

Resilient Inland Bays

Launching the Southern Delaware Coastal Resilience Plan



**DELAWARE
CENTER FOR THE
INLAND BAYS**

preserve • protect • restore

Michelle Koenig, Director of Watershed Conservation
Lisa Swanger, Director of Outreach and Education
Meghan Noe Fellows, Director of Estuary Science and Restoration



Southern Delaware Coastal Resilience Plan

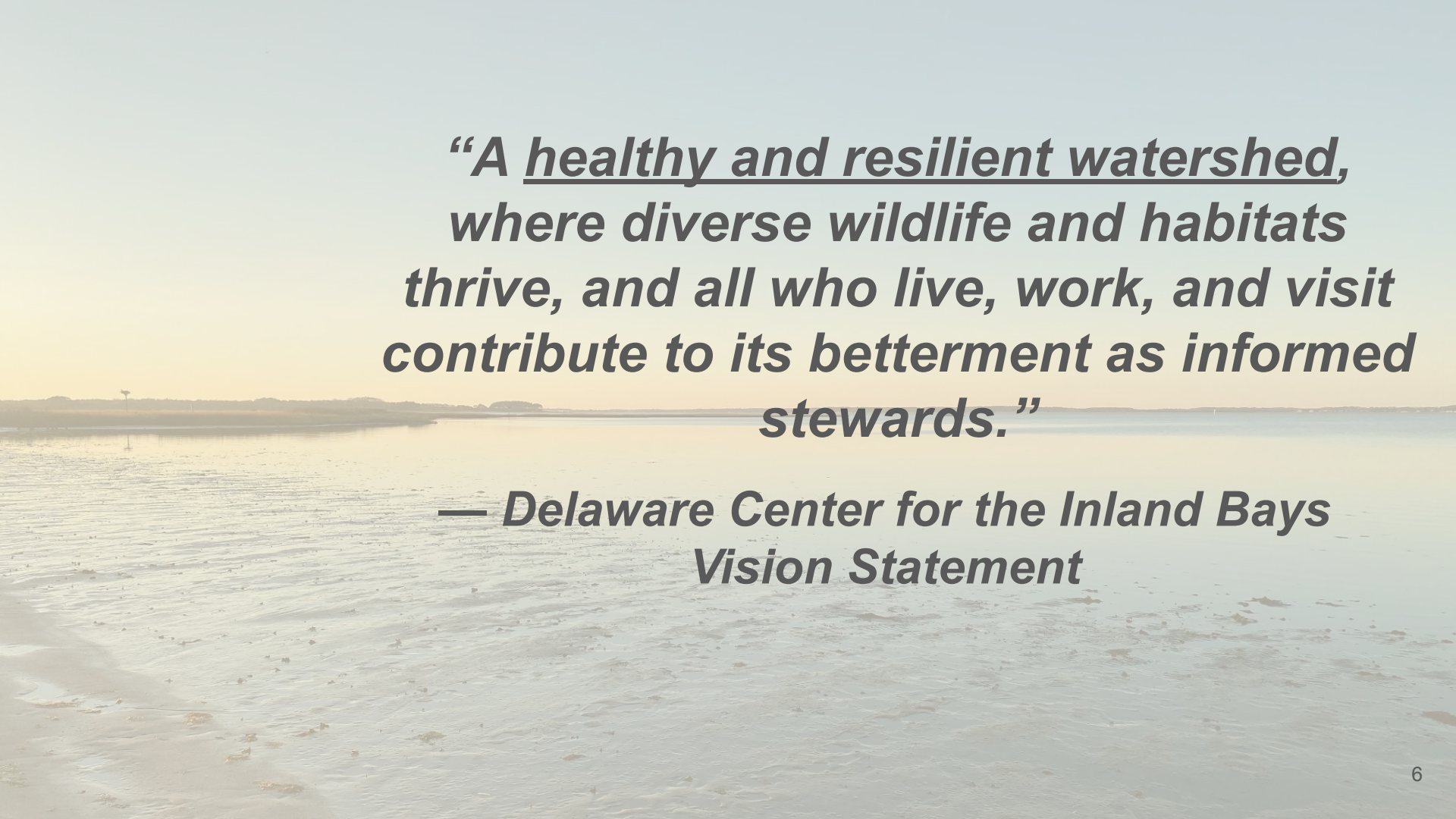
Our mission is to preserve, protect, and restore the Delaware Inland Bays and their watershed.



Our mission is to preserve, protect, and restore the Delaware Inland Bays and their watershed.

We achieve this through science-based: research, restoration, education, outreach, public policy, and advocacy.





