

Federal Facilities Owners Meeting

Meeting Summary



October 16, 2024 | Federal Facilities Owners Meeting Summary

Table of Contents

A. Meeting Overview 2
Agenda 2
Attendance 3
Notes 3
Discussion and Q&A Sesssion 4

B. Poll Questions and Answers 5
B.1 Introductions 5
Q1: What is your role within your organization or agency? 5
Q2: Which federal department or agency do you represent? 5
Q3: What are the primary functions of your facilities? 6
B.2 Flood Impacts 6
Q4: Has your federal facility been impacted by flooding? 6
Q5: If yes, how has flooding affected your federal facility? (Select all that apply) 7
Q6: How often does flooding occur at your federal facility? 7
Q7: What type of flooding has your federal facility experienced? (Select all that apply) 8
B.3 Resilience Actions 8
Q8: How involved is your federal facility in community or regional flood resilience projects or initiatives?. 8
Q9: Is your federal facility currently working with any local, state, or federal agencies on flood resilience projects or initiatives? 9
Q10: Which aspects of flood resilience would you like more support or information on? (Select all the apply) 9

A. Meeting Overview

Coastal Resilience Master Plan Phase II: Federal Facilities Owners Meeting

Meeting Date: Wednesday, October 16, 2024

Meeting Time and Location: 12 – 1 PM Virtual on Zoom

The Federal Facilities Owners Meeting brought together various federal agencies in Virginia to discuss flood resilience planning as part of the Coastal Resilience Master Plan (CRMP) Phase II efforts. The session provided an overview of the CRMP, including its history, purpose, and the development of Phase II tools to support federal facilities owners in identifying and addressing flood risks. Key topics included flood hazard exposure and impact models, which enable users to assess specific sites for potential flood impacts, along with Phase II data findings relevant to economic sectors. Resilience actions were also highlighted to show how to use these insights when considering new investments or coordinating resilience projects and initiatives.

Throughout the webinar, interactive participation was encouraged through polls to gather feedback on flooding concerns and assess the accessibility and usefulness of CRMP resources for the private sector. A Question and Answer (Q&A) session addressed participant questions, and next steps for involvement in ongoing resilience efforts were outlined. The session drove awareness, offered practical applications of CRMP tools, and created pathways for future collaboration in flood resilience planning.

AGENDA

1. Welcome & Introductions
2. Flooding as a Growing Challenge in Coastal Virginia
3. Overview of the Coastal Resilience Master Plan
 - a. History and Background
 - b. Phase I Plan and Findings
4. Coastal Resilience Master Plan, Phase II Update
 - a. Plan Approach and Products
 - b. Plan Findings
5. How to Get Involved
6. Next Steps
7. Sentinel Landscapes, Department of Forestry
8. Q&A Session

ATTENDANCE

Total Number of Attendees: 30

Federal Partners Represented (10)
U.S. Department of Defense (DoD)
U.S. Army Corps of Engineers (USACE)
National Aeronautics and Space Administration (NASA)
U.S. Fish and Wildlife Services (USFWS)
Joint Expeditionary Base Little Creek-Fort Story
Joint Base Langley-Eustis
Naval Facilities Engineering Systems Command
Naval Air Station Oceana
Air Force Civil Engineer Center
U.S. National Park Service (USNPS)

DCR Staff and Consultants (6)
Matt Dalon (DCR)
Ashley Hall (Stantec)
Linda Warren (Launch! Consulting)
Cece Atkinson (Launch! Consulting)
Rebekah Cazares (Launch! Consulting)
Sarah Girard (Launch! Consulting)

NOTES

- Matt Dalon (DCR) kicked off the meeting by introducing the project team and presenters, as well as providing an overview of the CRMP. This included its history, background, findings from Phase I, and updates for Phase II.
- Ashley Hall (Stantec) shared preliminary findings from Phase II focused on BIED sectors’ flood exposure data and resilience actions. These are available in the Coastal Resilience Web Explorer (CRWE) and emphasize the importance of public-private collaboration in addressing flooding challenges.
- Mary Bennet (Department of Forestry) provided an overview of the newly formed Sentinel Landscapes program. Information on the programs key objectives was

provided and included preventing encroachment on protected lands, building resilience against natural hazards, and preserving and restoring critical habitats to improve water quality and protect threatened and endangered species. The program increases federal partnerships to align goals and resources across sectors.

- Throughout the meeting, interactive polls were used to better understand which groups were represented, flooding impacts on federal facilities, and involvement in resilience projects and initiatives. The following provides the results from the series of poll questions broken down across the three categories (note: polls were optional, and responses do not reflect all participants present in the meeting).
- Matt Dalon (DCR) offered differed ways the federal facilities partners could stay involved in the CRMP planning efforts, which included:
 - **Quarterly Newsletter:** A newsletter will be issued quarterly to keep participants updated on CRMP developments and related activities.
 - **Future Engagement Opportunities:** The meeting concluded with a reminder of upcoming opportunities for public engagement, including the release of the CRMP plan, public comment opportunities, and public webinars.

DISCUSSION AND Q&A SESSION

At the end of the meeting, Linda Warren (Launch! Consulting) facilitated a question-and-answer session and discussion for participants to unmute and ask any questions for the presenters, as well as provide any comments.

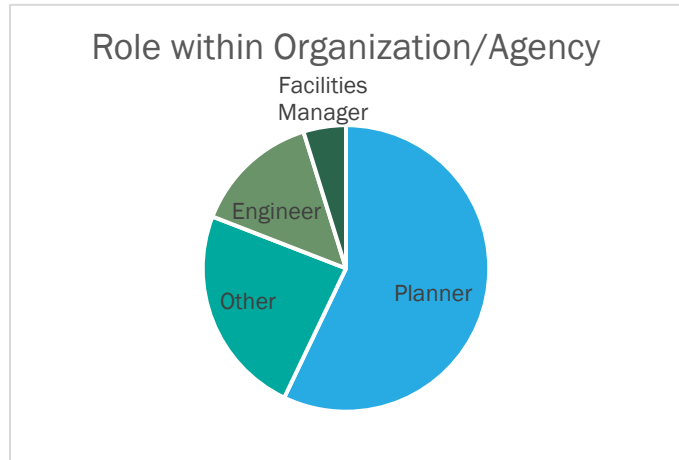
- Matt Dalon (DCR) addressed challenges in establishing points of contacts with federal facilities. There was a discussion on effective communication strategies for engagement.
- Several attendees were interested in learning more about the kickoff meeting for the Sentinel Landscapes program (Department of Forestry), and who was invited. Mary Bennett explained that invitations were sent and because of limited space, they focused on facilities within the area.
- A NASA representative announced a new grant awarded for a community research project focused on flood planning and response in Hampton and nearby localities. The project is slated to start in the coming months and will run for three years. The NASA Disasters program, which includes flood mapping and modeling tools was highlighted.
- Joint land use studies were also discussed, which underscores the potential synergies with the Sentinel Landscapes program for increased partnership opportunities.

B. Poll Questions and Answers

B.1 INTRODUCTIONS

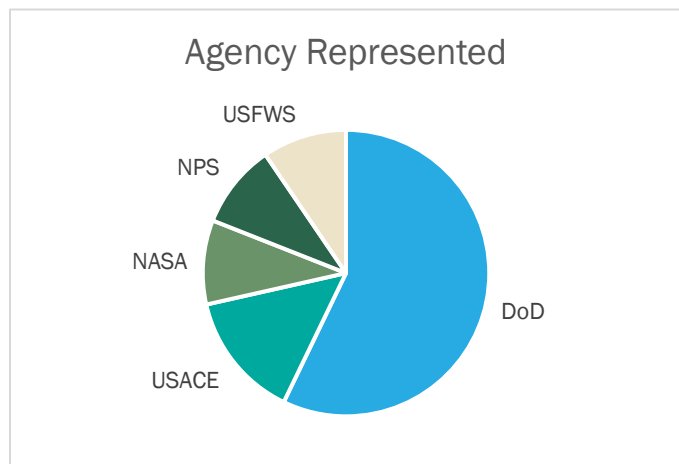
Q1: What is your role within your organization or agency?

- Planner 57.1%
- Other 23.8%
- Engineer 14.3%
- Facilities Manager 4.8%



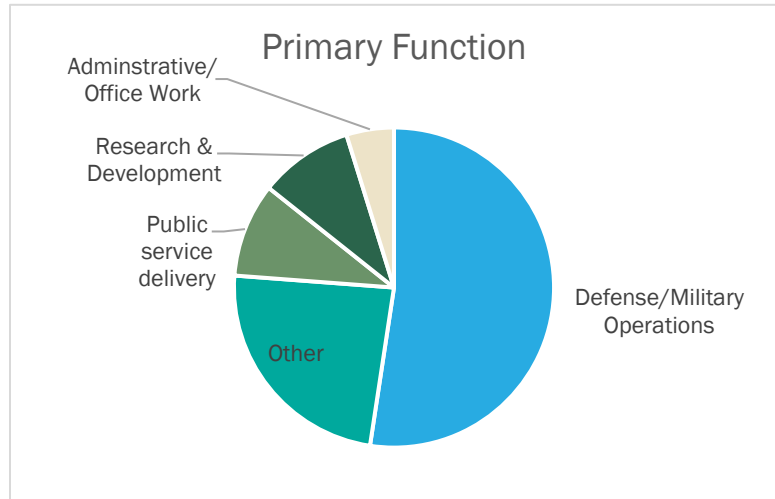
Q2: Which federal department or agency do you represent?

- Department of Defense (DoD) 57.1%
- U.S. Army Corps of Engineers (USACE) 14.3%
- National Aeronautics and Space Administration (NASA) 9.5%
- National Park Service (NPS) 9.5%
- U.S. Fish and Wildlife Service (USFWS) 9.5%



Q3: What are the primary functions of your facilities?

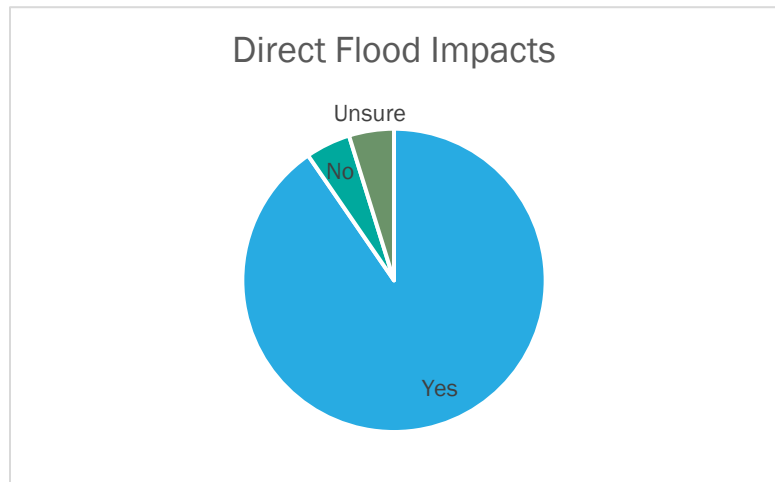
- Defense/Military Operations 52.4%
- Other 23.8%
- Public service delivery (e.g., health, safety, legal services) 9.5%
- Research and Development 9.5%
- Administrative/Office Work 4.8%



B.2 FLOOD IMPACTS

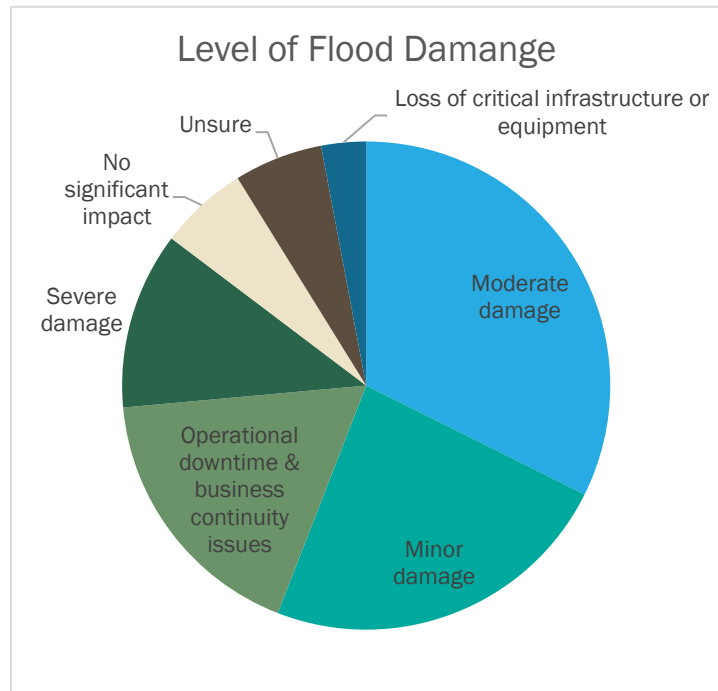
Q4: Has your federal facility been impacted by flooding?

- Yes 90.5%
- No 4.8%
- Unsure 4.8%



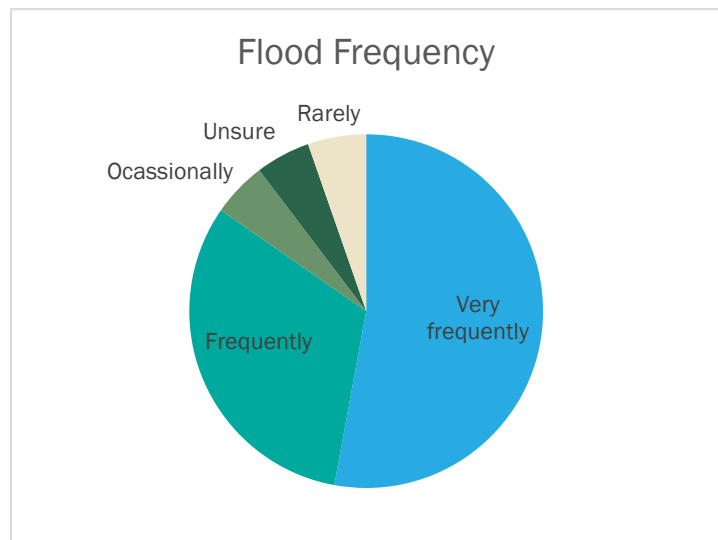
Q5: If yes, how has flooding affected your federal facility? (Select all that apply)

- Moderate damage (e.g., property damage, system disruptions) 52.4%
- Minor damage (e.g., temporary closure, water infiltration) 38.1%
- Operational downtime and business continuity issues 28.6%
- Severe damage (e.g., structural damage, long-term closure) 19.0%
- No significant impact 9.5%
- Unsure 9.5%
- Loss of critical infrastructure or equipment 4.8%



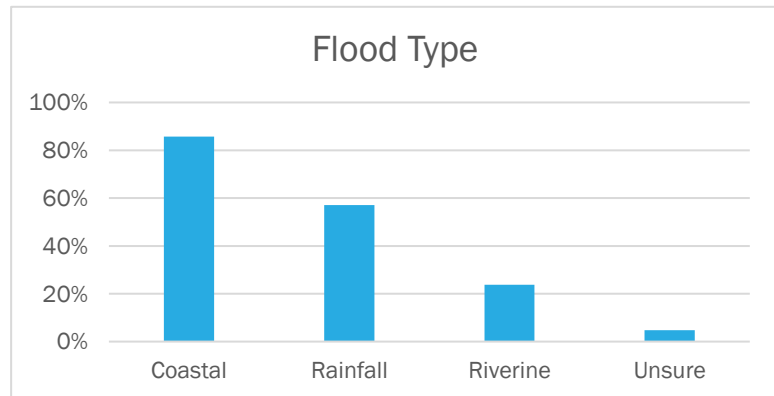
Q6: How often does flooding occur at your federal facility?

