

# St. Augustine, Florida Back Bay Coastal Storm Risk Management Feasibility Study

## SEMI-ANNUAL PUBLIC WORKSHOP #2

Presented by:  
U.S. Army Corps of Engineers  
Jacksonville District

April 24, 2024

Non-Federal Sponsor: City of St. Augustine, Florida





# AGENDA



The **purpose** of this workshop is to provide residents and key stakeholders with the latest study information and get input for consideration moving forward.

## Presentation

- Study Overview
- Future Without Project (FWOP)
- Engineering & Economic Modeling
- Environmental Resources Update
- Cultural Resources Update
- Visual Resources Assessment Procedures (VRAP) Update
- Alternative Considerations

## Breakout Session

- **Model Areas**
  - ▶ **Western San Sebastian**
  - ▶ **Downtown Peninsula**
  - ▶ **Davis Shores Peninsula**
- **Visual Resources Assessment**



# STUDY OVERVIEW



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## Study Authority: 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**.

## Non-Federal Sponsor: City of St. Augustine (COSA)

POC: Jessica Beach, P.E., Chief Resilience Officer, [jbeach@citystaug.com](mailto:jbeach@citystaug.com)

## Study Area

- Entire COSA Municipal Boundary
- 17 Distinct Neighborhoods
- 3 Separate Land Masses
- Interconnected Water Bodies

**Objectives** to be achieved within the City of St. Augustine over a 50-year period of analysis from 2035-2085 are to...

1. Manage risk of coastal flood damages.
2. Manage risk to health and life-safety.
3. Manage risk to cultural and natural resources.
4. Manage flooding impacts to the local economy.

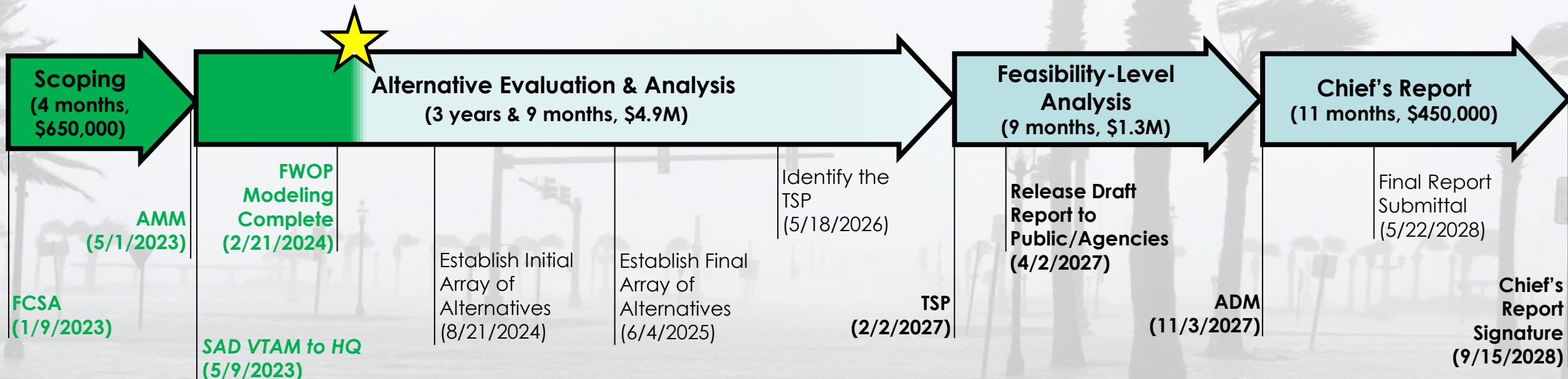


# STUDY OVERVIEW

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Schedule & Budget Overview: 5 years & 9 months, \$7.3M, Cost Share ~50% Fed, 50% Sponsor



