Commonwealth Flood Resilience Planning

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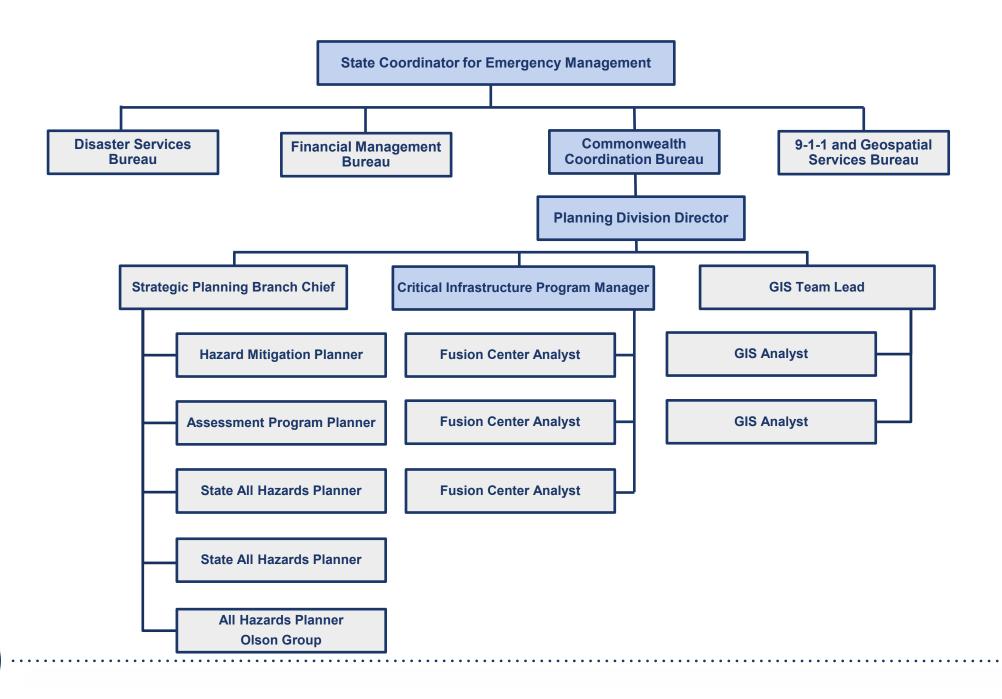






Critical Infrastructure Program Strategic Plan

June 28, 2023





Introduction

Critical Infrastructure Strategic Plan is draft Requires coordination with other State Agencies Modeled after efforts in National Capital Region Includes assets, systems, and networks, whether physical or cyber Incapacitation or destruction effects physical security, economic vitality, public health or safety at local, tribal, State, national levels Supports mitigation, preparedness, response, and recovery VDEMs role is one of coordinating and facilitating Meant to support and partner with other State agencies, not compete Coordinated with federal efforts (i.e., CISA, DoD) Public and private sector dependent

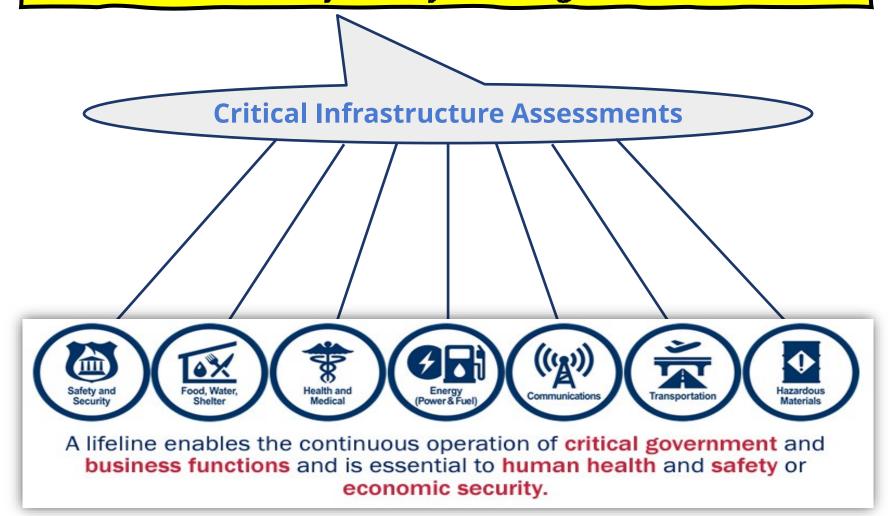


Purpose

Provides a strategic framework by which other State agencies and private sector partners collaborate to maintain a plan to implement and measure an agreed upon set of annual objectives which will then increase our resilience and ability to identify our "centers of gravity" and develop strategies to protect our community lifelines.



