staff with **engaging community leaders** and community organizations about emergency preparedness
- Provide programs for **small business emergency preparation** and business continuity post event

KEY OPPORTUNITIES FOR IMPROVING COMMUNITY RESILIENCE

Infrastructure Resilience

- Increase water supply and/or stormwater **infrastructure resilience**
- Enhance communication and coordination for **water and wastewater stormwater resilience**
- Provide **incentives for private property activities** that manage stormwater such as tax deductions or flag program
- Work with VDOT to identify and **evaluate vulnerable transportation infrastructure**

KEY OPPORTUNITIES FOR IMPROVING COMMUNITY RESILIENCE

Planning for Resilience

- Ensure **comprehensive plan** includes potential impacts on critical infrastructure and services, especially regarding vulnerable populations
- Modify **flood zones designations** to include areas outside FEMA designations that are still known to flood regularly
- Establish **setbacks in flood-prone areas**.
- Hold **community meetings to educate** the public about the natural resource preservation plan

KEY OPPORTUNITIES FOR IMPROVING COMMUNITY RESILIENCE

Community Engagement, Health, and Well-Being

- **Engage the public** in resilience planning
- Develop **resident leaders and volunteers** and acknowledge their work in supporting and advancing resilience
- Create a **coastal resilience committee** and assign staff roles
- **Partner with NGOs and community groups** to identify needs of and communicate with vulnerable populations.

SPECIFIC OPPORTUNITIES TO SUPPORT HISTORICALLY EXCLUDED & UNDERSERVED COMMUNITIES

- Focus groups, interviews, and surveys with community representatives to learn current strengths and strategies of resilience
- Engaged 65 individuals from 60 organizations serving Middle Peninsula

Key Opportunities Identified:

- Broadband access and computer literacy
- Transportation
- Affordable housing and shelters
- Youth services and child care
- Access to medical care and mental health services
- Workforce development
- Relationships with local Tribes



SPECIFIC OPPORTUNITIES TO SUPPORT HISTORICALLY EXCLUDED & UNDERSERVED COMMUNITIES

Specific Examples:

- Create shared database to identify vulnerable populations and understand needs.
- Identify additional funding to expand Bay Transit services.
- Improve youth services and childcare in counties where there are no YMCAs.
- More translation services for ESL students and families who do not speak English.
- Improve access to the internet and GED/Community College resources in temporary housing and addiction treatment facilities.
- Improve dissemination of information on services and grants available to residents through DSS and/or Resource Councils.
- Education about the local history and resilience of Black residents, women, working class fishermen, and others left out of traditional narratives.



SPECIFIC OPPORTUNITIES TO SUPPORT HISTORICALLY EXCLUDED & UNDERSERVED COMMUNITIES

Specific Examples:

- Collaborate across localities to provide more affordable housing and long-term shelters, beyond emergency sheltering.
- Improve access to the waterfront and affordable housing for watermen.
- Provide more support for those who cannot afford living shorelines.
- Improve handicap access to community gardens and Master Naturalist programs.
- Start a farmers' market with the Upper Mattaponi to provide food to King William County.
- Create frameworks for transparent, cross-locality and Tribal collaboration that that acknowledge limited capacities and focus on shared priorities.
- Increase diverse representation in government, Boards, Councils, NGOs.




