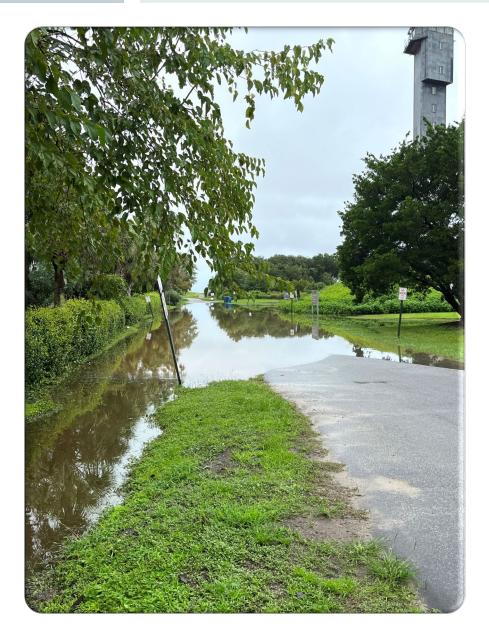


A DREAM WITHIN A DREAM GRANT FUNDING AND A MULTI-LAYERED PLAN TO BRING A COASTAL COMMUNITY'S INFRASTRUCTURE BACK TO LIFE

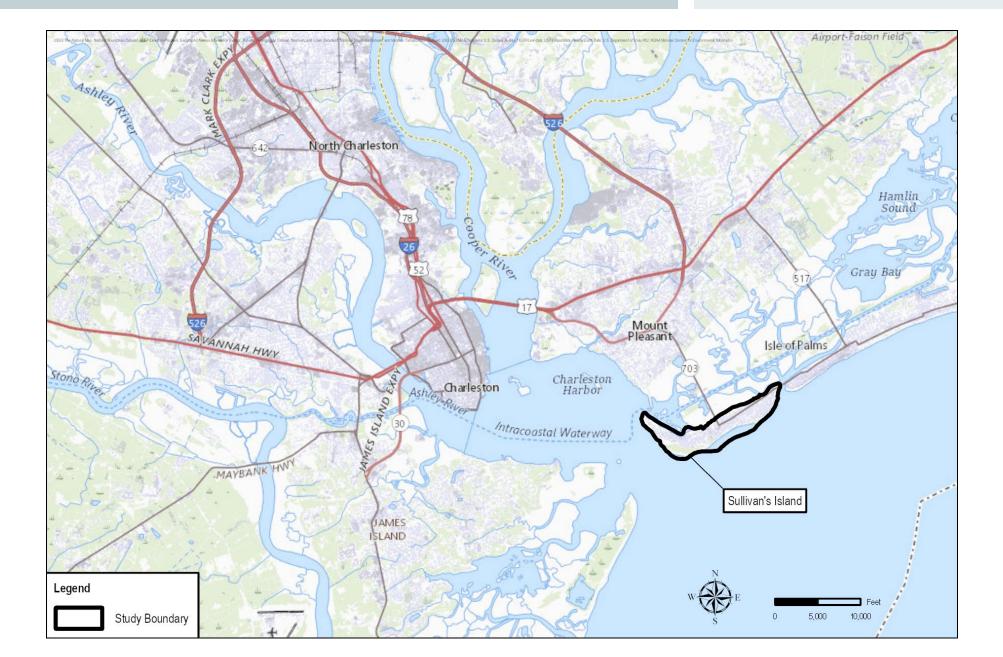
SESWA REGIONAL SEMINAR APRIL 19, 2024

AGENDA

- Background
- Historical Project Approach
- Extreme Events
- Goals
- Project Funding Sources
- Implementation
- Closing Remarks & Lessons Learned



BACKGROUND



3

BACKGROUND



- Barrier Island
- Incorporated in 1817
- SCDOT 1950s Infrastructure
- Historical Significance
 - Fort Moultrie
 - Fortifications and Batteries
 - Residential Structures
- \$10M Annual Budget

