

SR 1 Coastal Corridor Resiliency Study



Center for Inland Bays

**CCMP Implementation
Committee Meeting**

October 24, 2022

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Director

Transportation Resilience & Sustainability

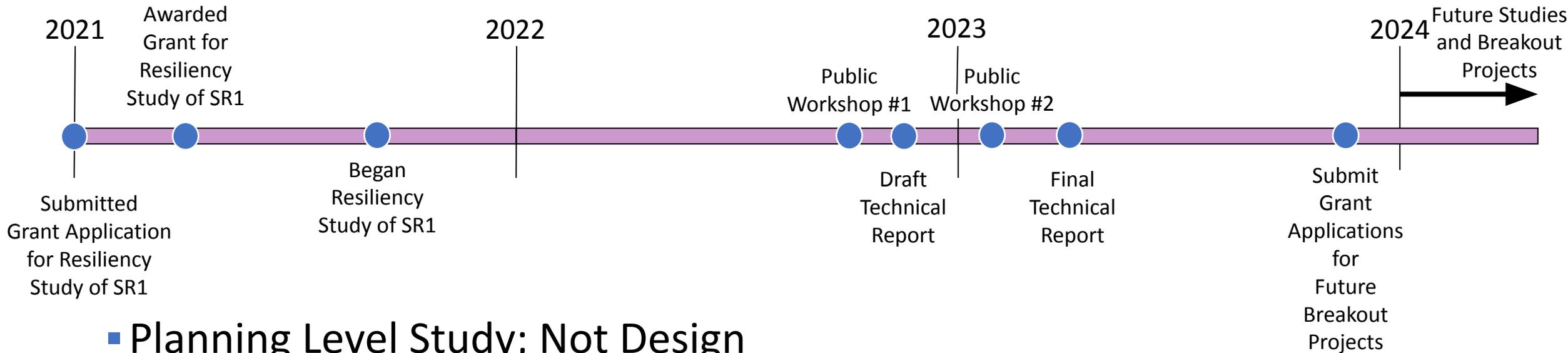




Virtual Public Workshop #1 - Tuesday, September 20, 2022

Study Expectations

■ SR1 Coastal Corridor Resiliency Study Timeline



- Planning Level Study; Not Design
- Future Projects will be identified as part of the Study



Purpose and Need

- What is the purpose of the Study?
 - Establish existing and future conditions to identify the magnitude of need.
 - Identify a range of potential mitigation alternatives to address needs.
 - Establish criteria to evaluate the potential mitigation alternatives.
 - Evaluate the conceptual mitigation alternatives.
 - Work with public and stakeholders, determine preferred alternatives.