SPECIFIC OPPORTUNITIES THROUGH THE MIDDLE PENINSULA PDC'S FIGHT THE FLOOD PROGRAM

Curt Smith, Middle Peninsula Planning District Commission



“Fight the Flood”
fightthefloodva.com

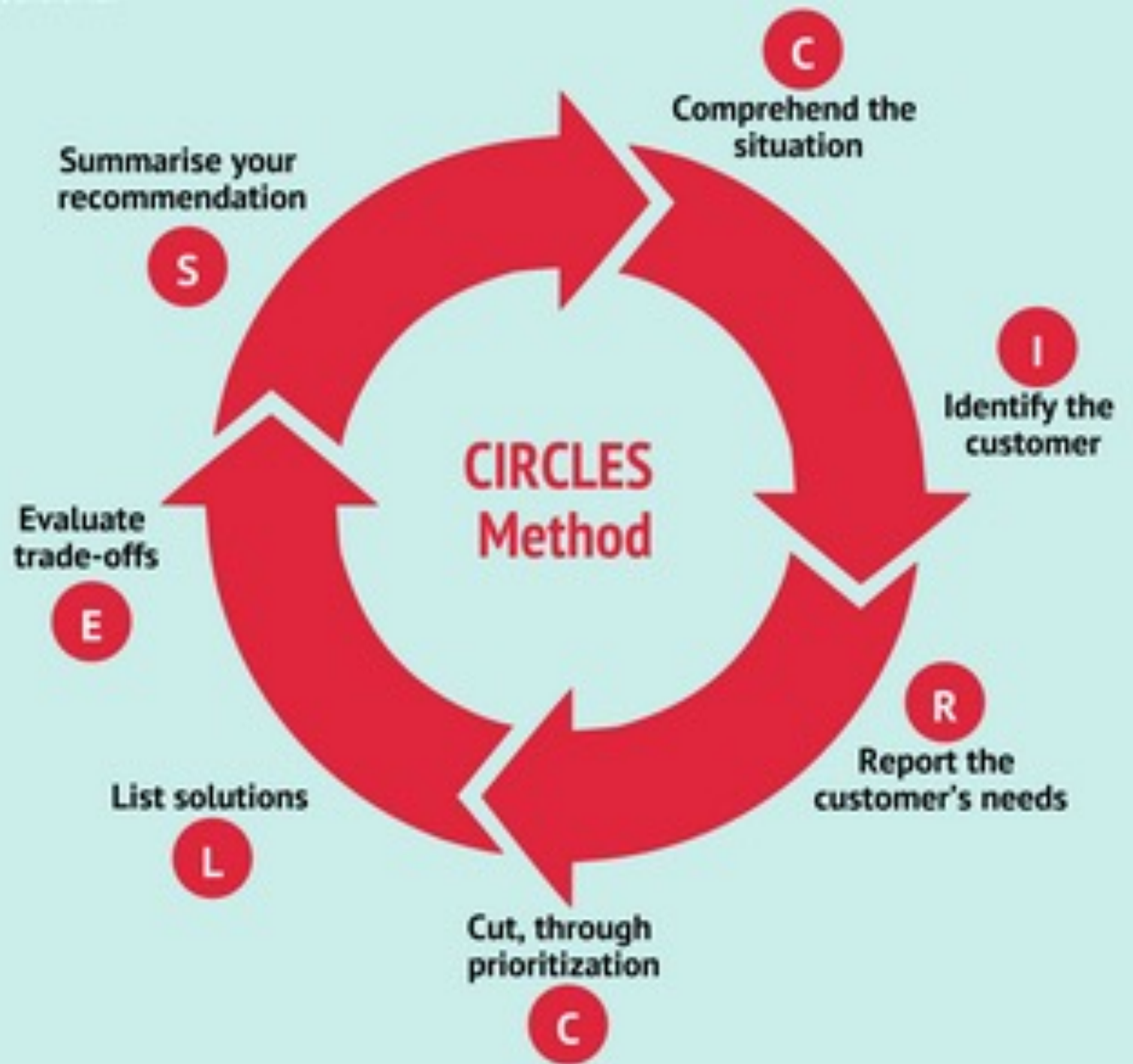




What is it?
Who can participate?
How does it work?

Less Talk More Action

"Don't let your people drown on your watch"



I have a flooding problem.

Property Owners

I can help property owners.

Contractors or Consultants

Grants and Loans



Fight THE Flood

MARKETPLACE

Companies

Education

Grants

Loans

Consultation

Insurance

Connection

Discounted Professional Services

Consumers

*Participating companies are pre-vetted and/or evaluated.

MPPDC “Fight the Flood” program is a Business to Consumer online-market place

What

➤ **Goal : Middle Peninsula Fight the Flood Program**

- To generate and facilitate resiliency business growth targeting and attracting companies to provide flood mitigation products and services for shorelines and buildings as well as enhance water quality.

How

➤ **Objectives: Fight the Flood Program**

➤ **Provide financial products to influence consumer behavior**

- Offer a suite of financial products (loans, grants, insurance) with a correlation to lower interest rates and grants for shorelines under greater risk; higher rates and less grant funding for lower risk shorelines

➤ **Provide consumer to professional services connections through Fight the Flood Program**

- Registered consumers with a flood mitigation issue will have direct access to a pool of established resiliency professionals.
- Asking Resiliency professional to provide discounted professional services to registered Fight the Flood consumers in need

➤ **Utilize reach-based Shoreline Implementation “Battle Plans”**

- Solicit multiple property owner collaboration for multi parcel- larger scale shoreline protection projects to seek federal and state grant funds
- Leverage § 58.1-3228.1. Partial exemption from real property taxes for flood mitigation efforts

[OWNERS](#)

[CONTRACTORS](#)

[GRANTS/LOANS](#)



[ABOUT](#)

[FYI](#)

[REGISTER](#)

[MEMBERS](#)

I have a flooding problem.

Property Owners

I can help property owners.

Contractors or Consultants

Grants and Loans



Property Owners

Sure, many homes and families on the Middle Peninsula have never experienced the devastation that comes with flooding. But the times are changing.

While all the water in our rural coastal Virginia region is a tremendous source of pride, economic value and enhances our quality of life (you don't have to walk or drive far in any direction to hit the shoreline), the sea level is rising. The storms keep coming. And it's vital for homeowners to protect their property.

Put simply, for most residents on the Middle Peninsula, whether you can see water outside your back door or not, you could be at risk of flooding.

Fight the Flood on the Middle Peninsula connects property owners facing rising flood waters with tools and funding to contract with specialized businesses who can help evaluate, design, and build solutions to FIGHT THE FLOOD.

Read on for more, and then register to gain access to the tools available in this program.

Understanding Flood Insurance

Why do you need flood insurance?

Understanding Risk

Anywhere it can rain, it can flood. Period.

High-risk areas, including many parts of the Middle Peninsula, have an increased chance of experiencing a flood over the life of a 30-year mortgage. Over the past 70 years, heavy rainfall events have become more intense and frequent in our area and will only continue to increase. Based on previous records, it is also likely that water levels will be higher than the average daily high tide when a rainfall event occurs.

But it's not just rain we have to worry about. Another concern is storm surge.

And then there's the nuisance or "sunny day" flooding that can be caused by high tide and the direction the wind is blowing.

Understanding Options

In the average one-story house with 2,500-square-feet, one inch of water inside the home could mean \$23,000 house costs and more than \$3,000 personal-property costs.

So how do you protect yourself?

There's lots of options, and they all start with an evaluation of your flood insurance.

Did you know flood insurance pays whether or not federal disaster assistance is available? And federal disaster assistance is only available after a Presidential Disaster Declaration. What's more, even if a Presidential Disaster Declaration has been made, the money offered through disaster assistance is typically a low-interest loan that needs to be paid back, and if you do qualify for a grant, it will most likely provide much less than you would need.

Understanding Financial Tools

All of that sounds good, but it sounds expensive? That may be what you are thinking if you've read this far.

It doesn't have to be. Thanks to regional, state and federal programs, grants, loans and special discounts and funding are available through the Middle Peninsula Planning District Commission thanks to this Fight the Flood program. Want to learn more? Get access. It's free.

Get Access and Register Now! **REGISTRATION**

FYI Feed

Contractors or Consultants

If you've arrived here, on this page, chances are you are a contractor or consultant who works with property owners in areas prone to flooding.

Perhaps you build things. Perhaps you protect things. Perhaps you insure things.

If you help people build more resilient properties and plans to help them Fight the Flood, **then we want you.**

How Fight the Flood Works

In many ways, Fight the Flood is something like an online dating site. We connect property owners to the right contractors and consultants to help them with their flooding challenges and then help provide financial tools to pay for it (thanks to grants and loans our team is able to secure).