***“A healthy and resilient watershed,
where diverse wildlife and habitats
thrive, and all who live, work, and visit
contribute to its betterment as informed
stewards.”***

***— Delaware Center for the Inland Bays
Vision Statement***



Resilience is the ability to adapt to changing conditions and withstand—and rapidly recover from—disruption due to emergencies.

Audience Participation

- Four rounds
- Online folks - send me answers via email
- Can send in after each round
- Inroom folks- paper at your table
- You do not have to participate- but
- Your anonymous answers will be part of
our next steps - Be the Change



Southern Delaware Coastal Resilience Plan

Resiliency has:

Resilient Economy

Resilient People

Resilient Society

Resilient Built Environments

Resilient Natural Environments

What is missing?

Audience Participation

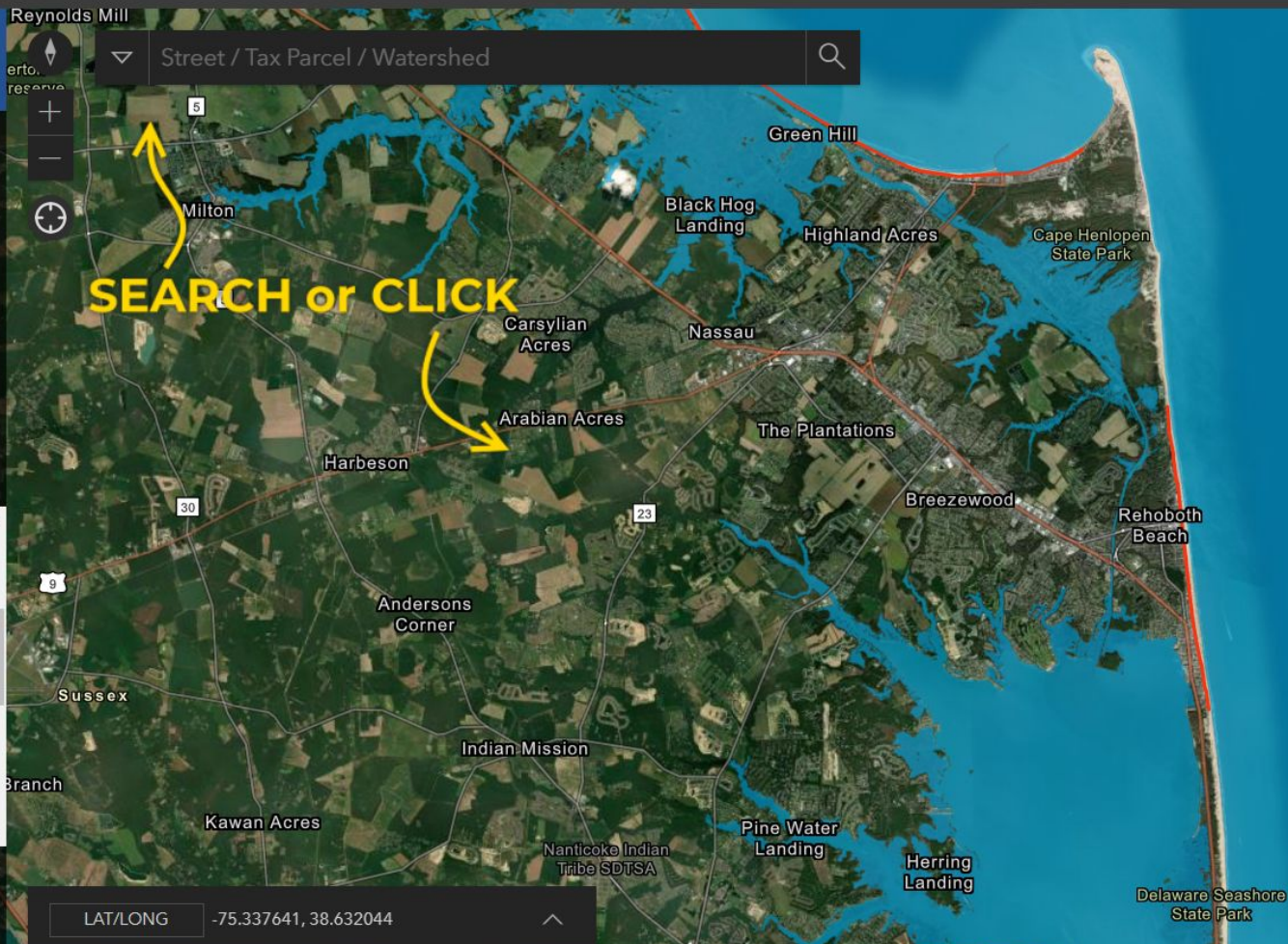
Thank you.