- Very frequently (multiple times per year) 47.6%
- Frequently (every 1-5 years) 28.6%
- Occasionally (every 5-10 years) 4.5%
- Unsure 4.5%
- Rarely (once in 10+ years) 4.8%



Q7: What type of flooding has your federal facility experienced? (Select all that apply)

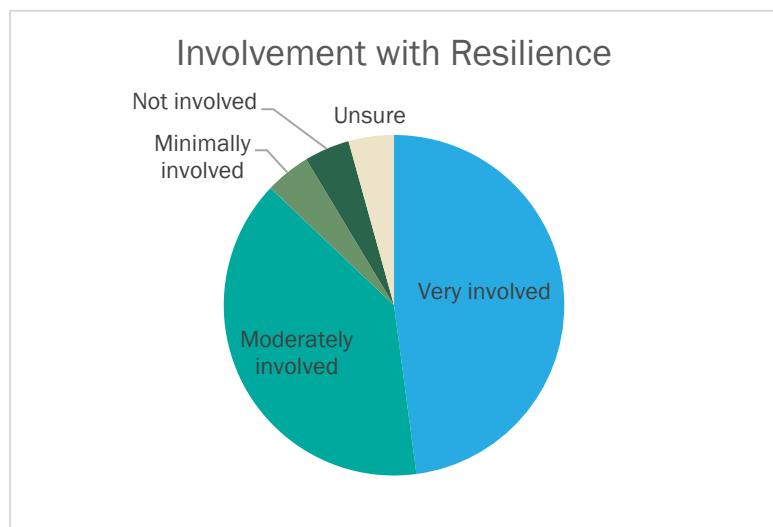
- Coastal 85.7%
- Rainfall 57.1%
- Riverine 23.8%
- Unsure 4.8%



B.3 RESILIENCE ACTIONS

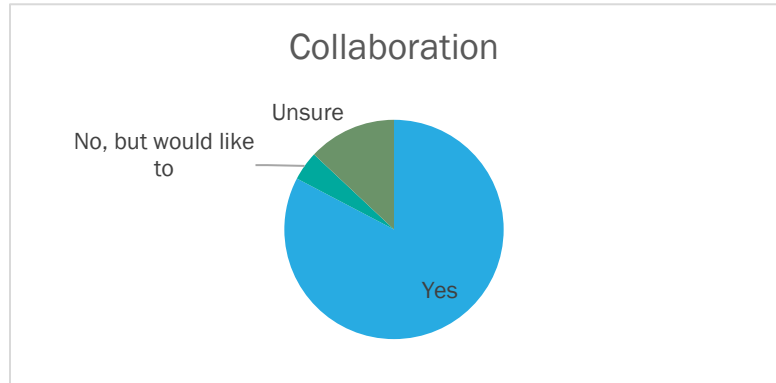
Q8: How involved is your federal facility in community or regional flood resilience projects or initiatives?

- Very involved (e.g., leadership roles, active participation in initiatives) 47.8%
- Moderately involved (e.g., occasional involvement, partnerships) 39.1%
- Minimally involved (e.g., awareness, but no active participation) 4.3%
- Not involved 4.3%
- Unsure 4.3%



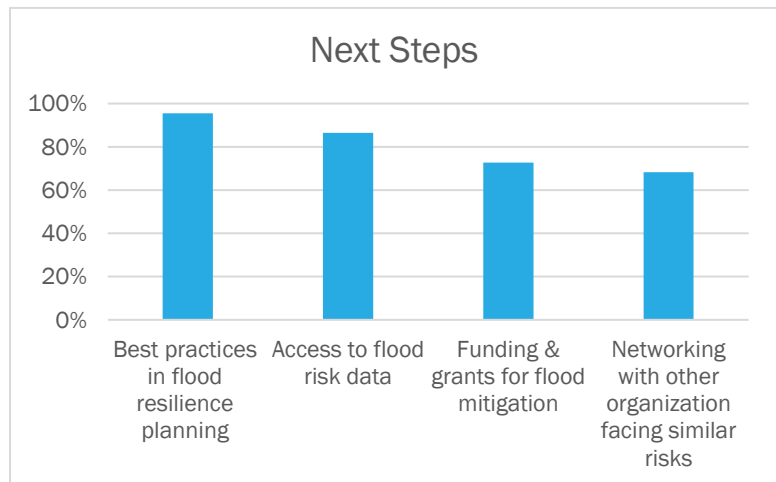
Q9: Is your federal facility currently working with any local, state, or federal agencies on flood resilience projects or initiatives?

- Yes 82.6%
- No, but would like to 4.3%
- Unsure 13.0%



Q10: Which aspects of flood resilience would you like more support or information on? (Select all the apply)

- Best practices in flood resilience planning 95.5%
- Access to flood risk data 86.4%
- Funding and grants for flood mitigation 72.7%
- Networking with other organizations facing similar risks 68.2%





Coastal Resilience Master Plan, Phase II

Federal Facilities Meeting | October 16, 2024



Photo: Virginia Department of Conservation & Recreation

Welcome!

Today's Agenda

- Welcome & Introductions
- Flooding as a Growing Challenge in Coastal Virginia
 - Overview of the Coastal Resilience Master Plan
 - History and Background
 - Phase I Plan and Findings
 - Coastal Resilience Master Plan, Phase II Update
 - Plan Approach and Products
 - Plan Findings
 - How to Get Involved
 - Next Steps
- Sentinel Landscapes - Dept. of Forestry
- Q&A Session



Introduction to our Speakers



Matt Dalon

*Program Manager,
DCR ORP*



Ashley Hall

*Senior Engineer,
Stantec*



Linda Warren

*Senior Facilitator and
Resilience Specialist,
Launch! Consulting*

Participant Poll - Introductions

1. What day should we host the next Webinar?

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday

Anonymous

Save

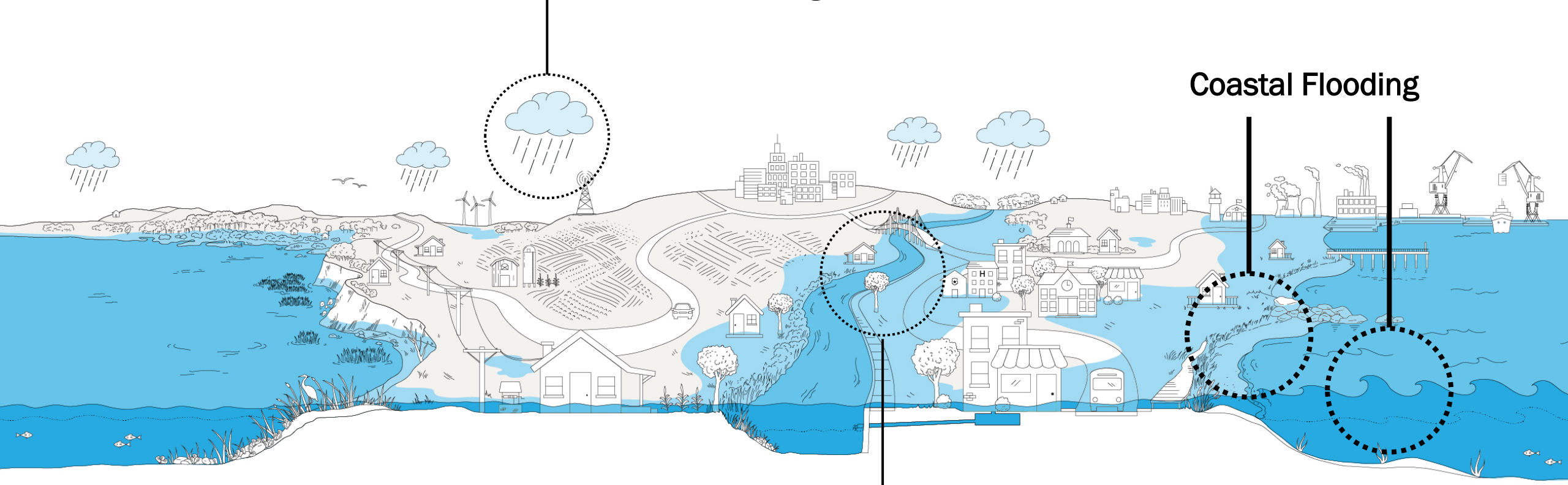
SAMPLE

Please respond to the anonymous poll that appears on your screen

Flooding as a Growing Challenge in Coastal Virginia

Rainfall-Driven Flooding

Coastal Flooding



Riverine Flooding

Image credit: Dewberry

Coastal Flooding



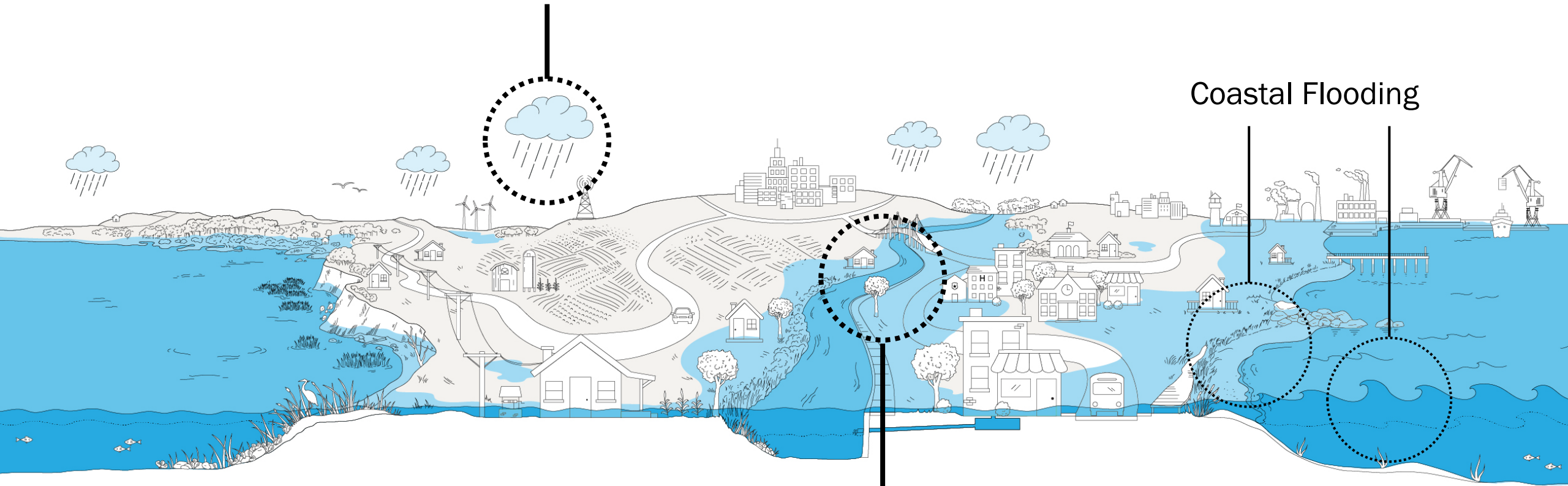
Flooding from Hurricane Isabel, September 2003, Norfolk, VA
Source: U.S. Navy, Photographer's Mate 1st Class, Michael Pendergrass



Sunny day flooding, May 2022; Hampton, VA

Rainfall-Driven Flooding

Coastal Flooding



Riverine Flooding

Image credit: Dewberry

Rainfall-Driven Flooding and Riverine Flooding



A car surrounded by water in Wolf Trap, Fairfax, VA, 2021
Source: Fairfax County government/Twitter via [Tysons Reporter](#)



Roadway flooding in Clifton, Virginia, 2014
Source: Fairfax County, Licensed with CC BY-NC-ND 2.0, via [Flickr](#)

Overview of the Coastal Resilience Master Plan

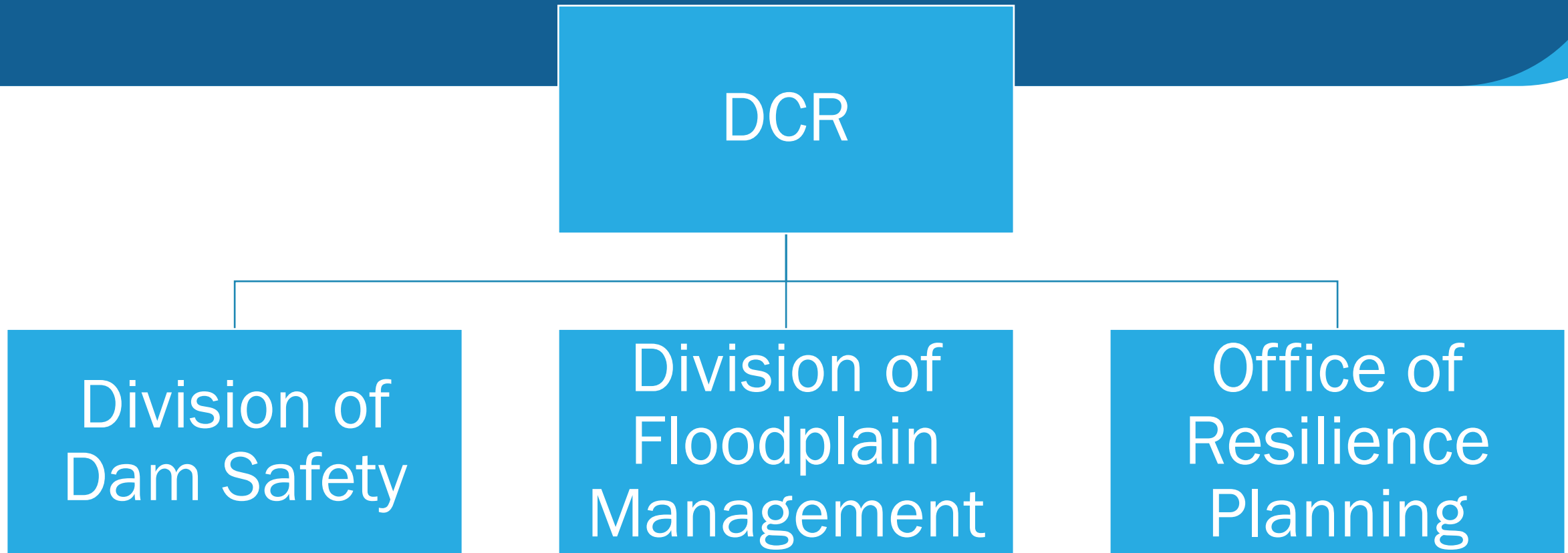
History, Background, and Phase I Findings

Virginia Department of Conservation and Recreation (DCR)

- **Who We Are:** Virginia's lead natural resource conversation agency
- **What We Do:** Enable and encourage people to enjoy and benefit from Virginia's natural and cultural resources
- **What We Value:** The diversity of nature, culture and communities to ensure a sustainable and equitable future for recreational access and a healthy environment for all Virginians to enjoy.
- **How We Do It:** DCR accomplishes its mission through funding, expertise, education, acquisition and improved access.

