



**CITY OF ST. AUGUSTINE CITY COMMISSION
SPECIAL MEETING AGENDA**

MONDAY, MARCH 28, 2022

3:00 P.M.

ALCAZAR ROOM

-
1. Call to Order.
Roll Call.
 2. General Public Comments.
 3. Summary of the Resilience Workshop from October 25, 2021. (*J. Beach, Chief Resilience Officer*).
 4. USACOE – Back Bay Feasibility Study Presentation and Funding Update (*J. Harrah, US Army Corps of Engineers*).
 5. Project Priorities and Funding Discussion (*J. Beach, Chief Resilience Officer*).
 6. Additional General Public Comments Time Permitting.
 7. Adjourn.

NOTICES: In accordance with Florida Statute 286.0105: "If any person decides to appeal any decision made by the City Commission with respect to any matter considered at this scheduled meeting or hearing, the person will need a record of the proceedings, and for such purpose the person may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based." In accordance with the Americans with Disabilities Act, persons needing a special accommodation to participate in this proceeding should contact the individual or agency sending notice not later than seven days prior to the proceeding at the address given on the notice. Telephone (904) 825-1007; 1-800-955-8771 (TDB) or 1-800-955-8770 (V), via Florida Relay Service. Please note that one or more members of the City Commission or its appointed boards or committees may attend this meeting and participate, however they may not engage in a discussion or debate amongst themselves on any issue that will likely come before their respective elected or appointed body. The materials prepared and presented are part of the City's ongoing Florida Public Records and Government in the Sunshine compliance and are not intended to be relied upon or to reach investors or the trading markets.

City Commission

Resilience Workshop

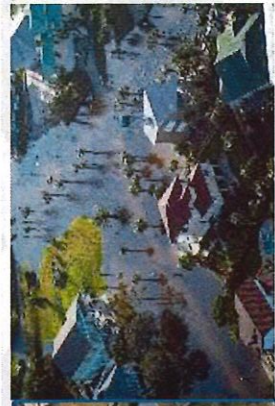
March 28, 2022

Jessica L. Beach, P.E.

Chief Resilience Officer

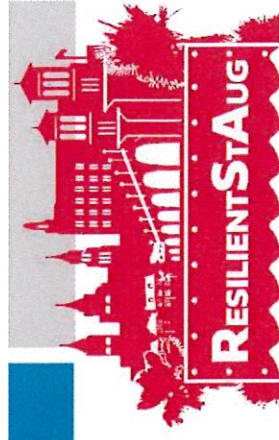
Reuben C. Franklin, Jr., P.E.

Director, Public Works





Resilience Workshop - Agenda



❖ **Summary of the Resilience Workshop from October 25, 2021.**

- ✓ Input received from the Commission
- Program updates

❖ **Funding Update and Presentation from the USACOE – St. Augustine’s Back Bay Feasibility Study**

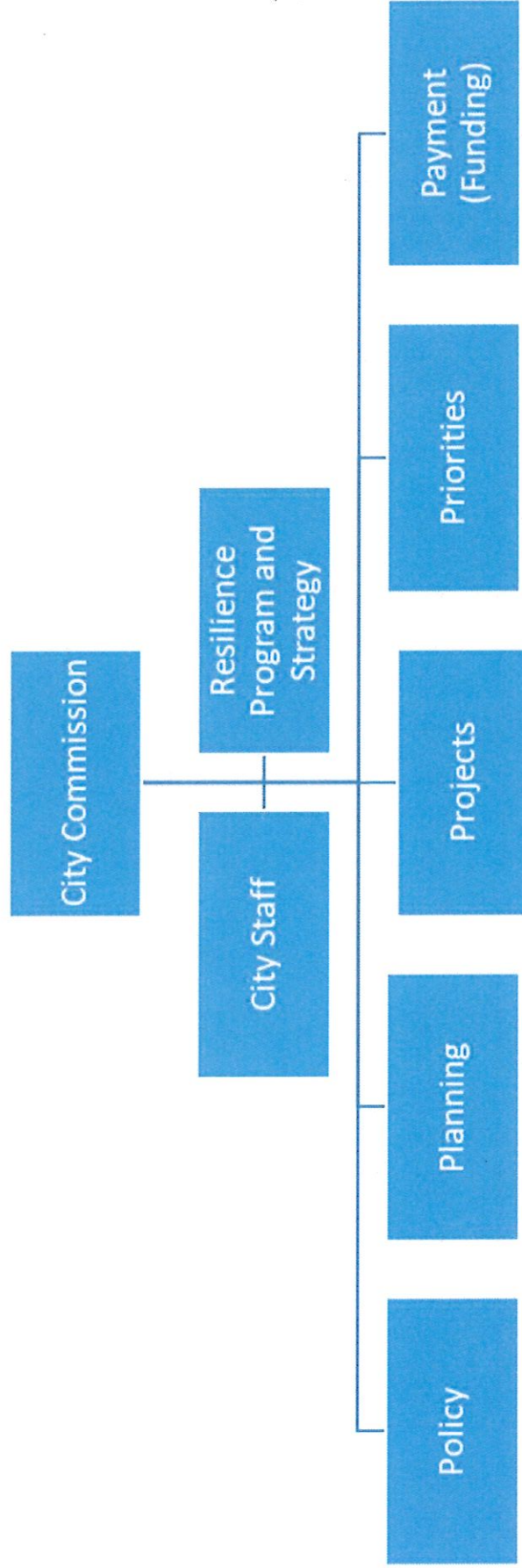
❖ **Review of City’s Projects Priorities List and Funding for Commission Input and Discussion.**

- ✓ Summary project list
- ✓ Funding of projects
- ✓ Estimated schedule

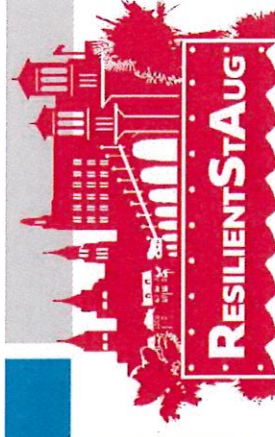
Resilience Workshop – Summary from October 25, 2021



Program Outline



Resilience Workshop – Summary from October 25, 2021



❖ **Need to update the Coastal Vulnerability Assessment and associated Strategic Adaptation Plan.**

- ✓ Use the latest data available, understand associated risks and timelines to make informed decisions
- **Stormwater Resilience Master Plan**
 - Request to use ARPA Funds - \$2,000,000
 - Careful and comprehensive consideration given to cost and benefits of projects in certain areas that are currently at risk and will continue to be at risk

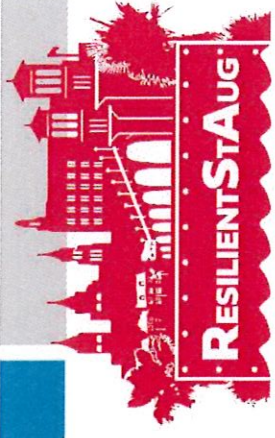
➤ **USACE Back Bay Feasibility Study**

- Funding Update with Presentation on the Agenda



ST. AUGUSTINE
CITY OF
EST. 1565

Resilience Workshop – Summary from October 25, 2021



❖ **Develop a seawall ordinance**

- ✓ Consideration for natural/nature-based solutions
- ✓ Establish minimum elevations and criteria
 - Initial project scoping meeting completed

❖ **Continue with Outreach and Education**

- ✓ Presentations/workshops/meetings for various stakeholders
- ✓ Consideration for the “non-computer” user
 - Develop a newsletter and/or flier to distribute
- ✓ Enhanced website/resources/tools available
 - Website updated for Resilience

Resilience Workshop Summary – Summary from October 25, 2021

www.CityStAug.com/Resiliency

❖ “One Stop Shop”:

- ✓ Programs
- ✓ Projects
- ✓ Planning / Studies
- ✓ Payment / Funding
- ✓ Policy
- ✓ Resources for Residents

Home - Government - Resiliency

Planning and Studies

Projects

Programs

Policy

Resources

Payment/Funding



Flood Resilience

Resilience is the ability of individuals, communities, institutions, businesses, and systems within St. Augustine to survive, adapt, and grow no matter what kinds of acute shocks (a sudden, sharp event that can threaten the city) and chronic stresses (stresses weaken the fabric of the city on a day-to-day basis) they experience.