Southern Delaware Coastal Resilience Plan

**Why is coastal resilience so important to
our communities?**

FLOOD PLANNING TOOL

- ☐ Municipalities
- ☒ Sea Level Rise
 - ☐ MHW
 - ☒ MHW + 1 ft
 - ☐ MHW + 2 ft
 - ☐ MHW + 3 ft



FLOOD PLANNING TOOL

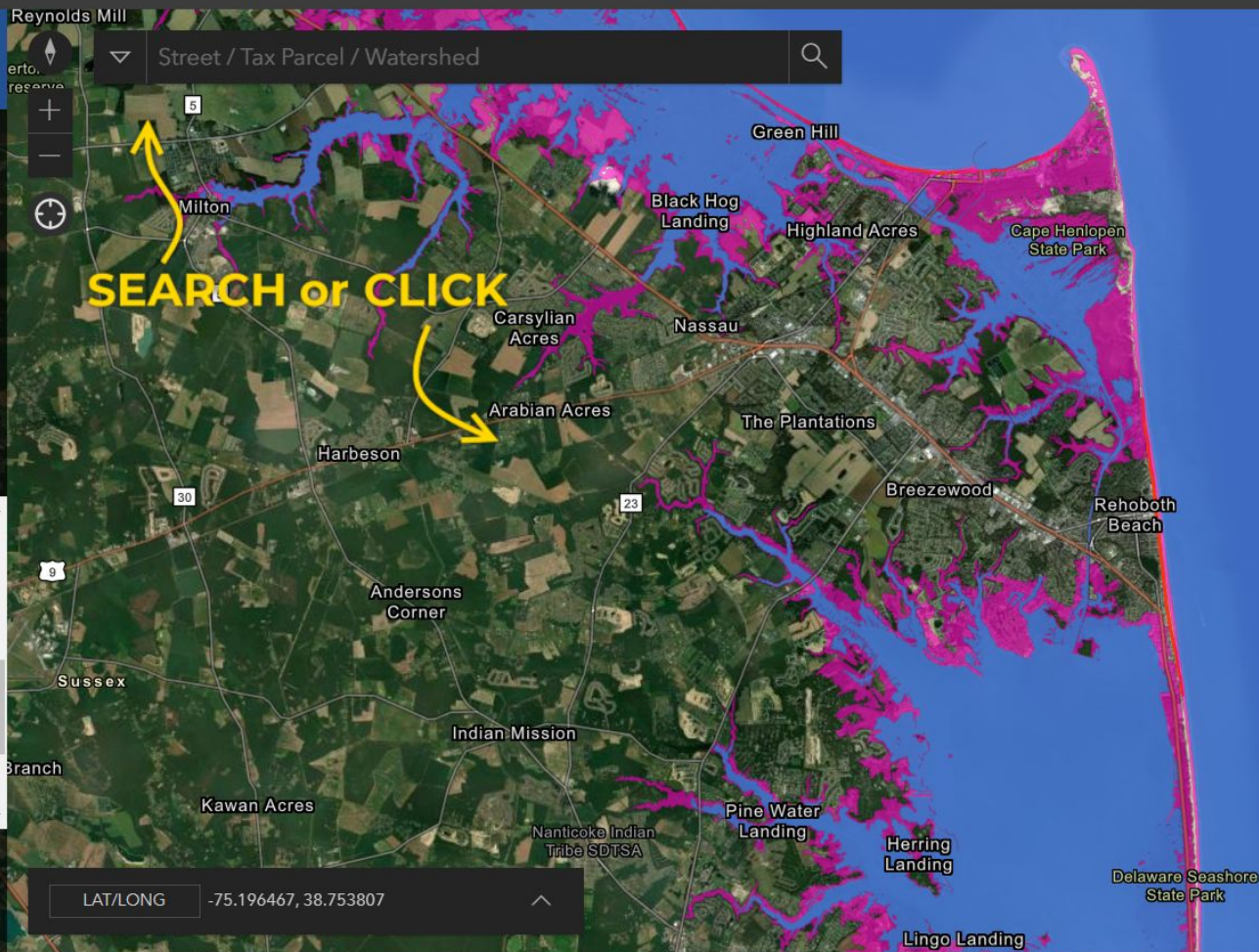


- ☐ MHHW + 2 ft
- ☐ MHHW + 3 ft
- ☐ MHHW + 4 ft
- ☐ MHHW + 5 ft
- ☐ MHHW + 6 ft
- ☒ MHHW + 7 ft

