# Virginia Coastal Resilience Technical Advisory Committee Quarterly TAC Meeting Agenda

Date: Thursday, March 16, 2023

Time: 10:00 AM

Location: William & Mary

School of Education, Matoaka Woods Room 301 Monticello Ave, Williamsburg, VA 23185

Virtual Public Access: Register at <a href="https://attendee.gotowebinar.com/register/2784592790431000154">https://attendee.gotowebinar.com/register/2784592790431000154</a>

# Meeting Agenda

- 1) Call to Order, Roll Call, and Introductions
- 2) Adoption of Meeting Minutes from December 01, 2022
- 3) VDOT Resilience Plan Presentation and Discussion
- 4) Reports from DCR
  - a. Virginia Coastal Resilience Master Plan Update
  - b. Community Outreach and Engagement Plan Update
  - c. Resilience Coordination Working Group Update
- 5) TAC Subcommittees Establishment
- 6) Old Business
  - a. TAC Member Discussion
- 7) New Business
  - a. TAC Member Discussion
- 8) Public Comment
- 9) Adjourn

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Public Comment: If you seek to provide public comment, please sign up either in-person or virtually using the Chat window.



# **VDOT RESILIENCE PLAN**

Coastal Resilience Master Plan Technical Advisory Committee

Chris Berg, Director, Office of Transportation Sustainability

3/16/2023

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# **Changing Environmental Conditions**

### Hazards and Threats

- Temperature
- Sea Level Rise
- · Increased Precipitation
- Extreme Weather Events
- Rockfall & Slope Failures

### **Impacts**

- Asset deterioration and failure
- Operational, maintenance and emergency management challenges
- Need to identify cost-effective solutions
- Shifting migration patterns, habitat, etc.





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# **Virginia Planning Efforts**

### Commonwealth Planning

- Virginia Coastal Resilience Master Plan
- Virginia Flood Protection Master Plan
- Virginia State Hazard Mitigation Plan
- Resilience Coordination Working Group

# VIRGINIA COASTAL RESILIENCE MASTER PLAN PHASE 1 DECEMBED 2001 PROTECTION MASTER PLAN

### Local Planning

- Fairfax, Norfolk, Virginia Beach
- NVRC, HRPDC, MPPDC, etc.
- > VDOT plan needed to inform and align agency, local planning efforts

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# **Need for Transportation Resilience**

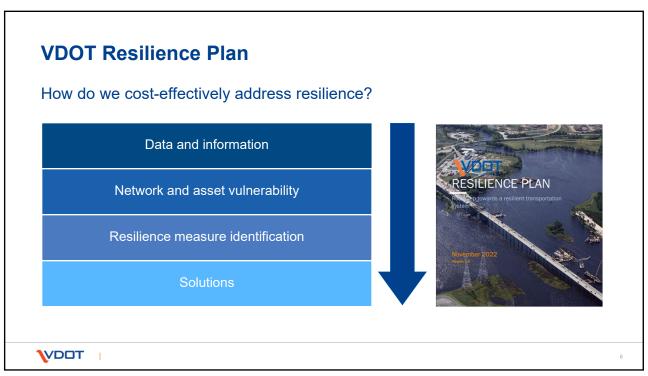
**Resilience** is the capability of a transportation project or strategy to anticipate, prepare for, respond to, or recover from significant multi hazard threats with minimum damage and disruption to the transportation network, while preserving and incorporating natural and built infrastructure that helps to mitigate these threats.



Incorporate resilience into existing business practices

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Resilience Plan Objectives

1. Promote Data Driven Decisions

2. Authoritative Datasets

3. Identify research and data needs and gaps

3. Resilience Research Committee

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# **Resilience Plan Objectives**

