Virginia Flood Protection Master Plan Presentation

Thursday, September 26th 2024

Photo: Virginia Department of Conservation & Recreation

Arcadis Team Introductions

John Millspaugh, PE, PMP

Krista Jankowski, PG, PhD

Catherine Johnson

Madison Teeter, CFM

Subcontractor Introductions

Anticipated Meeting Outcomes

Stakeholder participants in the Stage Setting Meeting will...

1. Have a clear understanding of the purpose of the VFPMP

2. Feel confident about their role in the development of the VFPMP

3. Understand the development timeline of the VFPMP

4. Feel comfortable connecting with DCR and the Arcadis team with input and feedback they may have on the VFPMP throughout its development

Anticipated Meeting Outcomes

Plan Development Team will...

1. Understand the best methods of how to communicate with stakeholders throughout VFPMP development to include their expertise and insights

2. Understand stakeholders' expectations of our team as the VFPMP is developed

The Virginia Flood Protection Master Plan (VFPMP) will be **an actionable plan** for the Commonwealth to use in crafting policies and programs to mitigate the impacts of flooding on people, the economy, and the environment.
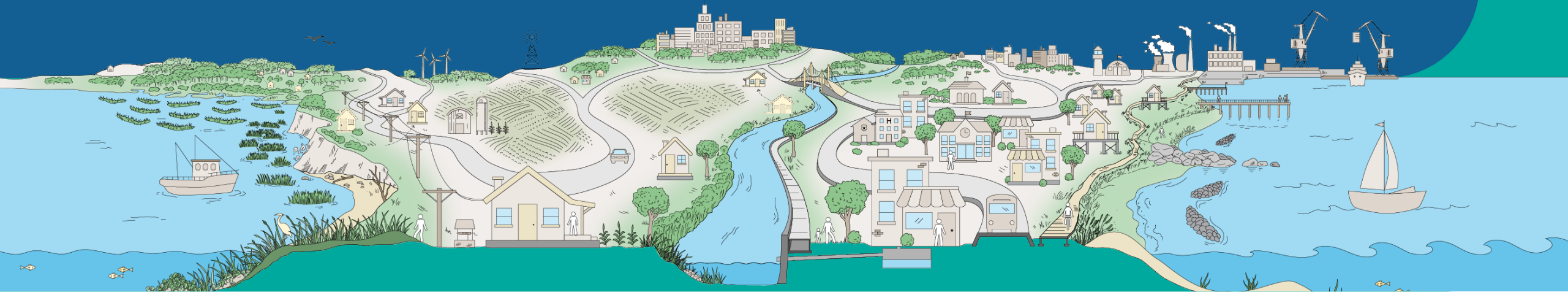
Virginia Flood Protection Master Plan (VFPMP)

