

# Coastal Resilience Technical Advisory Committee Quarterly Meeting

November 13, 2024, 10:00 AM - 1:00 PM

# Meeting Agenda

- 1) Call to Order and Roll Call
- 2) Adoption of the Agenda
- 3) Adoption of Meeting Minutes from September 18<sup>th</sup>, 2024
- 4) Reports from DCR
- 5) Reports from TAC Subcommittees
  - RDI, Project Prioritization, Funding, Outreach & Coordination
- 6) Public Comment
- 7) New Business
  - Voting on Subcommittee Recommendations
- 8) Adjourn

# Reports from DCR

Community Flood Preparedness Fund, Round 5 Update

Coastal Resilience Master Plan, Phase II updates

# Community Flood Preparedness Fund, Round 5

Total Available \$85,000,000 – Application period extended until January 24, 2025

Category	Amount	Award Type	Notes
Planning & Capacity Building, Studies, and Resilience Projects	\$50,000,000	Grants	Awards require match that varies depending on activity/project type. Reduced match for low-income geographic areas. Total awards per applicant are capped.
Resilience Projects	\$25,000,000	Loans	Below market-rate loans for resilience projects. Awards do not require match. Designed primarily to accommodate large projects that exceed grant caps.
Start-Up Funding	\$10,000,000	Loans	Short term (36 month) loans to provide up-front funding for activities funded by CFPF grants. Currently, CFPF grants are paid on a reimbursement basis, which is a limiting factor for some localities.

- Round 4 awarded \$53.9 million for 50 projects; 57% to Low-Income Geographic Areas
- \$100 Million in GF added in adopted FY25/26 budget
- **New:** Resilient Virginia Revolving Loan Fund can now be used as match for Projects
- **New:** 5-year approval period for Resilience Plans
- **New:** 5-year period of performance for previously awarded Capacity Building grants

# Virginia Coastal Resilience Master Plan, Phase II

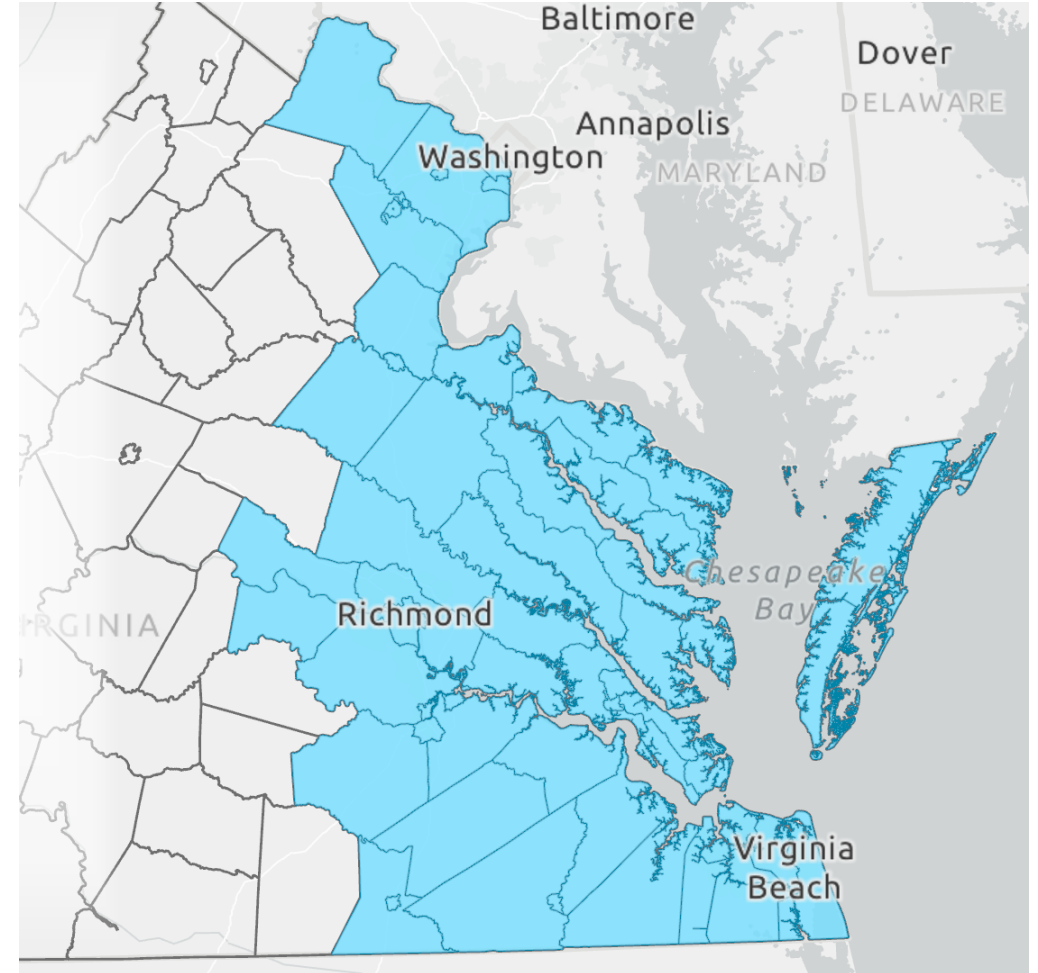
## WHAT IS THE CRMP?

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 in Virginia's coastal region due to sea level rise and changing precipitation patterns.
- Identifies **opportunities to prioritize impactful flood resilience solutions**, showcasing an inventory of government-led or supported projects and initiatives across the coastal region.