### 2. Engage & Coordinate with Stakeholders

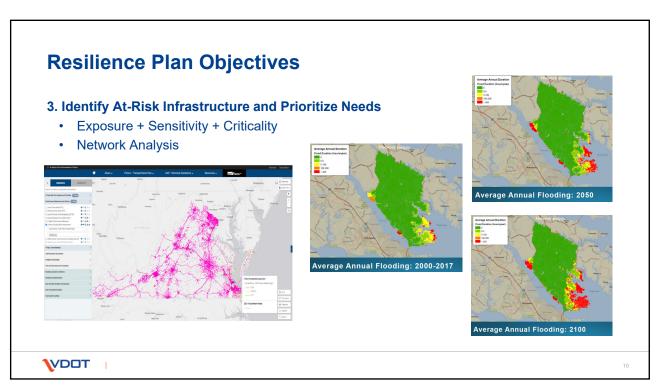
- Department of Conservation and Recreation VA Coastal Resilience Master Plan Technical Advisory Committee
- · Hampton Roads Planning District Commission Working Group
- · Northern Virginia Regional Commission Working Group
- · Fairfax Infrastructure Advisory Group
- · Transportation Research Board Working Group
- · State Hazard Mitigation Plan Technical Advisory Committee and Working Group
- Federal Highway Administration
- · Other State Agencies
- · Metropolitan Planning Organizations and Localities
- · Universities
- · NGOs and Advocacy Groups
- Public



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# **Resilience Plan Objectives**

### 4. Finalize Resilience Measures

I. Adaptive Design Criteria

Enhance Criteria for Identified At-Risk Infrastructure, incorporating forward looking conditions

- · Structure and Bridge
  - Chapter 33: Consideration of Climate Change and Coastal Storms (Feb 2020)
- Hydraulics, VDOT Drainage Manual
- · Materials, Manual of Instruction

II. Other Physical Enhancement Measures

Flood Barriers

III. Natural and Nature-Based Solutions

- · FHWA Coastal Natural and Nature Based
- FHWA Riverine Natural and Nature Based

IV. Operational, Maintenance, and Emergency Management

- Early Warning Devices (Sensors)
- · Evacuation Routes
- Damage Assessments
- Floodcast (NCHRP)

V. Administrative and Policy Measures



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# **Resilience Plan Objectives**

### 5. Feasibility and Cost Benefit Analyses

- · Feasibility Analysis
- · Benefit Cost Analysis (BCA)
- Lifecycle Cost Analysis (LCCA)

### 6. Funding Opportunities

- Building Infrastructure Resilient Communities (BRIC) Grants, FEMA
- BIL/IIJA (PROTECT)



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# **PROTECT Program**

# Promoting Resilient Operations for Transformative, Efficient, and Cost-**Saving Transportation**

- Planning Activities, including Resilience Improvement Plan (RIP) development
  - o Vulnerability assessments, technical capacity building, evacuation planning
- Resilience Improvements
  - o Flood mitigation, drainage improvements, roadway realignment
- · Community Resilience
  - Evacuation route improvements
- · At Risk Coastal Infrastructure
  - Strengthening, stabilizing, hardening, elevating, and relocating infrastructure



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# **Next Steps**

- Continue coordination with Federal, State, and local agencies, MPOs
- Continue coordination with counterpart DOTs
- Outreach and engagement with communities, stakeholder groups
- Continue strategy development and implementation
  - Data and research
  - Identification of at risk infrastructure
  - Resilience measures
    - Planning
    - o Design
    - o Operations and maintenance
    - o Emergency management
  - Benefit Cost and Life Cycle Analyses

VIrginia Department of Transportation

# **VDOT Resilience Contacts**

# **Chris Berg**

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# Maria Mutuc, PE

Resilience Program Manager

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# Coastal Resilience TAC

DCR Update 03/16/2023

03/16/2023

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Virginia Department of Conservation & Recception

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# **Presentation Outline**

- Coastal Resilience Master Plan Update
- Community Outreach and Engagement Plan Update
- Resilience Coordination Working Group Update
- TAC Subcommittees

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# Virginia Coastal Resilience Master Plan Update

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# Coastal Resilience Master Plan Update

### Phase 2 Code Requirements

- SACAP in coordination with DCR, shall update the Virginia Coastal Resilience Master Plan no later than December 31, 2024 (every 5 years thereafter)
- CRMP shall be a place-specific plan for mitigating severe and repetitive flooding and shall [adhere to the Framework Principles]
- Phase 2 will incorporate:
  - all major flood hazards, including precipitation-driven flooding
  - a comprehensive risk assessment of critical human and natural infrastructure
  - a list of all projects considered and an update of the status of all projects previously implemented
- Phase 2 will implement the Community Outreach and Engagement Plan