HISTORICAL PROJECT APPROACH

- No Long-Term Capital Plan
- "As-Needed" Basis
- Funding
 - SCDOT State Transportation Funds
 - Charleston County Transportation Funds
 - FEMA HMGP Funds
 - Local Funding When Available
- Lengthy Timelines





EXTREME EVENTS - TODAY



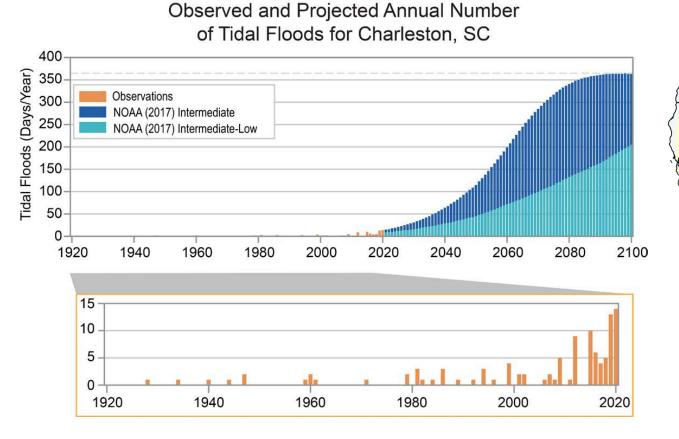
Station 18.5

- Joaquin (2015)
- Matthew (2016)
- Irma (2017)
- Florence (2018)
- Dorian (2019)
- King Tides
- "Rain Bombs"

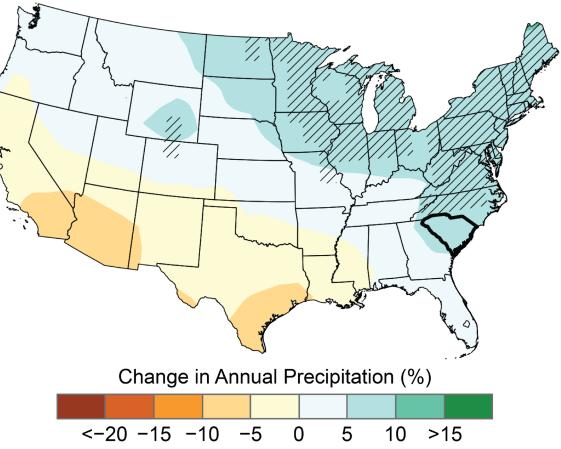
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Station 30

EXTREME EVENTS - TOMORROW



Projected Change in Annual Precipitation



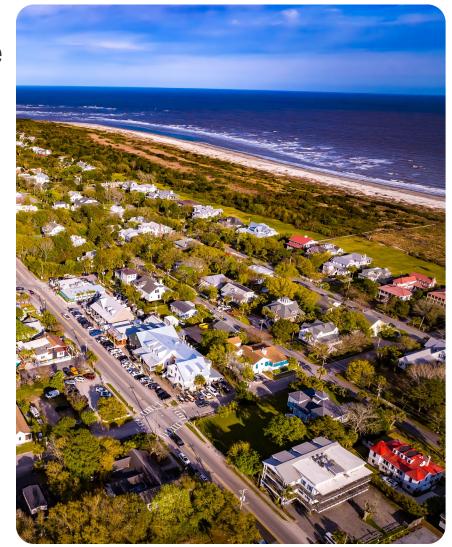
7

1. Stormwater Master Plan

- Understand Current/Future Drainage System Performance
- Develop Solutions to Address Drainage Deficiencies

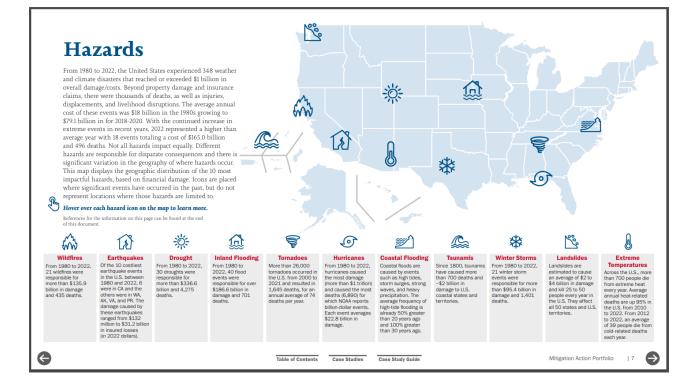
1. Coastal Community Resiliency Plan

- Evaluate Long-Term Vulnerability of Island to All Threats
- Develop Solutions to Protect and Preserve
- Tie Together Beach Management and Stormwater Plans
- **3. Implement Capital Stormwater Projects**
- 4. Leverage State and Federal Funding to Implement Everything!