## DELIVERY DETAILS

- Major plan elements: hazard exposure, impact assessment, planned resilience actions, financial needs, and subcommittee recommendations
- December 2024 timeline for delivery, updated every five years
- See Code of Virginia [§10.1-658, 659](#)



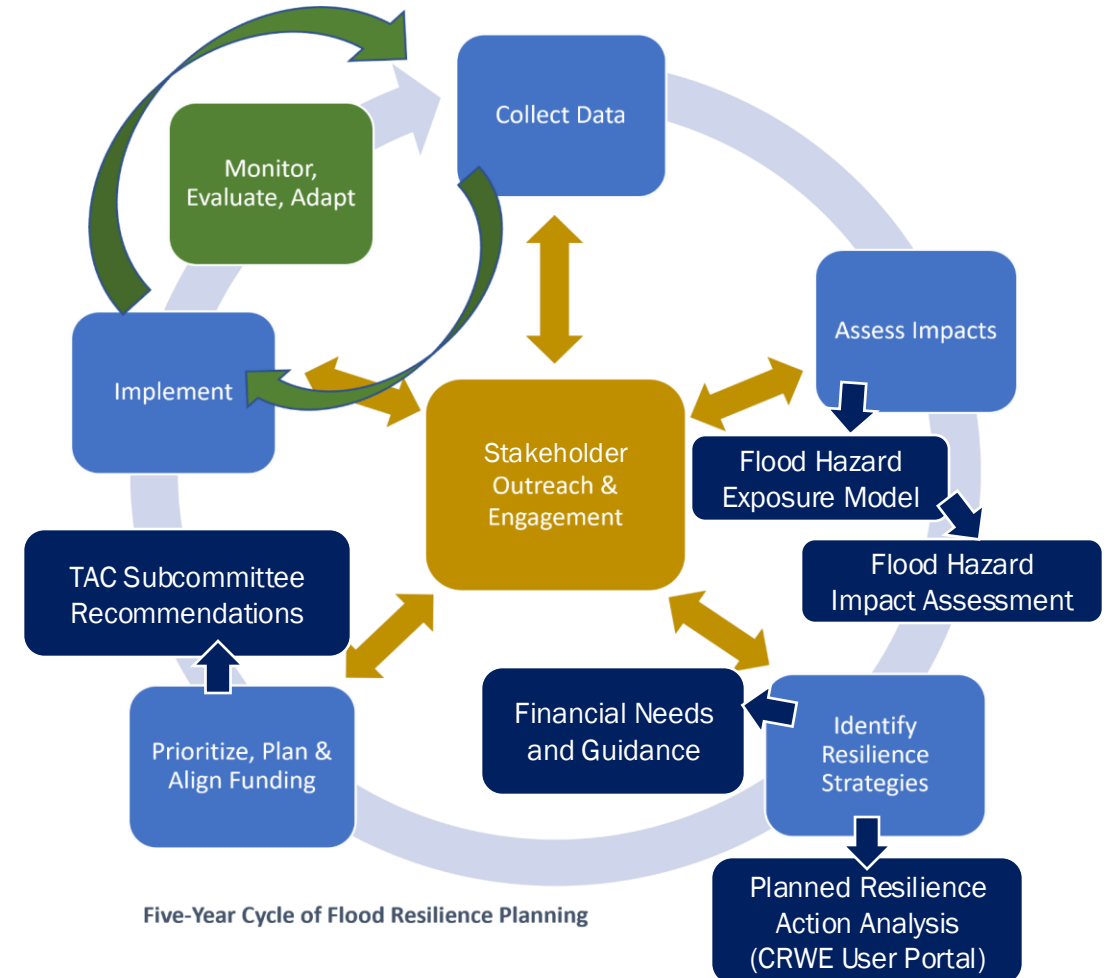
# Coastal Resilience Master Plan, Phase II

## DELIVERABLES

- 1) Plan Document (PDF)
- 2) Updated Coastal Resilience Web Explorer

## KEY COMPONENTS

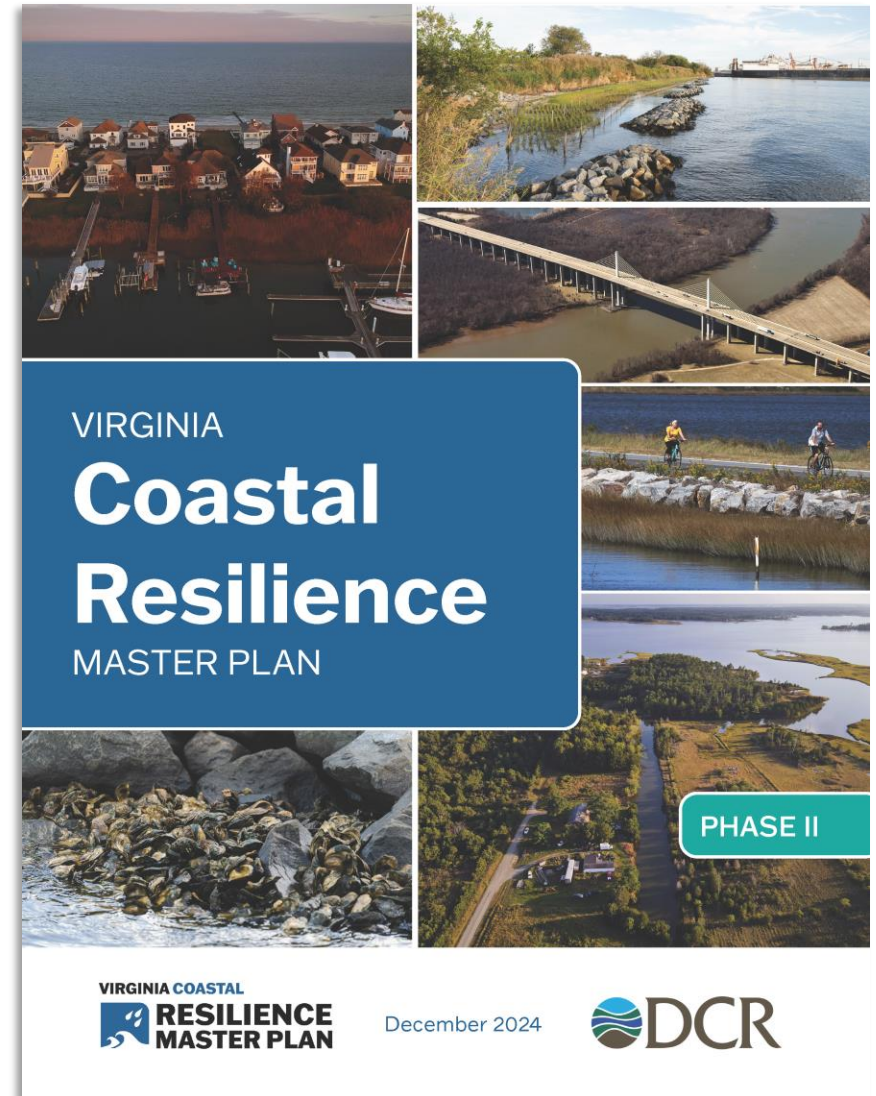
- 1) Flood Hazard Exposure Model
- 2) Flood Hazard Impact Assessment
- 3) Planned Resilience Actions
- 4) Financial Needs for Flood Resilience
- 5) TAC Subcommittee Recommendations



