# A Draft Framework for Developing **DRBC's Climate Resilience Plan**

September 11, 2024 Advisory Committee on Climate Change

Sarah Beganskas, Ph.D. Kevin Pregent, Esq.



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#### Resolution 2024-04

- Recognizes the state of climate science
- Highlights climate action plans developed by Commission members
- Finds that climate change impacts the water resources of the Basin and the functionality and resilience of water infrastructure
- Directs the Commission to include a climate section in the Water
  Resources Program and to develop its own Climate Resilience Plan



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#### Funding priorities and timing

- At this time, no new resources are allocated to this CRP effort, but supplemental funding may be sought in the future
- Anticipating an **iterative process** over short-, mid-, and long-term timeframes



- The CRP will include prioritized actions for evaluating impacts of climate change and formulating management approaches to improve resilience and adaptation to a changing climate
- Consultation with ACCC and other stakeholders
- Funding priorities and timing
- Actions within the Commission's authority may include:
  - Flow and drought management
  - Flood loss
  - Water quality

- Water use and water efficiency
- Water equity and environmental justice
- Regulations



#### DRBC Authority: The Delaware River Basin Compact

- The Commission receives its authority from the Compact
- Articles 4 through 10 of the Compact identify water resourcerelated concerns within the Commission's substantive jurisdiction:
  - Water supply
  - Pollution control
  - Flood protection
  - Watershed management
  - Recreation
  - Hydroelectric power
  - Withdrawals and diversions



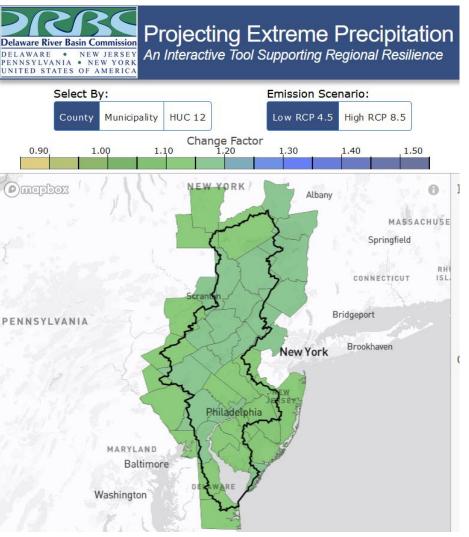
#### Resolution 2024-04: Public Input

- Generally supportive highlighted importance of rulemaking
- Specific comments:
  - Desire for greenhouse gas mitigation/prevention
  - Request to consider climate change in FFMP actions
  - Consult ACCC in project review process
- Expect future opportunities for public participation
  - Rulemakings
  - Comprehensive Plan changes
  - Annual Water Resources Program



#### Flood loss reduction

- Extreme precipitation projections, interactive tool
- Hazard mitigation assistance grants



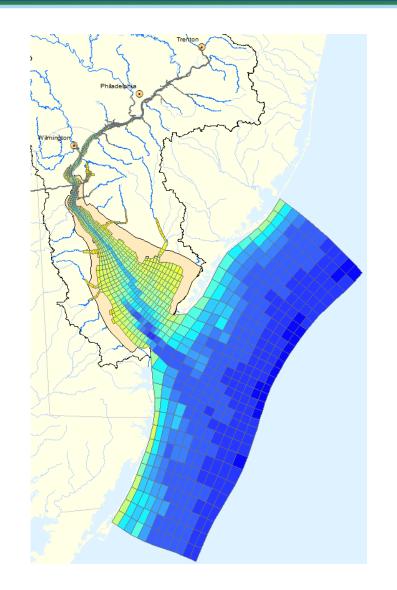
This projection tool was developed by the <u>Northeast Regional Climate Center (NRCC</u>) at Cornell University on behalf of the <u>DRBC</u>.

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- $\,\circ\,$  Salinity and sea-level rise
- Storage feasibility
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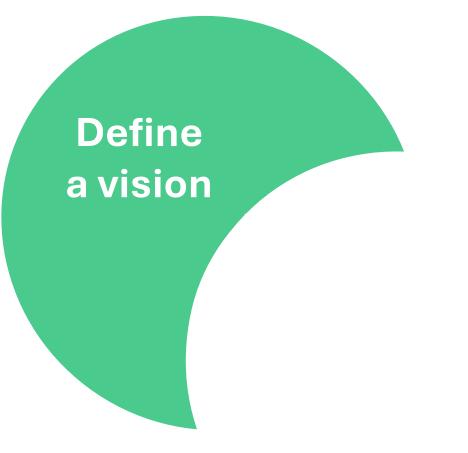
#### Outreach and education