The City of St. Augustine faces many challenges when it comes to both coastal and rain driven flooding, as a majority of the city is located in a flood plain. The City of St. Augustine is proactively identifying areas of risks as it relates to the inevitable effects of sea level rise.

Stormwater Updates

For the latest updates given to commission regarding the resilience program, [click here](#).



Contact Us

Jessica Beach, P.E.
Chief Resilience Officer
Send an email
[More information](#)

FAQs

- [What is flood resilience?](#)
- [What is the city doing about the flooding?](#)
- [What can I do to protect my home from flooding?](#)

View All

Quick Links

- [St. John's County Emergency Operations Center](#)
- [St. John's County Flood Facts website](#)
- [St. John's County Evacuation Information](#)

View All



Programs



Planning / Studies



Payment / Funding



Projects



Policy



Resources

Resilience Workshop Summary – Summary from October 25, 2021



www.CityStAug.com/Resiliency

❖ Resources Page – Links

- ✓ NOAA
- ✓ SJC Flood Viewer
- ✓ FEMA Flood Maps
- ✓ Florida Climate Institute
- ✓ Florida Living Shorelines

❖ Other Links

- ✓ SJC EOC
- ✓ SJC Flood Facts
- ✓ SJC Evacuation Information

Resources

Helpful Links:

- Search for any property within the United States to look at potential flood risk indicators and ways to protect your property: www.floodfactor.com
- Provides outreach and education and a number of flood proofing type products for commercial and residential properties: www.floodproofing.com
- University of Florida – IFAS Extension office for St. Johns County: <https://stj.fl.ifas.ufl.edu/stjohns/>
- University of Florida – a number of resources for Florida friendly plants/yards, green infrastructure etc.: <https://stj.fl.ifas.ufl.edu/stjohns/lawn-and-garden/>
- St. Johns County Flood Viewer to search for any properties and determine which flood zone they are located in. You can access the link here: <https://www.gis.sjcfi.us/floodviewer/>
- Sea level rise tool accessible through National Oceanic and Atmospheric Administration (NOAA) that you can look at for properties for different types of scenarios, such as high tide flooding, sea level rise etc.: <https://coast.noaa.gov/slr/>
- FEMA flood maps: <https://www.fema.gov/flood-maps>
- The Florida Climate Institute is concerned with achieving a better understanding of climate variability and change, and has valuable articles for those interested in learning more: <https://floridaclimatelinstitute.org/>
- Florida Living Shorelines information: <https://floridalivingshorelines.com/>



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[More information](#)

Resilience Workshop Summary – Summary from October 25, 2021



❖ **Flood Mitigation Assistance (FMA) Program**

- ✓ FY21 – Application Cycle Completed
 - 50 individuals we reached out to with interest in the program
 - 25 applications submitted to the State (FDEM, Florida Division of Emergency Management) and submitted to FEMA
 - This summer application status update from FEMA
- ✓ FY22 – Project Team Kick Off Meeting Completed
- ✓ Contractor workshop(s) to be held in May or June
- ✓ Public workshops to be held in July
- ✓ Informational fliers to be mailed out to recurring flood property owners

❖ US Army Corps of Engineers (USACOE) Back Bay Feasibility Study for St. Augustine

- ✓ 3-year, \$3 Million comprehensive study to evaluate coastal storm risks
 - Identified solutions are eligible for Federal cost share funding for construction
- ✓ Letters of Intent submitted to USACOE each year since 2018
- ✓ Study Authority is authorized (House Resolution 2646)
- ✓ Funding is now available
 - Community Funding Program (CFP) reinstated by Congress in 2021
 - Congressman Rutherford's office advocated for the funding
 - Received notification on March 11th that \$200,000 is allocated for the study through the FY22 Work Plan

❖ **US Army Corps of Engineers (USACOE) Back Bay Feasibility Study for St. Augustine**

- ✓ Opportunity for Commission input and discussion about the study with the USACOE
- ✓ Presentation by representatives from the USACOE



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— EST. 1565 —

Resilience Workshop Summary – Project Priorities and Funding



❖ **Resilient Florida** administered through the Florida Department of Environmental Protection (FDEP) – **new from the 2021 State Legislature – s. 380.093, F.S.**

- ✓ 11 applications were submitted (4 planning, 7 projects)
- ✓ \$100 M – FY2022-23 Statewide Flooding and Sea Level Rise Resilience Plan
 - 76 projects ranked State-wide
 - City applications were not selected
- ✓ \$500 M – American Rescue Plan Act one time allocation for project implementation
 - **All 7 City implementation Projects were awarded funding, totaling \$26.5 M**
 - The term of the grant agreement will be from July 1, 2022 through December 31, 2026. All funds must be obligated (encumbered in an executed grant agreement) by December 31, 2024.
- ✓ \$20M – planning applications are still under review
 - USACOE Back Bay Feasibility Study was identified as eligible for further evaluation