DCR Office of Resilience Planning

Planning for a flood resilient future.



Our Flood Resilience Mission

Distribute knowledge and coordinate action to achieve a flood-resilient future for Virginia through informed planning and proactive, intergovernmental solutions.



Address challenges related to flooding and resiliency



Establish programs that work for all impacted parts of Virginia



Create comprehensive, cohesive plans and ensure our programs work together

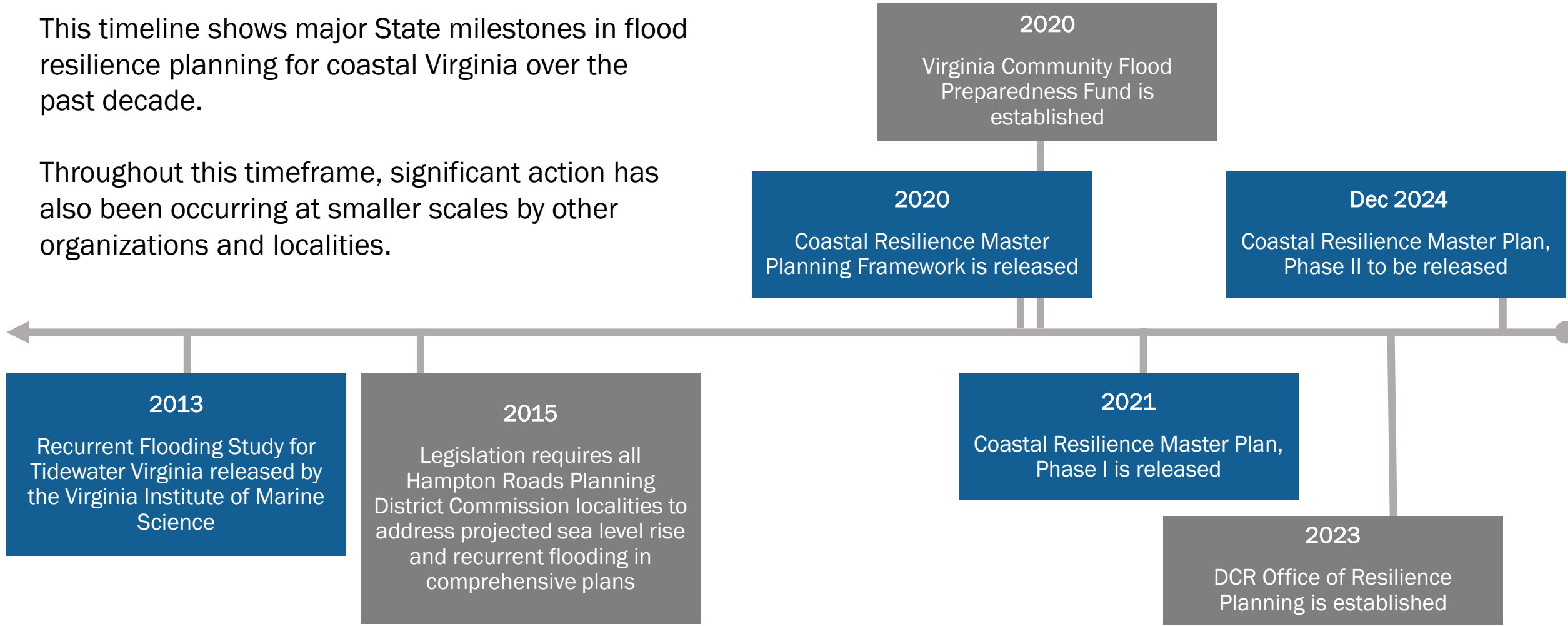


Develop and implement programs and plans with transparency and input from the public

Coastal Resilience Master Planning in Virginia, Looking Back

This timeline shows major State milestones in flood resilience planning for coastal Virginia over the past decade.

Throughout this timeframe, significant action has also been occurring at smaller scales by other organizations and localities.

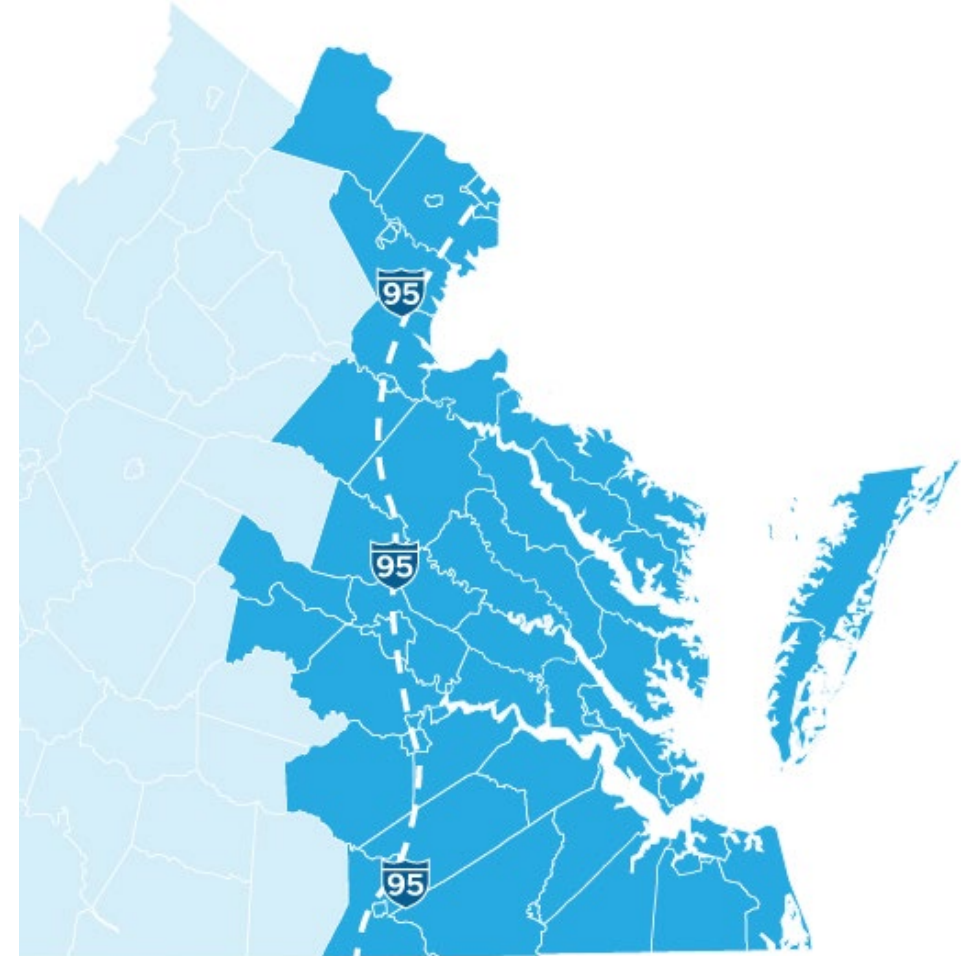


The Virginia Coastal Resilience Master Plan

A **trusted resource** to assist government entities in making evidence-based decisions to mitigate severe and repetitive flooding.

- Provides a **unified baseline analysis** of the threat of increasing flood exposure and impacts.
- **Identifies opportunities** to prioritize impactful flood resilience solutions.

Despite being called “coastal” the plan addresses all forms of flooding in this region. Nearly six million people, or 70% of the state’s population, call coastal Virginia home.

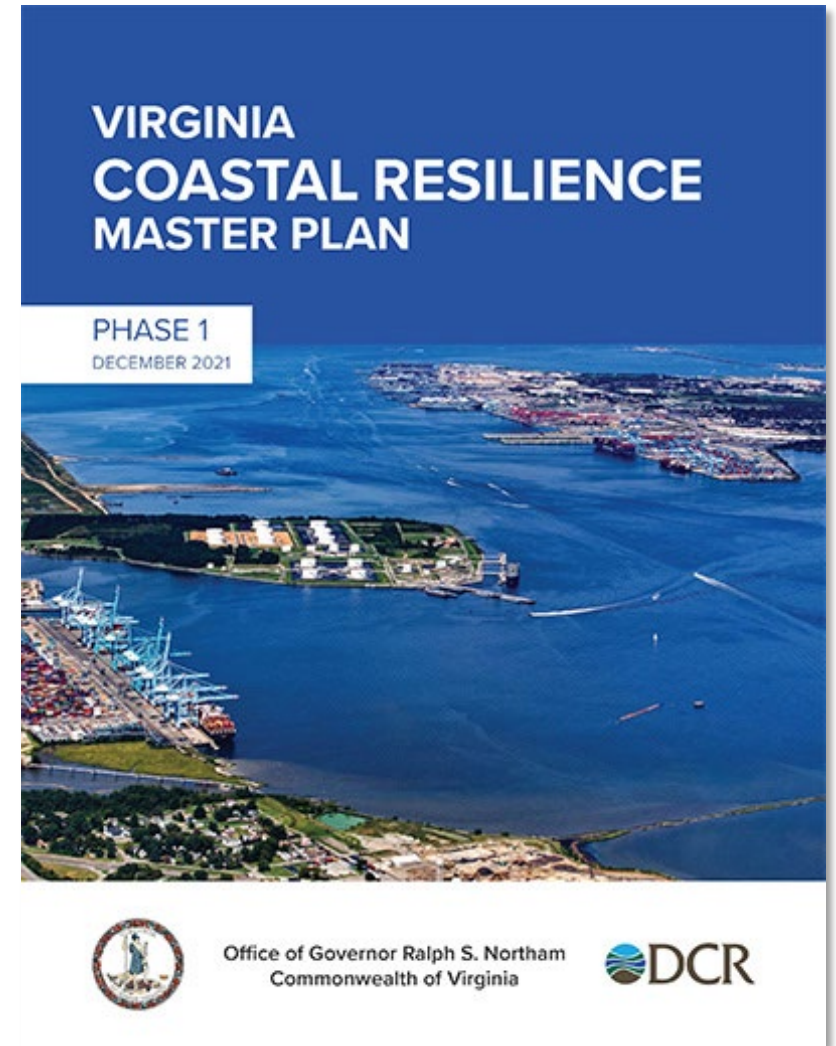


The Coastal Resilience Master Plan, Phase I

- Developed and released by the Commonwealth in 2021.
- Served as a call to action for coastal Virginia.
- Shows that, without action, rising sea levels and increasingly severe weather threaten our cherished coastal regions' economic, cultural, and environmental resources.
- Developed in a collaborative process with many organizations and stakeholders.

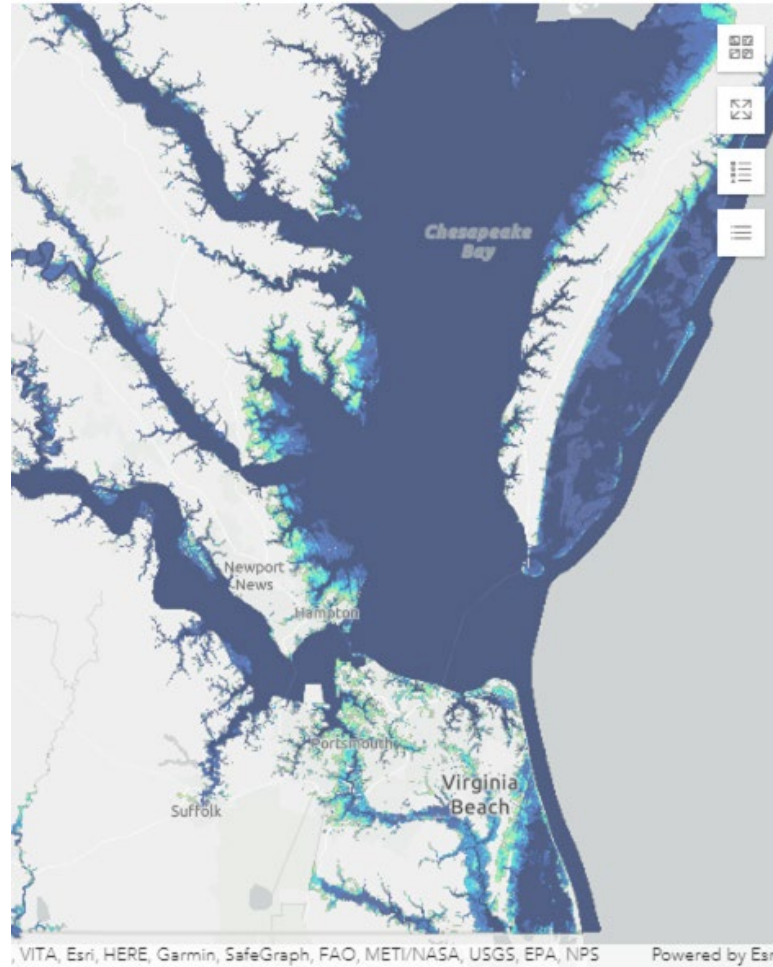
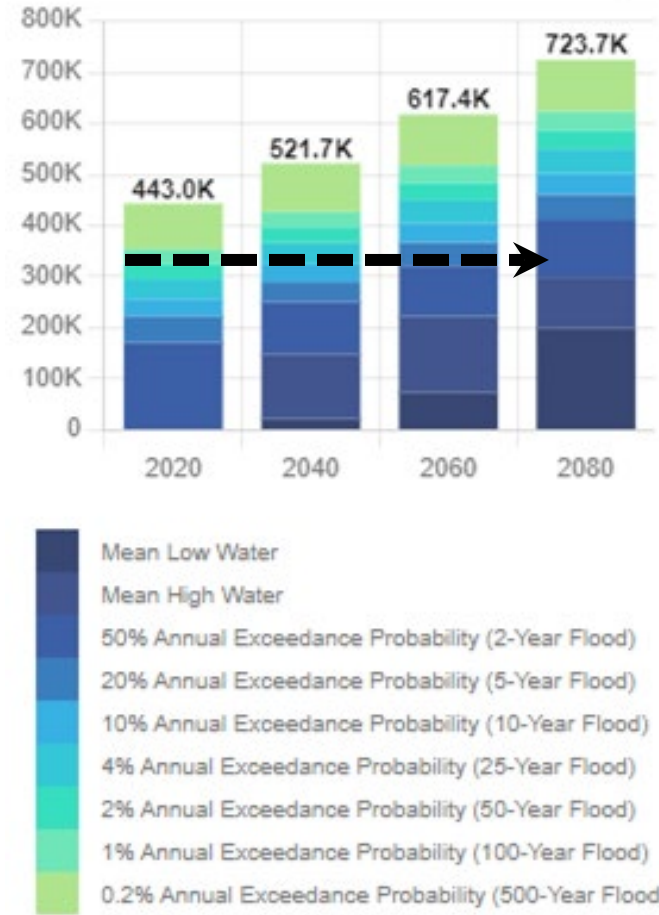
KEY ELEMENTS OF THE PLAN

- Current and future land exposure to coastal flooding hazards.
- Impacts of flooding on people and social, natural, and built assets.
- Inventory of locally-driven projects and initiatives that address flood resilience challenges.
- Inventory of grant and loan to assist regions and localities with securing financial resources.