[2022 GA HB516/SB551 now §10.1-658, 659]

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# Coastal Resilience Master Plan Update

# Phase 2 Status Update

- Dewberry Contract
  - Project Database Web Application
  - Funding Database Web Application
  - Pluvial Modeling
  - Updated Impact Assessment
  - Updated Impact Assessment Report
  - Updated Web Explorer

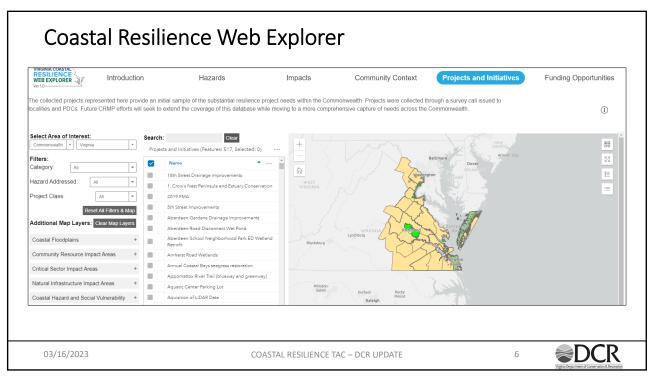
- Additional Efforts Needed via RFP
  - Community Outreach and Engagement
  - Major Flood Hazard Riverine
  - Phase II Planning and Plan Development

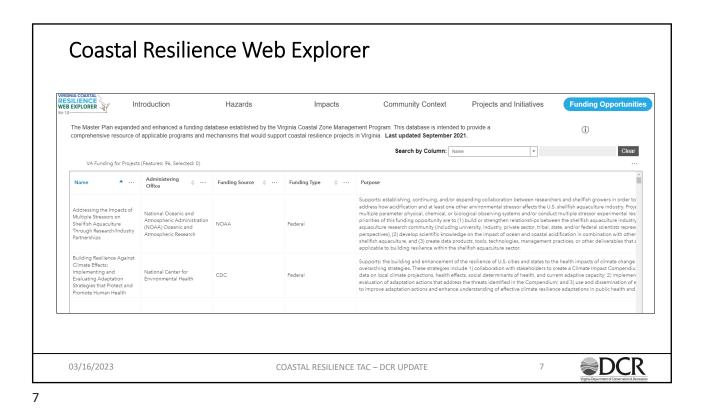
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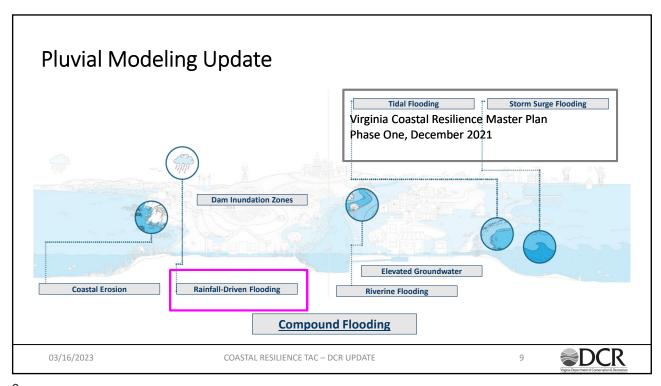


# Project/Funding Database Web Application

- Provide online access to <u>Resilience Project and Initiatives</u> and <u>Funding Opportunities</u> to develop, revise, and archive entries.
- · Participant users approved by project owners can maintain projects and initiatives
- · DCR managers and other approved participant users can maintain resilience funding opportunities
- · All entries submitted to DCR for approval prior to publishing on Web Explorer
- · Monitor and coordinate planned and implemented resilience actions
- Estimated completion early September 2023
  - · Mock-up and Design: Complete
  - Developing: In-progress
  - Stakeholder Input Group Testing: June/July
  - Deployment: August/September