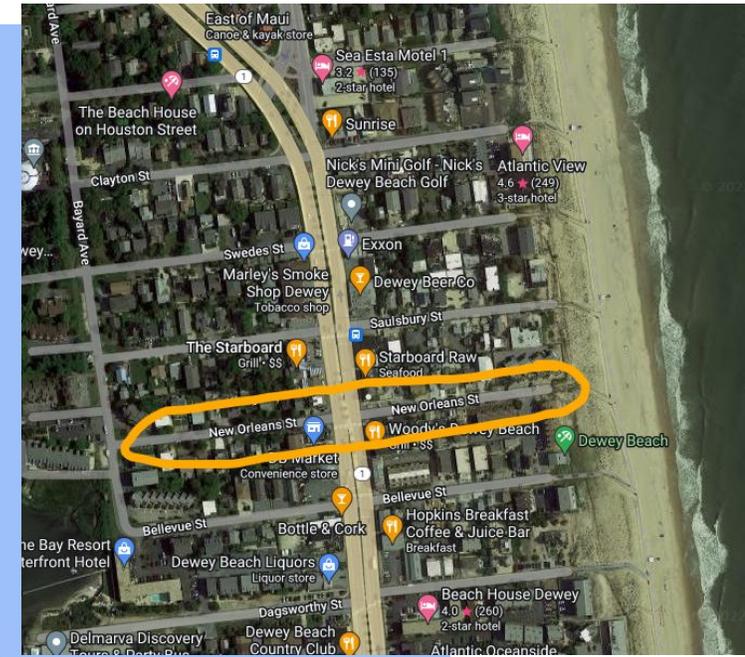
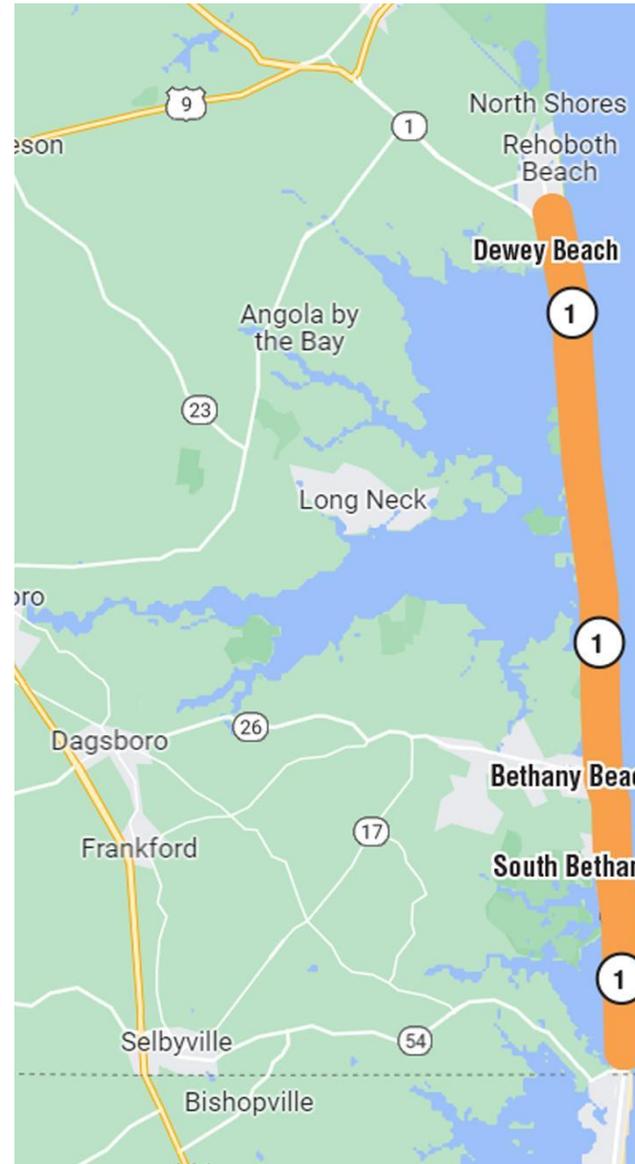
Purpose and Need

- Why is this Study needed?
 - SR1 is the Primary Evacuation Route for Bethany Beach, South Bethany Beach, Fenwick Island, and Ocean City Maryland.
 - Closure of SR1 between Indian River Bridge and Dewey Beach results in an 18-mile detour.
 - Improve the overall resiliency of SR1 to reduce maintenance cost and ensure a direct route of travel.
 - Supports the 2016 Multi-Jurisdictional All Hazard Mitigation Plan and the 2018 State of Delaware All Hazards Mitigation Plan.
 - SR1 is vital to the economic well-being of the area and the State as a whole.
 - SR1 provides the link for those looking to visit the Delaware beaches and provides year-round travelers and residents ease of access to coastal communities.