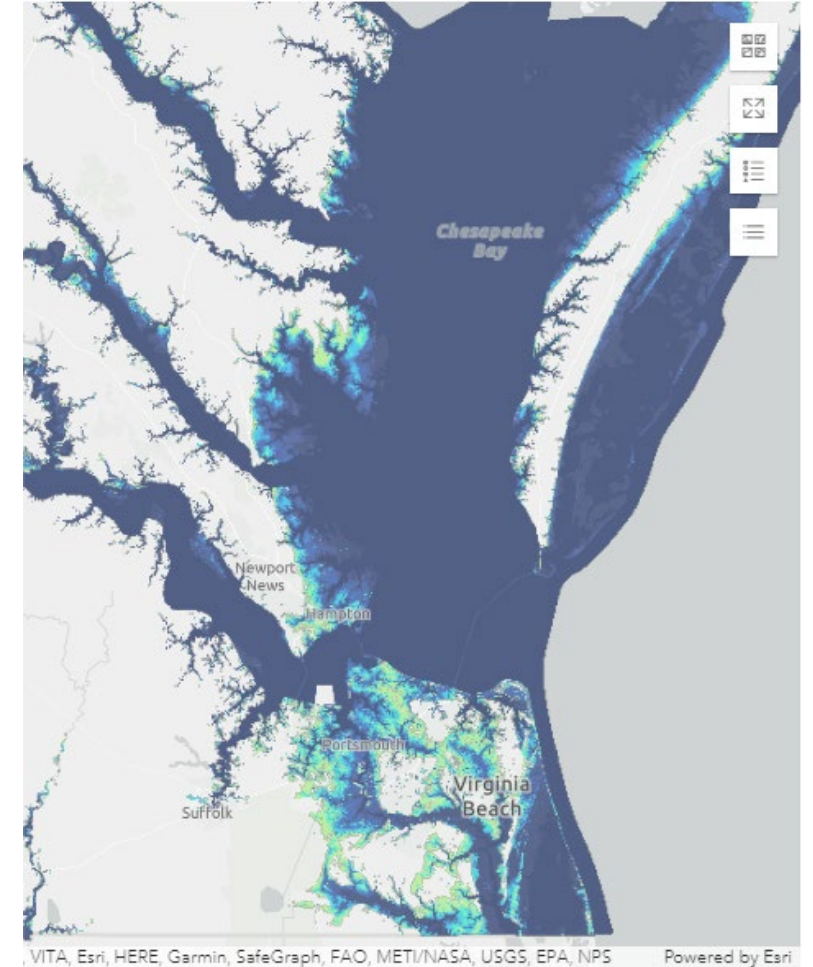


Findings of the Coastal Resilience Master Plan, Phase I

Acres of Land Area Inundated Across Flood Event Type



2020



2080

Findings of the Coastal Resilience Master Plan, Phase I

Between 2020 and 2080...



the number of **residents** living in homes exposed to major coastal flooding is projected to grow from approximately 360,000 to 943,000, an increase of **160%**.



the number of residential, public, and commercial **buildings** exposed to an extreme coastal flood is projected to increase by almost **150%**, from 140,000 to 340,000, while annualized flood damages increase by over **930%** from \$550 million to \$5.7 billion.

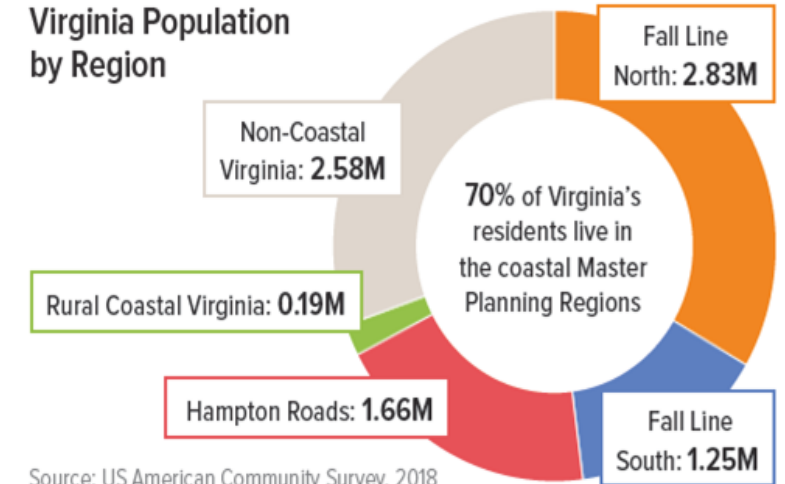


the number of miles of **roadways** exposed to chronic coastal flooding is projected to increase from approximately 500 to nearly 2,800 miles, an increase of **460%**.



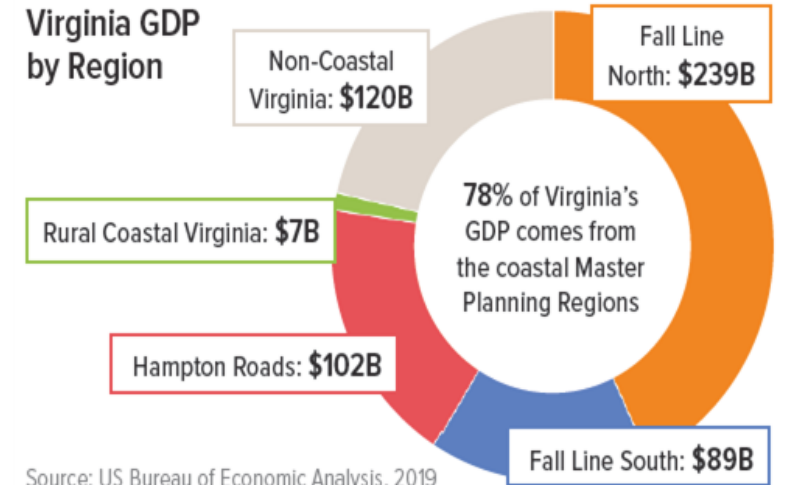
an estimated 170,000 acres, or **89%**, of **existing tidal wetlands** and 3,800 acres, or **38%**, of **existing dunes and beaches** may be permanently inundated, effectively lost to open water.

Virginia Population by Region



Source: US American Community Survey, 2018

Virginia GDP by Region



Source: US Bureau of Economic Analysis, 2019

Overview of the Coastal Resilience Master Plan

Phase II Update, Products, and Findings

Coastal Resilience Master Plan, Phase II

OUR CONSULTANT TEAM

Critical to the plan's development is the work of consulting consortium teams led by the following three companies:



INNOVATIONS OF THE PLAN

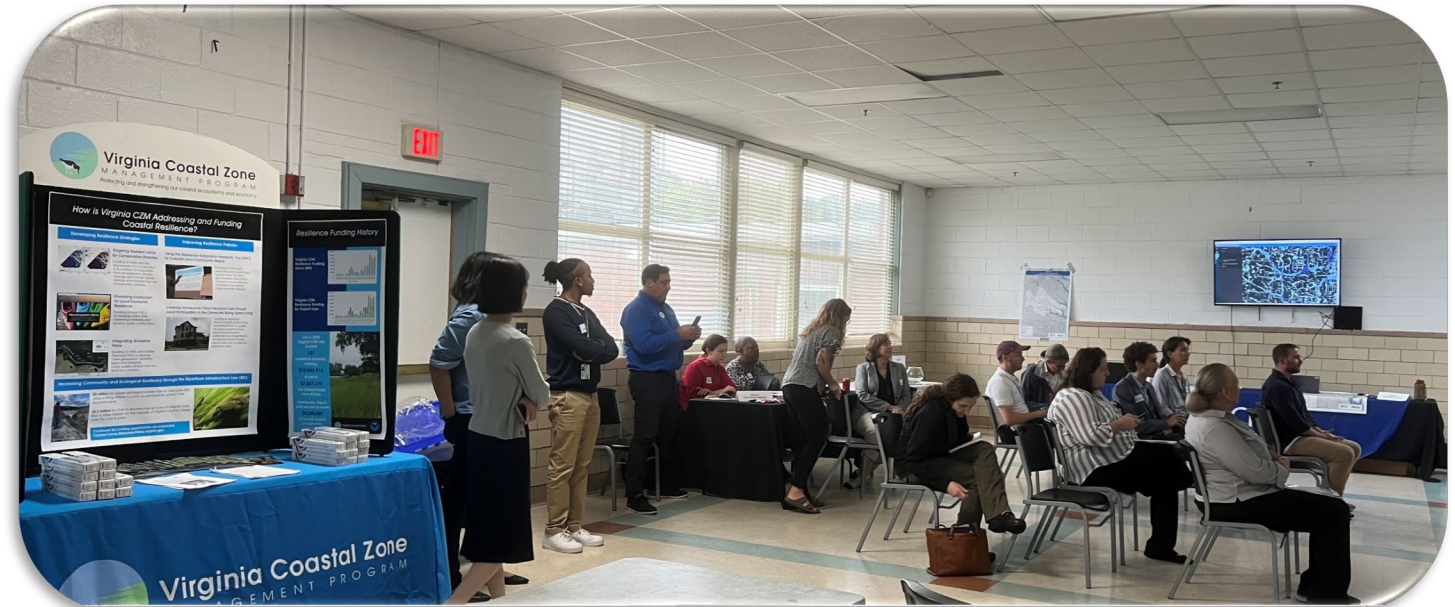
- Provide a picture of current and future rainfall-driven flooding based on climate forecasts.
- Forecast regional and local economic impacts of flooding. For example, the tax base implications of increasing flooding.
- Estimate, in dollar terms, how flooding is likely to impact the ability of natural resources to provide us with ecosystem services.
- Emphasize the development of recommendations of the Coastal Resilience Technical Advisory Committee for identifying next steps for flood resilience in coastal Virginia.

The Coastal Resilience Technical Advisory Committee (“TAC”) is a public body established by Code to advise and support the plan’s development and implementation. More than 35 organizations with relevant knowledge and a stake in the plan’s outcomes meet quarterly to receive plan updates and provide DCR with vital advice on planning decisions.

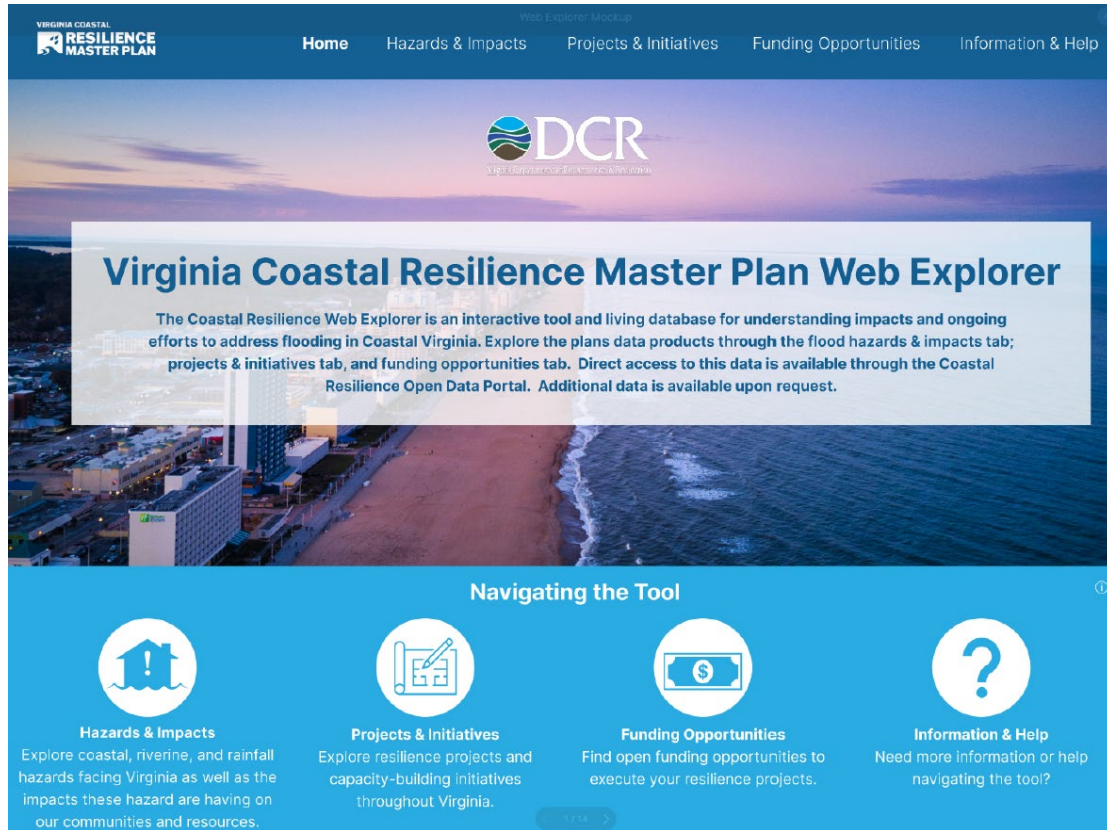
Enhanced Outreach and Engagement for a Better Plan

OUR GOALS FOR CONNECTING WITH STAKEHOLDERS

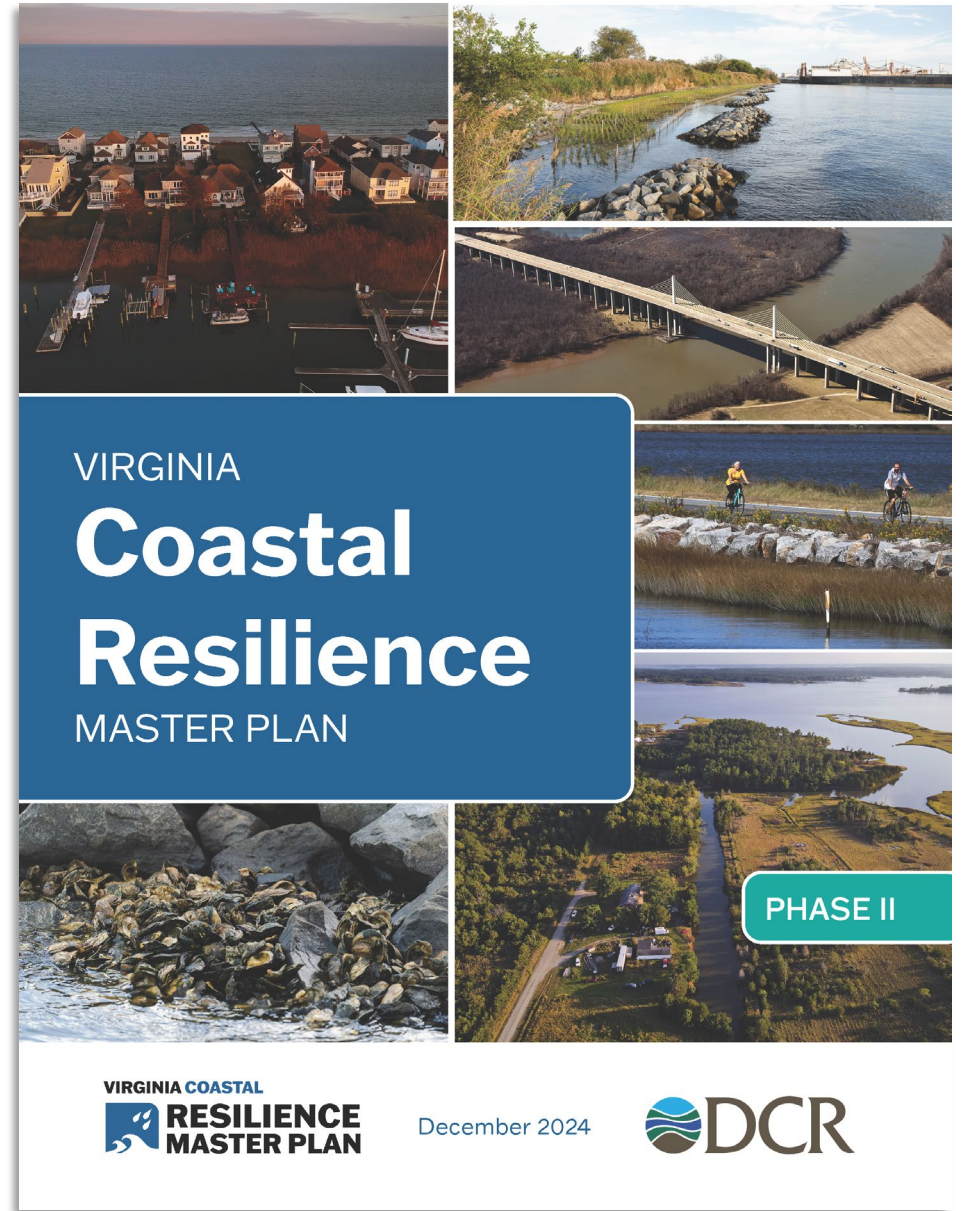
- Understand how our end-users would like to use the plan and associated products.
- Understand on-the-ground experiences with flooding to be able to present them alongside our modeled findings.
- Understand solutions to address flood risk and present them in the plan.
- Drive awareness of coastal flooding and encourage **whole community** action toward coastal flood resilience.