# Document Development Update

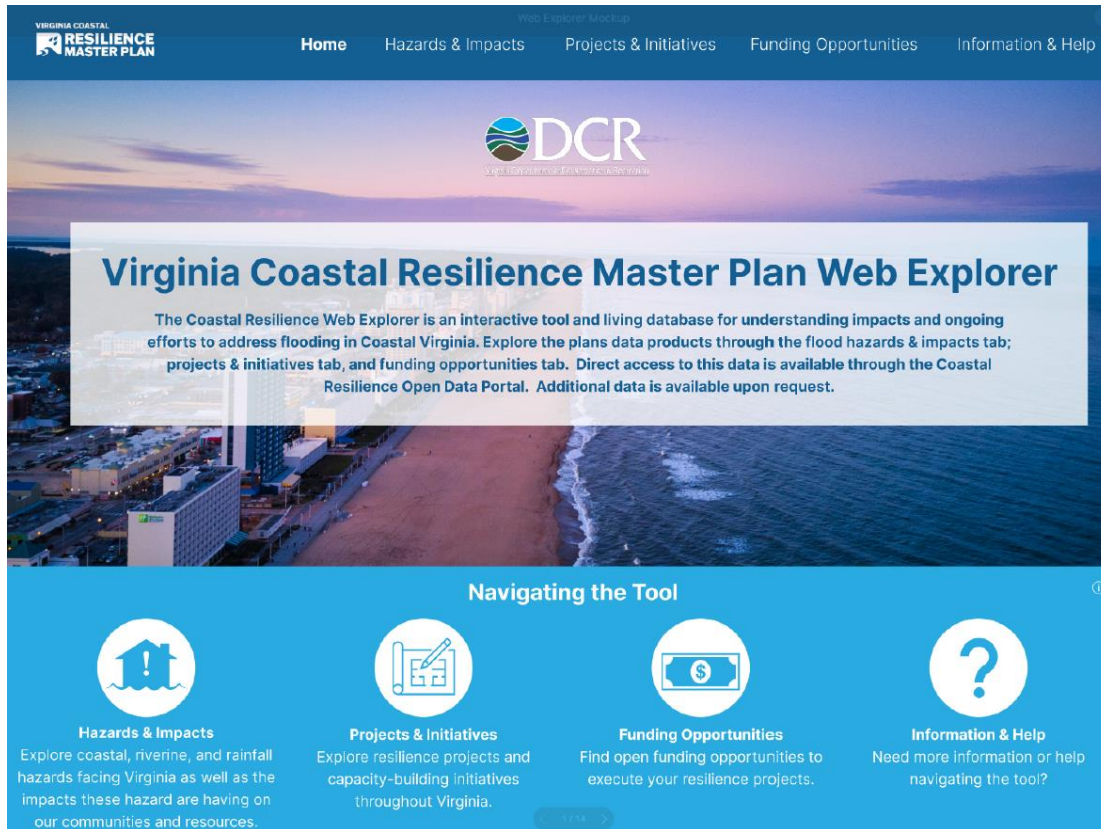
## PHASE II PLAN OUTLINE

- **Chapter 1: Introduction:** background and overview of the Coastal Resilience Master Planning effort.
- **Chapter 2: Flooding in Coastal Virginia:** presentation of key findings from the flood hazard exposure and impacts assessment for the entire planning area.
- **Chapter 3: Advancing Flood Resilience in Coastal Virginia:** summary of findings from the resilience actions analysis for the entire planning area, and recommendations of the TAC.
- **Chapter 4: Looking Ahead:** recommended uses for the plan and next steps for the Office of Resilience Planning to make findings and recommendations actionable.
- **APPENDICES**
  - Flood Hazard Methodology
  - Impact Analysis Methodology
  - Engagement Summary
  - Recommendations Discussed by the Subcommittees