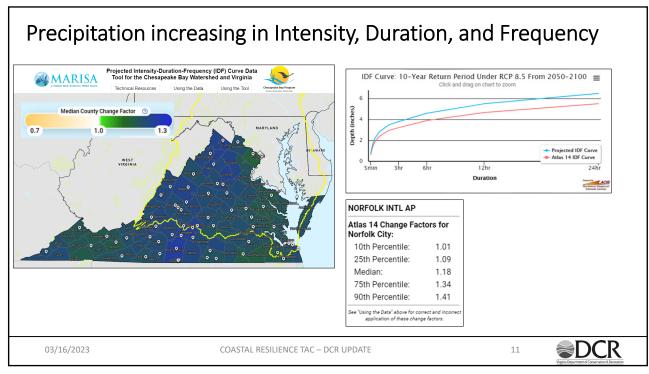
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### Master Plan Centralized Survey Results Flood Hazard Priority by Master Planning Region **Hampton Roads** Rural Coastal Fall Line South Fall Line North (HRPDC) (NNPDC, MPPDC, A-NPDC) (Crater PDC, PlanRVA) (NVRC, GWRC) 1. Rainfall-Driven 1. Rainfall-Driven 1. Rainfall-Driven 1. Rainfall-Driven **Flooding Flooding Flooding Flooding** 2. Storm Surge Impacts 2. Riverine Flooding 2. Riverine Flooding 2. Tidal Flooding 3. Tidal Flooding 3. Coastal Erosion 3. Tidal Flooding 3. Coastal Erosion 4. Riverine Flooding 4. Storm Surge Impacts 4. Storm Surge Impacts 3. Tidal Flooding 5. Coastal Erosion 5. Groundwater Impacts 5. Coastal Erosion 5. Storm Surge Impacts 6. Groundwater Impacts 6. Riverine Flooding 6. Groundwater Impacts 6. Groundwater Impacts **●DCR** 03/16/2023 COASTAL RESILIENCE TAC - DCR LIPDATE



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# Pluvial Flood Modeling Overview

- 8 Coastal PDCs. 57 Localities.
- ~400 HUC-12 basins, 5 to 10 sub-basins per HUC-12.
- Up to 63 simulations per sub-basin
  - Duration
    - 2-hr, 6-hr, 24-hr durations;
  - Return Interval
    - 2-, 5-, 10-, 25-, 50-, 100-, 500-year events; and
  - Three future conditions scenarios (at the Intergovernmental Panel on Climate Change [IPCC] Representative Concentration Pathways [RCP]):
    - Median values for 2020-2070 @ RCP 8.5
    - Median values for 2050-2100 @ RCP 4.5
    - Median values for 2050-2100 @ RCP 8.5



# Data Dev. And Pre-Processing **SCOPE DELIVERABLES** Update topo Interim Technical Memo (ITM) #1 – Geom. and Parameterization • Data model development • ITM #2 – Model Forcing: Data and • Precipitation, infiltration, and Methodology roughness data • Data automation pipelines Submit ITM #1 and #2 Kickoff **JAN** MARCH 27 CoV Review **FEB** APRIL 10 **●DCR**

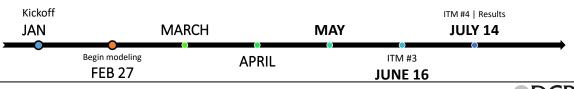
Pilot Hydraulic Modeling

### **SCOPE**

- Develop and test model automation pipeline
- Perform pilot runs for 50 pilot basins, chosen from HUC12s
- Perform final adjustments and postprocess initial results

### **DELIVERABLES**

- ITM #3 Model Dev. Pipeline
- Draft ITM #4 Pluvial Pilot Findings
- · Quality Plan for Pilot
- Pilot Results



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# Independent Technical Review of Pilot Models

### **SCOPE**

- Team member GKY to provide indep. review of draft models for first 5 basins and first 50 basins.
- End users guide how to use the models for resilience planning in their communities

### **DELIVERABLES**

- · Tech. memo for first 5 basins
  - 2 weeks after receipt of first 5 basins
- · Tech. memo for first 50 basins
  - 3 weeks after receipt of first 50 basins
- · End users guide
  - Draft by Aug 25
  - Final by Nov 30