Risks + Centers of Gravity + Intelligence = Situation





Organization and Goals

State Working Group Composed of Sector Risk Management State Agencies (SRMSAs) SRMSAs aligned with Sector Specific Agencies at federal level and the 16 Critical Infrastructure Sectors Draft concept suggests identifying State Agency Lead Goals ...

- Develop an Implementation Plan that defines annual and multiyear priorities and objectives
- Develop a process for identifying, assessing, and documenting State critical infrastructure
- Engage critical infrastructure stakeholders from public and private sectors



State CI Working Group





Opportunities

- Data sharing
- Private sector engagement
- State agency support
- Determining the necessary authorities
- Considering the "vehicles" needed to conduct the assessments



The Risk if We Do Nothing





Flood Preparedness Coordination Meeting

Funding Opportunities

Date: June 28, 2023



Hazard Mitigation Assistance Grants

Building Resilient Infrastructure and Communities Flood Mitigation Assistance Hazard Mitigation Grant Program Pre-Disaster Mitigation (Now Congressional Directives)

*New - Safeguarding Tomorrow Revolving Loan Fund



Intent of these programs

To break the repetitive damage cycle of natural hazards.



Grant Funding Strategy

Continued engagement with eligible applicants through planning, site visits for potential projects, presentations at conferences, workshops Cycle of building applications, regardless of HMA funding opportunity

Success of program is dependent on receiving applications from local governments





Building Resilient Infrastructure and Communities

Intent



The intent of the grant, Building Resilient Infrastructure and Communities (BRIC), is to support states, local communities, tribes, and territories as they undertake hazard mitigation projects, reducing the risks they face from natural hazards. BRIC replaced the Pre-Disaster Mitigation (PDM) grant program. BRIC is a nationally competitive program. Eligible project types include:

- Capability- and Capacity-Building Activities
- Residential Mitigation Projects
- Wildfire and Wind Retrofit Projects
- Nature-Based Infrastructure Projects
- Nature-Based Flood Protection Projects
- Technical Assistance Projects
- Earthquake Early Warning System Projects

Local Qualification Factors



- Local government must have a FEMA approved, and locally adopted Hazard Mitigation Plan at the time of application, and at the time of grant award
 - The plan must have the identified project as a mitigation strategy within the plan.
- Local government must be participating in, and in good standing with the National Flood Insurance Program



Notable Projects

BRIC 2021 – All Hazards Consortium Energy Scoping Project BRIC 2021 –Virginia
Beach - Eastern Shore
Drive Drainage
Improvement*

BRIC 2020 – Town of Tangier Microgrid Feasibility Study







* Project Listed in CRMP



Flood Mitigation Assistance

Intent



The intent of the Flood Mitigation Assistance Program (FMA) is to provide funding for projects to either reduce or eliminate the risk of repetitive flood damage to buildings insured by the National Flood Insurance Program (NFIP). FMA is a nationally competitive program. Eligible project types include:

- Individual Flood Mitigation Projects
 - Property Acquisition and Structure Demolition or Relocation
 - Structure Elevation
 - o Mitigation Reconstruction
 - Dry Floodproofing (non-residential structures)
 - o Infrastructural, Structural, and Non-Structural Retrofitting
 - Soil Stabilization
- Community Flood Mitigation Projects
- Flood Mitigation Planning Activities
- Project Scoping
- Technical Assistance
- Management Costs

Local Qualification Factors



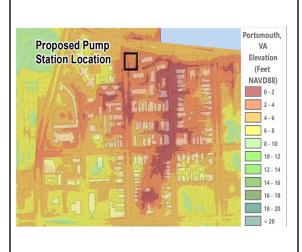
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 - The plan must have the identified project as a mitigation strategy within the plan.
- Local government must be participating in, and in good standing with the National Flood Insurance Program
- The project scope of work must benefit (protect) NFIP insured properties



Notable Projects

FMA 2019 –
Portsmouth Old Town
Road Pump Station*

FMA 2020 – City of Chesapeake Acquisition and Demolition FMA 2019 – Gloucester County Elevation Project







* Project Listed in CRMP



Hazard Mitigation Grant Program

Intent



To support cost effective projects that reduce the long term risk to life and property across the Commonwealth. This program is available after a Major Disaster Declaration is declared in Virginia. Virginia receives 15% of total funds distributed to Virginia under the federal disaster relief fund for this program.