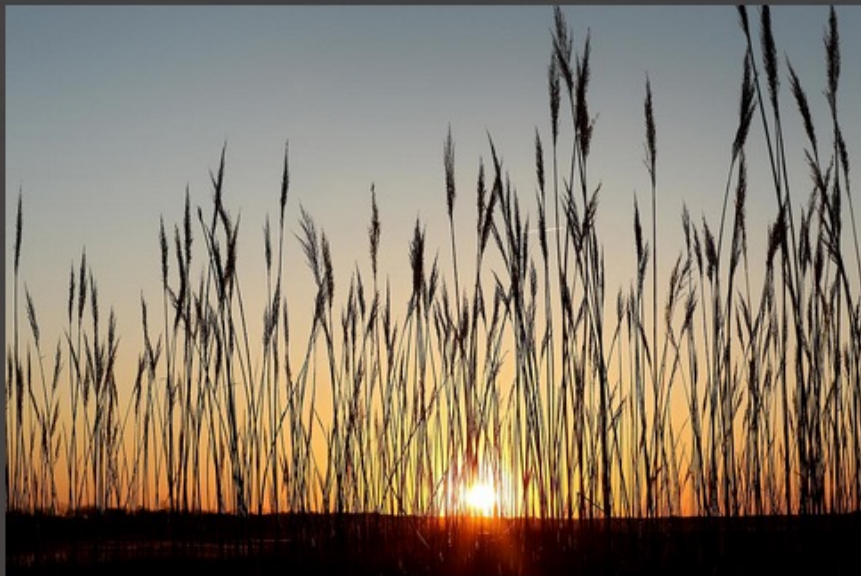
But just like any dating app, there can be a cost to get connected. For the businesses Fight the Flood connects to property owners, the cost is a discount or special that only registered members of the Fight the Flood program can redeem.

Property Owners

Register here if you are interested in becoming a member of the Fight the Flood program and gaining access to financial tools and discounts to properly protect your property from flood waters.

By filling out this registration form to get access to the Fight the Flood membership portal, you give the Fight the Flood program administrators permission to use your information for data collection, trending analysis, demographic studies on waterfront properties and other research that will be used to help the entire region fight the flood.

Owner Registration



Businesses

Please fill out this form if you are a business interested in providing your services to property owners to help them Fight the Flood.

Business Name (required)

Business Website Address

Business Point of Contact

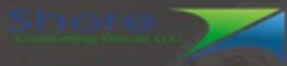
Email Address (required)

Phone Number (required)

☐ I'm not a robot



SEND



Shore Consulting Group LLC

Click our company name to learn more.

📍 633 Ravenwoods Drive
Chesapeake, Virginia 23322, US



mark.mansfield@shoreconsultinggroup.com



<http://www.shoreconsultinggroup.com/>

An open, honest and transparent assessment of
your water resources challenges. Silver Jackets Pro...



Riverworks, Inc

Click our company name to learn more.

📍 5140 Old Rosewell Plantation Road
Gloucester, Virginia 23061, US



757-968-3467



jordan.d.clifford@gmail.com

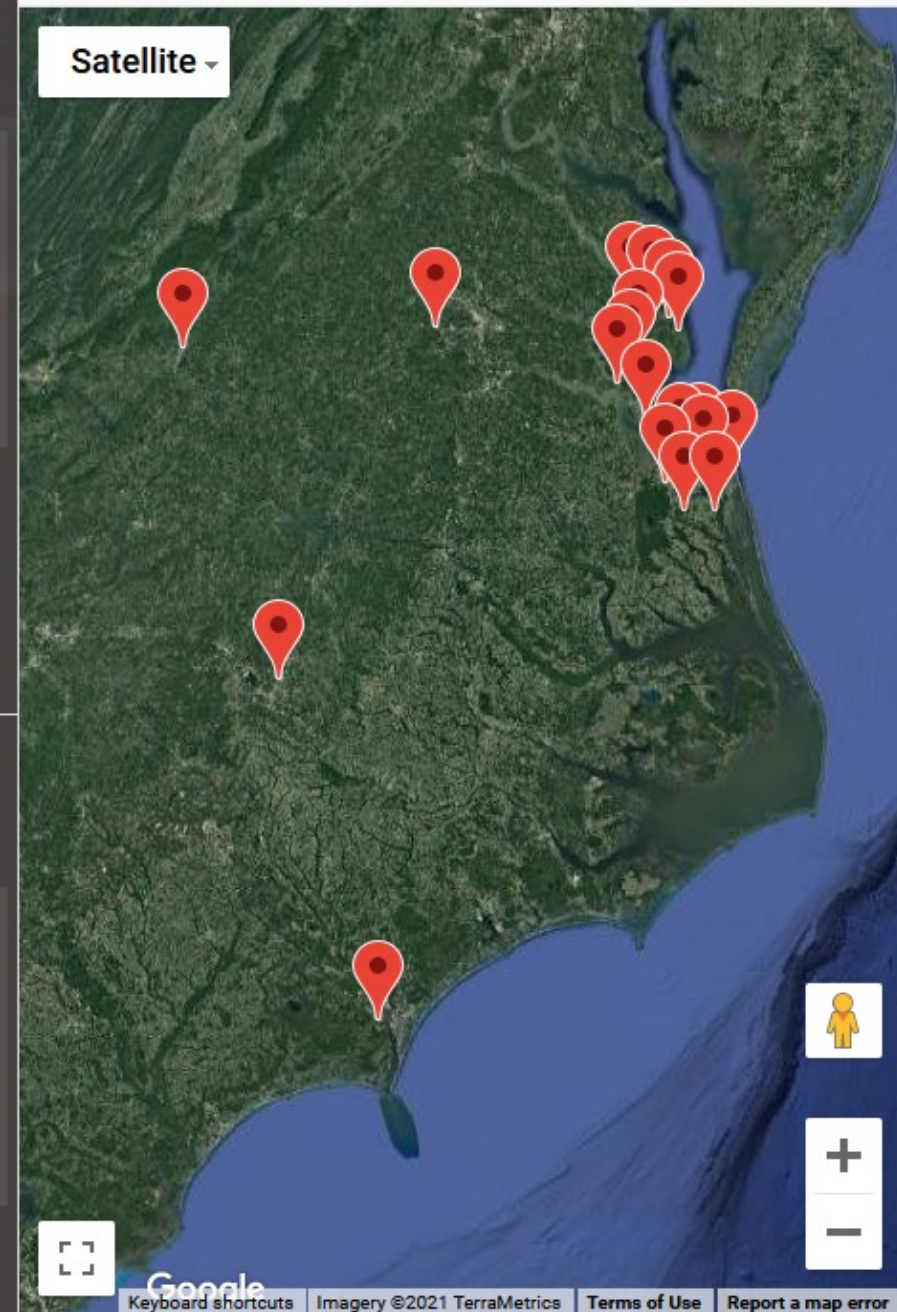


<http://riverworksincorporated.com/>

Class B Marine Contractor, Responsible Land
Disturber Riverworks, Inc. offers erosion control

☐ Redo search when map moved

Satellite ▾



Grants and Loans

Middle Peninsula Planning District Commission Revolving Loan Program Funding

- Septic Repair Program to assist flooded septic systems: capitalized with ~\$700,000 loan funds.
- Living Shorelines: capitalized with \$250,000-\$500,000. Can include nature-based shoreline BMP construction and coastal stormwater BMP construction.
- Energy Efficiency Revolving Loan Program: ~\$45,000

Middle Peninsula Planning District Commission Grants

Grants will be leveraged and utilized to provide protection for hazard and flood prone areas with an enhanced focus on socioeconomically vulnerable property owners in the region. Grants can be awarded for nature-based shoreline BMP construction, coastal stormwater BMP construction, and residential infrastructure resiliency improvements including structures, septic systems, utilities, etc.