PROJECT FUNDING SOURCES -STORMWATER MASTER PLAN FUNDING

- 2020
- Building Resilient Infrastructure and Communities (BRIC)
 - Capability and Capacity Building Activities (\$36.72 M)
 - Mitigation Projects (\$766.1 M)
 - Management Costs (\$78.3 M)
- Stormwater Master Plan Application
 - State Allocation Funding (C&CB)
 - **\$150K**
 - 25% Match Requirement (Local Funds)

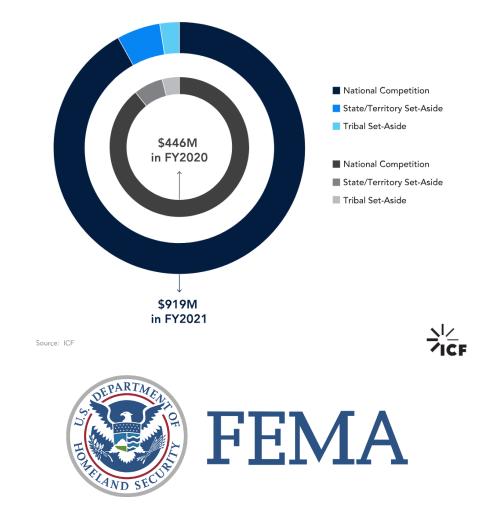




PROJECT FUNDING SOURCES -COASTAL RESILIENCY PLAN FUNDING

- 2021
- Building Resilient Infrastructure and Communities (BRIC)
 - Capability and Capacity Building Activities (\$40.37 M)
 - Mitigation Projects (\$814.96 M)
 - Management Costs (\$138.14 M)
- Coastal Community Resiliency
 Plan Application
 - State Allocation Funding (C&CB)
 - \$150K
 - 25% Match Requirement (Local Funds)

BRIC Funding Allocations, FY20 and FY21



PROJECT FUNDING SOURCES -STATE MATCH FUNDING FOR PLANS

SC Office of Resilience

CDBG-MIT Program

- \$162 Million from HUD
- Response to 2015, 2016, 2017, and 2019 Events
- Infrastructure, Buyouts, Plans/Studies, and Funds Match
- Provided Local Match for
 - Stormwater Master Plan
 - Coastal Community Resilience Plan

Disaster Recovery (HUD CDBG-DR)





2015 Flood Total award: \$126 million 100% complete 1,829 homes complete



2016 Hurricane Matthew Total award: \$95 million 100% complete 1,138 homes complete





2018 Hurricane Florence Total award: \$72 million ~88% complete 432 homes complete

Mitigation (HUD CDBG-MIT)



The Mitigation program currently has **54 active HUD CDBG-MIT projects** across 17 counties that suffered previous hurricane disaster impacts. Detailed information on active projects can be found on the <u>Mitigation</u> <u>projects page</u>.



PROJECT FUNDING SOURCES -CAPITAL STORMWATER PROJECT FUNDING

- 2022
- SC Infrastructure Investment Program (SCIIP)
 - \$1.369 Billion Allocated by General Assembly
 - \$10 Million Application Cap
 - Water, Sewer, and Stormwater Projects
- GREAT OPPORTUNITY but NO STORMWATER MASTER PLAN!