Tax Parcels



DELAWARE DEPARTMENT OF
NATURAL RESOURCES AND
ENVIRONMENTAL CONTROL



Home / Earth / Earth Sciences
Home / Earth / Environment

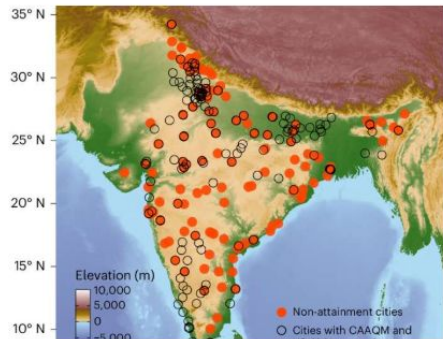
1 JULY 24, 2024

Editors' notes

Air quality improvements in India partially due to weather, study finds

by University of Reading

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Availability of continuous PM monitoring data in Indian cities. Credit: Nature Sustainability (2024). DOI: ...

A significant portion of recent improvements in air quality in India resulted from favorable meteorological conditions that are unlikely to persist as the climate changes, a new study has found.



Can an RMD Be Transferred into a Roth IRA?

Rapid industrialization and population growth have led to significant increases in emissions and air pollution to dangerous levels in India. To address this challenge, the Indian government implemented the National Clean Air Programme (NCAP) to reduce emissions of fine particulate air pollutants (particulate matter with diameters less than 2.5 microns (PM_{2.5}) and 10 microns (PM₁₀) and their

“... improvements in air quality in India resulted from favorable meteorological conditions... unlikely to persist as the climate changes. . .”

“Nature-based solutions are sustainable planning, design, environmental management and engineering practices that weave natural features or processes into the built environment to promote adaptation and resilience.”

- *Building Community Resilience with Nature-Based Solutions (FEMA, 2021)*

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- *Building Community Resilience with Nature-Based Solutions (FEMA, 2021)*



Audience Participation



Southern Delaware Coastal Resilience Plan

What nature based solutions can we (CIB and its partners) implement in the next five years in the Inland Bays?

Southern Delaware Coastal Resilience Plan

What nature based solutions can we (CIB and its partners) implement in the next five years in the Inland Bays? (some of our answers)

Living shorelines

Environmental education

Reforestation

Land-use policies

Wetland creation/enhancement

HOA bylaws

Oyster Reef creation/enhancement

Answers to share?

Audience Participation

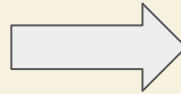
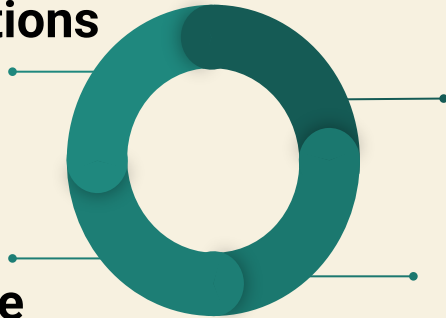
Thank you.

Southern Delaware Coastal Resilience Plan

Strategies For Information Collection

Community
Conversations

Online
Questionnaire

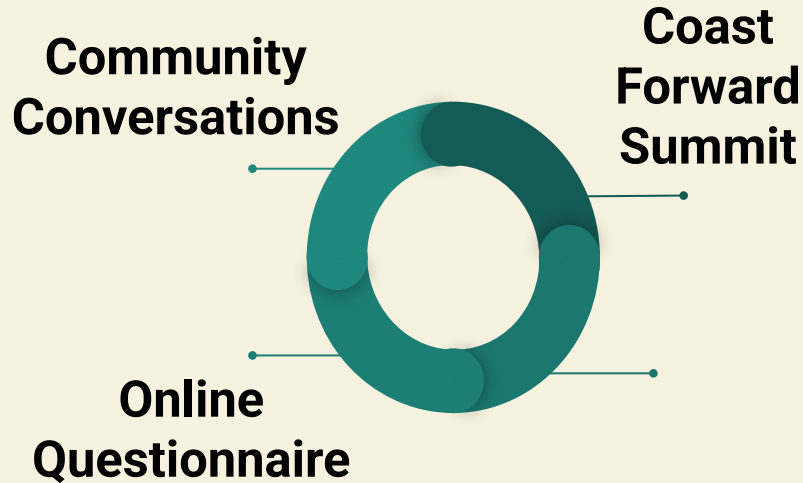


Outcomes

Three empty light blue rounded rectangular boxes stacked vertically, intended for listing outcomes.