MOTIVATION

Recurrent Flooding and Minimizing Losses: Frequent storm events and rising tidal waters cause recurrent flooding, leading to loss of life, property damage, and unsafe conditions. The development of the VFPMP aims to minimize losses from future flooding events.
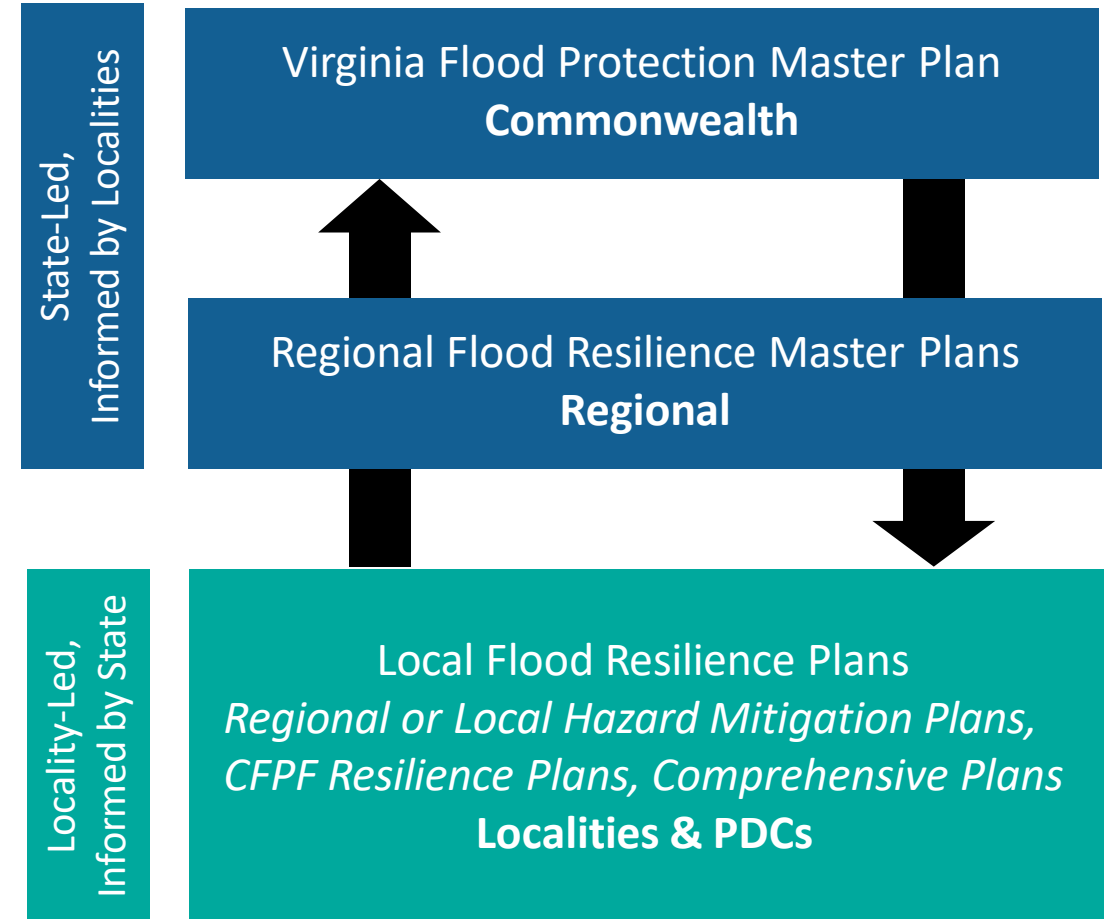
Enhancing Resilience: The VFPMP development process seeks to improve the Commonwealth's flood resilience. The ability to anticipate, prepare for, respond to, and recover from flood hazards with minimal damage to social well-being, health, the economy, and the environment.

Need for a Coordinated Approach: Flood resilience planning has become common at local and regional levels, but there is a need for a coordinated state-level approach in the Commonwealth to connect state agency initiatives with local needs.

The VFPMP will be updated every 5 years to identify further gaps and needs as approaches are implemented and more information about how flooding impacts the Commonwealth is collected.

Understanding VFPMP's Role in Virginia's Flood Resilience Planning Efforts

- The Virginia Flood Protection Master Plan is intended to inform smaller scale plans and vice-versa

- The primary end users of the Virginia Flood Protection Master Plan will be Virginia state agencies

- Focus on state agencies will allow for flood resilience planning to spread throughout state initiatives and flow down into regional & local programs

State-Led, Informed by Localities

Virginia Flood Protection Master Plan
Commonwealth

Regional Flood Resilience Master Plans
Regional

Locality-Led, Informed by State

Local Flood Resilience Plans
Regional or Local Hazard Mitigation Plans, CFPF Resilience Plans, Comprehensive Plans
Localities & PDCs

Components of VFPMP

Flood Impact Summary

Flood Resilience Gap Analysis

Policy & Program Strategy

Flood Impact Summary

Process

- Flood data collection and review
- Asset inventory of population, economic, environmental, and critical infrastructure data
- Develop & perform statewide impact analysis

Outcome

- A holistic picture of current and future flood impacts across Virginia to use in prioritizing state resources

Flood Resilience Gap Analysis

Process

- Identify gaps in flood data necessary for decision-making in resilience planning informed by **Flood Impact Summary**
- Identify technical and capacity resources that will be needed to implement flood resilience activities statewide