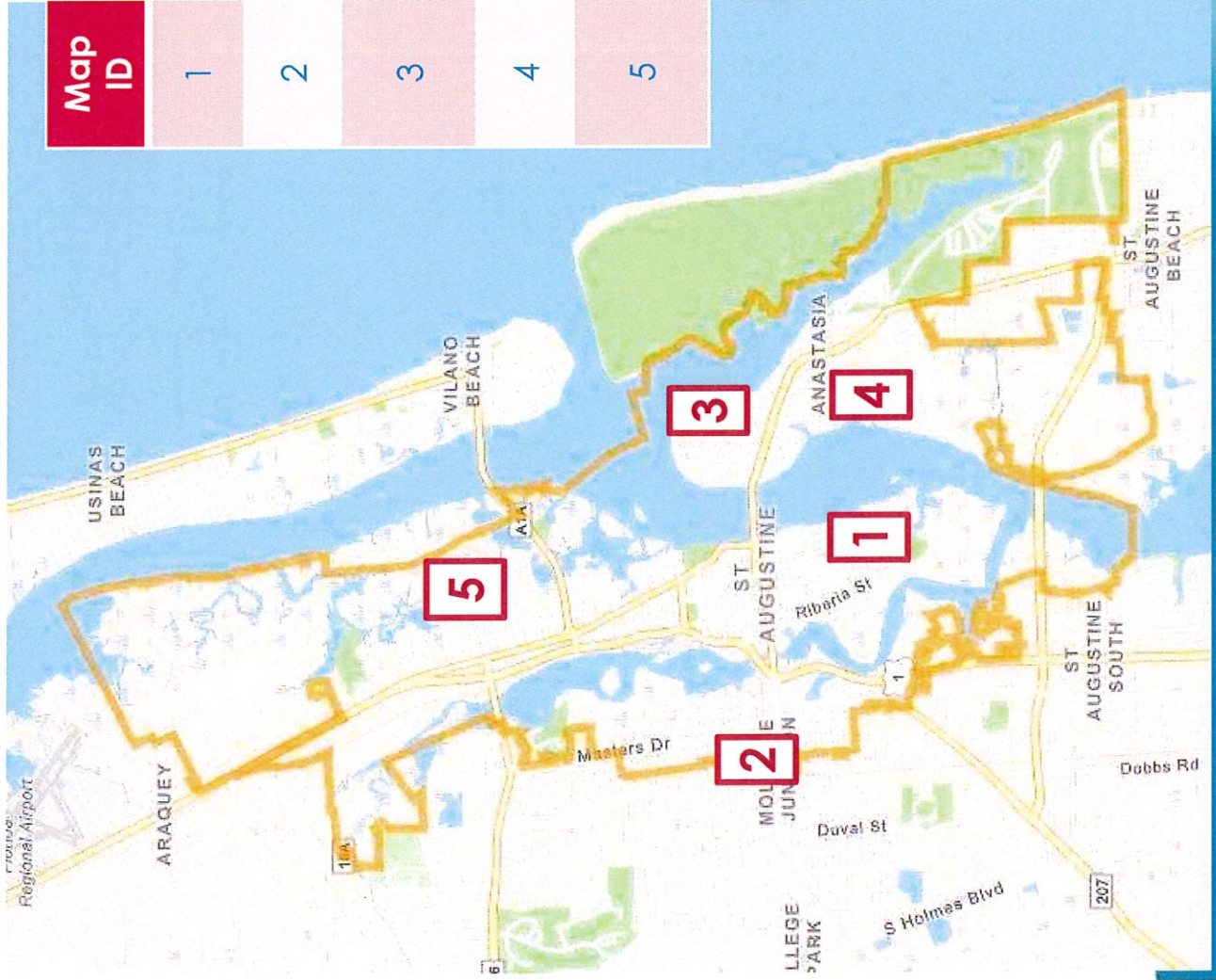
Resilience Workshop Summary – Project Priorities and Funding



1. City Wide Tidal Backflow Prevention Improvements - **\$230,641**
2. Lake Maria Sanchez Flood Mitigation and Drainage Improvements - **\$18,793,012.14**
3. South Whitney and West King Street Flood Mitigation and Drainage Improvements - **\$1,202,916**
4. Groundwater Monitoring Network for SLR - **\$201,903**
5. Inlet Drive Shoreline Resiliency Improvements - **\$711,090**
6. South Davis Shores Flood Mitigation and Drainage Improvements - **\$2,797,000**
7. Flood Mitigation and Drainage Improvements for the Court Theophelia Neighborhood - **\$2,581,600**

Total Resilient Florida Funding for COSA - \$26,518,162.14

Resilience Workshop Summary –
Project Priorities and Funding



Map ID	Resilient Florida Project
1	Lake Maria Sanchez
2	South Whitney West King
3	Inlet Drive Neighborhood Project
4	South Davis Shores Project
5	Ct Theophelia Neighborhood Project
City Wide Projects	
Tidal Backflow Prevention Program	
Groundwater Monitoring Network	
Stormwater Resilience Master Plan	
USACE Back Bay Study	

Resilience Workshop Summary –
Project Priorities and Funding



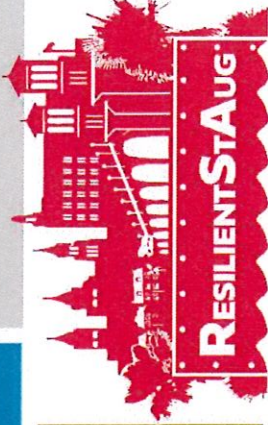
Current Capital Improvement Projects (Page 1 of 3)						
Project Title	Project Status	Schedule				
		2022	2023	2024	2025	2026
Oyster Creek Force Main HDD	Construction Phase					
Automatic Meter Reading Phase 4	Construction Phase					
West Augustine Septic-to-Sewer Connections PKG 5	Construction Phase					
(SJC) South Orange Street Utility Adjustments	Construction Close Out					
(SJC) N. Rodriguez Street Utility Adjustments	Construction Phase					
I&I Clean & Inspect Sewer Basins 62, 68, 69, & 71	Construction Phase					
I&I Clean & Inspect Sewer Basins 60, 64, 66, & 70	Construction Phase					
I&I Manhole Rehab Basins 16, 17, 20, & 52	Bidding Construction Contract					
I&I Sanitary Sewer Main & Lateral Rehab FY 2022	Bidding Construction Contract					
I&I Prioritize Sanitary Sewer R&R Projects	Annual					
Hurricane Matthew FEMA 13 Lift Station Rehabilitation	Construction Phase					
Arriola Avenue force Main HDD Improvements	Construction Phase					
(SJC) S. Holmes Utility Adjustments	Design 90%					
(SJC) Santa Rosa Utility Adjustments	Final Design					
(FDOT) SR 312 from 207 to Holmes Blvd Utility Adjustments	Bidding Construction Contract					

Resilience Workshop Summary –
Project Priorities and Funding



Current Capital Improvement Projects (Page 2 of 3)						
Project Title	Project Status	Schedule				2026
		2022	2023	2024	2025	
Lake Maria Sanchez	Preliminary Design - 90%					
WWTP Headworks Rehabilitation	Construction Phase					
WTP Motor Control Center Replacement	Construction Phase					
RO Concentrate Discharge	Bidding Construction Contract					
Water Treatment Plant Optimization	Study Completed					
Avenida Menendez Seawall (HMGP) (FIND?)	Final Design					
Pearl Street Gravity Sewer Improvements	Design 30%					
W 3rd Street Gravity Sewer Improvements	Design 60%					
West Augustine Gravity Sewer Master Plan	Planning					
Inspection Management Software	Analysis Completed					
Stormwater Master Plan	Conceptual Analysis & Studies					
St. Francis Street Utility Improvements	Conceptual Analysis & Studies					
King Street Ownership Takeover	Project Scope Development					
San Sebastian Water Main HDD King Street	Preliminary Design					
Ct Theophelia	Preliminary Design					
South Whitney West King	Bidding Construction Contract					
South Davis Shores	Preliminary Design					
Inlet Drive	Preliminary Design					

Resilience Workshop Summary –
Project Priorities and Funding



Current Capital Improvement Projects (Page 3 of 3)