Southern Delaware Coastal Resilience Plan

Strategies For Information Collection

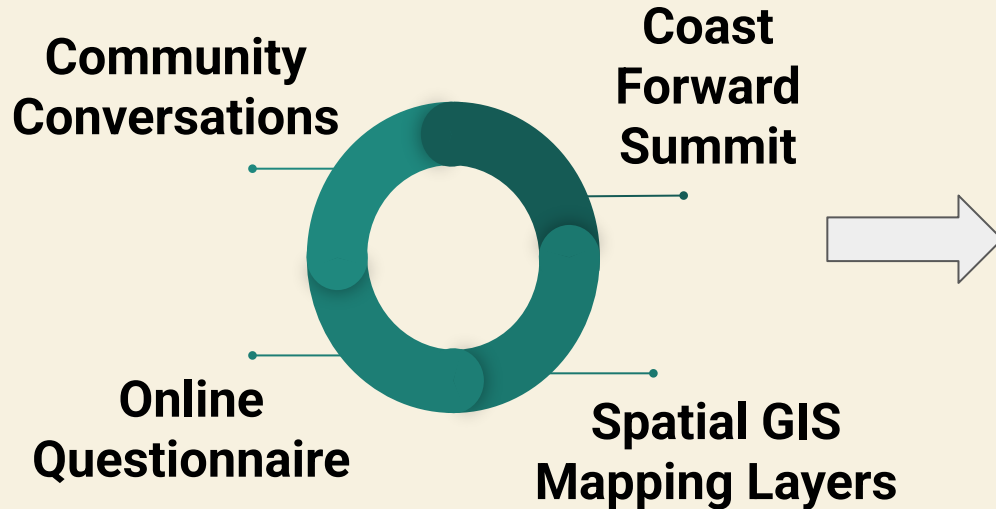


Outcomes

Three empty, light blue rectangular boxes with rounded corners, stacked vertically, intended for listing outcomes.

Southern Delaware Coastal Resilience Plan

Strategies For Information Collection

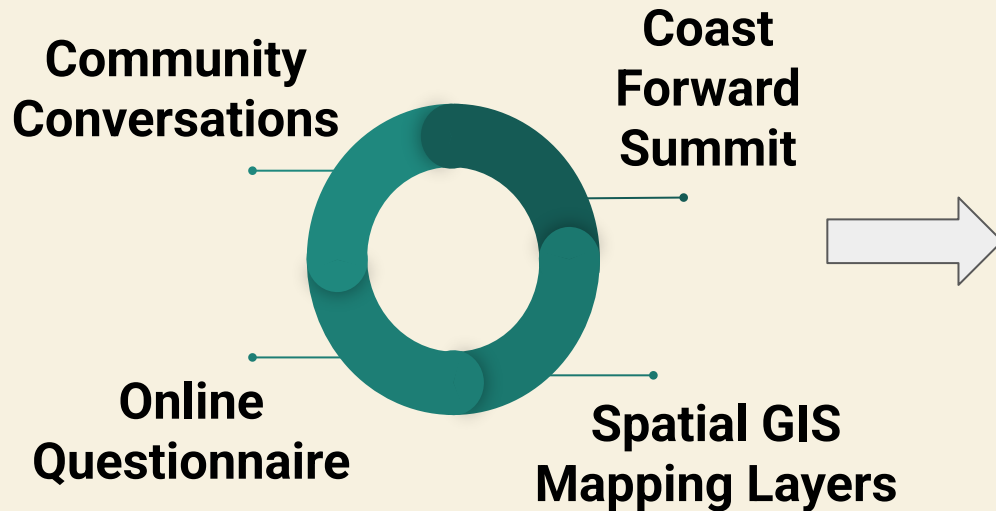


Outcomes

Three empty rectangular boxes are provided for listing outcomes, arranged vertically.

Southern Delaware Coastal Resilience Plan

Strategies For Information Collection



Outcomes

Shared Vision Document

Participatory Science Tools

Inland Bays GIS Data Hub



Small groups of community members will discuss climate resilience and solutions in facilitated conversations

Audience Participation



Southern Delaware Coastal Resilience Plan

What areas of concern do you have with a changing climate?

Southern Delaware Coastal Resilience Plan

Erosion

Habitat Loss

Water Quality

Storms

Air Quality

Soil Quality

Flooding

Extreme Temperatures

Southern Delaware Coastal Resilience Plan

Erosion

Habitat Loss

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Extreme Temperatures

Now rank them. No ties. Include all of these as well as any additional ones you've identified. Work in groups of 4-6.

Southern Delaware Coastal Resilience Plan

Feedback

Do all of our suggested ones have merit?

What other(s) should we add?

Audience Participation

Thank you.



Coast Forward Summit

Join us for a workshop to support the Southern Delaware Coastal Resilience Plan

Please join us for guided conversations and an informational open house.