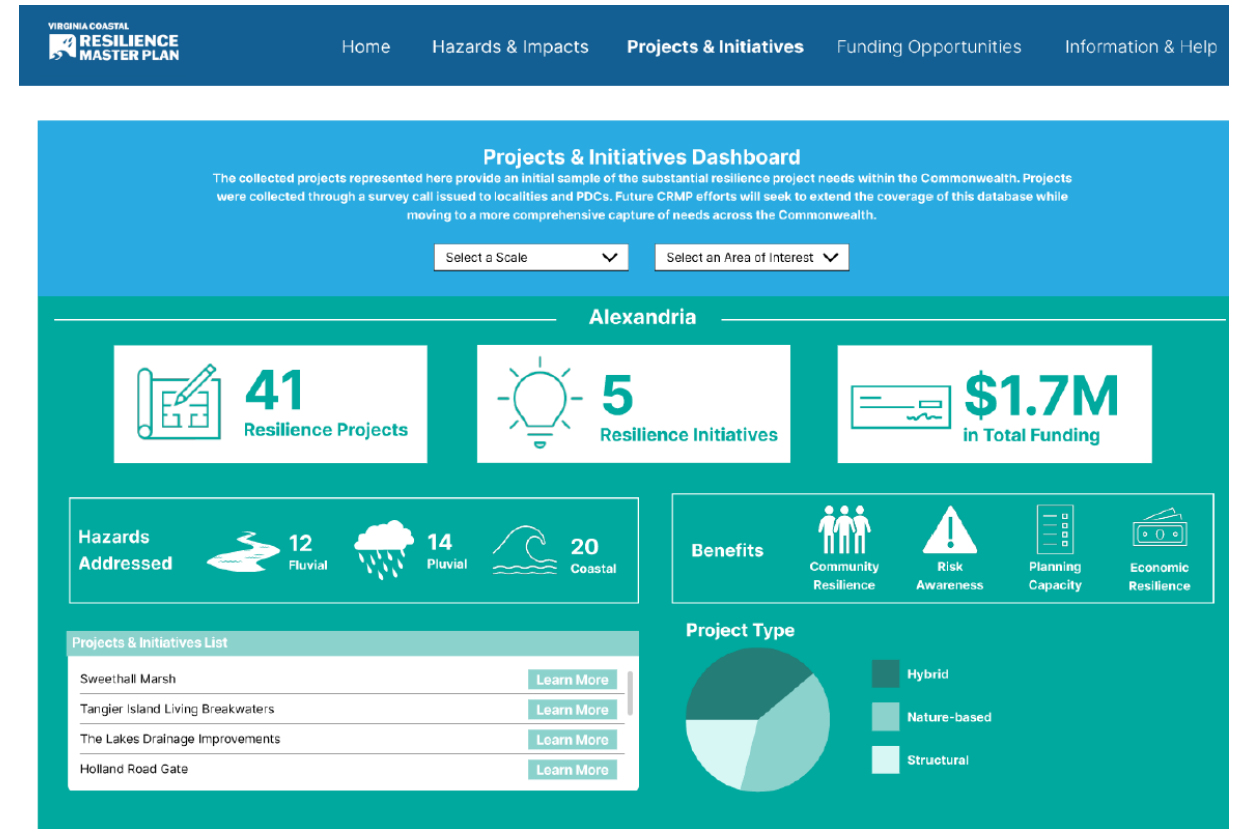


Draft Plan Cover Page

# Coastal Resilience Web Explorer Update



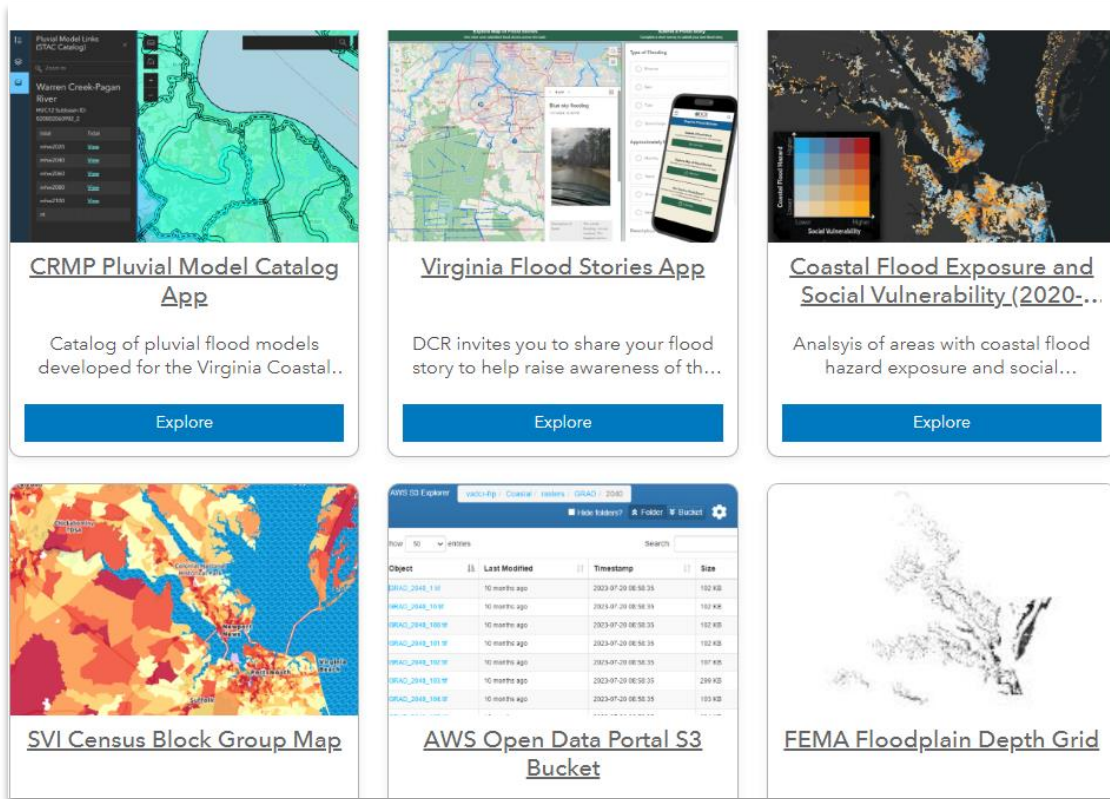
Conceptual Draft Landing Page



Conceptual Draft Projects & Initiatives Page



# DCR Flood Resilience Open Data Portal Update



**CRMP Pluvial Model Catalog App**  
Catalog of pluvial flood models developed for the Virginia Coastal...

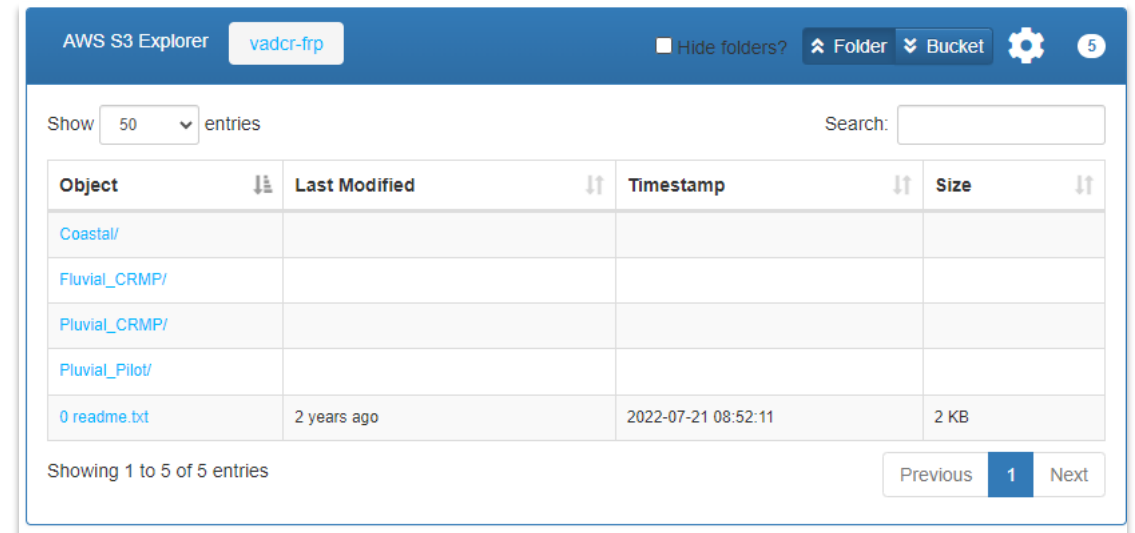
**Virginia Flood Stories App**  
DCR invites you to share your flood story to help raise awareness of th...