Outcome

- A list of potential actions to fill gaps in data, resources, capacity needs at the state agency level

VIRGINIA
**FLOOD
PROTECTION**
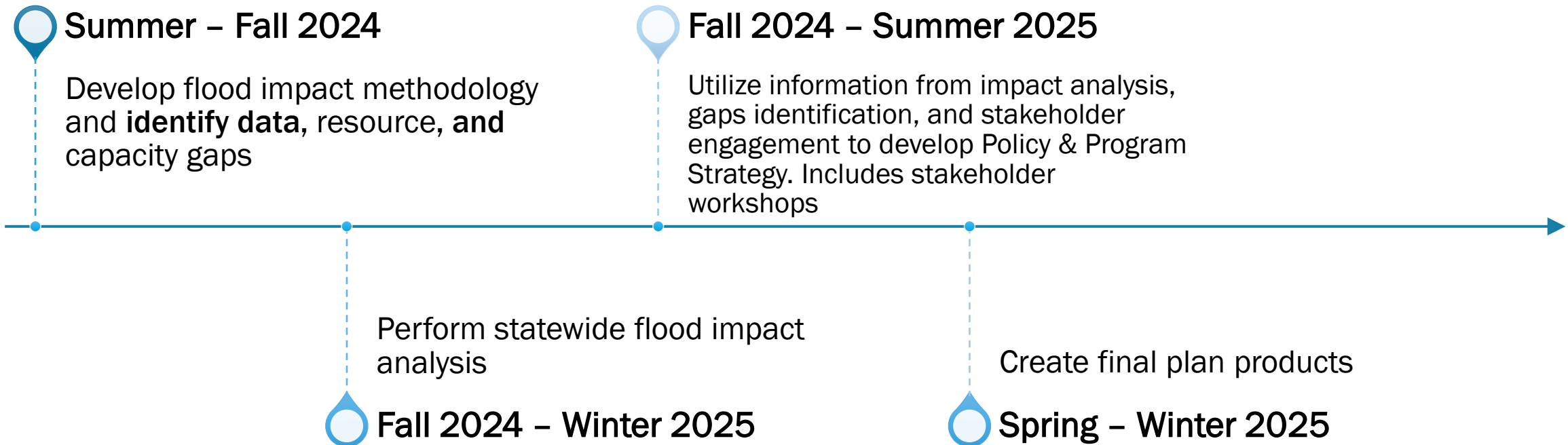MASTER PLAN

Policy & Program Strategy

Process

- Create a shared vision and goals for the VFPMP through a collaborative stakeholder engagement process
- Identify flood resilience strategies informed by **Flood Resilience Gap Analysis**
- Develop an implementation road map for the flood resilience strategies to be implemented in 2025-2030

Outcome

- An actionable strategy to achieve a shared vision and goals, which includes flood resilience metrics for state agencies

Overview Timeline of VFPMP Component Development

Summer – Fall 2024

Develop flood impact methodology and **identify data,** resource, **and** capacity gaps

Fall 2024 – Summer 2025

Utilize information from impact analysis, gaps identification, and stakeholder engagement to develop Policy & Program Strategy. Includes stakeholder workshops

Perform statewide flood impact analysis

Fall 2024 – Winter 2025

Create final plan products

Spring – Winter 2025

VIRGINIA
FLOOD
PROTECTION
MASTER PLAN

Stakeholders' Role in VFPMP Development

Core Stakeholders

- State agencies or entities that will play a critical role in developing and/or implementing the VFPMP.
  - Based on their agency's or organization's function, they will be able to contribute actionable input and feedback during multiple stages of plan development.
  - These stakeholders can play a leading role in implementing the plan after its development.

Supporting Stakeholders

- State agencies or entities situated outside of the core plan development team who may:
  - Possess a vested interest in the plan
  - Be impacted by the plan's activities
  - Be able to provide expertise to specific components of the plan.