Project Title	Project Status	Schedule				
		2022	2023	2024	2025	2026
Downtown Improvement District Phase 2	Final Design					
Sevilla Street Roadway & Utility Improvements	Final Design					
Lighthouse Park Gravity Sewer Improvements	Project Scope Development					
SCADA Master Plan	Conceptual Analysis & Studies					
City Wide Tidal Backflow Improvements	Preliminary Design					
Back Bay Feasibility Study with Army Corp	Preliminary Design					
Duero & Cerro Utility and Storm Improvement	Final Design					
Circulator	Bidding Construction Contract					
Smart St. Augustine	Bidding Construction Contract					
(FDOT) King Street Drainage Outfall	Final Design					
Groundwater Monitoring System	Preliminary Design					
Parking Pay Station Flood Proofing	Project Scope Development					
Lift Station 8 Replacement	Conceptual Analysis & Studies					
Lift Station 14 Replacement	Conceptual Analysis & Studies					
Lift Station 41 Replacement	Conceptual Analysis & Studies					
South Tank Potable Water Fill Line	Project Scope Development					
Pearl Street Force Main Improvements	Project Scope Development					
Cast Iron Watermain/Forcemain Replacement (Riberia Street from King to Castillo)	Project Scope Development					

- ❖ Staff Summary and Conclusions
- ❖ Input and Questions from the Commission
- ❖ Time permitting – allow for public comment

**Back up slides to main
presentation**



Resilience Workshop – Back Up Materials



- ❖ **Reference Packet - “Resilience Workshop 10-25-2021 – Summary of Commission Input” approved through the consent agenda at the 12-13-2021 Commission Meeting**
- ❖ **Reference Packet – “Project Information Sheets” for the listed projects**
- ❖ **Handout for “Overall Capital Improvement Projects List”**

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U.S. ARMY CORPS OF ENGINEERS FEASIBILITY STUDY PROCESS - (CONCEPT TO CONSTRUCTION)

City of St. Augustine, FL - Resilience Workshop Presentation

Presented by:

Jason Harrah, Senior Project Manager

Stacey Roth, Chief Plan Formulation

U.S. Army Corps of Engineers

Jacksonville District

March 28, 2022

*Trusted Partners Delivering Value
Today for a Better Tomorrow*



US Army Corps of Engineers
BUILDING STRONG®





PRESENTATION OVERVIEW



BUILDING STRONG

- ☐ Feasibility Study Process/Timeline
- ☐ Project Life Cycle (Concept to Construction)
- ☐ Current Status of St. Augustine Back Bay Feasibility Study
- ☐ Questions



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FEASIBILITY STUDIES



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- The Corps Feasibility Study is a formal **three-year process** used to **identify water resource problems, formulate and evaluate solutions, determine federal interest** and **prepare recommendations**. Process is initiated when a local sponsor asks USACE to address a particular issue **through a formal letter to the district commander (current Jacksonville District Commander, COL James Booth)**.
- Studies are **cost shared** with a Sponsor (i.e., State, Tribe county, city, town, etc.) that has the **legal and financial authority** and capability to **provide funding and real property requirements** needed for a study and future project.
- Before USACE becomes involved in a study, two types of Congressional actions are required:
 1. **Study Authority** (typically in Water Resource Development Act (WRDA))
 2. **Federal Appropriations** (Annual President's Budget, Work Plans, Supplementals)
- If no existing study authority exists, **community reps may contact their Congressional delegation to request a new study authority** and may also submit a proposal for Congressional consideration via the Assistant Secretary of the Army's Annual Report to Congress for Future Water Resources Development Acts.
- Once a study authority is available, the **Corps will request federal funding to initiate the study (no guarantees)**. Once federal funds are appropriated, **the study may begin after signing a Feasibility Cost Share Agreement (FCSA)**.





FEASIBILITY STUDIES (CONT.)



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Study Authority for St. Augustine Back Bay

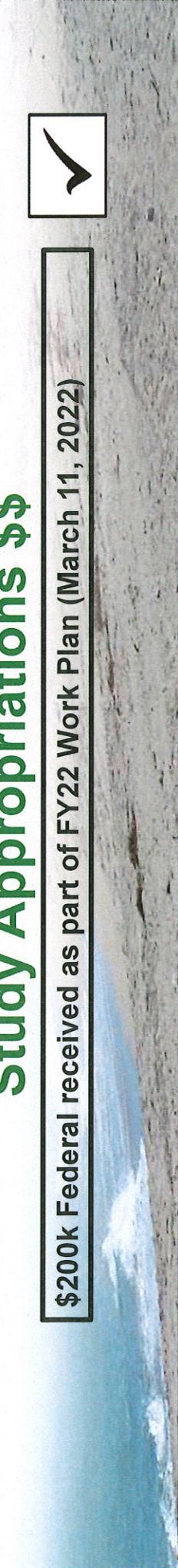
House Resolution 2646 (June 21, 2000): St. Johns County, Florida

Resolved by the Committee on Transportation and Infrastructure of the United States House of Representatives, That in accordance with Section 110 of the River and Harbor Act of 1962, the Secretary of the Army, acting through the Chief of Engineers, is ***requested to survey the shores of St. Johns County***, Florida, with particular reference to the advisability of providing beach erosion control works in the area north of St. Augustine Inlet, the shoreline in the vicinity of Matanzas Inlet, and adjacent shorelines, as may be necessary in the interest of ***hurricane protection, storm damage reduction, beach erosion control, and other related purposes.***



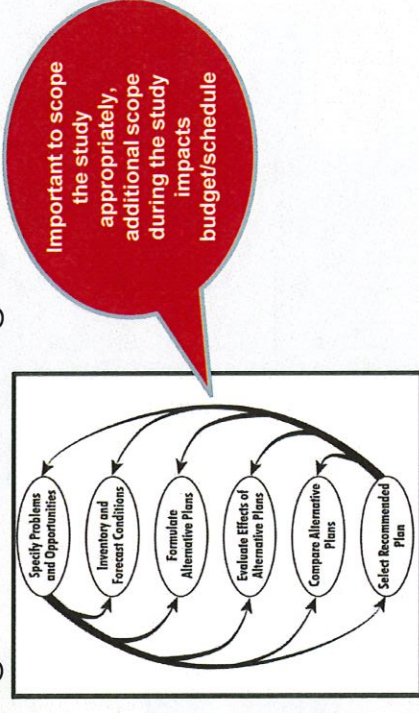
Study Appropriations \$\$

\$200k Federal received as part of FY22 Work Plan (March 11, 2022)