**Coastal Flood Exposure and Social Vulnerability (2020-...**  
Analysis of areas with coastal flood hazard exposure and social...

**SVI Census Block Group Map**

**AWS Open Data Portal S3 Bucket**

**FEMA Floodplain Depth Grid**



AWS S3 Explorer vadcr-frp

Show 50 entries Search:

Object	Last Modified	Timestamp	Size
Coastal/			
Fluvial_CRMP/			
Pluvial_CRMP/			
Pluvial_Pilot/			
0 readme.txt	2 years ago	2022-07-21 08:52:11	2 KB

Showing 1 to 5 of 5 entries

Previous 1 Next

Please email [flood.resilience@dcr.virginia.gov](mailto:flood.resilience@dcr.virginia.gov) with data requests or questions.

<https://crmp-vdcr.hub.arcgis.com/>

# Outreach & Engagement Summary

## Goal 1: Understand end users' needs

- 49 individuals from primary stakeholder organizations completed our survey in January 2024.

## Goal 2: Understand lived experiences with flooding

- Heard from more than 40 staff from local governments, PDCs, and their flood resilience partners during locality engagement meetings.
- Engaged with more than 80 individuals from different parts of coastal Virginia during community meetings.

## Goal 3: Understand existing flood resilience efforts

- 70 organizations uploaded projects and initiatives for inclusion in the plan's inventory.

## Goal 4: Drive awareness and encourage whole community action

- So far, we have reached more than 160 individuals with virtual meetings to raise awareness about the plan.

### BUILDING ON PHASE I ENGAGEMENT

Between Phase I and Phase II, all PDCs in the planning region, and 82% of City and County governments were engaged in the planning processes.

# Plan Release and Promotion in 2025

## Public Plan Release

- Press release
- Posting on Virginia Regulatory Town Hall
  - 60-day public comment period
- Virtual public webinars
  - January and February 2025
- Electronic plan promotion
  - DCR website updates, newsletter, social media

## Promoting Uptake by Intended End Users

- Roadshow presentations
  - State agency visits (ex., VDEM, etc.)
  - Conference sessions (ex., Environment Virginia, etc.)
- Develop and implement Adaptive Management Plan
  - Acting upon recommendations from the TAC (ex., O-c, O-d, etc.)

# TAC Discussion

# Reports from TAC Subcommittees

Recommendations Discussion

# Recommendations Development

## OBJECTIVE

- Develop high priority recommendations to improve mitigation of severe and repetitive flooding in Virginia’s coastal region.
- The recommendations should be:
  - An action to implement prior to the next planning phase (in the next 1-4 years) by appropriate responsible actors (ex., state agencies, PDCs, localities, legislators, federal government, etc.).
  - A process improvement for DCR when developing the next Coastal Resilience Master Plan (to be released in 2029).

## OUTCOME

- The high priority recommendations that receive a passing vote from the full TAC per Section 2-3 of the TAC charter will be included as recommendations in the plan.
- Each recommendation will comprise an action-oriented statement, identified responsible actor(s), and a brief justification of the recommendation.
- The list of approximately 120 draft recommendations discussed by the subcommittees at their Q2 2024 meetings will be included as an appendix to the plan.

## PROCESS

<i>July 15-19: Prioritization Survey</i>	<i>Subcommittee members vote on their top 10 recommendations per subcommittee.</i>
<i>August 7-15: Q3 Subcommittee Meetings</i>	<i>Subcommittees review survey results, identify and refine the top 5 recommendations, and assign responsible parties.</i>
<i>September 18: Q3 TAC Meeting</i>	<i>The Full TAC reviews and refines each subcommittee’s top 5 recommendations.</i>
<i>October 3-10: Q4 Subcommittee Meetings</i>	<i>Subcommittee members finalize and vote on up to 5 recommendations.</i>
<i>November 13: Q4 TAC Meeting</i>	<i>The Full TAC votes on all subcommittee recommendations.</i>

# Final Recommendations Discussion

## FACILITATED DISCUSSION

- Overview
  - Brief review of each recommendation and purpose
- Check for understanding
  - TAC member questions on each recommendation
- Review DCR proposed changes
  - Suggested revisions provide consistency across the recommendations as well as with the key terms used in the Coastal Resilience Master Plan, Phase II.
    - Local governments = county, city, town
    - Commonwealth's research universities
    - Chief Resilience Officer and the Interagency Resilience Management Team

## *Recommendation Handout Reference*

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

## [R-a] Research, Data, and Innovation Subcommittee

### RECOMMENDATION

- The Chief Resilience Officer should coordinate with the Commonwealth's research universities and the Interagency Resilience Management Team to regularly inventory existing data and to collect and share quantitative and qualitative flood resilience data, data production efforts, and assessments of data usage in decision-making applications across the Commonwealth.

### RECOMMENDATION PURPOSE

- Minimize duplication of efforts and effectively mobilize our collective capacity to support evidence-based flood resilience decision-making with best available data.



## [R-b] Research, Data, and Innovation Subcommittee

### RECOMMENDATION

- The DCR Office of Resilience Planning and other state agencies, in collaboration with the Commonwealth's research universities and local governments, should identify priority data needs to support ongoing planning and decision making and recommend implementation strategies for fulfilling those needs.