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# Pilot Modeling Coordination and Review

### **SCOPE**

- · Coordination on pilot modeling
- Meetings to discuss findings of pilot with DCR and stakeholders
- · Respond to feedback
- Update ITMs 1-4

### **DELIVERABLES**

- Update ITMs 1-3 including any revisions following feedback
- Update ITM #4
- Meeting notes for up to 10 meetings

Begin Review Period

JULY 17

SEP

Review Period Ends
AUG 25

Submit Updated Memos
OCT 20

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# Study-wide Hydraulic Modeling

### **SCOPE**

- · Create and run production models
- Review (automated) models
- Post-process models and develop hosted map layer with download links
- Reporting and data transfer session

### **DELIVERABLES**

- Results transmitted using AWS S3 models, depth grids, inundation polygons
- · Hosted map layer
- Reports
- Data Transfer meeting PPT, recording, and notes

APR 12, 2024

Begin Production
OCT 23

MAR 15, 2024

Draft Production Report/Data

Final Proj. Report / Data

FEB 9, 2024



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# Community Outreach and Engagement Plan (COEP)

**Summary Public Comments** 

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# Community Outreach and Engagement Plan Overview

- Enactment Clause 3 of HB516/SB551 (2022) the plan shall strive for meaningful involvement by ensuring that
  - affected and vulnerable community residents have access and opportunity to participate in the full cycle of the decision-making process about the development of and updates to the Plans, and
  - decision-makers shall seek out and consider such participation, allowing the views and perspectives of community residents to shape and influence decisions.
- · Jointly prepared by DCR and ODOI
- Designed to be a framework for a whole community approach
- Describes overall goals and approach
- Plan development, detailed actions, and deliverables will be provided by contractors selected via a DCR RFP process.

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# **Public Comment Overview**

- Public Comment Period
  - 12/30/22 1/31/2023
- Solicited public comment via Virginia Regulatory Town Hall, direct email, and existing virtual outreach meetings
- Virginia Regulatory Town Hall
  - 7 Comments
- Flood.Resilience@dcr.virginia.gov Email
  - 6 Emails with attachments (letters and COEP markup)
- Individuals, State Agency, Non-Profit/Governmental Organizations, Regional Planning District Commissions

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# **COEP Comments Outline**

- COEP Section Comments
  - What is the Community Outreach and Engagement Plan?
  - What's Been Done So Far?
  - What Do We Want to Accomplish through the COEP?
  - What Actions Will We Take?
- Additional COEP Comments
  - How will outreach and engagement will be incorporated into the Plans?
  - How will DCR measure success and track progress?
  - What level of commitment are you making?

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# What is the Community Outreach and Engagement Plan?

- Who is the intended audience for the COEP?
- Engagement is missing.
- There needs to be a clear scope of work and schedule for the RFP(s) and the Commonwealth should seek input and feedback on the scope and schedule before the RFP is finalized.

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# What's Been Done So Far?

- Acknowledge past and current outreach and engagement efforts that local government have and are conducting.
- Acknowledge existing public participation opportunities.

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# What Do We Want to Accomplish through the COEP?

- It is important to distinguish between overall goals and objectives that support the goal(s).
- The goal should be to implement the direction provided in the law [HB516/SB551].
- The plan lacks critical specifics and supporting information to demonstrate how the objectives stated in the plan are to be achieved and how they support the overall goals.

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# What Actions Will We Take?

- Avoid <u>outreach fatigue</u> in communities that are repeatedly asked to provide similar information through increased communication, coordination, and collaboration with the Whole Community.
- Be explicit on the roles and expectations of the Whole Community.
- Two-way knowledge sharing across the Whole Community.
- Institutional knowledge and contacts increase as the area decreases.
- Partner with existing networks and existing efforts to provide mutual benefits.

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# What Actions Will We Take?

- Who decides who is already well served and who is not?
- How will the Commonwealth reach beyond the individuals and organizations that are generally represented through various types of stakeholder committees?
- Be prepared to dedicate more resources and potentially develop alternative strategies to reach and engage these communities.