\$75,000 (grant) loan forgiveness available.

VCAP Grants offered by SWCD.

Financial Assistance Request

FIGHT THE FLOOD

MIDDLE PENINSULA

Financial Assistance Request

Would You Like To Apply for a Grant and/or Loan To Address Your Flooding Problem?

Complete the form to get on a list so that FTF staff can evaluate your needs and respond when grant funds become available.

Information submitted with this form is for internal use only and not used for credit check purposes or have any impact on your credit score.

You will be directed to a thank you page after



First Name *

Last Name *

Select what best describes you: *

☐ I own this property

☐ I rent this property

☐ I am a Buyer's Real Estate Agent

☐ I am a Seller's Real Estate Agent

☐ The Government owns this property

☐ Other

Email *

example@example.com

2. Are You Interested in a Grant, Loan, or Both to Address your Flooding Problem? Are you Prepared to Provide the Required Match? *

☐ CASH - I am able to provide cash to get grant funds in return and am not interested in making payments on a low interest loan.

☐ LOW INTEREST LOAN - I am not able to provide cash as match for a grant-funded project but am able to make regular payments towards a low interest loan.

☐ BOTH - I would be able to provide cash match to get grant funds and am also interested and able to make regular payments towards a low interest loan.

3. Are you Willing to Pay a Fee for Application? *

☐ YES - I'm willing to pay a fee (estimated depending on the funding source)

☐ NO - I am a Low to Moderate Income development costs. My income level is less than (up to 7 people) \$49,517.

☐ NO

☐ I'm not sure.

6. Which of the Following Best Describes your Flood Protection Need? Check all that Apply. *

☐ STRUCTURAL - I am worried about flood damages to my house, septic system, driveway or other infrastructure.

☒ SHORELINE - my shoreline is eroding and I am losing property.

☐ YARD - my yard is constantly flooding or staying wet for prolonged periods of time where I cannot use it the way I would like.

☐ NAVIGABILITY/SOALING - I am unable to access the water from my property the way I would like or need to due to shallow water depths.

☐ Other - Please Explain Below

SHORELINE - Has an attempt been made to protect the shoreline you are concerned about?

☐ No, the section of shoreline is in a present or hard materials placed along the shoreline.

☐ Yes, the following have been constructed to completely protect the shoreline.

SHORELINE - Would you be willing to partner with your neighbors and explore the possibility of a combined, multi-parcel shoreline protection project? Many grants have preference for funding larger scale, multi-parcel shoreline protection projects that provide the greatest return on investment for public funds. (Your response is non-binding nor does it impact your ability to attain public financing for a project solely based along your shoreline). *


☐ Yes, please contact me should this opportunity become available.

☐ No, I am not interested in partnering with my neighbors even if it creates a greater potential for grant funding to protect my shoreline.

SHORELINE - Would you be interested in exploring the potential for the placement of dredged material along your shoreline or at your property should it become available? For example, these types of projects would involve placing dredged sand along a shoreline for beach construction or replacement, thinly applying fine sediment (mud) to tidal marsh to provide elevation, or upland placement of dredged sediment to apply elevation where applicable. *




Tell Your Story

Layers 


Financial Assistance Request

...

FEMA SRL SL

 ...


Shoreline Data

 ...


Middle Peninsula Eligible IPsheds

...


Flood Hazard Areas

 ...

Block Groups

 ...

NFHL

 ...

King William County

...

King and Queen County

...

Essex County

...

Middlesex County

...