Our Plan Products



Coastal Resilience Web Explorer
Conceptual Draft Landing Page



Draft Plan Cover Page

Coastal Resilience Master Plan, Phase II: Plan Components

FLOODING IN COASTAL VIRGINIA

FLOOD HAZARDS

Where is flooding likely to occur in the future?

FLOOD IMPACTS

What impacts is flooding likely to cause in the future?

ADVANCING FLOOD RESILIENCE

FLOOD RESILIENCE SOLUTIONS

What projects and initiatives are underway to address flooding?

FINANCING FLOOD RESILIENCE

How much money is needed for flood resilience? What funding resources exist?

RECOMMENDATIONS OF THE COASTAL RESILIENCE TECHNICAL ADVISORY COMMITTEE

What actions should the state and other responsible parties take to continue addressing flooding in coastal Virginia over the next four years?

Major Sources of Flooding

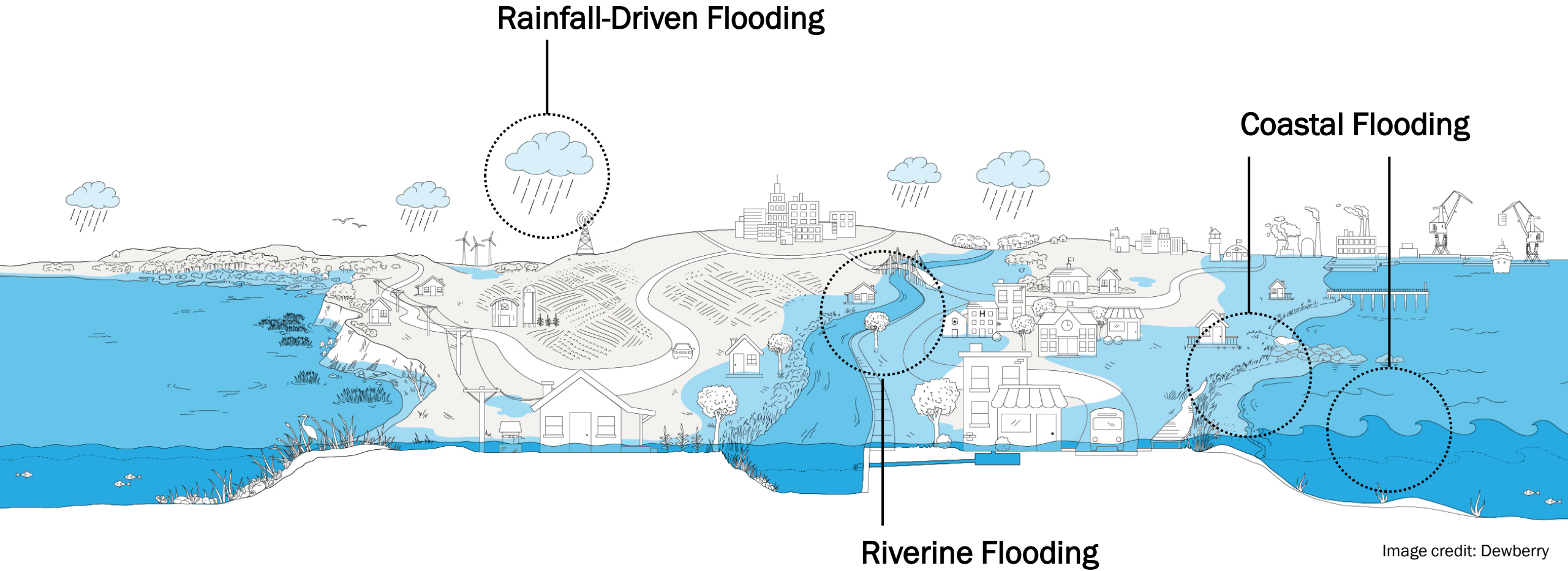
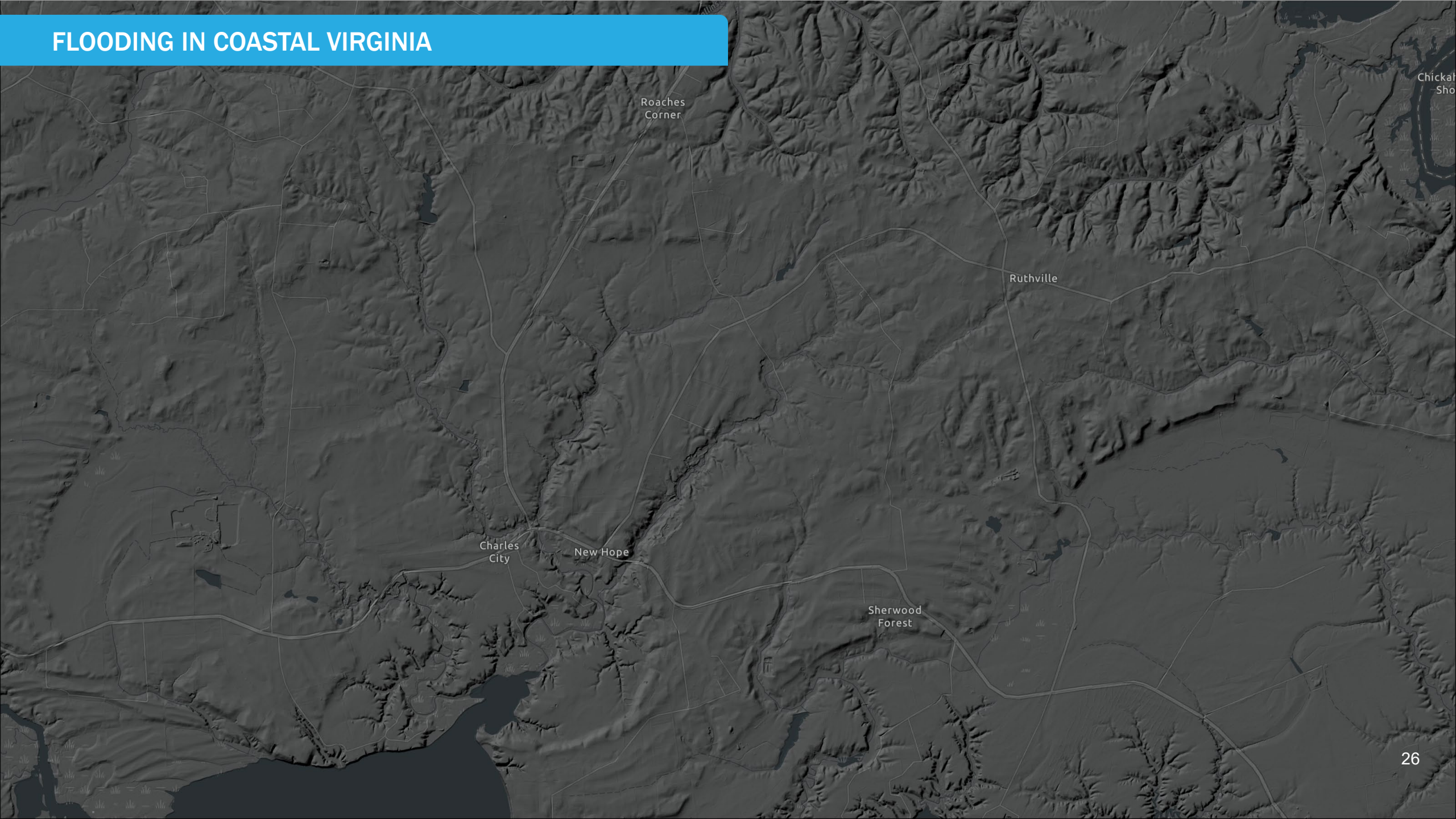


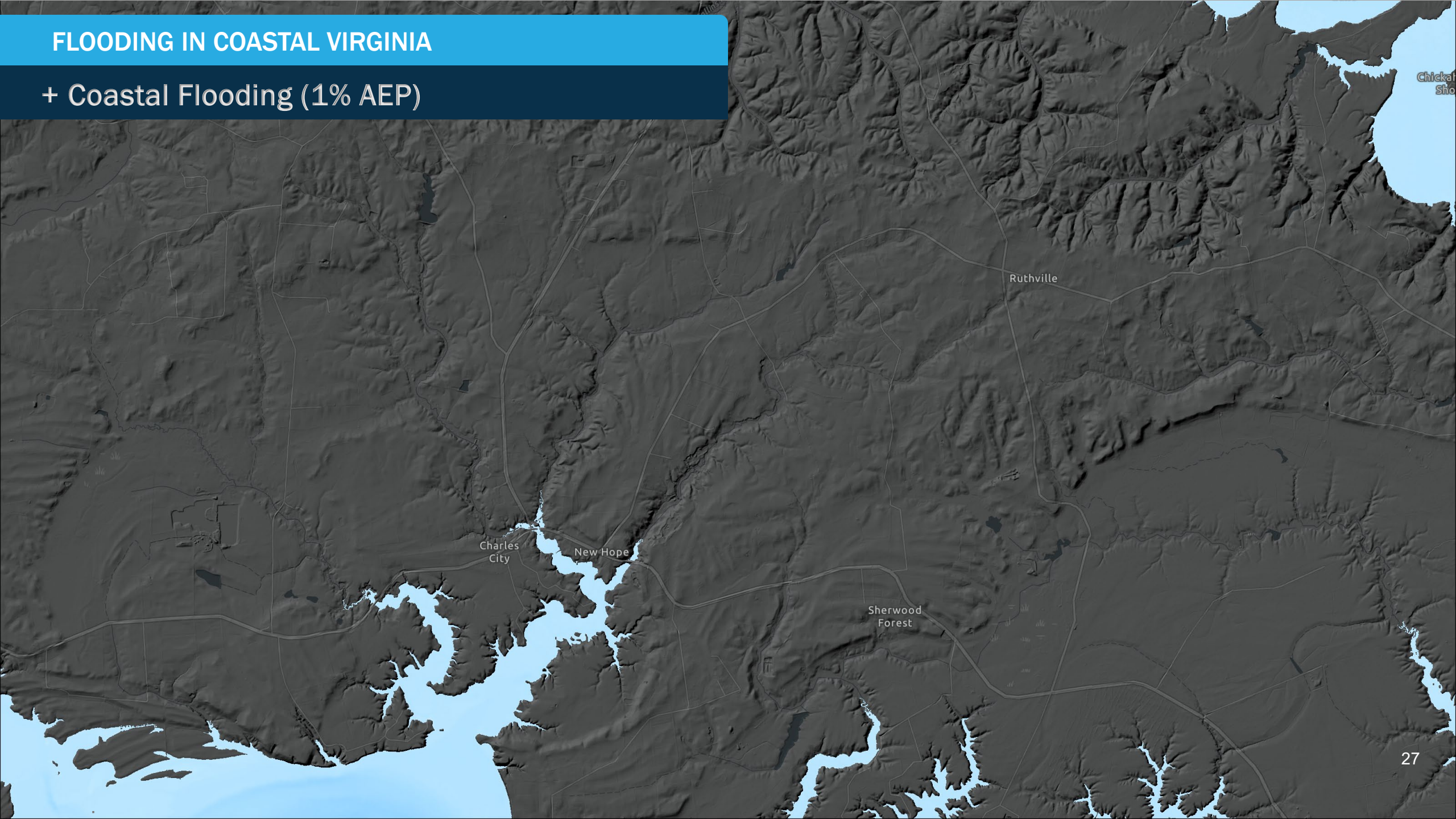
Image credit: Dewberry

FLOODING IN COASTAL VIRGINIA



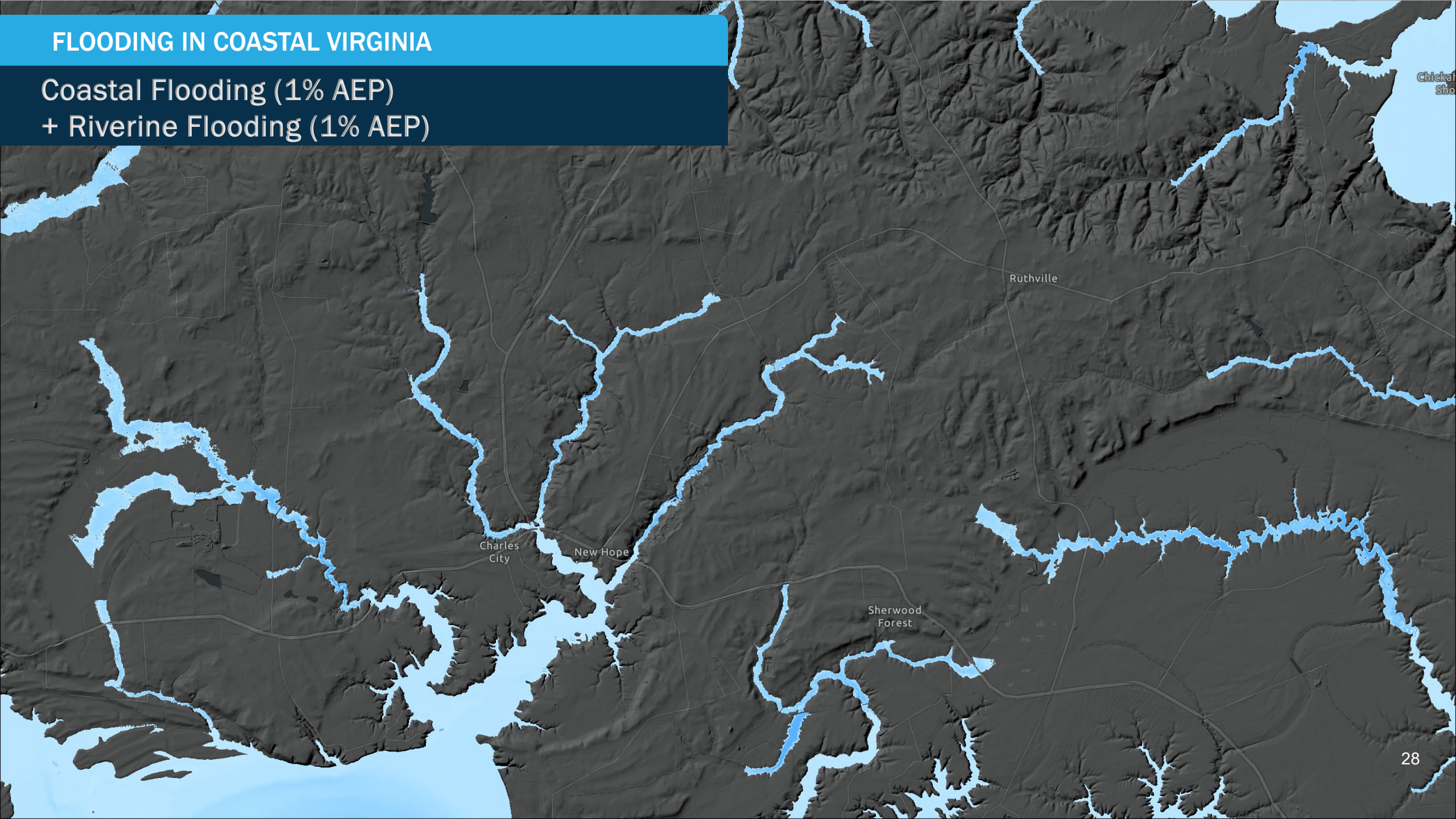
FLOODING IN COASTAL VIRGINIA

+ Coastal Flooding (1% AEP)