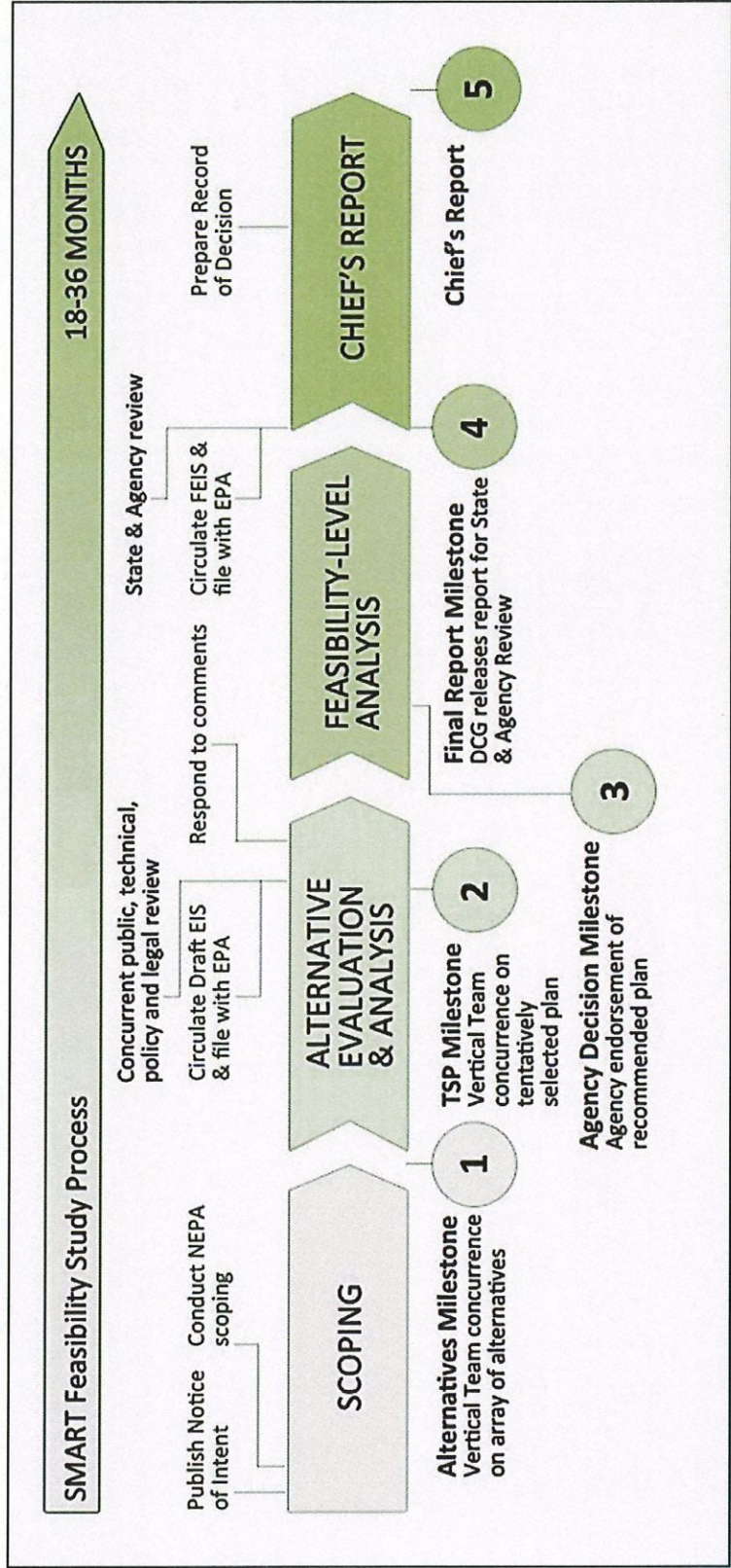


FEASIBILITY STUDIES (CONT.)

- Since 2012, USACE has implemented a new study process – **SMART** (Specific, Measurable, Attainable, Risk Informed, Timely) Planning – for conducting civil works feasibility studies.
- The goal of this new process is to:
 - complete each study within **three years**
 - complete at a cost of no more than **\$3 million**
 - complete with **three levels of the Corps engagement**
- Study **begins** when Corps and non-Fed sponsor sign a feasibility cost share agreement (FCSA). Funding is spread out over the 3-years.
- Study **ends** when the Chief of Engineers signs a “**Chiefs Report**” and transmits it to the Assistant Secretary of the Army for Civil Works (ASA-CW), then to the Office of Management and Budget (OMB), then to Congress for authorization to construct in a future WRDA Bill.



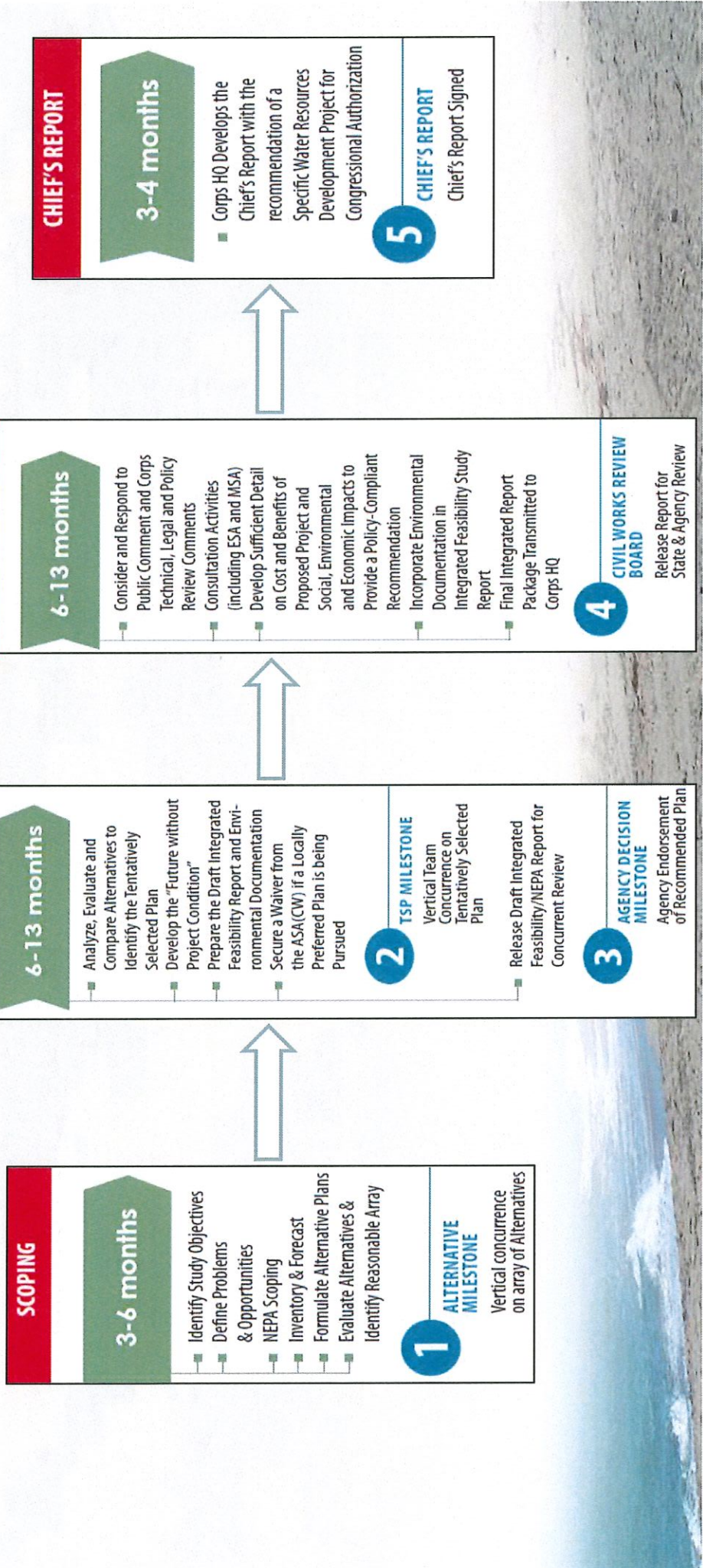
The study process includes **four separate phases** and **five key decision milestones**