- ACCC Climate Change Forum (Jan. 2023)
- Joint workshop with EPA R3 (Oct. 2024)
- NJ Assn Floodplain Managers meeting (Oct. 2024)



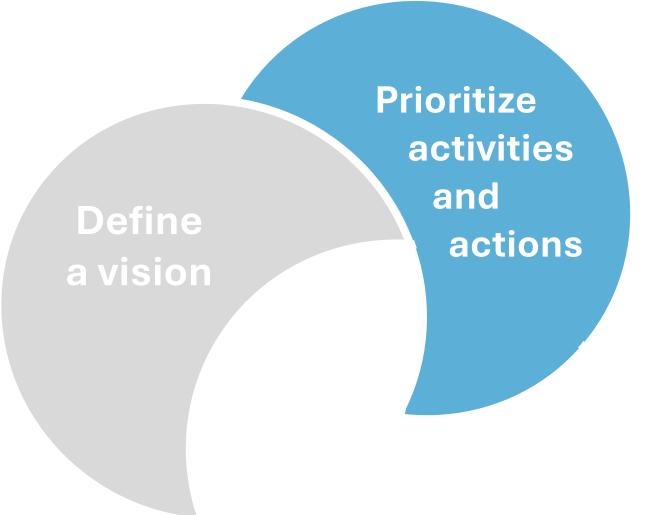
DRBC's climate resilience plan will coordinate, guide, and expand ongoing and future work





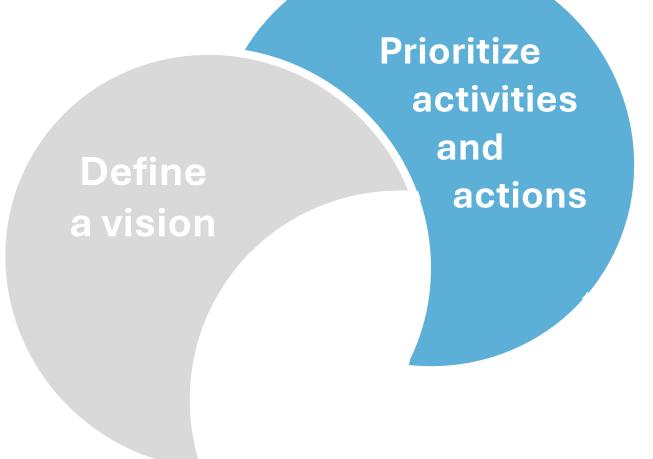
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#### This list may include...

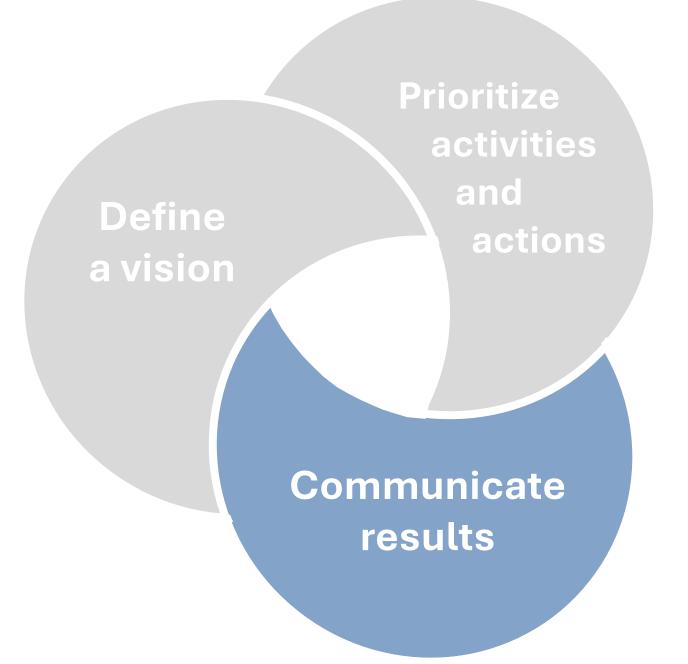
#### Research

- Model development
- Improving predictions
- Trend analysis
- Monitoring
- Extreme value studies