Local Qualification Factors



Your community has to be included in one of the regional hazard mitigation plans that has been approved by FEMA, and adopted locally. The proposed project must be included in your local hazard mitigation plan. If the proposed project is in a FEMA identified floodplain, then the community must be participating and in good standing with the National Flood Insurance Program.



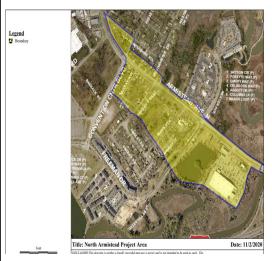
Notable Projects

HMGP 4262 – King George Fairview Beach Soil Stabilization HMGP 4401 – Town of South Boston Riverdale Acquisition and Demolition HMGP 4512 – City of Hampton North Armistead Resilience Project*

HMRP 4262 – Town of Wise Acquisition and Demolitions











* Project Listed in CRMP

Pre-Disaster Mitigation

Replaced by BRIC in 2020
 In 2022 Congressional Earmarks introduced



Notable Projects

PDM 2019 – City of Roanoke Acquisition and Demolition

PDM 2018 – Chesterfield County Water Treatment Plant Flood Wall and Stream Restoration PDM 2019 – Town of Vinton Acquisitions and Demolitions



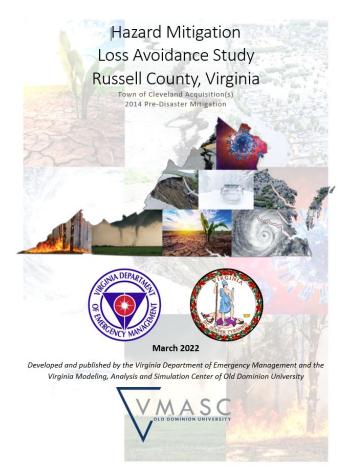






Evaluate Success









Stay Informed

• https://www.vaemergency.gov/divisions/finance/grants/

Grants

Sign-up for Grants Email Notifications

SIGN-UP



THANK YOU!



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Virginia Department of Conservation and Recreation



Our Team

Secretary of Natural and
Historic Resources
(Chief Resilience Officer),
Travis Voyles

Director of DCR, Matthew Wells

Deputy Director, Darryl Glover

DCR is the state's lead natural resource conservation agency. DCR protects natural habitat, parks, clean water, dams, open space and access to the outdoors.

- Parks and Natural Area Preserves
- Land Conservation
- Soil and Water Conservation
- Dam Regulation
- · Floodplain Management
- Resilience Planning

Division of Dam Safety
Chief Engineer, Vacant
Enforcement Team
Engineering Team
Data Management Team

Dam Modeling Team

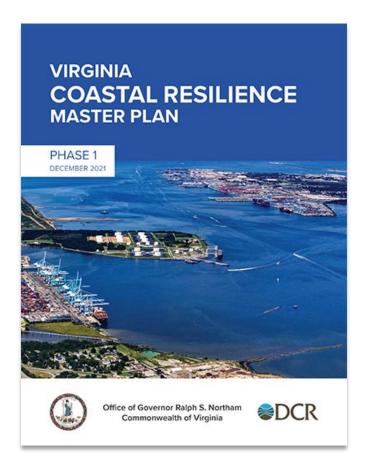
Office of Resilience Planning Program Manager, Matt Dalon

Division of Floodplain Management
Acting Director, Angela Davis
Grants Management Team
NFIP Program Team

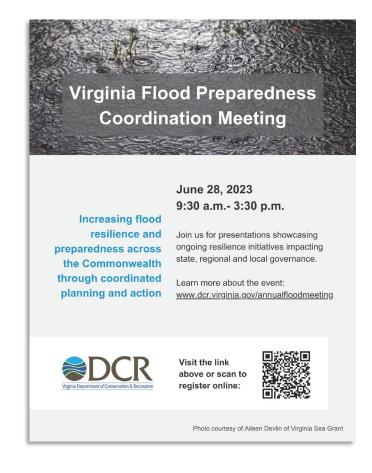


CRO and DCR's Resilience Planning Role

Plan Development



Plan Coordination



Plan Implementation Support

COMMONWEALTH OF VIRGINIA

2022 Grant Manual for the Virginia Community Flood Preparedness Fund

2022 Grant Funding Applications Due: 4 p.m., 04/08/2022

Developed by the Department of Conservation and Recreation





For more information, see Code of Virginia:

§ 10.1-602. Powers and Duties of the Department § 10.1-658. State interest in resilience and flood control

§ 10.1-659. Flood protection programs; coordination

§ 2.2-220.5. Chief Resilience Officer

CRO and DCR's Resilience Planning Activities

Advisory + **Planning Products SNHR / Agency Actors Outreach Groups** Coastal Resilience **Coastal Resilience Master** Chief Resilience Officer **Technical Advisory** Plan* Committee Coastal Resilience Master Special Assistant to the **Planning Framework** Governor for Coastal Adaptation + Protection Public Outreach + **Virginia Flood Protection** Engagement **Master Plan** Community DCR Office of Outreach + **Engagement Plan** Resilience Planning Annual Coordination **Bi-Annual Status Report** External Consulting Support Meeting(s) **Resilience Coordination**

Working Group

*Note: will add other regional resilience master plans in the future

Implementation

CRMP Phase II, December 2024

CRMP Deliverables:

Incorporate Major Flood Hazards:

Coastal Flooding

Riverine/Fluvial Flooding

Rainfall-Driven/Pluvial Modeling

Update Risk Assessment:
Community Resources
Critical Sectors
Natural Infrastructure

Update Project Inventory

Outreach & Engagement

CRMP Schedule:

Utilize CRMP Coastal Data
Utilize existing FEMA Fluvial Data

Apr 2024: Forward-looking pluvial modeling

Jan-Nov 2024: Compound flooding – joint probability analysis

Apr-Nov 2024: Update Phase I impact assessment using updated flood hazard exposure mapping

Dec 2023: Coastal PDCs submit updated list of flood resilience projects from their respective regions to DCR

Ongoing: Project updates and new projects added to Resilience database

Ongoing: Quarterly TAC + subcommittee meetings

Jan - Dec 2024: Ongoing public outreach + engagement

Looking Ahead: Multi-Level Plan Integration

State-Led, Informed by Localities

Coastal Resilience Master Plan (and other Regional Resilience Master Plans?) DCR leads and administers the planning process with state agencies and other stakeholders to focus on statewide risk and state policy action informed by regional master plans.

Regional

DCR leads and administers a planning process with groups of PDCs to translate contents of PDC and/or local plans into prioritized regional actions and needs for state support.



Regional Hazard Mitigation Plans or Resilience Plans **PDCs**

Virginia Flood Protection Master Plan

Commonwealth

Hazard Mitigation Plans, Resilience Plans, Comp Plans Localities

PDCs and/or localities - cognizant of local conditions, capacities, and priorities - develop detailed flood resilience master plans with support from CFPF and/or incorporate flood resilience in hazard mitigation plans with support from VDEM/FEMA or other local plans (i.e. Comprehensive Plan).

Flood Protection Master Plan (Dec 2025)

Purpose:

- 1. Guide **state policy** to build flood resilience
- Provide direction and resources to PDCs, localities and other stakeholders to support and encourage local action

Goals:

Unifying Vision:

Outline a cohesive vision and approach to flood resilience, including to provide resources in support of local action

Data Inventory:

Identify and compile actionable and accessible flood risk analysis products statewide and future data production needs

Critical Infrastructure Risk Assessment:

Identify priority concerns

State-Level Implementation Strategy:

Identify goals, actions, responsible parties, and funding

Future Coastal Resilience Master Plans

May also encompass additional regional plans in other geographic areas

Purpose:

Provide **process, structure, and resources** to support regional and local actors to conduct place-based flood resilience planning in their communities.

Goals:

Prioritize Needs + Projects

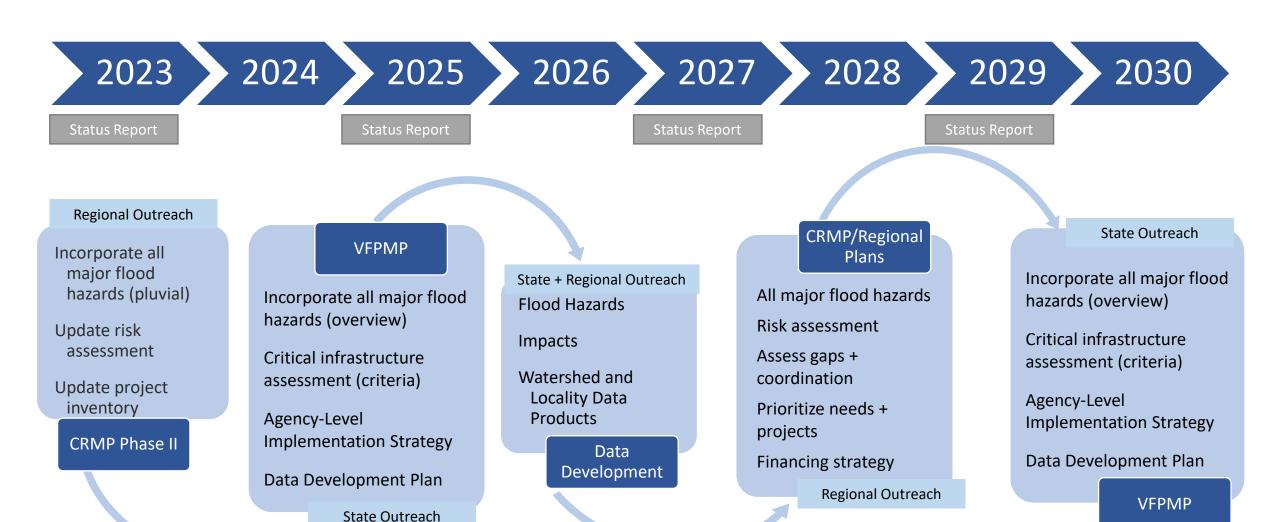
based on an assessment of all major flood hazard risks to critical infrastructure

Establish a Financing Strategy

for the state to support the projects identified as priorities

Coordinate Efforts

between federal, state, regional, and local action to reduce conflict and maximize impact of flood resilience efforts



An adaptative management approach will provide improved flexibility.

Engaging Stakeholders in Planning

Community Outreach and Engagement Plan



Draft Engagement Guiding Principles

- Whole Community
- Transparency
- Opportunity
- Tailored Approaches

Draft Engagement Goals

- 1. Collaborate with existing flood resilience planning outreach and engagement efforts.
- 2. Seek out the participation of affected and vulnerable communities.
- 3. Provide access to information and opportunity for participation.
- 4. Incorporate the views and perspectives of affected communities into decision-making.

Bi-Annual Status of Flood Resilience Report

(§ 2.2-220.5. Chief Resilience Officer)

Responsibility: CRO to prepare the Report in coordination with the Director of Diversity, Opportunity, and Inclusion

Scale: Statewide

Purpose: report to the Governor and General Assembly on the status of flood resilience in the Commonwealth

Requirements:

- Serve as an evaluation of flood protection for critical infrastructure
- Include human and natural infrastructure
- Identify risks to critical infrastructure: transportation, energy, communication, water and food supply, waste management, health, and emergency services
- Include the status of flood resilience planning
- Assistance from all relevant Secretariats and agencies

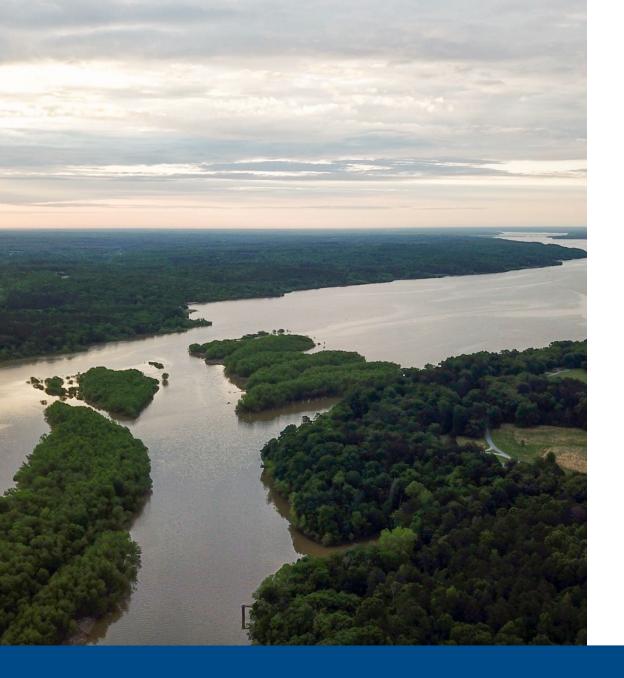
Planning Horizon: Prepared by July 2023 (every 2 years thereafter); draft in progress.