### RECOMMENDATION PURPOSE

- Maintain the best available data to inform decisions in a changing environment.

## [R-c] Research, Data, and Innovation Subcommittee

### RECOMMENDATION

- The Flood Resilience Advisory Committee should actively support [the DCR Office of Resilience Planning](#) in establishing clear and measurable resilience goals aimed at enhancing the Commonwealth's capacity to withstand and recover from flood events. DCR should solicit the involvement of the Commonwealth's research universities and other key stakeholders to contribute their expertise in developing relevant indicators and metrics to monitor progress toward these resilience goals.

### RECOMMENDATION PURPOSE

- Define, measure, and monitor the efficacy of resilience projects to support adaptive management. This should be based on Virginia-centric data and address ecological, infrastructure, social, economic, cultural, environmental justice, and other emerging dimensions of resilience performance.

## [R-d] Research, Data, and Innovation Subcommittee

### RECOMMENDATION

- DCR's Office of Resilience Planning should engage with key stakeholders to understand local obstacles and gaps in state-level programs and develop a statewide strategy that leverages co-production of innovative state-level solutions to meet local needs.

### RECOMMENDATION PURPOSE

- Identify appropriate state-scale collective actions to support local resilience challenges through community engagement and innovation.

## [R-e] Research, Data, and Innovation Subcommittee

### RECOMMENDATION

- The Commonwealth's research universities should evaluate the performance and co-benefits of existing and emerging nature-based and hybrid solutions for water quantity and water quality protections through collaborations with public and private stakeholders. These efforts should track progress, adapt approaches, and identify funding sources for continued collaborative efforts.

### RECOMMENDATION PURPOSE

- Understand the flood risk reduction and other benefits of existing and emerging nature-based and hybrid solutions through collaborative research efforts.

## [P-a] Project Prioritization Subcommittee

### RECOMMENDATION

- The DCR Office of Resilience Planning should incorporate best available science into future iterations of the Coastal Resilience Master Plan for all components of flood risk to support appropriate project prioritization.

### RECOMMENDATION PURPOSE

- Enhance informed decision-making for flood resilience.

## [P-b] Project Prioritization Subcommittee

### RECOMMENDATION

- The Commonwealth should establish sufficient funding to implement the Coastal Resilience Master Plan and a dedicated, sustainable source for this funding.

### RECOMMENDATION PURPOSE

- Improve buy-in for the Coastal Resilience Master Plan.

## [P-c] Project Prioritization Subcommittee

### RECOMMENDATION

- The Chief Resilience Officer should request that the Interagency Resilience Management Team should ~~coordinate state agencies to~~ develop, maintain, and enhance appropriate datasets needed to assess flood impacts. The Chief Resilience Officer should invite broad participation from key stakeholders in coordination efforts.

### RECOMMENDATION PURPOSE

- Minimize duplication of efforts, streamline communications, and effectively mobilize our collective capacity.

## [P-d] Project Prioritization Subcommittee

### RECOMMENDATION

- State agencies should establish programs to engage with and support local governments and planning district commissions, with an emphasis on communities with high flood risk and without flood resilience projects or initiatives. Involved agencies may include DCR, VDEM, and DHCD and where appropriate, state agencies should involve regional institutions of higher education the Commonwealth's research universities in engagement efforts.

### RECOMMENDATION PURPOSE

- Understand and address the factors preventing flood resilience action by local governments



## [P-e] Project Prioritization Subcommittee

### RECOMMENDATION

- The DCR Office of Resilience Planning should work with the Flood Resilience Advisory Committee to establish a coordinated framework to operationalize the Coastal Resilience Master Plan at local, regional, and state scales. The framework should integrate data and needs assessments with Coastal Resilience Master Plan principles to develop success metrics and set clear short-, mid-, and long-term goals, to be measured on regular, near-term timespans.

### RECOMMENDATION PURPOSE

- Establish a structure to connect the state's coastal flood resilience findings to informed and coordinated action that minimizes adverse impacts and maximizes long-term benefits.

## [F-a] Funding Subcommittee

### RECOMMENDATION

- The Chief Resilience Officer should request that the Interagency Resilience Management Team provide timely financial tools and reports to local governments, planning district commissions, state legislators, and other official entities. These tools and reports should clearly demonstrate the immediate and mid-term costs of inactions to address flood resilience and inform appropriations.

### RECOMMENDATION PURPOSE

- Explain the flood consequences of doing nothing at the local, regional, and state levels.

## [F-b] Funding Subcommittee

### RECOMMENDATION

- The Commonwealth's economic development enterprise, public and private, should ensure that businesses, government officials, citizens, and other key stakeholders are aware of the economic benefits of developing and implementing Virginia-based flood resilience products and services and exporting them to an emerging global market.

### RECOMMENDATION PURPOSE

- Ensure stakeholders understand the positive financial potential of investing in resilience solutions.

## [F-c] Funding Subcommittee

### RECOMMENDATION

- The Chief Resilience Officer should request that the Interagency Resilience Management Team provide information to local governments, planning district commissions, state legislators, and other official entities about existing, available, and emerging sources of funding and financial strategies that can support local, regional, and state-wide flood resilience initiatives.

### RECOMMENDATION PURPOSE

- Establish an understanding of the financial resources to develop a financial strategy for implementation.

## [F-d] Funding Subcommittee

### RECOMMENDATION

- The Chief Resilience Officer should request that the Interagency Resilience Management Team identify the challenges in the flood-related grant and loan processes specific to private projects and public projects, then recommend opportunities to improve implementation.

### RECOMMENDATION PURPOSE

- Understand the financial needs, limitations, and challenges to implementing resilience on public and private property. Example challenges may include administrative, legal, cash flow, reimbursement, proof of expenditure, and others.

## [F-e] Funding Subcommittee

### RECOMMENDATION

- The Chief Resilience Officer should request that the Interagency Resilience Management Team report on the effectiveness of state funding and financing programs to address short-term and long-term flood-related challenges for local governments and the Commonwealth and consider additional financial mechanisms as appropriate.

### RECOMMENDATION PURPOSE

- Utilize adaptive management for state-directed financial products to address the immediate and long-term challenges of flooding.