#### Interactive data tools

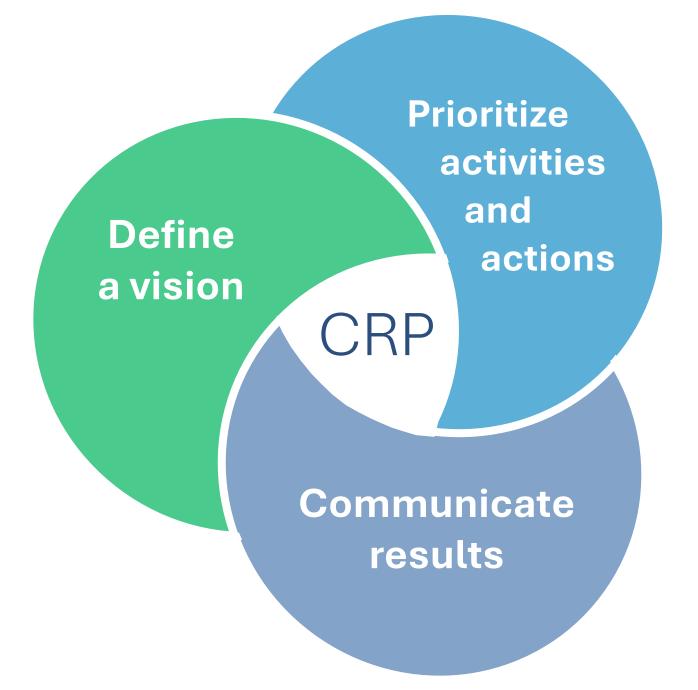
- Report cards; new metrics
- Outreach
  - Partnership development
  - EJ community engagement
- Intergovernmental coordination
- Policy and regulation
- And more...





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# DRBC's Resilience Team includes representatives from each section

- Team lead + Water Resource Planning: Sarah Beganskas
- Senior Management Team liaison: Kristen Bowman Kavanagh
- *Legal*: Kevin Pregent
- External Affairs and Communications: Chris McCann
- Project Review: Eric Engle and Raveena Pachucki
- Water Resource Operations: Sara Sayed
- Water Quality Assessment: Jake Bransky
- Water Quality Modeling: Joseph Fogarty



#### Resilience Team







# Resilience Team







# Resilience Team

Climate resilience plan framework

 Define vision, goals, and metrics







# Resilience Team

- Define vision, goals, and metrics
- What types of actions are in DRBC's authority?







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- What types of actions are in DRBC's authority?
- Resources available





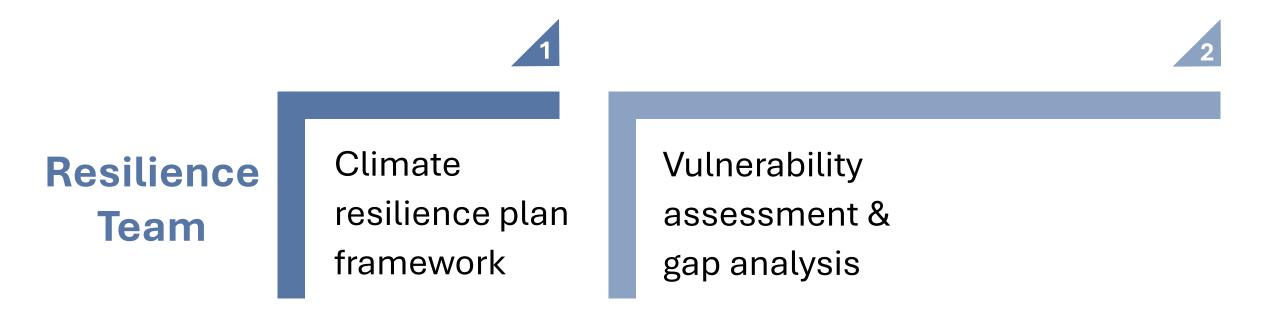


## Resilience Team

- Define vision, goals, and metrics
- What types of actions are in DRBC's authority?
- Resources available
- Outline Phases 2 & 3