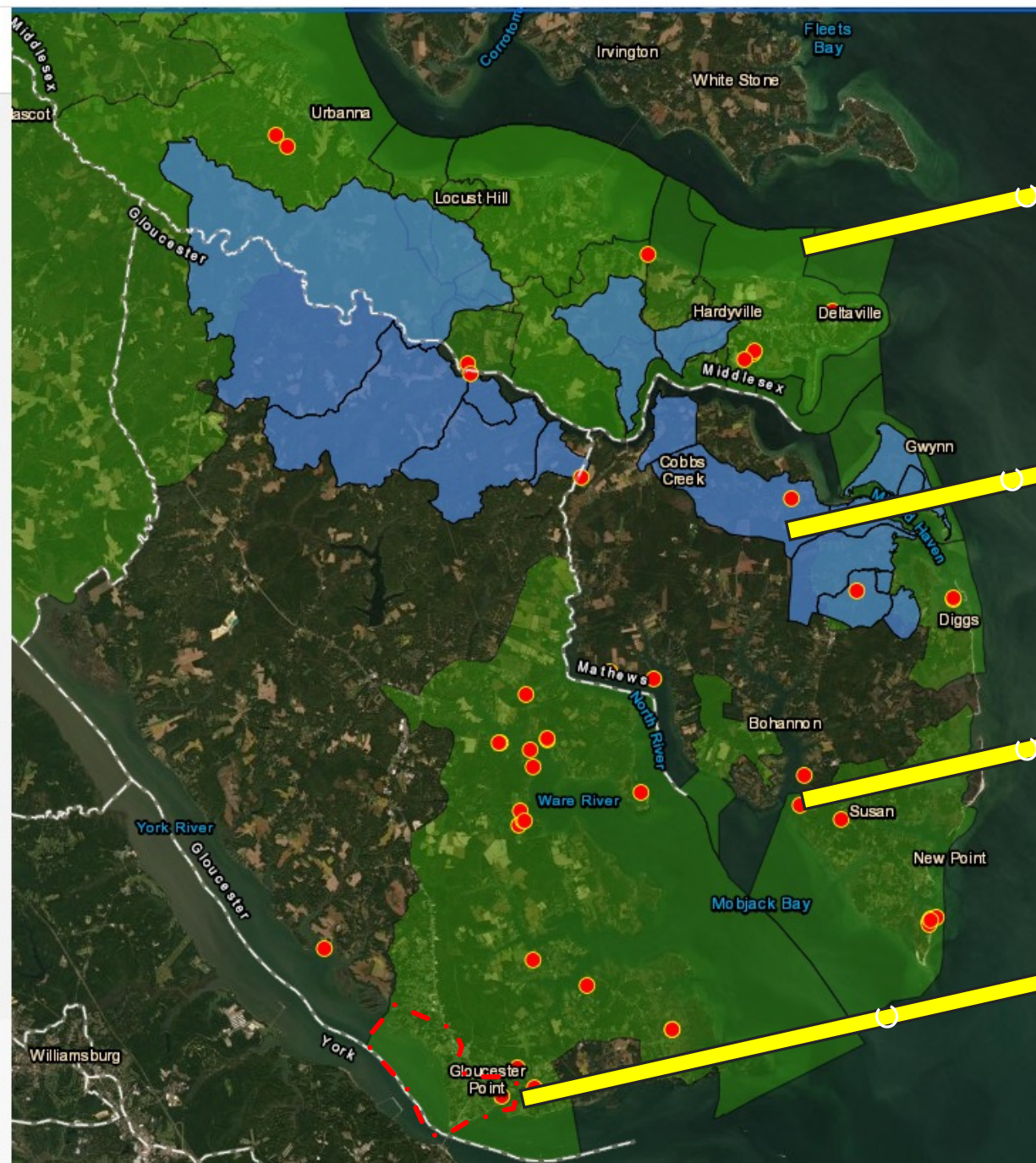
Mathews County

...

Gloucester County

...

+ Add layer



Green: DCR Low Income Areas

Blue: Federal Disaster Funding Areas'

Red: FTF Clients 

Red dashed: Fed Opportunity Zone

ArcGIS Survey123My SurveysHelp

OptionsFight the Flood UpdatedOverviewDesignCollaborateAnalyzeDataSettings<

8/2/21 - 10/26/21FilterReportExportOpen in Map ViewerForm view50/51

Report

1. Choose records to include

☒ Selected records only (1)

☐ All records in the table (50)

2. Select a template

This survey does not have a report template yet. Use Manage templates to create your first template.

3. Output settings

File options

Split

Report name

Fight the Flood Updated_OID43_20211026115308

Save to my ArcGIS account

Survey-Fight the Flood Updated

Format

Microsoft Word (.docx)

Show credits

Generate

Recent tasks

1 of 50 selected

Fight the Flood Updated

Submitted by: Planners

Submitted time: Aug 13, 2021, 4:11:12 PM

First Name

Nicholas

Last Name

Wuckovich

Select what best describes you:

I own this property

Email

Fourwucks@aol.com

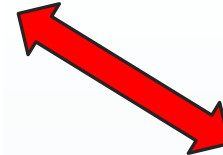
If your Site has an Address, type it in the "Find address or place" box in the Map Below. If your Site does not have an Address, Pan to your Desired Location in the Map Below by Left-Clicking and Holding your Mouse, Zoom in using the Navigational Buttons on the Left, then Left-Click Once on your Mouse to Drop a Balloon at your Desired Location.

Lat: 37.41846 Lon: -76.40596

Work Smarter not harder



Every dot tells a flood story: Citizens Flood Story



Fight the Flood Updated

https://survey123.arcgis.com/surveys/5818b258bc564dc88840d57

Fight the Flood Updated

Submitted by: Planners

Submitted time: Aug 13, 2021, 4:11:12 PM

First Name

Nicholas

Last Name

Wuckovich

Select what best describes you:

I own this property

Email

Fourwucks@aol.com

Please Upload a Copy of Your Real-Estate Tax Bill

PDF

Cabin Tax Bill 2021.pdf

310.1KB

If your Site has an Address, type it in the "Find address or place" box in the Map Below. If your Site does not have an Address, Pan to your Desired Location in the Map Below by Left-Clicking and Holding your Mouse, Zoom in using the Navigational Buttons on the Left, then Left-Click Once on your Mouse to Drop a Balloon at your Desired Location.

Lat: 37.41846 Lon: -76.40596

There is shoreline erosion that is threatening to undermine the deck and cabin on the property.

2. Are You Interested in a Grant, Loan, or Both to Address your Flooding Problem? Are you Prepared to Provide the Required Match?

CASH - I am able to provide cash to get grant I

Fight the Flood Updated

https://survey123.arcgis.com/surveys/5818b258bc564dc88840d57

SHORELINE - Would you be willing to partner with your neighbors and explore the possibility of a combined, multi-parcel shoreline protection project? Many grants have preference for funding larger scale, multi-parcel shoreline protection projects that provide the greatest return on investment for public funds. (Your response is non-binding nor does it impact your ability to attain public financing for a project solely based along your shoreline).

Yes, please contact me should this opportunity become available.

3. Are you Willing to Play a Fee for the Developme

I'm not sure.

SHORELINE - Would you be interested in exploring the potential for the placement of dredged material along your shoreline or at your property should it become available? For example, these types of projects would involve placing dredged sand along a shoreline for beach construction or replacement, thinly applying fine sediment (mud) to tidal marsh to provide elevation, or upland placement of dredged sediment to apply elevation where applicable.

Yes, please contact me should this opportunity become available.

4. How Would you Describe the Urgency of your f

VERY URGENT - My property is at immediate r

SHORELINE - my shoreline is eroding and I

YARD - my yard is constantly flooding or st

NAVIGABILITY/SHOALING - I am unable to shallow water depths.

STRUCTURAL - Do you have any of the following protecting? Check all that apply.

Secondary structures (detached garages, o

Other

YARD - What type of flooding is occurring in your yard and inland away from your shoreline? Check all that apply.

Tidal flooding inundates my yard with salt water during storm events (nor'easters, hurricanes).

Tidal flooding inundates my yard with salt water when there are no storms in sight (also known as "sunny day flooding").

I do not know where the water is originating from, but it is obvious that my yard has a major flooding problem.

YARD - If you have an idea of what your yard flood protection or remediation project will or should entail, how far along is your project?

I have an idea of what needs to be done but have not formalized any plans or designs to date.

NAVIGABILITY - Please select the type of vessel you own that cannot readily access the water from your property due to shallow water. Check all that apply.

SMALL VESSEL - Including canoes, kayaks, johnboats, skiffs, small sailboats. Drafts ranging approximately from less than 1 foot to 2 feet.

NAVIGABILITY - Please select the tide conditions where you cannot readily navigate the waters from your property. Check all that apply.