## [O-a] Outreach and Coordination Subcommittee

### 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.

### RECOMMENDATION PURPOSE

- Assist in addressing budgetary constraints which limit plan uptake.

## [O-b] Outreach and Coordination Subcommittee

### RECOMMENDATION

- The Chief Resilience Officer should coordinate with DCR to provide resources and supporting information on the necessity of increased flood resilience funding by utilizing project prioritization and evidence of project readiness.

### RECOMMENDATION PURPOSE

- Provide support through information sharing to minimize budgetary constraints which limit plan uptake.



## [O-c] Outreach and Coordination Subcommittee

### RECOMMENDATION

- The DCR Office of Resilience Planning should collaborate with potential end-users of the Coastal Resilience Master Plan, such as local governments, by improving usability. This may include providing accessible and straightforward available virtual tools and customized technical support to develop locally specific project prioritization using the plan.

### RECOMMENDATION PURPOSE

- Increase flood resilience action and encourage informed decision-making through use of existing plan data and resources.

## [O-d] Outreach and Coordination Subcommittee

### RECOMMENDATION

- The DCR Office of Resilience Planning should develop a strategy to increase use of the Coastal Resilience Master Plan by ~~plan-its~~ end-users, including local governments. The strategy should seek to identify and bridge capacity constraints within DCR and for end-users that prevent plan uptake. The strategy should also clearly define roles for state agencies to support end-users.

### RECOMMENDATION PURPOSE

- Establish a coordinated, actionable strategy to ensure the Coastal Resilience Master Plan is used.

## [O-e] Outreach and Coordination Subcommittee

### RECOMMENDATION

- The DCR Office of Resilience Planning should collaborate with key stakeholders and local governments to identify the populations and communities at greatest flood risk and offer clear, consistent messaging that can be tailored to a community.

### RECOMMENDATION PURPOSE

- Improve outreach to populations at greatest risk.

## Next Steps

1. Finalize recommendation language for voting
2. Public comment
3. Roll call vote for each recommendation using Mentimeter
  - a) One vote per TAC member organization
  - b) Chair: Motion, Second, Discussion, Vote (yes, no, abstain)
  - c) VCU: Report out on the result of the vote
4. All recommendations receiving a majority “yes” vote will be included in the main body of the CRMP Phase II.

# Public Comment

If you would like to provide public comment, please sign up in person or using the chat window.

# Voting on Subcommittee Recommendations

Using Mentimeter

# TAC Member Voting

Join at [menti.com](https://menti.com) | use code **9159 9874**

 Mentimeter

Coastal TAC Instructions - Hit the Thumbs Up When Connected

Go to

[www.menti.com](https://www.menti.com)

Enter the code

**9159 9874**



Or use QR code



**Thank you!**



Adjourn

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### Note:

The recommendations contained herein represent the final subcommittee recommendations as voted on at the Q4 Coastal Resilience Technical Advisory Committee meeting on Nov 13, 2024.

A complete list of referenced entities and the recommendations in which they appear is included at the end of this document.

## Research, Data, and Innovation Subcommittee Recommendations

**R-a:** The Chief Resilience Officer should coordinate with the Commonwealth’s research universities and the Interagency Resilience Management Team to regularly inventory existing data and to collect and share quantitative and qualitative flood resilience data, data production efforts, and assessments of data usage in decision-making applications across the Commonwealth.

*Purpose: Minimize duplication of efforts and effectively mobilize our collective capacity to support evidence-based flood resilience decision-making with best available data.*

**R-b:** The DCR Office of Resilience Planning and other state agencies, in collaboration with the Commonwealth’s research universities and local governments and planning district commissions, should identify priority data needs to support ongoing planning and decision making and recommend implementation strategies for fulfilling those needs.

*Purpose: Maintain the best available data to inform decisions in a changing environment.*

**R-c:** The Flood Resilience Advisory Committee should actively support the DCR Office of Resilience Planning in establishing clear and measurable resilience goals aimed at enhancing the Commonwealth’s capacity to withstand and recover from flood events. DCR should solicit the involvement of the Commonwealth’s research universities and other key stakeholders to contribute their expertise in developing relevant indicators and metrics to monitor progress toward these resilience goals.

*Purpose: Define, measure, and monitor the efficacy of resilience projects to support adaptive management. This should be based on Virginia-centric data and address ecological, infrastructure, social, economic, cultural, environmental justice, and other emerging dimensions of resilience performance.*

**R-d:** DCR’s Office of Resilience Planning should engage with key stakeholders to understand local obstacles and gaps in state-level programs and develop a statewide strategy that leverages co-production of innovative state-level solutions to meet local needs.

*Purpose: Identify appropriate state-scale collective actions to support local resilience challenges through community engagement and innovation.*

**R-e:** The Commonwealth’s research universities should evaluate the performance and co-benefits of existing and emerging nature-based and hybrid solutions for water quantity and water quality protections through collaborations with public and private stakeholders. These efforts should track progress, adapt approaches, and identify funding sources for continued collaborative efforts.

*Purpose: Understand the flood risk reduction and other benefits of existing and emerging nature-based and hybrid solutions through collaborative research efforts.*

## Project Prioritization Subcommittee Recommendations

**P-a:** The DCR Office of Resilience Planning should incorporate best available science into future iterations of the Coastal Resilience Master Plan for all components of flood risk to support appropriate project prioritization.

*Purpose: Enhance informed decision-making for flood resilience.*

**P-b:** The Commonwealth should establish sufficient funding to implement the Coastal Resilience Master Plan and a dedicated, sustainable source for this funding.

*Purpose: Improve buy-in for the Coastal Resilience Master Plan.*

**P-c:** The Chief Resilience Officer should request that the Interagency Resilience Management Team develop, maintain, and enhance appropriate datasets needed to assess flood impacts. The Chief Resilience Officer should invite broad participation from key stakeholders in coordination efforts.