FLOODING IN COASTAL VIRGINIA

Coastal Flooding (1% AEP)
+ Riverine Flooding (1% AEP)

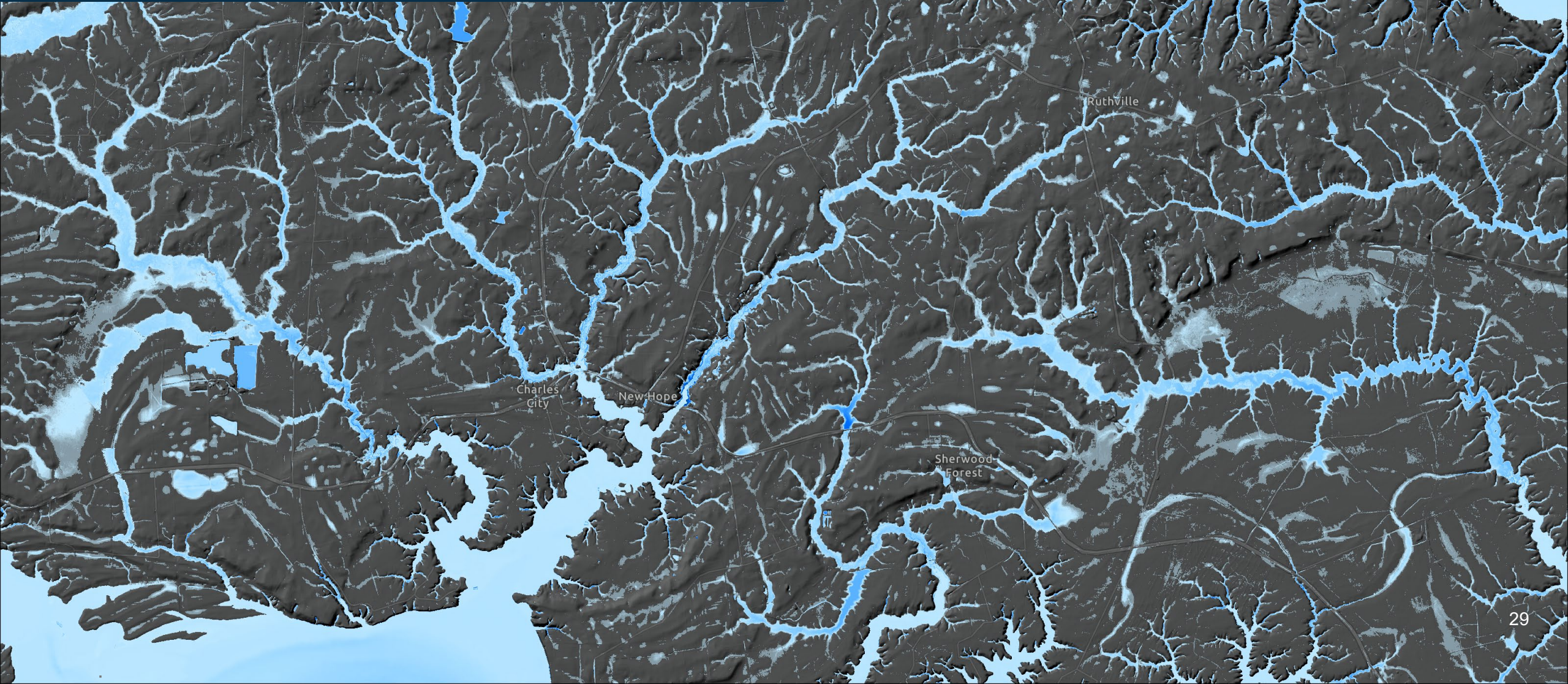


FLOODING IN COASTAL VIRGINIA

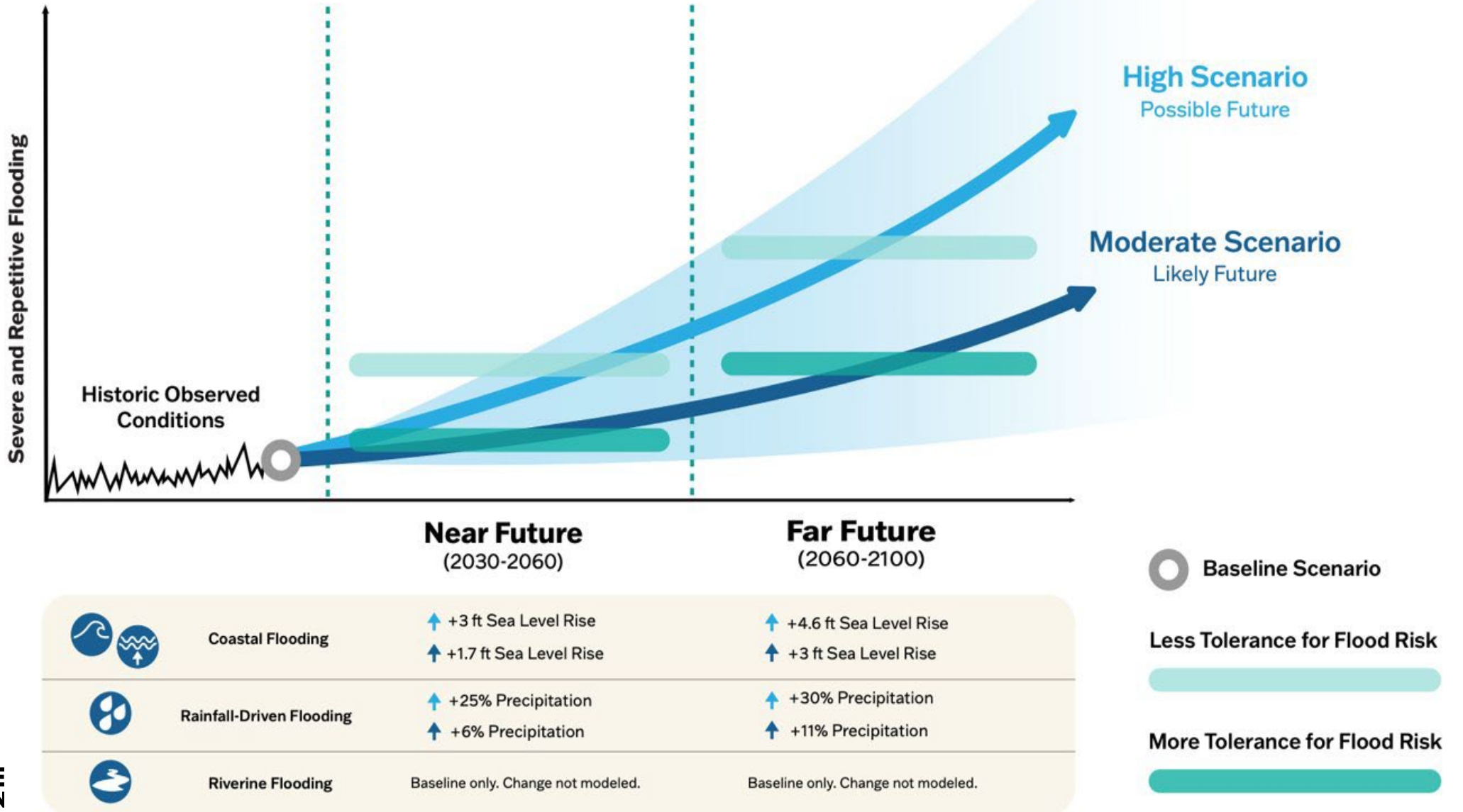
Coastal Flooding (1% AEP)

Riverine Flooding (1% AEP)

+ Rainfall-Driven Flooding (1% AEP)



Forecasting Future Flooding with “Planning Scenarios”



Understanding Flood Impacts

Multiple Flood Hazard Types



Coastal



Rainfall



Riverine

Multiple Planning Scenarios



Multiple Asset Types



Community Resources



Built Infrastructure



Human Infrastructure



Natural Infrastructure

Participant Poll – Flooding Impacts

1. What day should we host the next Webinar?

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday

Anonymous

Save

SAMPLE

Please respond to the anonymous poll that appears on your screen

Initial Findings from Phase II

COASTAL FLOODING

Coastal flooding is expected to **increase significantly** in some areas of the region in the long-term. The land area likely to be flooded in a **1% annual chance flood** is expected to increase from **300,000 acres** to **more than 635,000 acres** under the long-term, moderate scenario.

About 65% of that land area is currently occupied by primarily natural resources or vegetation.



RAINFALL-DRIVEN FLOODING

Models show that **rainfall-driven flooding** may already **annually inundate more than 6%** of the land area. This area, totaling more than 450,000 acres, is about 85% natural or vegetated.

In the far future, moderate scenario, we expect this annual exposure to **increase to about 9% of land area (650,000 acres)**. Of this 81% is presently natural or vegetated.



RIVERINE FLOODING

The plan does not include **future-looking forecasts for riverine flooding**.

During the baseline scenario major flood event, **7.4% of land area in the coastal region – more than 547,000 acres – is exposed to riverine flooding**.

Almost 80% of that area is primarily natural or vegetated.



Initial Findings from Phase II on Federal Facilities Lands

- The impact of **coastal flooding on federal and state government facilities** is anticipated to **increase from over 3%** of facilities impacted annually in the present scenario to **over 14%** of facilities impacted annually in the far future (low risk) scenario **if no action is taken**.
- **Rainfall-driven flooding impacts** to federal and state government facilities in the Northern Virginia Regional Commission region is anticipated to **nearly double in the far future**.
- By the far future scenario, **federal lands are expected to have the most average annual coastal flooding**, with **51,000 acres flooded**, which represents an increase from 5.2% of lands flooded at present to 13.3% in the far future.
- In HRPDC, coastal flooding is predicted to lead to over **\$930 million in annual losses** due to flooding of federal facilities if no action is taken.

How to use the Flood Hazard Impact Assessment Findings

- Use the Coastal Resilience Web Explorer (CRWE) to find your site location and assess your flood risk.
- Review the potential financial and economic impact of flooding on federal lands.
- Make informed decisions on site selection and expansion planning.
- Better understand community flooding context for more informed engagement.
- Inspire businesses and individuals to understand flood risk and take resilience action.

The screenshot shows the homepage of the Virginia Coastal Resilience Master Plan Web Explorer. At the top, there is a navigation bar with links for Home, Hazards & Impacts, Projects & Initiatives, Funding Opportunities, and Information & Help. The main header features the DCR logo and the title "Virginia Coastal Resilience Master Plan Web Explorer". Below the title, a text box explains that the tool is an interactive database for understanding impacts and ongoing efforts to address flooding in Coastal Virginia. The background of the page is a scenic view of a coastal town at sunset. At the bottom, a blue section titled "Navigating the Tool" contains four icons and their corresponding descriptions: Hazards & Impacts (house with exclamation mark), Projects & Initiatives (calendar with pencil), Funding Opportunities (dollar bill), and Information & Help (question mark).

Virginia Coastal Resilience Master Plan Web Explorer

The Coastal Resilience Web Explorer is an interactive tool and living database for understanding impacts and ongoing efforts to address flooding in Coastal Virginia. Explore the plans data products through the flood hazards & impacts tab; projects & initiatives tab, and funding opportunities tab. Direct access to this data is available through the Coastal Resilience Open Data Portal. Additional data is available upon request.

Navigating the Tool

- Hazards & Impacts**
Explore coastal, riverine, and rainfall hazards facing Virginia as well as the impacts these hazard are having on our communities and resources.
- Projects & Initiatives**
Explore resilience projects and capacity-building initiatives throughout Virginia.
- Funding Opportunities**
Find open funding opportunities to execute your resilience projects.
- Information & Help**
Need more information or help navigating the tool?