ALL TIDE LEVELS - I cannot boat at low, mid, or high tides.

NAVIGABILITY - Please select the type of boating activities occurring from your property.

Recreational boating only.

NAVIGABILITY - Would you be willing and able to contribute funding to a dredging project should grant or loan funds be made available? (Your response is non-binding nor does it impact your ability to attain public financing for a dredging project should it become available in the future).

Unsure, but open to further exploratory discussions.



EasyGrantsID: 62813
 National Fish and Wildlife Foundation – Chesapeake Bay Small Watershed Grants Implementation
 2018, Full Proposal
 Title: Improving Coastal Resiliency through Nature-Based Solutions
 Organization: Middle Peninsula Planning District Commission

Title of Project
 Improving Coastal Resiliency through Nature-Based Solutions

Total Amount Requested \$ 199,914.09
Matching Contributions Proposed \$70,000.00
Proposed Grant Period 01/01/ 2019 - 01/01/ 2021

Project Description

The Middle Peninsula Planning District Commission is implementing coastal resiliency and mitigation efforts, while simultaneously addressing marsh loss. First, MPPDC staff will work directly with the local community to offer grant and loan funds through the MPPDC.

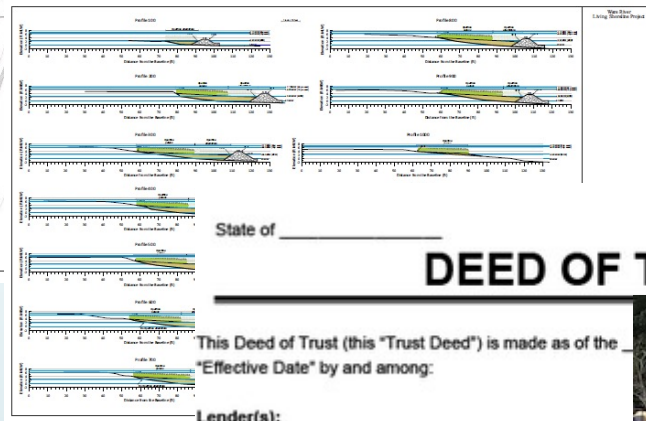
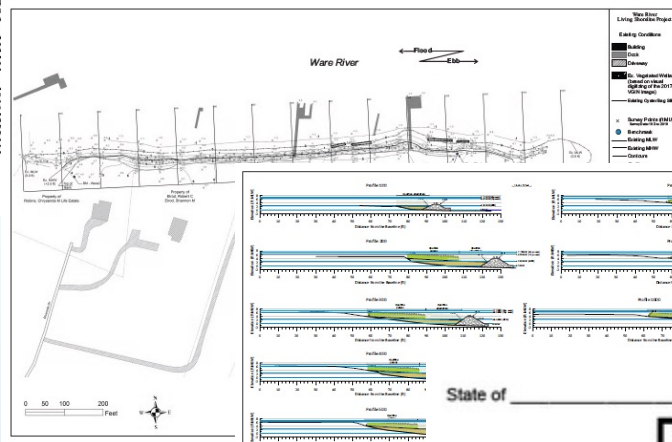
Grant 1



Ware River Living Shoreline Project



Adjacent Proj:
 1) Robert E. Lee
 2) Donnell



DEED OF TRUST

This Deed of Trust (this "Trust Deed") is made as of the
 "Effective Date" by and among:

Lender(s):

● ...to \$to



Its an economic machine

[OWNERS](#)

[CONTRACTORS](#)

[GRANTS/LOANS](#)



[ABOUT](#)

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[SOLUTIONS](#)

Fight the Flood Program Investment in Middle Peninsula Flood Protection

\$11,815,876

in direct loans and grants and counting (2017 to current)

It's a financing machine



Loan Funds Available

\$3,000,000

VRA Loan Funds for living shoreline construction and septic systems repair. Program Funds Anticipated January 2022



MPPDC-DEQ Grant Funds Available for Shoreline Protection

\$120,000

Open for \$20,000 Grants January 2021
Hurricane Florence Living Shoreline Grants for sections of Mathews County

It's a resiliency invocation machine



RISE Rural Coastal Resiliency
Business Competition

\$1,500,000

Million Rural Coastal Community Resilience
Challenge:

<https://riseresilience.org/rural-resilience-challenge/>



US Department of
Transportation RAISE

\$2,018,476

Designing Multimodal Working Waterfronts to
combat flooding and other stressors on
waterfront infrastructure



It's holistically addressing all elements
of coastal threats

Virginia Waterways
Maintenance Fund

\$1,500,000

Grant for dredging work and beach restoration work for
resiliency Mathews County

Virginia Coastal Zone
Management Next Generation
Shoreline Battle Plans

\$100,000

for development of shoreline plans to direct future
spending



Its building the next generation homes

Vertically Elevated Next Generation Residential Septic System Pilot

\$130,000

Grant Virginia General Assembly to design and build next genral septic to combat flooding

Virginia Housing - Next Generation Waterfront Residential House Design and Build

\$1,000,000

Grant for housing production for the next generation of waterfront homes fighting flooding

It's doing stuff.... A lot of stuff



Active FTF Awarded Grants

- Severn River Captain Sinclairs Shoreline Protection Award: **\$200,000**
- Ware River Award - Multi parcel Private Shoreline Reach Protection Project: Award: **\$160,000**
- North River Award - Targeted High Erosion Private Shoreline Protection: Award \$220,000
- Middlesex County - DCR Community Flood Preparedness Grant Fund Award to address littoral shift of sand due to changing geomorphological conditions driven by climate change and storm surge: **\$44,000**



VRA - Loan Funding For Living Shorelines

\$250K - VRA Loan Closed

\$250K - VRA Loan Closed

Gloucester County

4 loans made: 935 Linear Feet

Total Loans: **\$265,731**

Middlesex County

2 loans made: 182 Linear Feet

Total Loans: **\$180,018**

Mathews County

3 loans made: 998 Linear Feet

Total Loans: **\$111,272**

Total - \$557,021 (*loan forgiveness)

Questions

www.fightthefloodva.com

*Curtis Smith
Deputy Director
Middle Peninsula Planning District Commission
P.O.Box 286
Saluda, Va 23149
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DEVELOPING THE RESILIENCE ACTION CHECKLIST