SMART PLANNING STUDY PROCESS AND MAJOR MILESTONES

BUILDING STRONG





ALTERNATIVES EVALUATION



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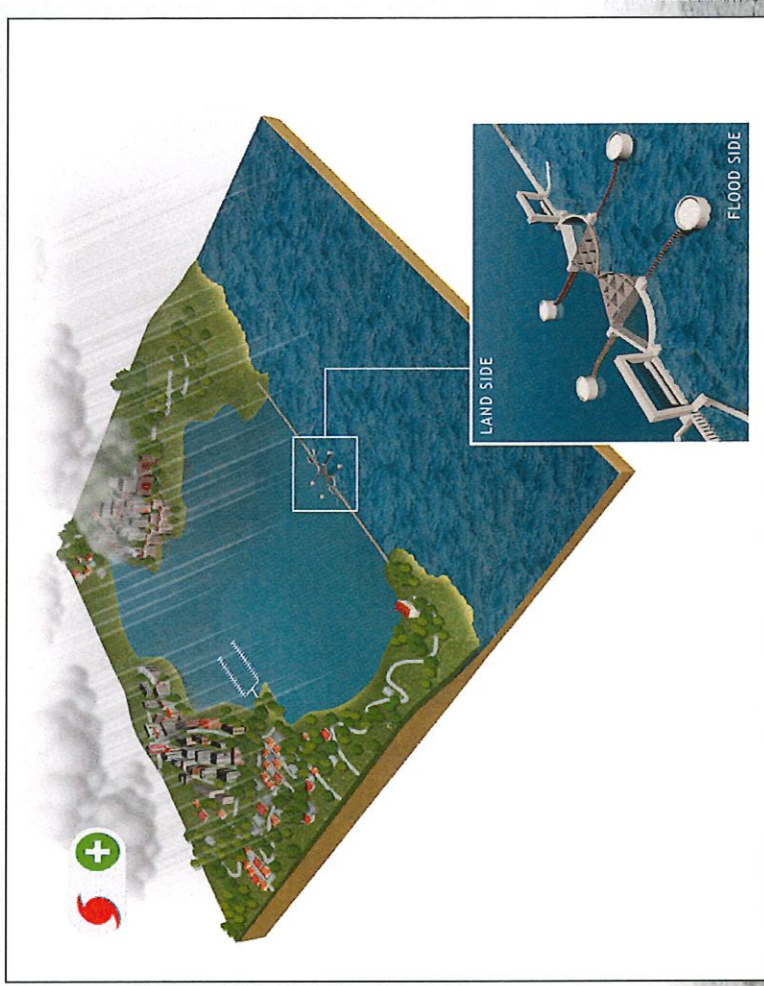
During the study process, the Corps will consider many alternatives. Each of these alternatives will be evaluated based on:

- Effectiveness
- Cost
- Environmental Impacts
- Public/Agency/Stakeholder Feedback
- Real estate
- Socioeconomic Considerations
- Adverse Impacts
- Risk Reduction
- Aesthetics



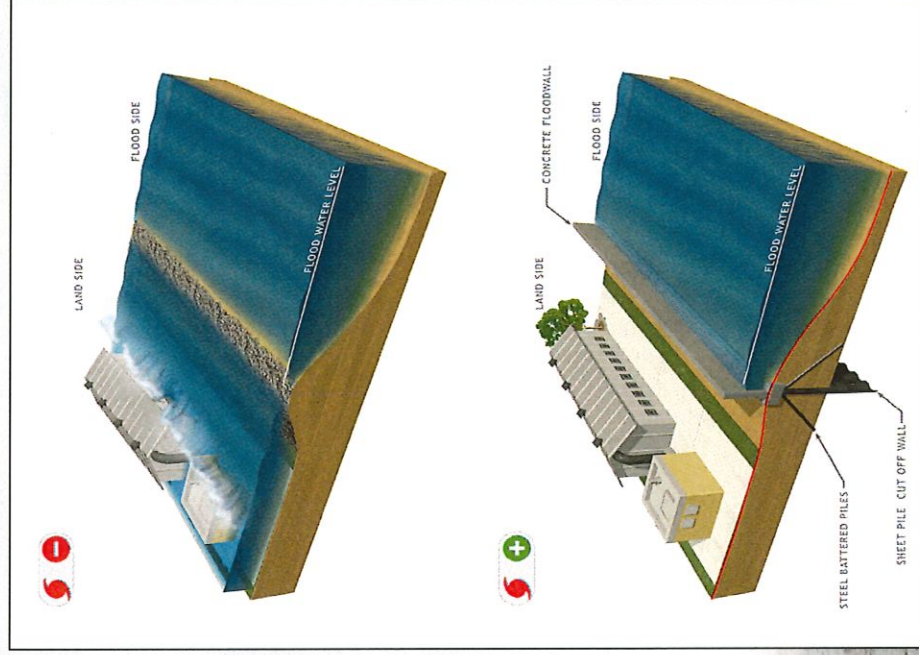
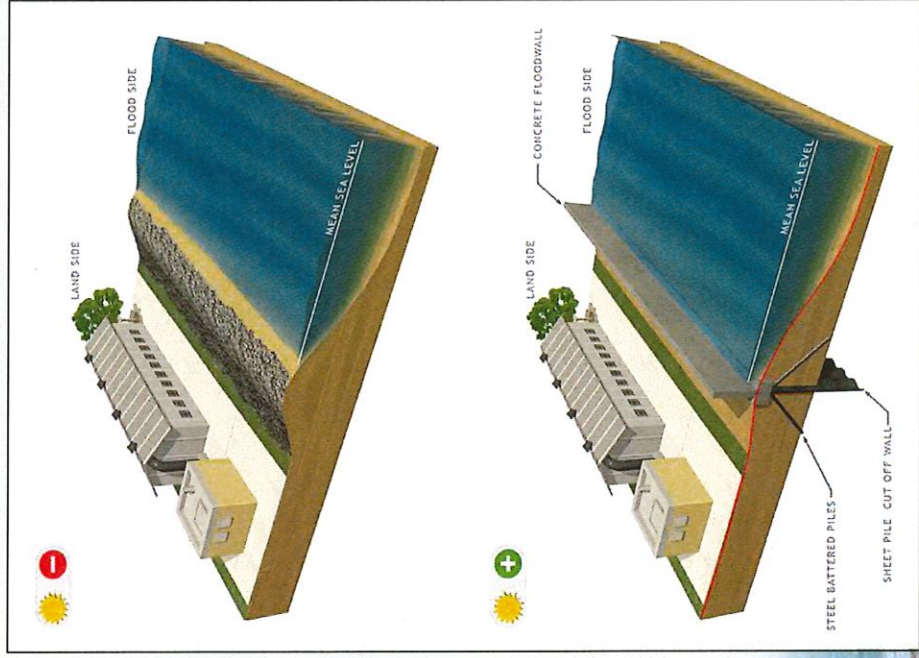
ALTERNATIVES EVALUATION