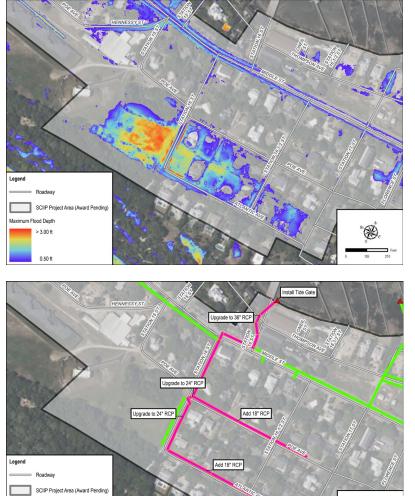




PROJECT FUNDING SOURCES -CAPITAL STORMWATER PROJECT FUNDING

Outfa

- Justification
 - Photos/Story Telling
 - 2D Rain-on-Grid Modeling
- Drainage Solutions
 - New/Improved Collection System
 - Water Quality Treatment
 - Tidal Check Valves
 - Potential Green Infrastructure
- Grant Application
 - \$8,758,775 in Federal Funding
 - \$500,000 in State Funding
 - \$1,185,123 in Local Funds
 - Total = \$10,443,898





PROJECT FUNDING SOURCES -SUMMARY OF FUNDING APPLICATIONS

• FEMA BRIC – 2020

- Stormwater Master Plan
- \$112,500 Federal Share
- FEMA BRIC 2021
 - Coastal Community Resilience Plan
 - \$112,500 Federal Share
- SC Office of Resilience
 - \$75,000 for FEMA BRIC Local Share
- SC Infrastructure Investment Program (SCIIP)
 - \$8,758,775 Federal Share
 - \$500,000 State Share
- Local Funds
 - FEMA BRIC 2020 \$40,000 (CCTV/Pipeline Cleaning)
 - SCIIP \$1,185,123



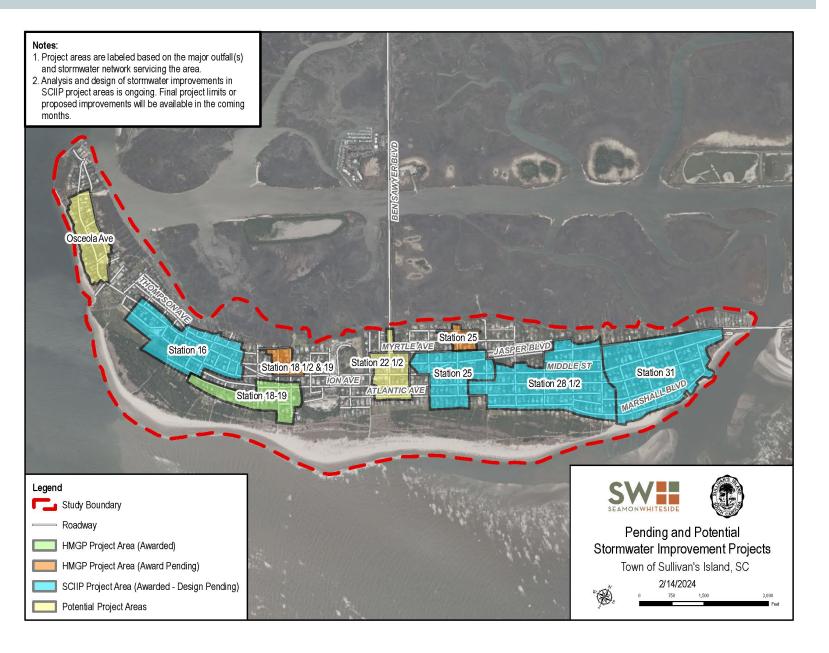


South Carolina Rural Infrastructure Authority





IMPLEMENTATION



- Stormwater Master Plan
 - Released Fall 2023
 - Existing Conditions Completed
 - Alternative Analysis Started
- Coastal Resiliency Plan
 - Final Selection Awaiting
- Capital Improvements (SCIIP)
 - Released Spring 2023
 - Preliminary Design Completed
 - June 2026 Deadline

CLOSING REMARKS & LESSONS LEARNED



- Strategic Planning
- Leverage Multiple Funding Sources
- Staging Grant Applications
- Timing/Schedule is Key
- Tell Your Story



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