General Public of the Commonwealth

- All other entities, organizations, and individuals in the Commonwealth. Engagement opportunities will be made available to these stakeholders throughout the VFPMP's development.
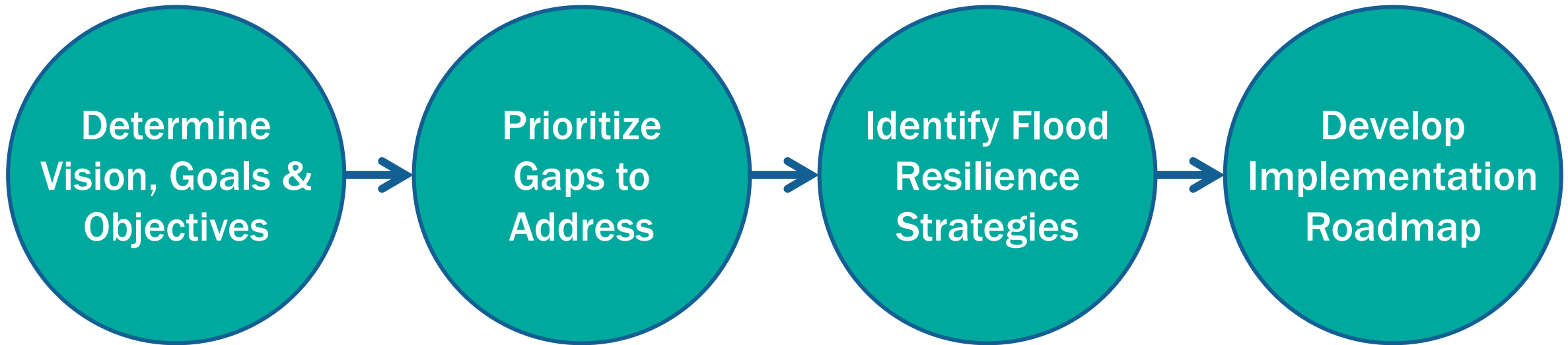
Core Stakeholders

- Flood Resilience Advisory Committee
- Office of Commonwealth Resilience / Chief Resilience Officer
- Office of Diversity, Opportunity, and Inclusion
- Virginia Department of Conservation and Recreation
- Virginia Department of Emergency Management
- Virginia Department of Environmental Quality
- Virginia Department of Forestry
- Virginia Department of General Services
- Virginia Department of Historic Resources
- Virginia Department of Housing and Community Development

- Virginia Department of Transportation
- Virginia Department of Wildlife Resources
- Virginia Marine Resources Commission
- Virginia Resources Authority
- Office of Intermodal Planning and Investment
- Chesapeake Bay Commission
- Virginia Association of Counties
- Virginia Association of Planning District Commissions
- Virginia Municipal League
- Virginia Silver Jackets

# Key Points in Collaboratively Developing the VFPMP

Today's Stage Setting meeting & workshop will help inform future key collaboration points with stakeholders by mapping out agency roles and identifying past and on-going flood resilience efforts. Future engagement points will be centered around the following topics:

Determine Vision, Goals & Objectives → **Prioritize Gaps to Address** → **Identify Flood Resilience Strategies** → **Develop Implementation Roadmap**

Determine Vision, Goals & Objectives

Prioritize Gaps to Address → Identify Flood Resilience Strategies → Develop Implementation Roadmap

Collectively define clear desired outcomes to guide the Virginia Flood Protection Master Plan.
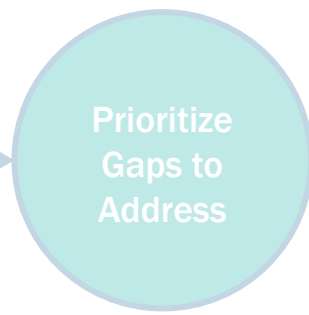
Inputs

A draft set of goals and objectives, drawing from and crosswalking against existing state agency documents and resources.

Virtual Feedback Session

Review and provide input on draft goals and objectives.

What's missing? How can we strengthen?

In-Person Workshop

Collaborative vision-setting exercise.

Finalize goals and objectives.

Identify objectives that may require trade offs later in the process.

Attendance:
- Core & Supporting stakeholders will be invited to the Virtual Feedback Sessions
- Core stakeholders will be invited to the In-Person Workshops

> **Consensus on objectives** that will provide the foundation for how gaps and strategies are prioritized.