Alternative Example: **Storm Surge Barriers**

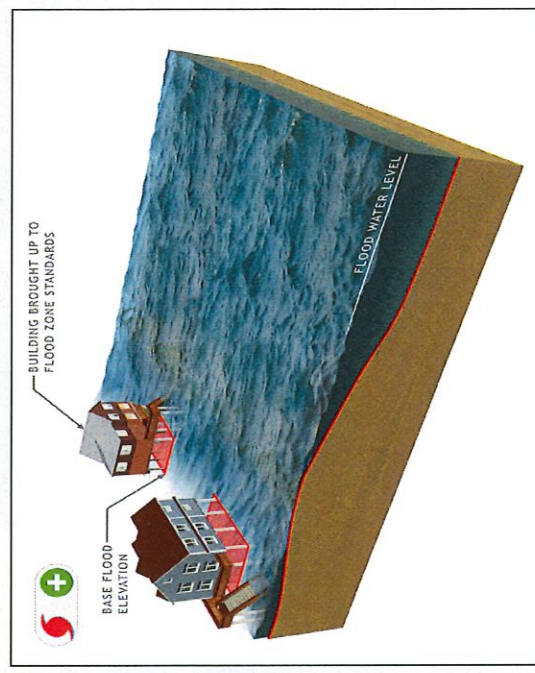
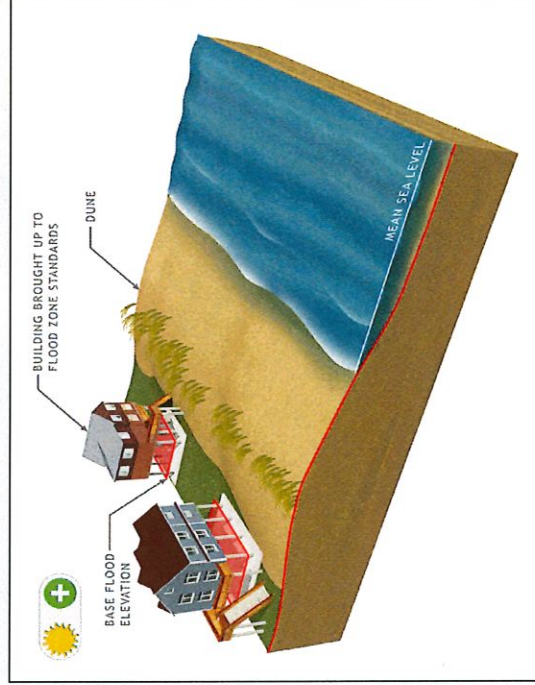
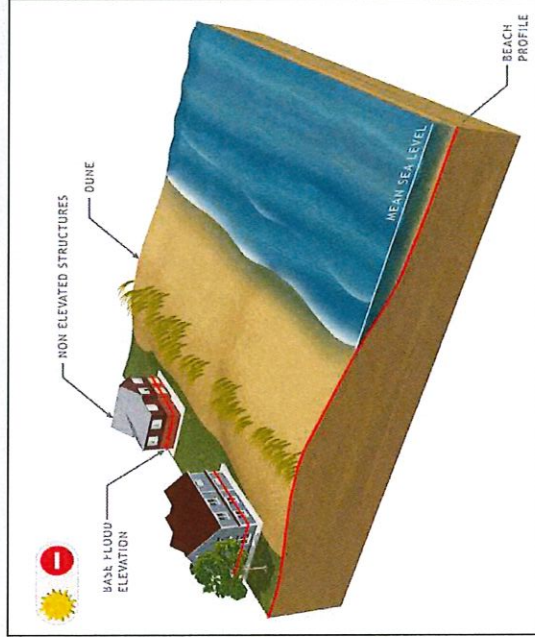


ALTERNATIVES EVALUATION

Alternative Example: Floodwalls

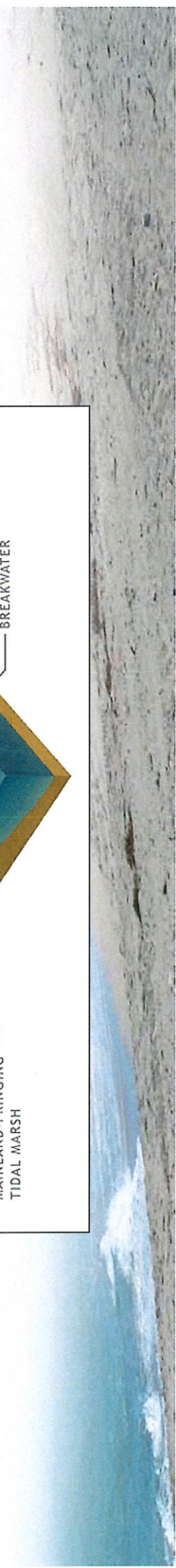
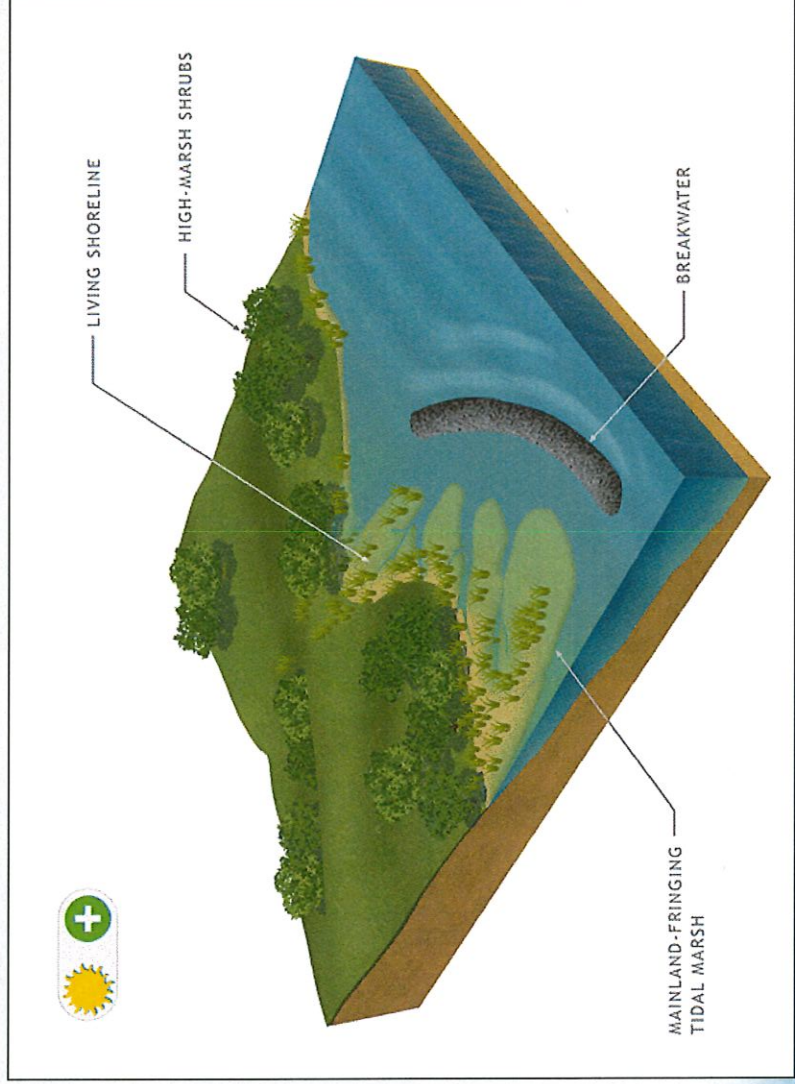


Alternative Example: Non-Structural (Elevating Structures, Floodproofing, Ring Walls, Acquisition/Relocation)



ALTERNATIVES EVALUATION

Alternative Example: **Natural & Nature-Based Features**



Study Analysis:

- Estimate coastal storm damages over the next 50 years if no action taken
- Estimate coastal storm damages with proposed project in place
- Compare damages reduced with project cost to measure net benefits

National Economic Development Plan (NED):

- Studies will identify the NED plan,
- NED plan is the plan that represents an alternative that reasonably maximizes net benefits consistent with protecting the environment.