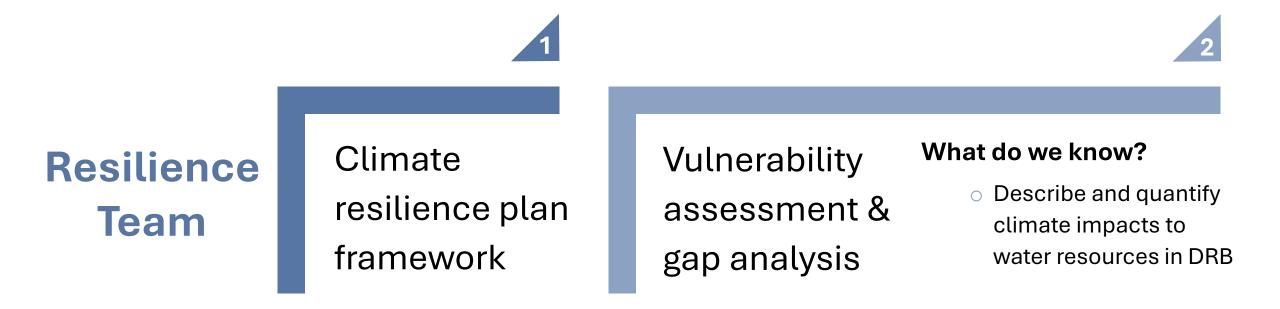






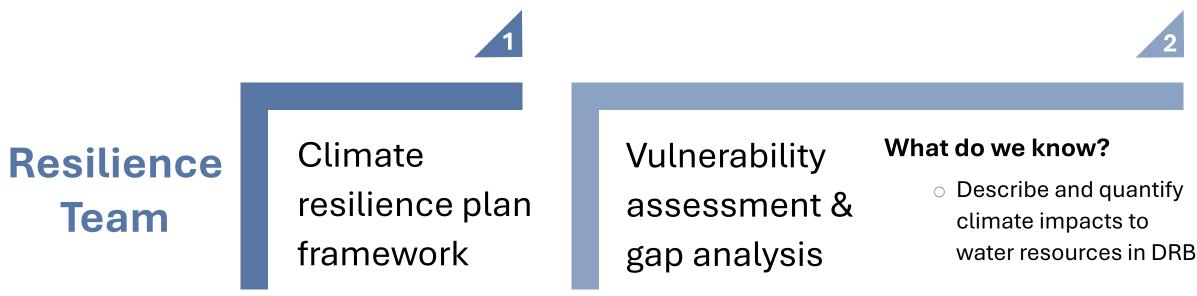






#### DRBC



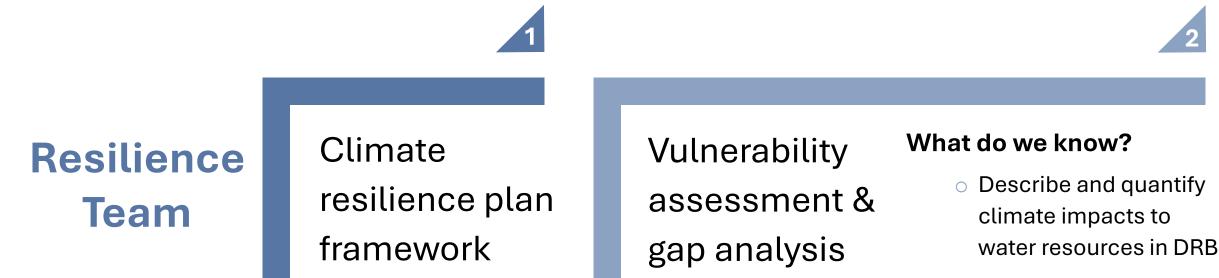


# What information do we need to guide planning?

- Data / monitoring
- DRBC's role in relation to partners' work



#### DRBC

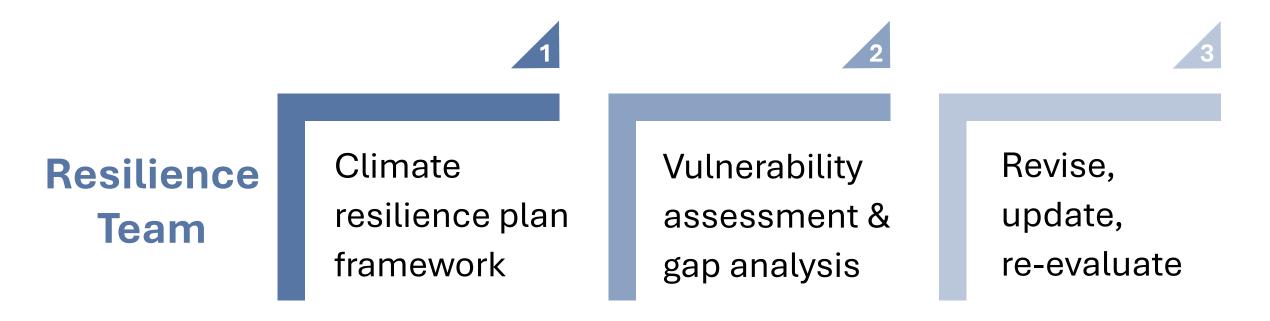


DRBC

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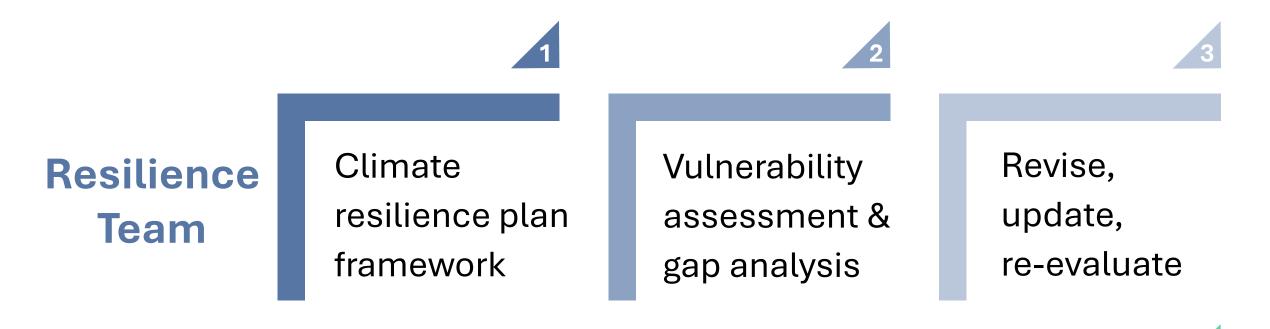
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Prioritized list of possible activities and actions