*Purpose: Minimize duplication of efforts, streamline communications, and effectively mobilize our collective capacity.*

**P-d:** State agencies should establish programs to engage with and support local governments and planning district commissions, with an emphasis on communities with high flood risk and without flood resilience projects or initiatives. Involved agencies may include DCR, VDEM, and DHCD and where appropriate, state agencies should involve the Commonwealth's research universities in engagement efforts.

*Purpose: Understand and address the factors preventing flood resilience action by local governments.*

**P-e:** The DCR Office of Resilience Planning should work with the Flood Resilience Advisory Committee to establish a coordinated framework to operationalize the Coastal Resilience Master Plan at local, regional, and state scales. The framework should integrate data and needs assessments with Coastal Resilience Master Plan principles to develop success metrics and set clear short-, mid-, and long-term goals, to be measured on regular, near-term timespans.

*Purpose: Establish a structure to connect the state's coastal flood resilience findings to informed and coordinated action that minimizes adverse impacts and maximizes long-term benefits.*

## Funding Subcommittee Recommendations

**F-a:** The Chief Resilience Officer should request that the Interagency Resilience Management Team provide timely financial tools and reports to local governments, planning district commissions, state legislators, and other official entities. These tools and reports should clearly demonstrate the immediate and mid-term costs of inactions to address flood resilience and inform appropriations.

*Purpose: Explain the flood consequences of doing nothing at the local, regional, and state levels.*

**F-b:** The Commonwealth's economic development enterprise, public and private, should ensure that businesses, government officials, citizens, and other key stakeholders are aware of the economic benefits of developing and implementing Virginia-based flood resilience products and services and exporting them to an emerging global market.

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**F-d:** The Chief Resilience Officer should request that the Interagency Resilience Management Team identify the challenges in the flood-related grant and loan processes specific to private projects and public projects, then recommend opportunities to improve implementation.

*Purpose: Understand the financial needs, limitations, and challenges to implementing resilience on public and private property. Example challenges may include administrative, legal, cash flow, reimbursement, proof of expenditure, and others.*

**F-e:** The Chief Resilience Officer should request that the Interagency Resilience Management Team report on the effectiveness of state funding and financing programs to address short-term and long-term flood-related challenges for local governments, planning district commissions and the Commonwealth, and consider additional financial mechanisms as appropriate.

*Purpose: Utilize adaptive management for state-directed funding programs to address the immediate and long-term challenges of flooding.*

## Outreach and Coordination Subcommittee Recommendations

**O-a:** 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.

*Purpose: Assist in addressing budgetary constraints which limit plan uptake.*

**O-b:** The Chief Resilience Officer should coordinate with DCR to provide resources and supporting information on the necessity of increased flood resilience funding by utilizing project prioritization and evidence of project readiness.

*Purpose: Provide support through information sharing to minimize budgetary constraints which limit plan uptake.*

**O-c:** The DCR Office of Resilience Planning should collaborate with potential end-users of the Coastal Resilience Master Plan, such as local governments and planning district commissions, by improving usability. This may include providing accessible and straightforward available virtual tools and customized technical support to develop locally specific project prioritization using the plan.

*Purpose: Increase flood resilience action and encourage informed decision-making through use of existing plan data and resources.*

**O-d:** The DCR Office of Resilience Planning should develop a strategy to increase use of the Coastal Resilience Master Plan by its end-users, including local governments and planning district commissions. The strategy should seek to identify and bridge capacity constraints within DCR and for end-users that prevent plan uptake. The strategy should also clearly define roles for state agencies to support end-users.

*Purpose: Establish a coordinated, actionable strategy to ensure the Coastal Resilience Master Plan is used.*

**O-e:** The DCR Office of Resilience Planning should collaborate with key stakeholders, including local governments and planning district commissions, to identify the populations and communities at greatest flood risk and offer clear, consistent messaging that can be tailored to a community.

*Purpose: Improve outreach to populations at greatest risk.*

## List of Referenced Entities

Referenced Entity	Role	Recommendation(s) #	Code Reference/ Definition/Listed Organization
Chief Resilience Officer	Responsible	R-a P-c F-a, F-c, F-d, F-e O-b	<a href="#">§ 2.2-220.5</a>
State agencies	Responsible	P-d	DCR, VDEM, DHCD
DCR Office of Resilience Planning	Responsible	R-b, R-d P-a, P-e O-a, O-c, O-d, O-e	
Flood Resilience Advisory Committee	Responsible/ Supporting	R-c P-e	The Flood Resilience Advisory Committee ( <a href="#">§10.1-659</a> ) is a public body composed of state agency and regional government representatives, and it advises and assists the implementation of flood resilience programs in the Commonwealth.
Interagency Resilience Management Team	Supporting/ Responsible	P-c, F-a, F-c, F-d, F-e	The Interagency Resilience Management Team ( <a href="#">§ 2.2-220.5</a> ), composed of state agency representatives, supports statewide resilience efforts, including resilience planning and funding coordination.
Local governments	Beneficiary/ Supporting	R-b P-d F-a, F-c, F-e O-c, O-d, O-e	Local governments in Virginia include counties, cities, and towns as defined in <a href="#">Article VII</a> of the Virginia Constitution. Local governments, for the purposes of the Coastal Resilience Master Plan and these recommendations, do not include regional governments which include, but not limited to, planning district commissions and regional commissions.
Planning district commissions	Beneficiary/ Supporting	R-b P-d F-a, F-c O-c, O-d, O-e	

<b>Referenced Entity</b>	<b>Role</b>	<b>Recommendation(s) #</b>	<b>Code Reference/ Definition/Listed Organization</b>
Commonwealth	Responsible	P-b	
State legislators	Beneficiary	F-a, F-c	
Government officials	Beneficiary	F-b	
Other official entities	Beneficiary	F-a, F-c	
Commonwealth research universities	Supporting	R-a, R-b, R-c, R-e P-d	
its end-users	Beneficiary	O-d	
Potential end-users	Supporting	O-c	
Key stakeholders	Supporting/ Beneficiary	R-c, R-d P-c O-e	
Other stakeholders	Beneficiary	F-b	
Public and private stakeholders	Supporting	R-e	
Businesses	Beneficiary	F-b	
Commonwealth economic development enterprise	Responsible	F-b	
Citizens	Beneficiary	F-b	