Recommended Plan with Federal Cost Sharing:

- Other plans may have benefits (environmental, social, regional economic), in addition to the NED plan benefits which will be considered, and could be potentially be recommended for Federal action if they comply with policy

Cost Effectiveness Criteria:

- Benefit to Cost Ratio (BCR) = $\frac{\text{Benefit}}{\text{Costs}}$

BCR > 1
required for
congressional
authorization

NED Benefits*

(Damage Reduction)

- Structure Damages
- Content Damages
- Infrastructure Damages
- Vehicle Damages
- Land Value Losses

NED Costs*

- Construction
- Real Estate
- Environmental Mitigation
- Operation and Maintenance



*Examples, which may include, but are not limited to what is shown



FEASIBILITY STUDY COST PROJECTION



Funding Strategy (50% Fed, 50% Non-Fed)

	Base Year (March 2022)	Year 2 2023	Year 3 2024
Federal	\$200,000	\$1,000,000	\$300,000
Non-Federal	\$200,000	\$1,000,000	\$300,000
Total	\$400,000	\$2,000,000	\$600,000

Note: The Base Year includes execution of the Feasibility Cost Share Agreement, development of the Project Delivery Team, Scoping Meeting, Study Schedule, etc.



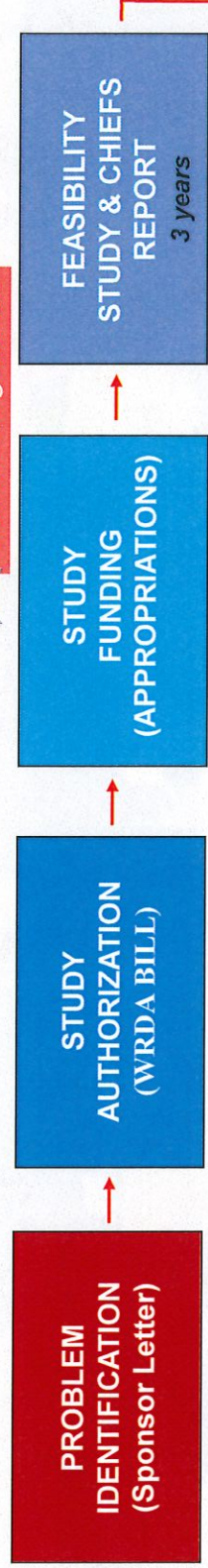


LIFE CYCLE PROJECT DELIVERY PROCESS



BUILDING STRONG

★ Execute Feasibility
Cost Share Agreement



Execute Design
Cost Share Agreement

Execute Project
Partnership Agreement

Provide
Sponsor
O&M Manual

Trusted Partners Delivering Value Today for a Better Tomorrow

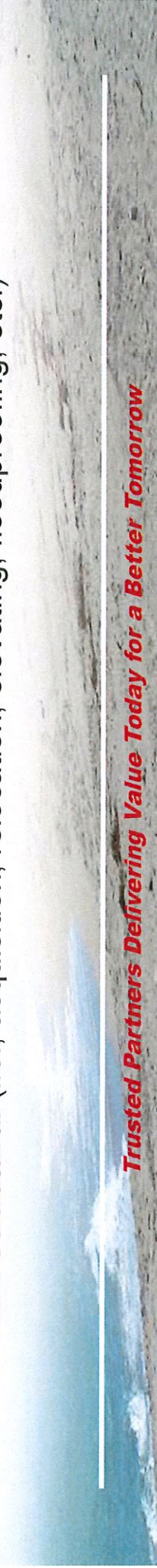


KEY FACTORS FOR A SUCCESSFUL STUDY



BUILDING STRONG

- Sponsor, Agency and Public Involvement during ALL phases of the project!
- Develop an Environmentally Sound Project meeting policy regulations!
- Positive **Benefit** (reduction of future damages) to **Cost** (50-year project cost) Ratio (BCR) must be greater than 1.
- Study full array of alternatives to include:
 - **Soft Structural** (i.e., beach nourishment, dune construction, living shorelines, etc.)
 - **Hard Structural** (i.e., coastal armoring, groins, breakwaters, etc.)
 - **Non-Structural** (i.e., acquisition, relocation, elevating, floodproofing, etc.)





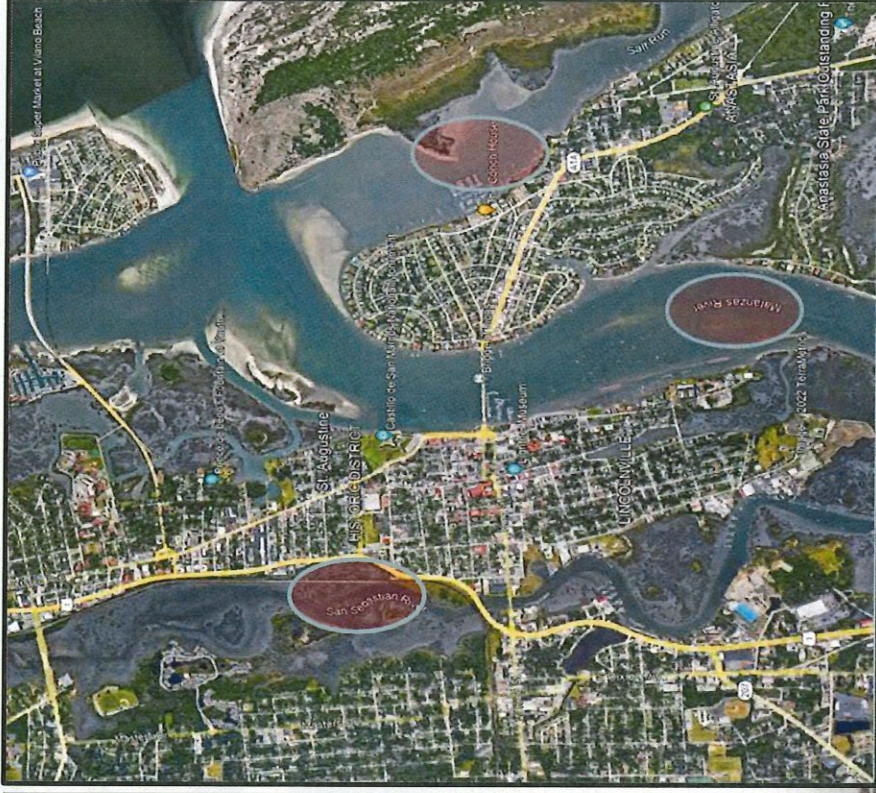
U.S. ARMY

STATUS OF ST. AUGUSTINE BACK STUDY



BUILDING STRONG

1. **Study Authorization:** **Complete** – Study authorized by House Resolution 2646
2. **Federal Appropriations:** **Complete** - Fed funds received (\$200k as part of FY22 Work Plan Allocations)
3. **Sponsor Decision to move forward with Feasibility Study:** **Pending**
 - If **yes**, USACE meets w/sponsor to fully define project scope/goals/objectives of study
 - USACE prepares Feasibility Cost Share Agreement for Sponsor review/execution
 - Once FCSA is executed USACE will request sponsor matching funds for FY22 (\$200k) via wire transfer. Additional funds are not requested until additional federal appropriations are received annually!
 - Once funds are received USACE/Sponsor/Agencies will meet to discuss final scope/schedule/budget.
 - If **no**, funds will be reprogrammed to another project/study waiting on funds.



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THANK YOU!



BUILDING STRONG

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