Discussions will be on climate and coastal resilience in the Inland Bays Watershed.

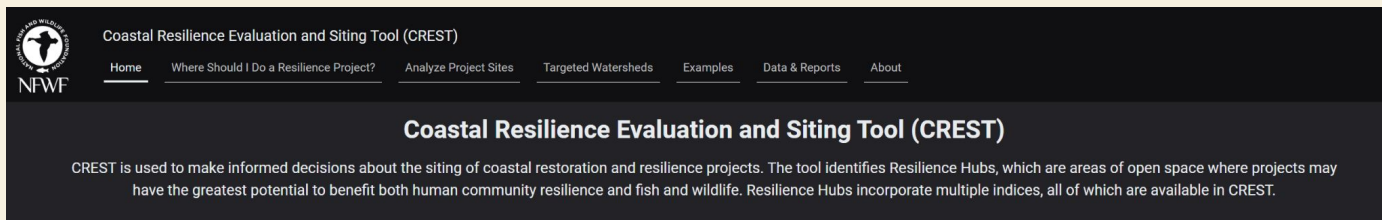
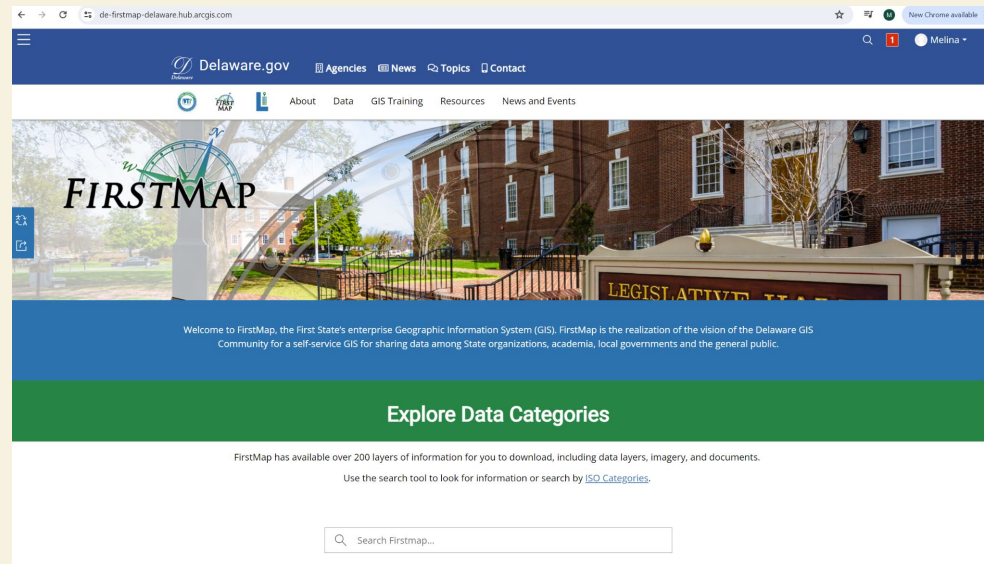
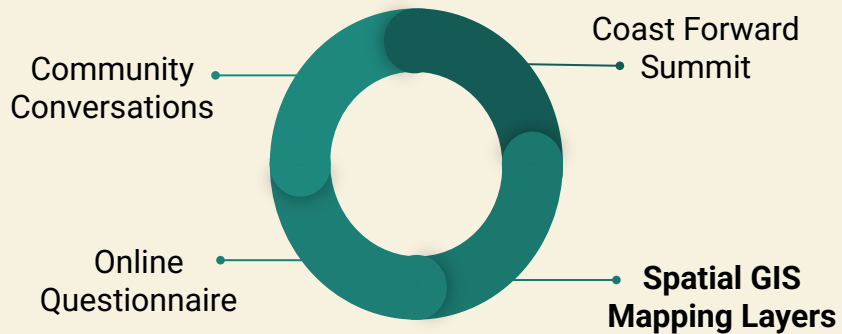
10am - 6pm
Thurs. May 1, 2025
Cheer Center
Georgetown, DE

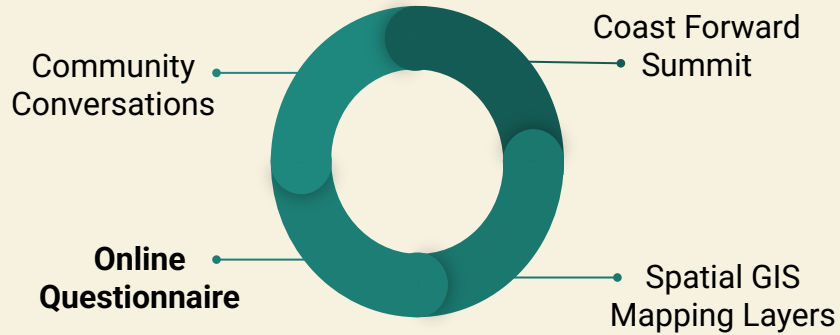
For more information, please contact coastalresilience@inlandbays.org





Participants will draw from across the professional and community resources.