Critical Infrastructure

Assessing Flood Risk, Increasing Resilience

- Built, human, and natural infrastructure
- VDEM as a key partner:
 - Convening critical infrastructure sectors to define, prioritize critical infrastructure
- DCR provides flood exposure data current and forward-looking – to conduct risk assessment
- Critical infrastructure assessment incorporated into CRO's Bi-Annual Status Report
- CRO recommends resilience-building activities
- DCR incorporates assessment and activities into VFPMP and CRMP plans



Inter-Agency Coordination

State agencies can help us to...

- Develop, implement, and monitor progress toward the VFPMP
- Identify critical infrastructure at risk of flooding, and projects, policies, or programs to mitigate risk
- Assist with developing Regional Resilience Master Plans
- Participate in annual coordination meetings and other coordination activities to share knowledge and align flood resilience plans, funding, and activities

Virginia Department of Conservation & Recreation

Consulting Approach

RFPs to support Flood Resilience Planning

Resilience Planning and Consulting Contract(s)

- Qualification-based
 - Range of needed skills and capacities
- Task order-based
- May award multiple contracts
- Maximizing flexibility and resources
- DCR is developing RFP
 - Anticipated release: Jul 2023
 - Anticipated award: Nov 2023

Ongoing Dewberry Contracts:

- Pluvial modeling in coastal region
- Project and funding web app development for coastal resilience web explorer

Additional RFPs possible for IT solutions and ongoing outreach and engagement support.

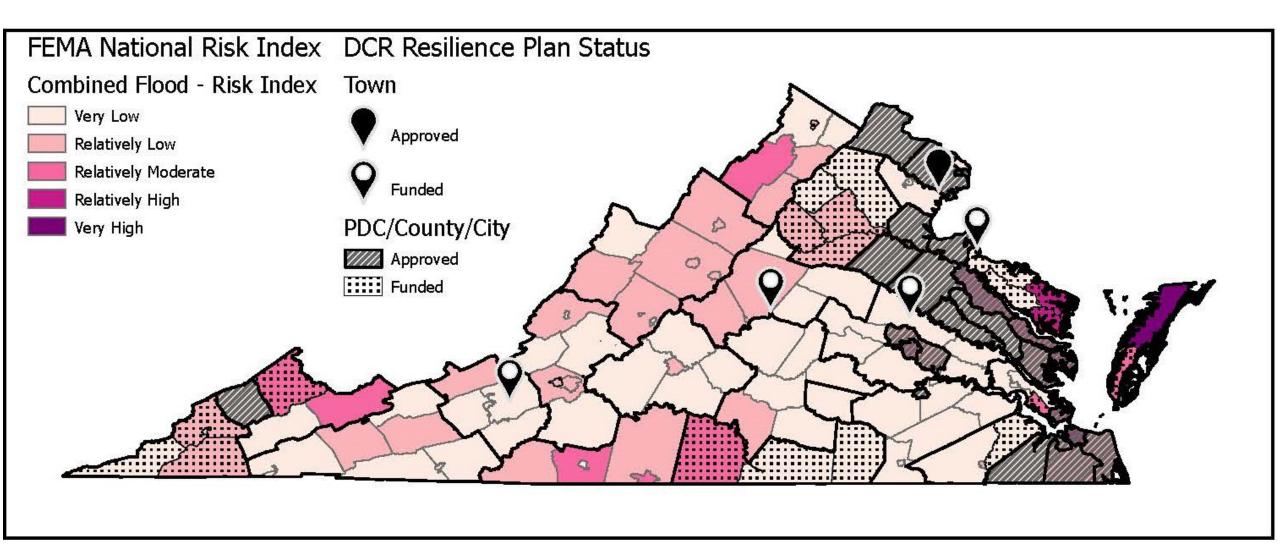


Support for Local Resilience Planning

	Round 1	Round 2	Round 3	Totals
Funds Available	\$ 18,000,000	\$ 17,000,000	\$ 70,000,000	\$ 105,000,000
Number of Applications	32	37	64	133
CFPF Funds Requested	\$ 14,532,740	\$ 29,725,495	\$ 92,472,050	\$ 136,730,285
Funds Awarded	\$ 7,796,040	\$ 24,551,923	\$ 65,388,627	\$ 97,736,590
Low Income Awarded	\$ 3,766,515	\$ 19,759,944	\$ 42,384,643	\$ 65,911,103
Non-Low Income Awarded	\$ 4,029,525	\$ 4,791,979	\$ 23,003,983	\$ 31,825,487



Local Plans: Approved and Funded



6/27/2023 41

Thank you!



Break