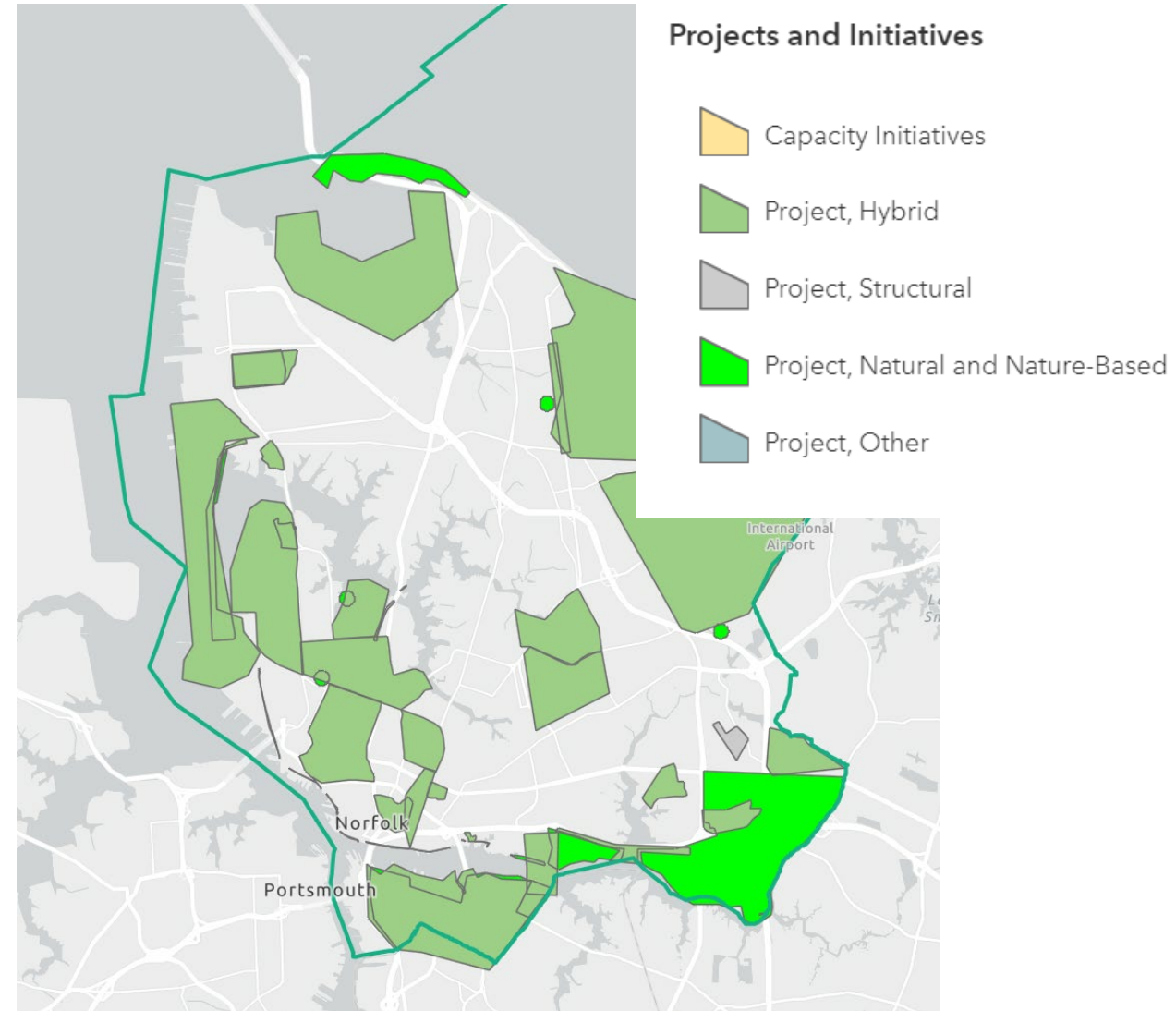
Projects and Initiatives

Programs, studies, plans or projects located in coastal Virginia which are led or supported by the government. They have a primary purpose to address the impacts of flooding on people, the environment or the economy.

The Coastal Resilience Web Explorer serves as the “living” inventory of these projects and initiatives.

How to Leverage the Projects and Initiatives Inventory:

- Understand where flooding occurs and what localities are doing to mitigate it.
- Encourage coordination across federal, state, regional, and local agencies to enhance flood resilience.
 - *EX: A federal facility may partner with a local government to upgrade stormwater infrastructure. This project could help protect both public and private properties from flooding.*
- Gain insights into best practices and case studies for project development.

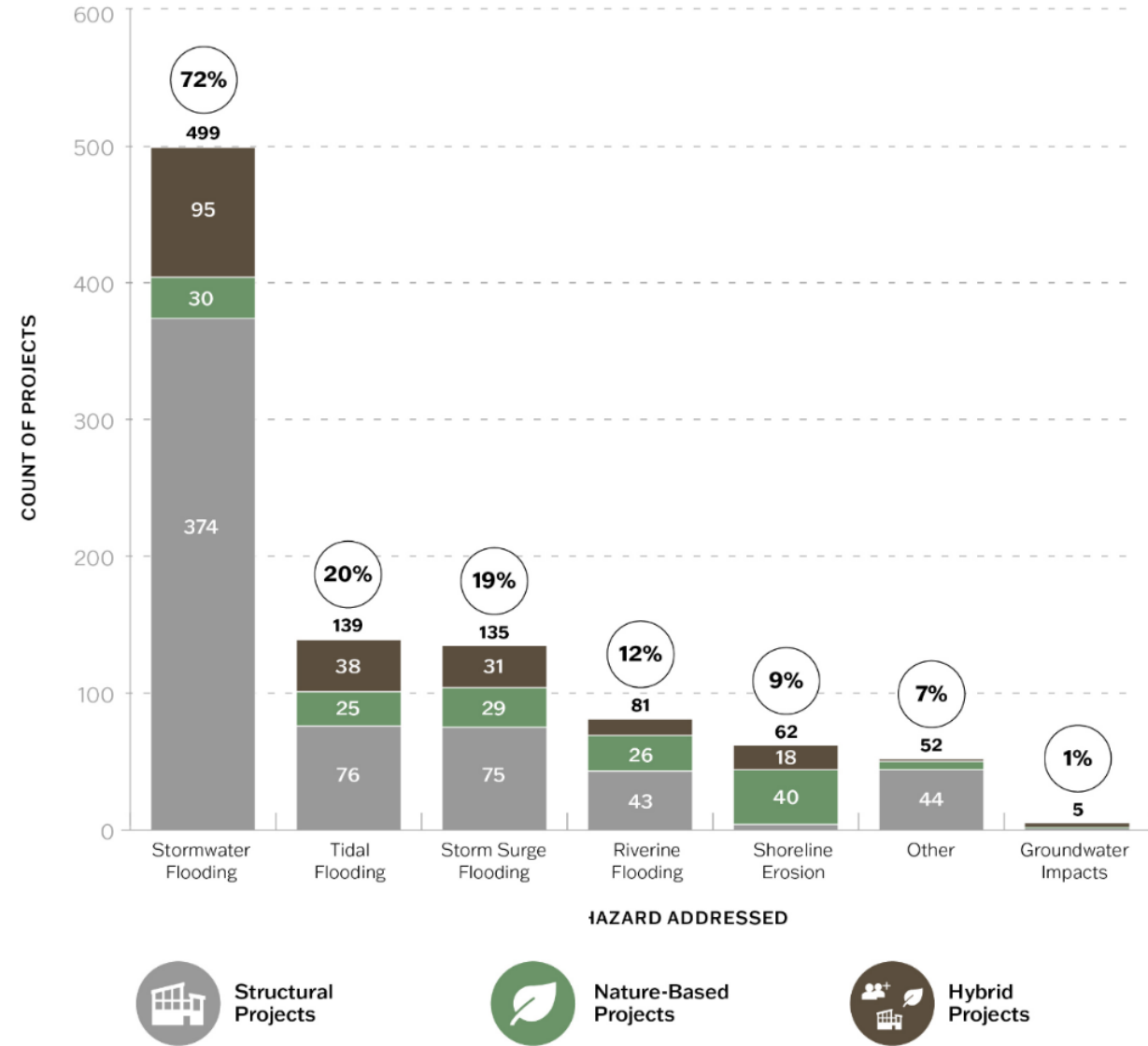


Projects in Norfolk, VA in the Coastal Resilience Web Explorer

Projects and Initiatives Analysis

Region Name	No. Projects & Initiatives	Project Costs	Initiative Costs	Funding Awarded*
Accomack-Northampton	87	\$43 M+	\$21 M+	\$1.7 M+
Crater	22	\$30M+	\$1 M+	\$8.4 M+
George Washington Regional	37	\$27 M+	\$17 M+	\$97 K+
Hampton Roads	543	\$6.9 B+	\$224 M+	\$93 M+
Middle Peninsula	22	\$1.1 B+	\$419 K+	\$1.9 M+
Northern Neck	7	\$6 M+	\$737 K+	\$183 K+
Northern Virginia	84	\$548 M+	\$304 M+	\$31 M+
Plan RVA	129	\$225 M+	\$930 K+	\$13 M+

*Funding awarded includes grants provided via the Community Flood Preparedness Fund (2021 – July 2024) and by the Virginia Department of Emergency Management between (2018 – July 2024)



Example Flood Resilience Projects

FLOODED ROADWAY TRAFFIC GATE

Project Type: Structural/Flood Risk Reduction

Prince William County implemented a tool that tracks and monitors real-time flood conditions. Through this system, the roads that are unsuitable for travel are closed. More high-water detection equipment will be installed in the most vulnerable areas in the County. The system includes rainfall and stream summaries, display thresholds, and alarms to support public safety and situational awareness.



Flooded road gate system example (Source: Versilis)

KENT GARDENS NEIGHBORHOOD STORMWATER IMPROVEMENT

Project Type: Community Infrastructure/Drainage Improvement

This stormwater improvement project in Fairfax County aims to assess a concrete channel network impacting the Kent Gardens Neighborhood. This project has various goals including targets for localized flooding, addressing public safety, and erosion, and community collaboration to develop and maintain solutions.



A concrete channel near Kent Gardens (Source: Fairfax County)

Example Flood Resilience Initiatives

ONANCOCK HISTORIC WHARF PRESERVATION AND PROTECTION PLAN

Action Owner: Town of Onancock

The Town of Onancock and the County of Accomack are working to develop a plan to guide resilience improvements and adaptation options to the historic wharf that faces lunar tide flood events. The area is both an active and an economic driver in recreation.



Onancock Historic Wharf and Marina (Source: Water Way Guide)

THE RAFT: MAINTAINING PROGRESS IN COASTAL VIRGINIA

Action Owner: University of Virginia, Old Dominion University, Virginia Tech, and community partners

The Resilience Adaptation Feasibility Tool (RAFT), developed by an interdisciplinary academic collaborative aids coastal communities in Virginia towards resilience improvement and targeting hazards created by coastal storms. The RAFT considers both economic and social factors in the assessment process.



Flooding in a RAFT target area (Source: University of Virginia)

Participant Poll – Resilience Actions

1. What day should we host the next Webinar?

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday

Anonymous

Save

SAMPLE

Please respond to the anonymous poll that appears on your screen

Recommendations of the Coastal Resilience Technical Advisory Committee

- Each subcommittee of the TAC is collaboratively developing recommendations to improve mitigation of severe and repetitive flooding in the coastal region.
- The Committee members will vote on the highest priority recommendations at their final meeting on November 13, 2024.
- DCR’s Office of Resilience Planning will develop a strategy for adaptively implementing the plan after it’s release, to include a strategy for advancing the final priority recommendations.

EXAMPLE ILLUSTRATIVE RECOMMENDATION

The DCR Office of Resilience Planning should develop and maintain a comprehensive list of available funding resources which can be leveraged to sustainably support uptake and implementation of the Coastal Resilience Master Plan.



Research, Data and Innovation



Project Prioritization



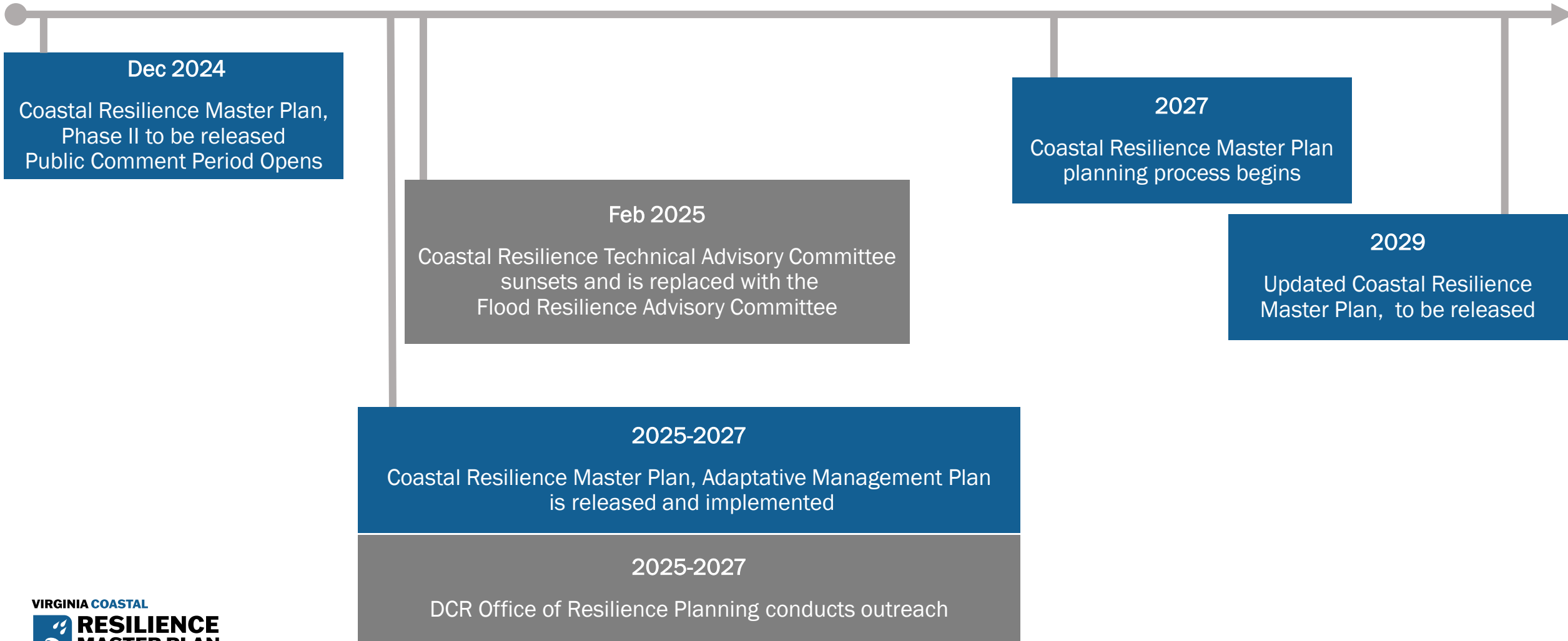
Funding



Outreach & Coordination

Coastal Resilience Master Planning in Virginia, Looking Forward

This timeline shows major milestones in flood resilience planning for coastal Virginia over the next 5-year planning cycle.



Stay Involved in the Plan

ATTEND OUR NEXT ROUND OF WEBINARS

- Two more public webinars coming when the plan is released. (Anticipated January 2025)
- Receive updates on the final plan and information about public comment.

PARTICIPATE IN PUBLIC COMMENT

- Provide your thoughts on the plan and ideas for improvement.
- Plan will be posted to Virginia Town Hall for a 45-day public comment period.