#### DRBC

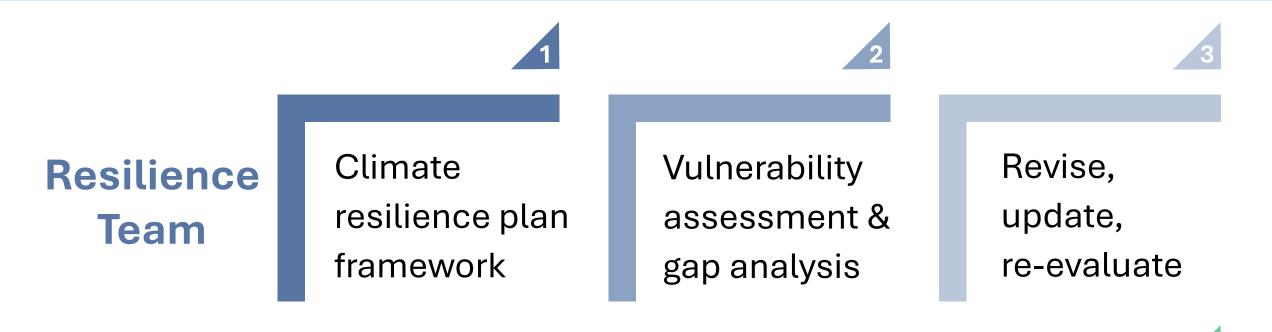




#### DRBC

**Staff** continue ongoing climate-related work



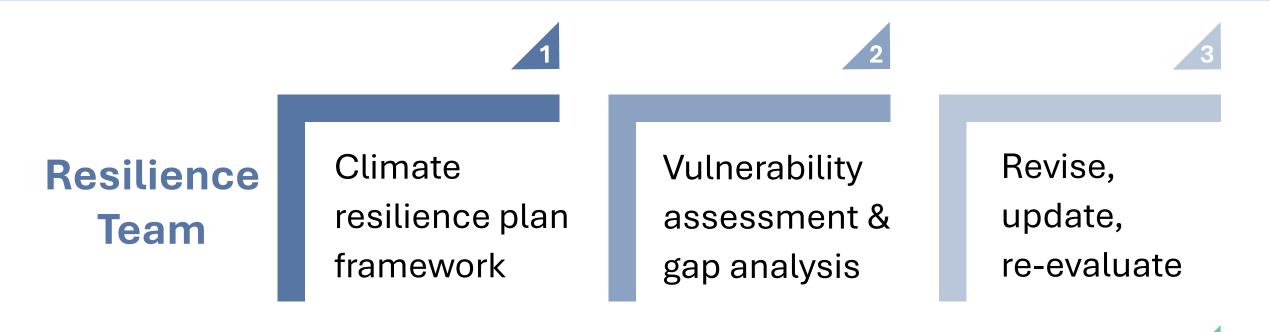


#### DRBC

# **Staff** continue ongoing climate-related work

- Update Water Resources Program annually (with public input)
- Funding, monitoring, tools and resources





#### DRBC

**Staff** continue ongoing climate-related work

**Commission** considers additional actions as identified in CRP



# DRBC's climate resilience planning process has begun.

Any lessons learned or guidance to share at this early stage?