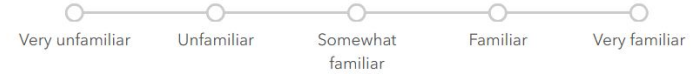




Southern Delaware Coastal Resilience Plan Questionnaire

Introduction

How familiar are you with the Center for the Inland Bays?



How familiar are you with Rehoboth Bay, Indian River Bay, and Little Assawoman Bay, which make up the Inland Bays of Delaware?



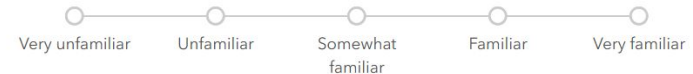
How familiar are you with coastal or climate resilience?




How familiar are you with nature-based solutions?



How familiar are you with climate change?





Participants can complete the survey from their phones or computers.

Audience Participation



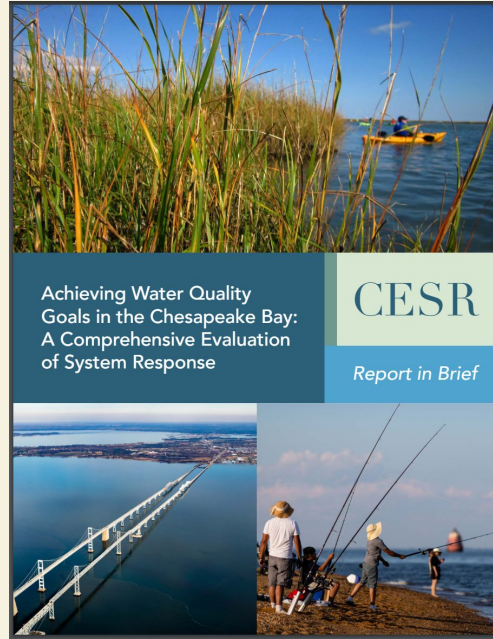
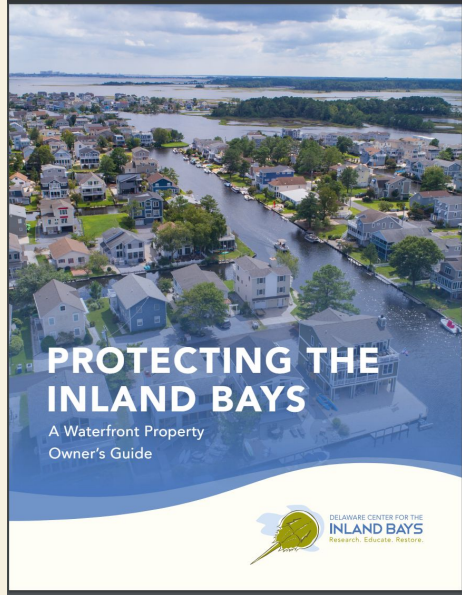
Southern Delaware Coastal Resilience Plan

Rank the climate strategies you would be interested in seeing implemented from most to least interest.

- **Resilience**
- **Resistance (Heavy Infrastructure/Sea Walls)**
- **Rebuild (Start Overs)**
- **Mitigate (Sacrifice Zones)**
- **Migrate**
- **Other**

Audience Participation

Thank you.



Outcomes

Shared Vision Document

Participatory Science Tools

Inland Bays GIS Data Hub

Online publication of shared vision for the next 50 years including recommendations for language and actions to increase the use of nature-based solutions.