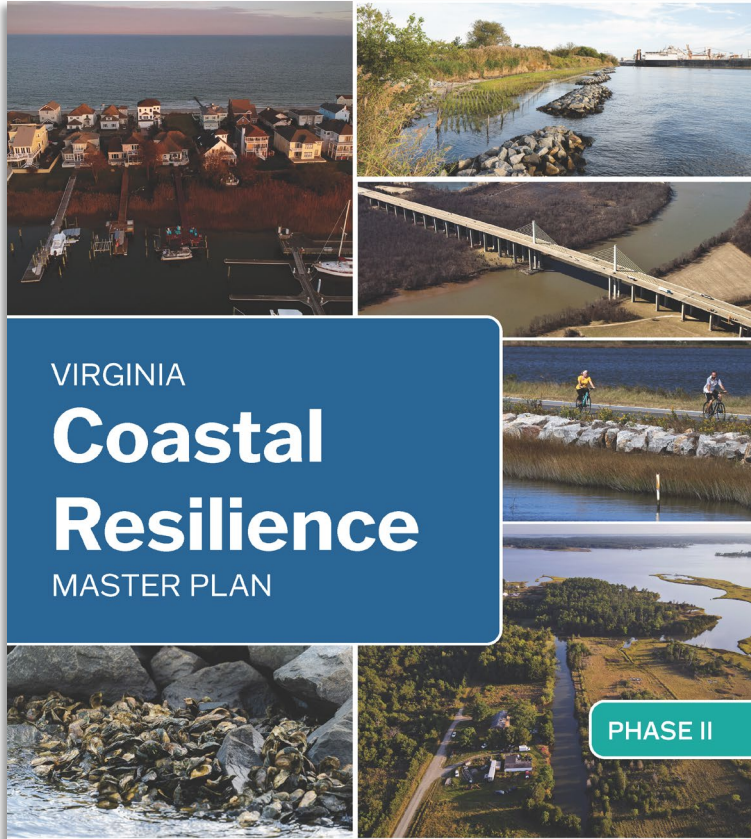
SHARE YOUR FLOOD STORY

- Visit DCR's web app to submit photos and info about your experiences with flooding to help inform our plans.



<http://www.dcr.virginia.gov/floodstory>

Access the Plan

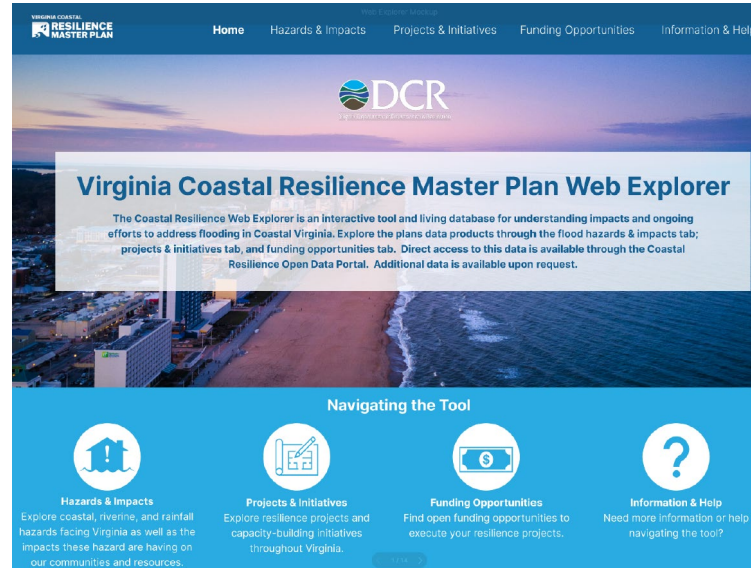


VIRGINIA COASTAL
**RESILIENCE
MASTER PLAN**

December 2024

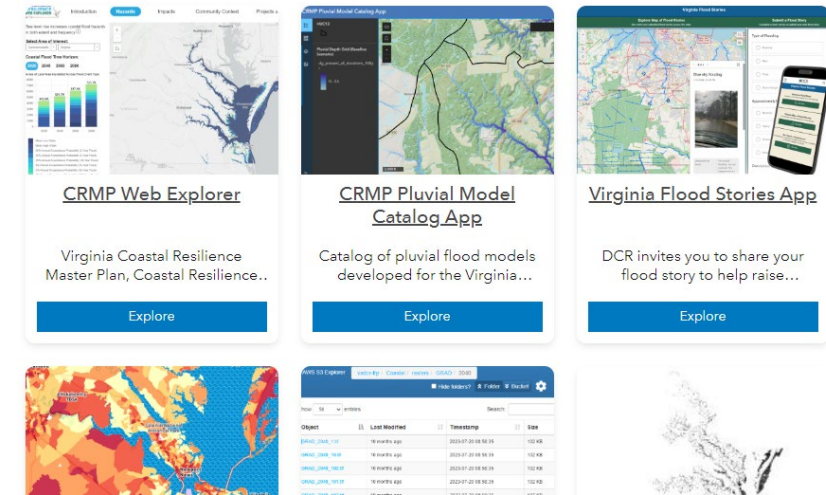


PDF PLAN DOCUMENT



COASTAL RESILIENCE WEB EXPLORER

DCR Virginia Coastal Resilience Master Plan, Open Data Portal



OPEN DATA PORTAL

Thank you!



Sign up for our Newsletter

dcr.virginia.gov/signup

Visit us Online

dcr.virginia.gov/resilience-planning

Send us an Email

flood.resilience@dcr.virginia.gov



SENTINEL LANDSCAPES & THE VIRGINIA SECURITY CORRIDOR:

An Overview



Mary Bennett

Tidewater Sentinel Landscape Coordinator

October 3rd, 2024

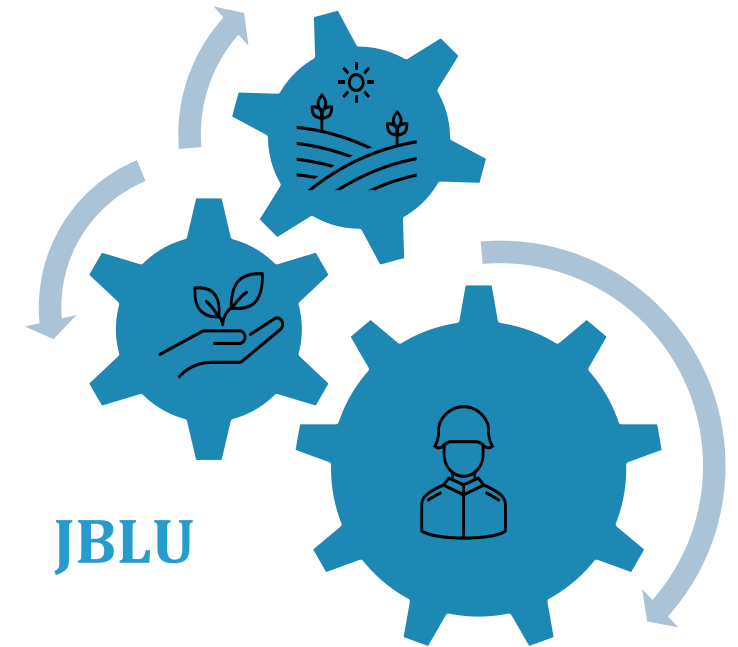


SENTINEL LANDSCAPES



What is a Sentinel Landscape?

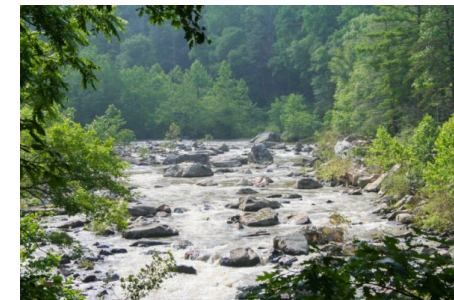
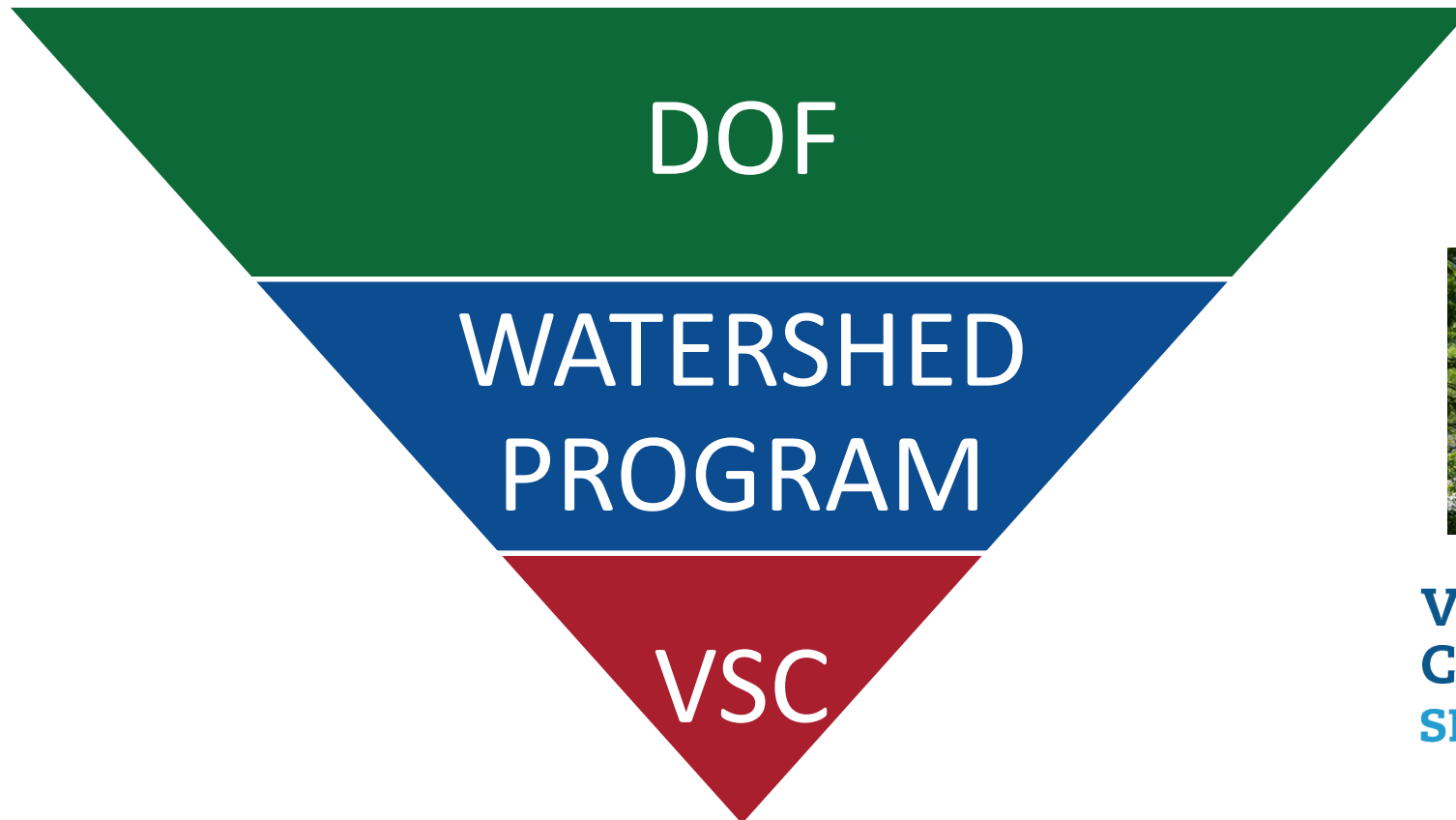
- ★ Sentinel landscapes are areas where **conservation**, **working lands**, and **national defense** interests converge.
 - ▶ Anchored by High Value Military Installation.
 - ▶ High priority lands for USDA, DOD, DOI and FEMA.



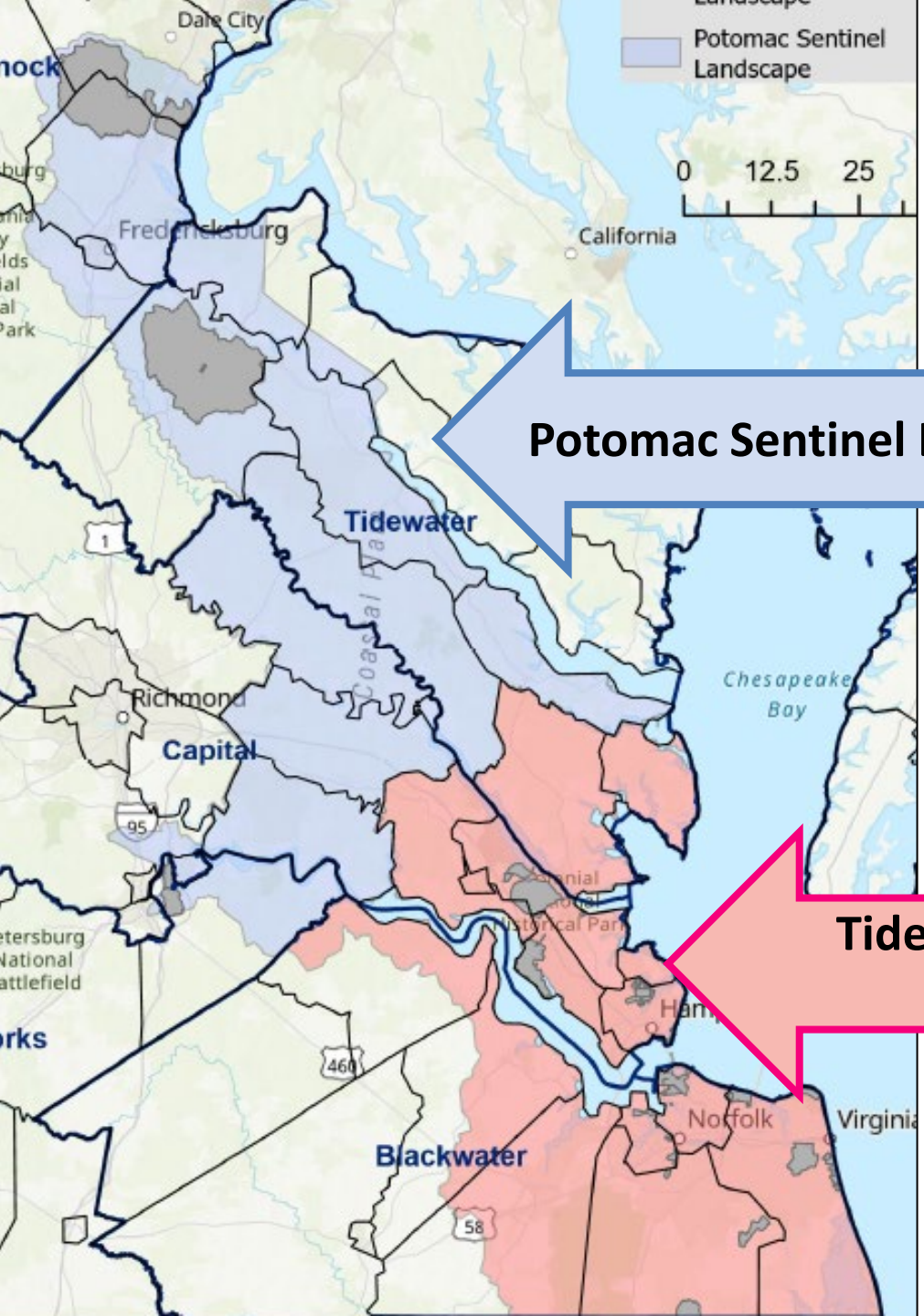
VIRGINIA SECURITY CORRIDOR



Why the Department of Forestry?



**VIRGINIA SECURITY
CORRIDOR**
SENTINEL LANDSCAPE



Potomac Sentinel Landscape

Tidewater Sentinel Landscape

VIRGINIA SECURITY CORRIDOR SENTINEL LANDSCAPE



VIRGINIA SECURITY CORRIDOR



Lines of Effort

- ★ Prevent Encroachment
- ★ Build Resilience Against Natural Hazards
- ★ Conserve and Restore Key Habitats
 - ★ To Benefit Water Quality and T&E Species



VIRGINIA SECURITY CORRIDOR



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Questions and Discussion

Feedback Poll