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# What Actions Will We Take?

- Be prepared to dedicate considerable time and resources upfront in the planning process to identify existing community meeting spaces.
- Be prepared to conduct a variety of activities at multiple times and locations within a community that consider barriers to participation.
- Be prepared to build awareness and a base level of knowledge.
- Be prepared to engage indirectly and focus on shared values.
- Compensate community members for their time to participate.

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# How will Outreach and Engagement will be Incorporated into the Plans?

- Outline how community feedback will be integrated into the Plans.
- Explain how information collected will be disseminated back to community members for their own planning purposes.
- Be explicit about allowing local knowledge and expertise to shape not just the plans, but the objectives and the processes.
- How will the COEP be updated as a living-document?

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# How will DCR Measure Success and Track Progress?

- The way that the plan reads right now, it seems that success is measured by process.
- Provide transparent reports on the engagement process to state and local stakeholders as the COEP is updated.
- Consider creating a task force that monitors the plans goals and creates regularly scheduled intervals of feedback from the "whole community" an ongoing basis.
- Consider creating regional citizen and stakeholder committees to host recurring community meetings to collect feedback on the process.

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# What level of Commitment are you Making?

- Community work is HARD and you must be in it for the long haul or you get surface-level input.
- Maintain on-going relationships with the community-based organizations and groups.
- Invest in in-house outreach and engagement teams.
- Any idea how many communities you would work with?

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# Resilience Coordination Working Group (RCWG) Update

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# **RCWG Charge**

- This Working Group is being established by the Chief Resilience Officer in furtherance of Governor Youngkin's goal
  of addressing challenges related to flooding and resilience, and in the spirit of engaging collaboratively with the
  General Assembly on this important issue. The Working Group will have the following purposes:
  - To consider and assess strategies and policies for the Commonwealth to improve intergovernmental and interagency coordination; and
  - To maximize the procurement of federal and private funding opportunities in planning for and implementing flood resilience throughout the Commonwealth.
- The Working Group will focus on improving the flood resilience of both human and natural systems and infrastructures.
- Working Group recommendations will seek to prioritize strategies to protect and enhance the Commonwealth's water quality objectives, as well as natural systems.
- The Chief Resilience Officer, in coordination with the Department of Conservation and Recreation, will report the
  results of the examination conducted by the Working Group, along with recommendations as may be appropriate,
  to the Governor, the Chairmen of the House Committee on Agriculture, Chesapeake and Natural Resources and the
  Senate Committee on Agriculture, Conservation and Natural Resources, and the Virginia Delegation of the
  Chesapeake Bay Commission no later than November 1, 2023.

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# **RCWG Organization Representation**

- Central Shenandoah PDC (CSPDC)
- Chesapeake Bay Commission (CBC)
- Chesapeake Bay Foundation (CBF)
- · City of Alexandria
- Clark Nexsen
- Cumberland Plateau PDC (CPPDC)
- Environmental Defense Foundation (EDF)
- Hampton Roads PDC (HRPDC)
- · Home Builders Association of Virginia (HBAV)
- Middle Peninsula PDC (MPPDC)
- Mount Rogers PDC (MRPDC)
- Old Dominion University ICAR/CCRFR (ODU)
- · Port of Virginia
- Secretary of Natural and Historic Resources (SNHR)
- Secretary of Veterans and Defense Affairs (VADA) .
- Soil and Water Conservation Board (SWCB)

- · The Nature Conservancy (TNC)
- University of Virginia IEN (UVA)
- Virginia Marine Resources Commission (VMRC)
- Virginia Agribusiness Council (VAC)
- Virginia Association of Soil and Water Districts (VASWCD)
- Virginia Chamber of Commerce (VAChamber)
- Virginia Department of Conservation and Recreation (DCR)
- Virginia Department of Emergency Management (VDEM)
- Virginia Department of Environmental Quality (DEQ)
- Virginia Department of Housing and Community Development (DHCD)
- Virginia Department of the Treasury (Treasury)
- Virginia Department of Transportation (VDOT)
- Virginia Department of Energy (Energy)
- Virginia Department of Wildlife Resources (DWR)