- **Goal: 3 to 5 top priority actions to increase your locality's resilience to be implemented over the next year**
- **Consider leveraging tools and resources that have been or are being developed for other coastal communities**
- **Consider projects that meet county's specific needs**
 - **Should have long-term impact**
 - **Not already being done**
 - **Does not need to be completed in the next year, but substantial progress is doable**



EXAMPLES OF EFFECTIVE RESILIENCE ACTIONS AND TOOLS

Strategies for Conserving the Green Infrastructure of COLONIAL BEACH, VA

Prepared by the Green Lands Class at the University of Virginia
Printed December 2020

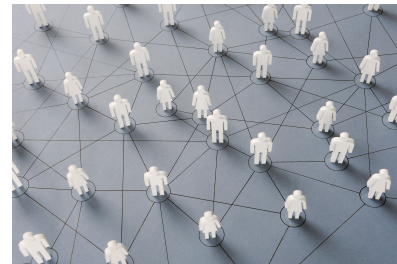


Respecting the Past, Creating the Future:

Accomack County Comprehensive Plan



Adopted: May 14, 2008
Amended: February 19, 2014
Amended: January 20, 2016
Amended: October 17, 2018



Contextualizing Natural Hazards & Impacts on Vulnerable Populations

Exercise Worksheet

The RAFTI Resilience Adaptation Feasibility Tool



SECTION ONE: INTRODUCTION

Goal

This exercise seeks to (1) understand the specific impacts of hazards on a locality and (2) identify populations vulnerable to those impacts, with an emphasis on social and economic conditions that may exacerbate risk to hazards. It aims to build upon existing tools and processes that exist, including Hazard Mitigation Plans and Emergency Operations Plans.

The exercise is intended to consider vulnerability within the context of flooding hazards, but the blank worksheet included in the appendix can be adapted for any high-priority hazard a community faces. Section two presents the exercise with flooding as the hazard of concern, while section three presents a blank exercise worksheet with instructions for building it out with other priority hazards in focus.

Purpose

By understanding the impacts of hazards, we can better identify who is vulnerable to those hazards and conduct effective outreach, education, and planning accordingly. Assessing vulnerability is particularly critical for both individuals who are directly-impacted by hazards and those who are socially vulnerable due to underlying socioeconomic conditions and situations that can make preparing for and responding to hazards challenging (see box right). By identifying these "priority populations," we can identify specific knowledge and resources needed to better prepare the community for the impacts of hazards, including those created or exacerbated by climate change.

This exercise can be conducted in parallel with other resilience-building exercises, including regional hazard mitigation planning and Emergency Risk Communication (ERC) planning.

Outputs of this exercise can be used in the following ways:

- Local impacts of hazards are fed into Hazard Mitigation Plan (HMP) updates and Emergency Operations Plan (EOP) updates.

Conditions that may exacerbate risk to hazards include:

- Income below the federal poverty level
- Limited English-language skills
- Mental illness and substance use disorders
- Chronic illness and disabilities
- Homelessness
- Limited mobility and agency (elderly populations, residents of short- and long-term care facilities, children)
- A lack of health insurance
- Temporary residency (including migrant workers, visiting households/home owners)
- A lack of reliable internet access or cell phone coverage
- A lack of reliable transportation
- Limited use of modern amenities, including transportation and communication technologies (e.g. Anishinabe and conservative Mennonite communities)
- Connection to historic or cultural resources at risk of hazards (e.g. Tribal Nations and communities)
- Experience of historic traumas causing low trust of government messages or actions (e.g. African Americans, migrant workers, Tribal Nations)



Q & A

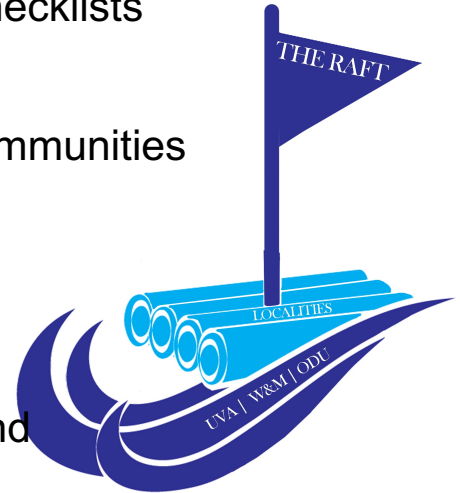
DEVELOPING YOUR ONE-YEAR RESILIENCE ACTION CHECKLIST

Orientation

- Small group discussions – by locality – to develop 1-YR Action Checklists
- Identify up to 5 priority action items
- At least 1 to support historically-excluded + under-represented communities
- At least 1 to support MPPDC Fight the Flood program
- Up to 3 “open choice”

How it works

- Each locality has its own Google Doc
- You will have around 1 hour 15 minutes to brainstorm, discuss, and prioritize options
- Take a short break at 11:15 am
- Large group discussion, identify shared regional actions and next steps



SMALL GROUP BREAKOUTS

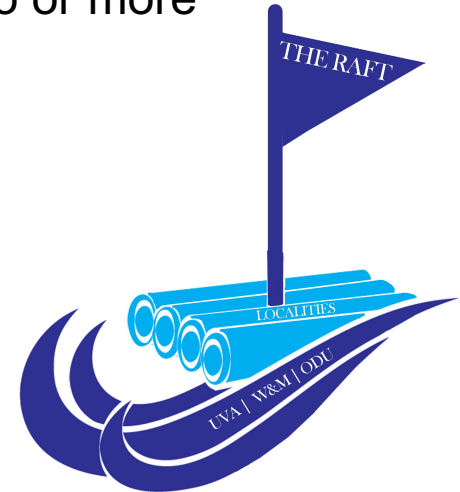


REVIEW AND DISCUSSION OF LOCALITY PRIORITY ACTIONS

From locality discussion: Copy/paste your top priorities into the chat

Regional Commonalities?

- Are some actions appropriate for being done together by two or more localities?
- Can some actions, if assisted by RAFT Team, benefit other communities?
- Are there joint grant opportunities that can be pursued?
- Are there longer-term actions that groups considered that might be appropriate for the RAFT team to bring in other resources to assist with?
- Are there other resources that could be helpful?