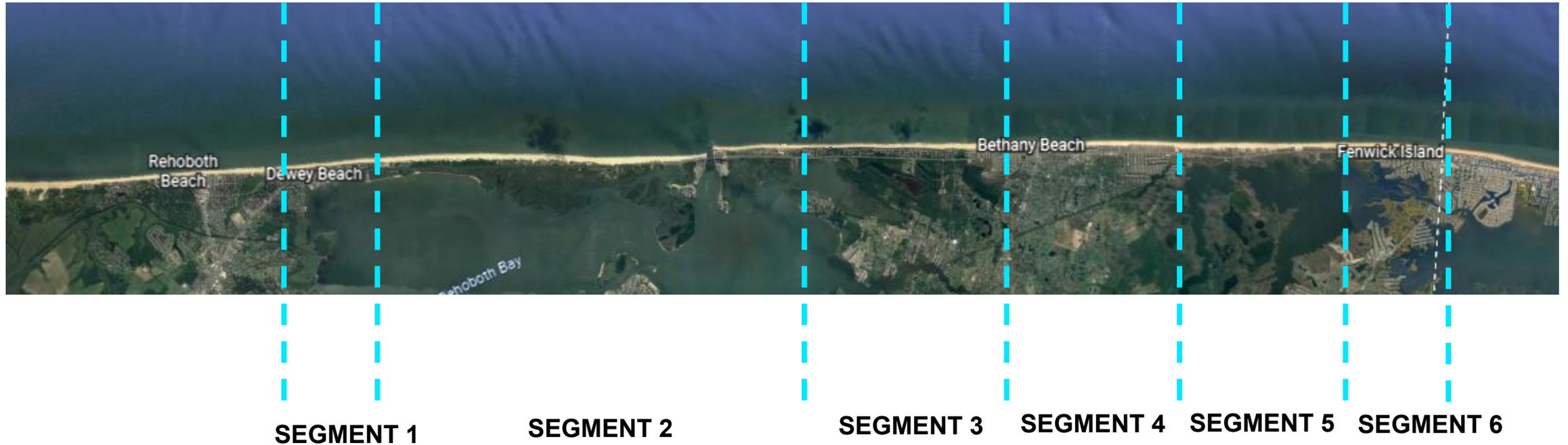


Study Area

- Sixteen (16) miles of State Route 1 (SR1) - Coastal Highway
- Northern Limits
 - Dewey Beach – New Orleans Street
- Southern Limits
 - Maryland State Line



Study Area – Proposed Segments



- Six (6) Segments – based on surrounding terrain conditions



Study Area – Dewey Beach to North Bethany Beach



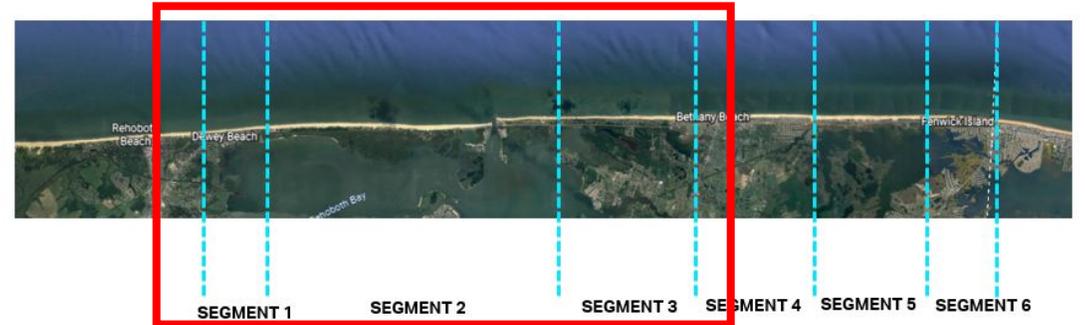
SEGMENT 1



SEGMENT 2



SEGMENT 3



Study Area – Bethany Beach to Maryland



SEGMENT 4



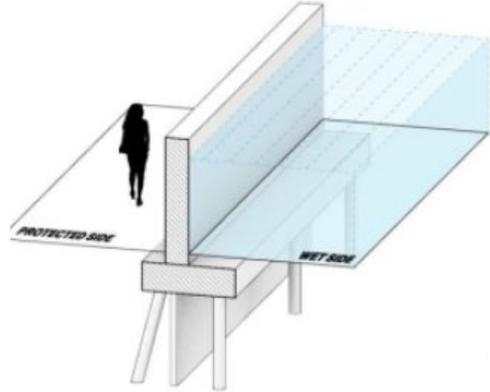
SEGMENT 5



SEGMENT 6



Examples of Primary Flood Mitigation / Protection



EXPOSED FLOODWALL



BURIED FLOODWALL / STRUCTURAL DUNE
MANTALOKING, NJ, MOTT MACDONALD



SHORT-TERM DEPLOYABLES
TRAP BAGS SARASOTA, FLORIDA



PERMANENT DEPLOYABLES
FLIP UP GATES BLOOMSBURG, PENNSYLVANIA



RAISED & REROUTED ROADWAYS
STATE ROUTE 54, SUSSEX COUNTY, DELAWARE



Examples of Secondary Flood Mitigation/Protection



LIVING SHORELINES
ORLEANS, MA



REVETMENTS
MAYPORT, GEORGIA



Next Steps

- Model the following storm events for each of the six segments:
 - 10-year storm event for existing and future condition
 - 100-year storm event for existing and future conditions
- Perform erosion analysis
- Apply the evaluation criteria to the various mitigation alternatives.
- Hold the second public workshop in early 2023.
- Prepare report of the findings.
- Prioritize segments and mitigation alternatives.
- Identify and submit grant applications to advance the study recommendations into projects for design.



How to Stay Involved

Visit

Visit the study's website, <https://de.gov/sr1coastalcorridor>

Complete

Complete the comment form and include your email address

Attend

Attend the next virtual public workshop in the winter



SRT COASTAL CORRIDOR RESILIENCY STUDY

Thank you for your time and attention

Jim Pappas

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SRT COASTAL CORRIDOR RESILIENCY STUDY