- Virginia Economic Development Partnership (VEDP)
- Virginia Farm Bureau (VFB)
- Virginia Institute of Marine Science (VIMS)
- Virginia Manufacturer's Association (VMA)
- Virginia PACE Authority (VPA)
- Virginia Resources Authority (VRA)
- · Virginia Tech CCS (VT)
- William and Mary VCPC (W&M)
- Sec. of Education
- · Deputy Secretary of Transportation
- Deputy Secretary of Finance
- Deputy Secretary of Transportation
- Virginia Association of Planning District Commissions (VAPDC)
- Virginia Association of Counties (VACO)

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# RCWG Meeting Schedule Outline

Meeting Month	Meeting Topic	Working Group Member Post- Meeting Responsibilities
January	Work Group introduction VA resiliency planning environmental scan (VES)	Submit organizations' role information to PMG
February	Review VA agency roles     Discuss subcommittees	Submit subcommittee preferences
March	<ul> <li>Preliminary peer state resiliency planning analysis (PSA) introduction</li> </ul>	Attend first virtual subcommittee meeting     Review VES draft
April	Subcommittees report out	Attend subcommittee meeting     Review PSA draft
May	Review PSA     Discuss strategies and policies to improve resilience coordination     Discuss funding opportunities to plan and implement flood resilience     Subcommittees report out	<ul> <li>Attend subcommittee meeting</li> <li>Review draft strategies, policies, and funding opportunities</li> </ul>
June	Discuss recommended strategies, policies, and funding opportunities     Subcommittees report out	Attend final subcommittee meeting     Review draft recommendations
July	Draft recommendations     Final report out from subcommittees	Review draft final report and recommendations
August	Final report and recommendations	Review final report and recommendations
September	Final recommendations voting	

Report submitted to Governor and General Assembly no later than November 1,2023

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# 2022 CRMP TAC Subcommittee Organization

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# 2022 TAC Subcommittees - Mirror Framework Goals

- Project Prioritization
- Funding
- Research, Data, and Innovation
- Outreach and Coordination

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	Subcommittee #1 Project Prioritization	Subcommittee #2 Funding	Subcommittee #3 Research, Data, and Innovation [SC3-RDI]	Subcommittee #4 Outreach and Coordination
Membership	[SC1-PP] A-NPDC	[SC2-FUN] HRPDC	HRPDC	[SC4-O&C] GWRC
Membersiiip	Crater PDC	MPPDC.	NVRC	Upper Mattaponi
	HRPDC	DHCD	DEQ	DHCD
	NNPDC	Sea Grant	Sea Grant	ODOI
	PlanRVA	VDEM	VMRC.	VDOT
	VDOT	VDOT	VTRC	USACE
	VMRC	VMRC	ODU-ICAR	Virginia Farm Bureau
	Virginia Port Authority	VRA	UVA-ERI	The Nature Conservancy
	Wetlands Watch	W&M VCPC	VIMS	Wetlands Watch
	Office of Data Governance and Analytics	VA Chamber of Commerce	VIIVIS	Virginia Manufacturers Association
	Office of Data Governance and Analytics	VA Chamber of Commerce	Wetlands Watch	VII giilla ivianulactureis Association
Advisors				Sec of Education
				Navy
Recommended	VIMS	Reinsurance Industry Representative	George Mason University, Virginia	UVA-IEN
Additional Advisors	DCR-SEAS McGuireWoods	DoD Chesapeake Bay Program (CBP)	Climate Center (VCC)	Virginia's Secretary of Veterans and Defens Affairs
	Wicduirewoods			DoD Chesapeake Bay Program (CBP)

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# 2022 TAC Subcommittees

# **Next Steps**

- CRO will designate subcommittee chairs and membership.
- CRO will send charge to subcommittees with prioritized objectives.

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# **QUESTIONS**

### **DCR Contact Information**

Resilience Planning matt.dalon@dcr.Virginia.gov Flood.Resilience@dcr.Virginia.gov

dcr.virginia.gov/crmp/

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