2024 Diamondback Terrapin Water-Based Survey Count



DO NOT pick up or touch diamondback terrapins. *astericks are required questions

Volunteer 1 Information ▼

Name 1*

Email 1

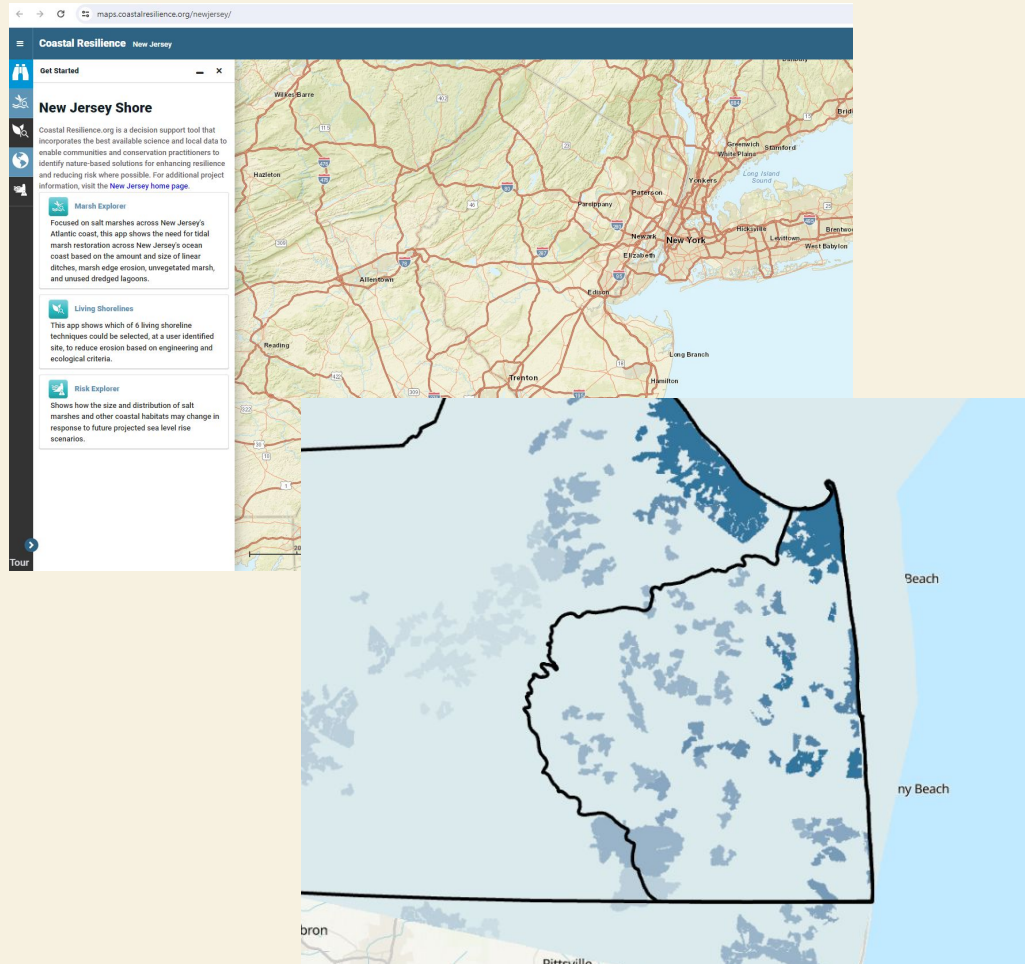
Phone number 1

Outcomes

Shared Vision Document

Participatory Science Tools

Inland Bays GIS Data Hub



Outcomes

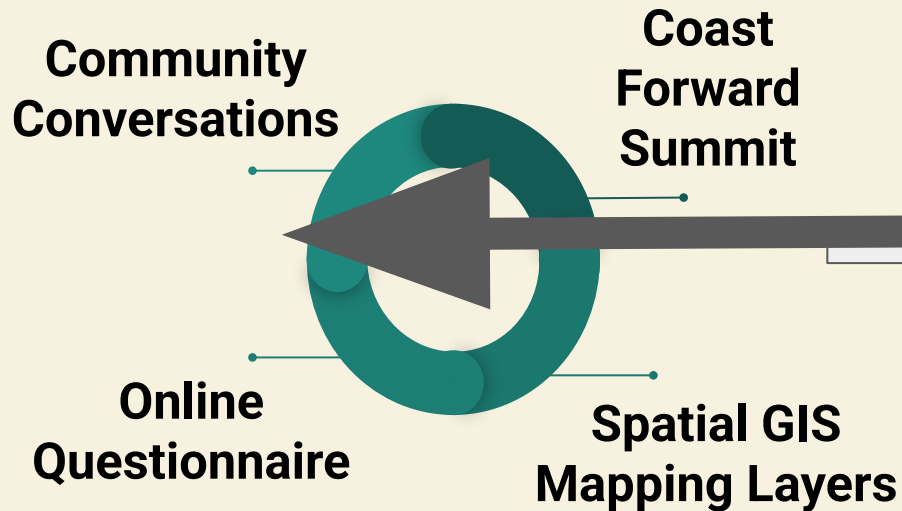
Shared Vision Document

Participatory Science Tools

Inland Bays GIS Data Hub

Southern Delaware Coastal Resilience Plan

Strategies For Information Collection



Outcomes

Shared Vision Document

Participatory Science Tools

Inland Bays GIS Data Hub



Please answer
our Questionnaire:



<https://arcg.is/1DWnai>



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