VIRGINIA FLOOD PROTECTION MASTER PLAN

Prioritize Gaps to Address
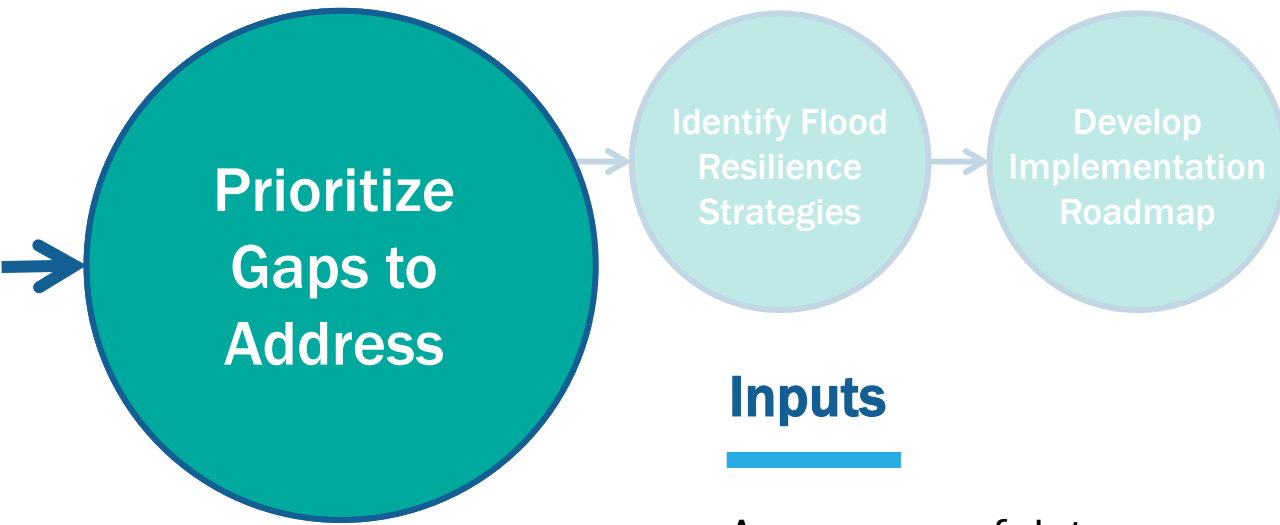
Identify and prioritize data, resource, and capacity gaps in statewide management of flood risk.

Identify Flood Resilience Strategies

Develop Implementation Roadmap

Inputs

A summary of data, resource, and capacity gaps that emerge from a review of existing documentation.

Virtual Feedback Session

Review identified gaps and map them to plan objectives.

In-Person Workshop

Discuss how identified gaps may impact plan objectives in the future if not addressed.

Prioritize gaps based on objectives and feasibility.

Map gaps to agency roles and responsibilities.

Attendance:
- Core & Supporting stakeholders will be invited to the Virtual Feedback Sessions
- Core stakeholders will be invited to the In-Person Workshops

Consensus on priority data, resource, and capacity gaps to address through flood resilience strategies.

VIRGINIA
FLOOD
PROTECTION
MASTER PLAN

Identify Flood Resilience Strategies

→ Develop Implementation Roadmap

Identify statewide actions that can be taken within the next five years to address gaps and strengthen Virginia's flood resilience.

Inputs

A draft list of potential solutions and strategies to address identified gaps and flood impacts.

Virtual Feedback Session

Review and provide input on identified list of potential strategies.

What additional options are there? How can strategies be improved?