PREVIEW IMPLEMENTATION PHASE AND TEAMS

- The RAFT team will support Implementation Teams over the next 12 months
- Establish Teams and identify Team Leads for each checklist item
- RAFT liaison will hold monthly or bimonthly calls to keep Implementation Teams on track
- Bi-weekly check-ins with Team Leads and members
- RAFT Core Team will support each priority action in different ways, depending on the skills and support needed

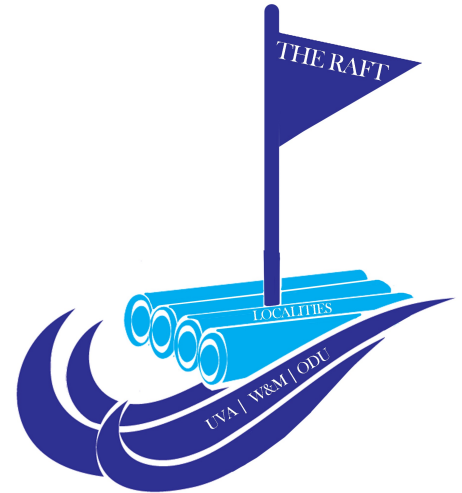


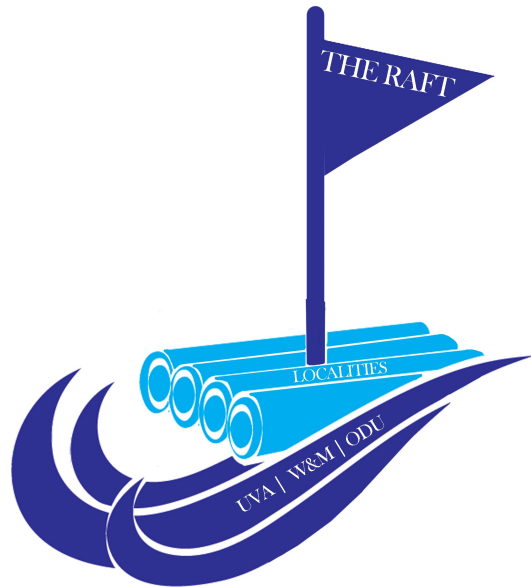
IMPLEMENTATION TEAM

Who should be included on the Implementation

- Locality staff
- State agencies
- Community organizations
- Nonprofits
- Businesses

Be inclusive!





Q & A

NEXT STEPS

Tentative timeline

- 2nd to 3rd week of February: Draft Action Checklists distributed
- 4th week of February– early March: First organizational Implementation Team Kick-off meeting with RAFT liaisons

Please complete the workshop evaluation

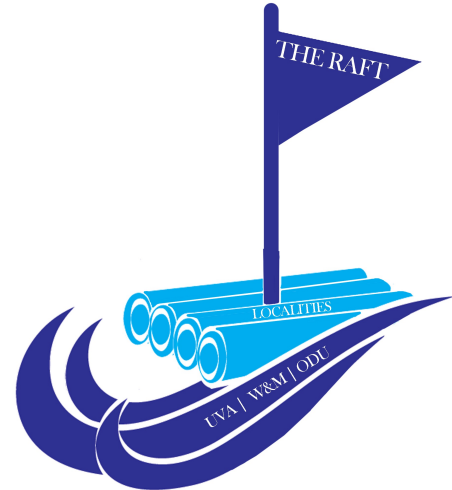


THANK YOU

Middle Peninsula Planning District Commission

Funders

- *Jessie Ball duPont Fund*
- *Virginia Environmental Endowment (VEE)*
- *Virginia Sea Grant*
- *Virginia Coastal Zone Management Program (CZM) National Oceanic and Atmospheric Administration (NOAA)*



The RAFT TEAM

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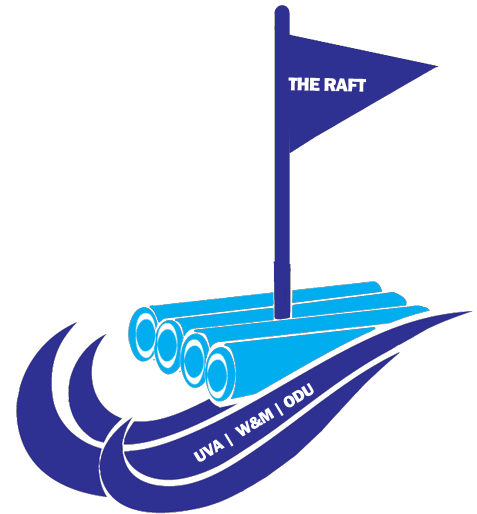
Old Dominion University and Virginia Sea Grant

ODU Institute for Coastal Adaptation & Resilience

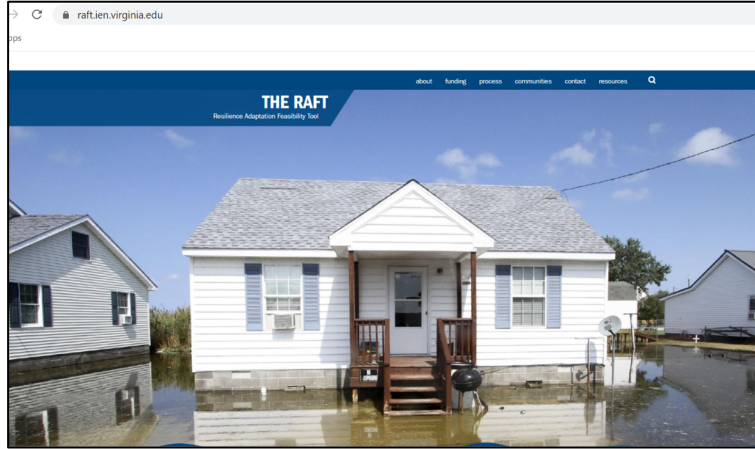
Virginia Sea Grant Climate Adaptation and Resilience Program

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VISIT THE RAFT WEBSITE: <https://raft.ienvirginia.edu/>



The RAFT is a collaborative, community-driven process and full-service tool developed to help Virginia's coastal localities improve resilience to flooding and other coastal storm hazards while remaining economically and socially viable.

The RAFT Communities

[2017-2018 Pilot Project](#) [2018-2019 Eastern Shore](#) [2019-2020 Northern Neck](#)

"After reading the RAFT Scorecard for our community, the Saxis team immediately knew where it could improve to prepare for Florence – getting a count of who was staying, who was evacuating, providing transport to shelters, creating a master communication list, etc.!"
-The Saxis Resilience Implementation Team

The RAFT Resilience Resources

The RAFT Resilience Research & Policy Products	The RAFT Resilience Communication Products
The RAFT Scorecard Assessments & Checklists	The RAFT Resilience Maps
State & National Resilience Resources	

THANK YOU!