In-Person Workshop

Discuss how potential strategies may improve plan objectives if implemented.
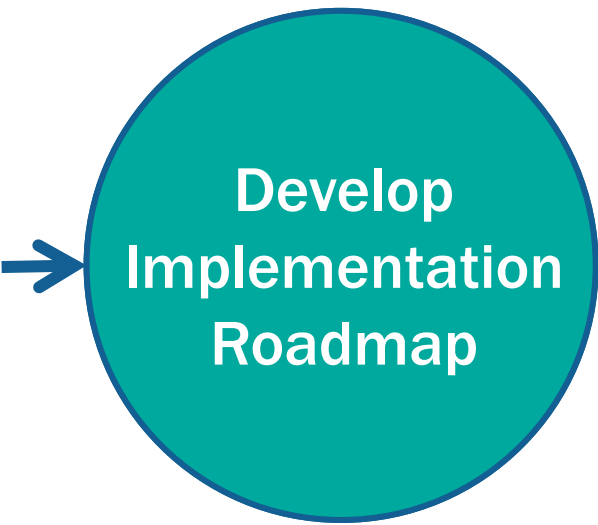
Discuss and weigh tradeoffs between different approaches.

Attendance:
- Core & Supporting stakeholders will be invited to the Virtual Feedback Sessions
- Core stakeholders will be invited to the In-Person Workshops

> **Collectively developed set of flood resilience policies and programs** to include in the plan.

VIRGINIA FLOOD PROTECTION MASTER PLAN

Develop Implementation Roadmap

Outline mechanisms, timelines, responsible parties, required resources, and success metrics to guide implementation.

Inputs

Draft implementation details for identified strategies.

Virtual Feedback Session

Review and provide input on draft implementation details.

Discuss alignment with other plans and programs.

In-Person Workshop

Identify agency roles, responsibilities, and opportunities for collaboration and plan alignment

Identify sequencing, necessary resources, and adaptive management of plan.

Attendance:
- Core & Supporting stakeholders will be invited to the Virtual Feedback Sessions
- Core stakeholders will be invited to the In-Person Workshops

A clear roadmap for how the plan will be implemented and managed across agencies over its five-year timeframe.

VIRGINIA
FLOOD PROTECTION
MASTER PLAN

Other Forms of Engagement

One-on-one Interviews with Core Stakeholders

- Interviews with Core Stakeholders who have a high influence over how the VFPMP will be implemented

General Public

- The public will have the opportunity to provide feedback on the VFPMP during its development through:
  - Public surveys
  - Public comment periods during meetings

Further Engagement Sessions for Stakeholders

- Based on the level of feedback and engagement received from stakeholders throughout VFPMP development, other engagement points may become available, such as:
  - Working Group sessions focused on specific VFPMP components
  - Detailed feedback surveys

Overview of VFPMP Development Schedule & Engagement Points

Annual Virginia Flood Preparedness Coordination Meeting

Final Goals & Vision Developed

Flood Resilience Advisory Committee (FRAC) Meeting
Final Prioritization Gaps Selected

Final List of Strategies Developed

Annual Virginia Flood Preparedness Coordination Meeting

FRAC Meeting

| Sep. 2024 | Nov. 2024 | Jan. 2025 | Feb. 2025 | Mar. 2025 | Apr. 2025 | June 2025 | July 2025 | Aug. 2025 | Sept. 2025 | Oct. 2025 | Dec. 2025 |

Determine Visions, Goals, & Objectives Workshop

Prioritize Gaps to Address Workshop

Identify Flood Resilience Strategies Workshop

Develop Implementation Roadmap Workshop

Final Implementation Roadmap Developed

VFPMP Final Product Delivery

*Schedule subject to change based on VFPMP development

31

VFPMP Final Products

📄	**Written PDF Plan**	The full plan document designed for state leadership, and appendices designed for use by practitioners.	Audience: Governor & GA
📋	**Implementation Guide**	A summary of the policy and program strategy designed for quick reference.	Audience: State Agencies
🗺️	**StoryMap & Data Viewer**	A summary of the major plan elements that allows for interactive engagement.	Audience: Public
🖥️	**VFPMP Webpage**	General plan information (purpose, process, & results). Periodically updated with progress/metrics tracking.	Audience: Public

VIRGINIA
**FLOOD
PROTECTION**
MASTER PLAN

Questions?

Thank you!

Virginia Department of Conservation & Recreation

ARCADIS

VIRGINIA
FLOOD
PROTECTION
MASTER PLAN

Web dcr.virginia.gov/resilience-planning

Newsletter dcr.virginia.gov/signup

Email flood.resilience@dcr.virginia.gov