## Key Components of the Study Scope:

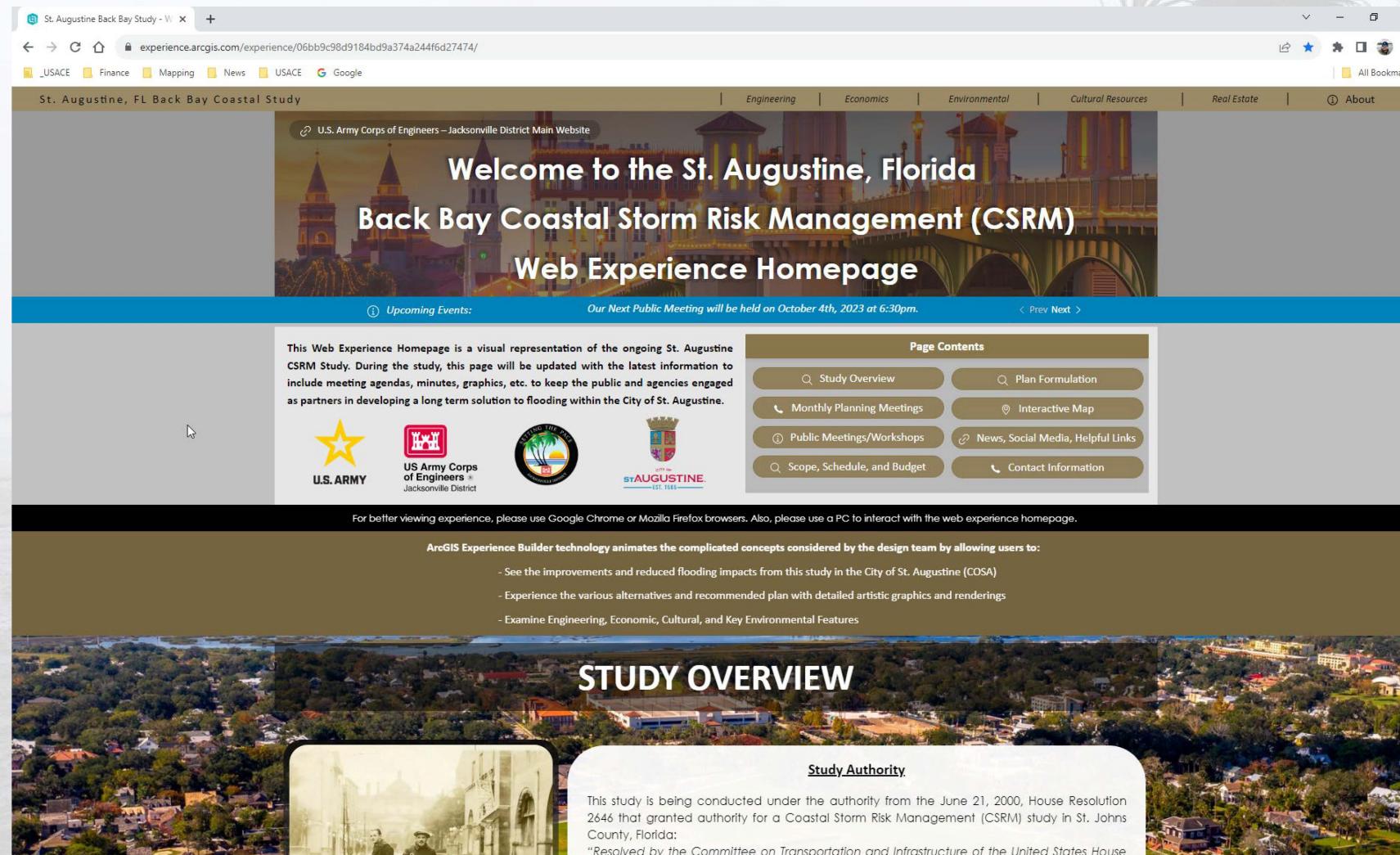
- Entire City of St. Augustine (COSA)
- Compound Flooding
- Full Array of Alternatives & Comprehensive Benefits
- Environmental Impact Statement (EIS) Likely
- Robust Community Outreach

## Acronyms

FCSA = Feasibility Cost Share Agreement  
 AMM = Alternatives Milestone Meeting  
**FWOP = Future Without Project**  
 SAD = South Atlantic Division  
 VTAM = Vertical Team Alignment Memo  
 HQ = Headquarters  
 TSP = Tentatively Selected Plan  
 ADM = Agency Decision Milestone



# PUBLIC OUTREACH (STUDY WEBSITE)



The screenshot shows the homepage of the St. Augustine Back Bay Coastal Study. The title "Welcome to the St. Augustine, Florida Back Bay Coastal Storm Risk Management (CSRM) Web Experience Homepage" is displayed prominently. Below the title, there is a "Page Contents" section with links to "Study Overview", "Plan Formulation", "Monthly Planning Meetings", "Interactive Map", "Public Meetings/Workshops", "News, Social Media, Helpful Links", "Scope, Schedule, and Budget", and "Contact Information". The "Study Overview" section features a large image of the St. Augustine skyline and a historical photograph of a church. The "Study Authority" section contains a quote from the House Resolution 2646.

St. Augustine, FL Back Bay Coastal Study

U.S. Army Corps of Engineers – Jacksonville District Main Website

## Welcome to the St. Augustine, Florida Back Bay Coastal Storm Risk Management (CSRM) Web Experience Homepage

Upcoming Events: Our Next Public Meeting will be held on October 4th, 2023 at 6:30pm.

This Web Experience Homepage is a visual representation of the ongoing St. Augustine CSRM Study. During the study, this page will be updated with the latest information to include meeting agendas, minutes, graphics, etc. to keep the public and agencies engaged as partners in developing a long term solution to flooding within the City of St. Augustine.

U.S. ARMY US Army Corps of Engineers Jacksonville District ST. AUGUSTINE

For better viewing experience, please use Google Chrome or Mozilla Firefox browsers. Also, please use a PC to interact with the web experience homepage.

ArcGIS Experience Builder technology animates the complicated concepts considered by the design team by allowing users to:

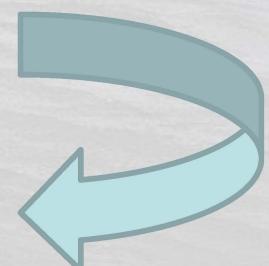
- See the improvements and reduced flooding impacts from this study in the City of St. Augustine (COSA)
- Experience the various alternatives and recommended plan with detailed artistic graphics and renderings
- Examine Engineering, Economic, Cultural, and Key Environmental Features

## STUDY OVERVIEW

**Study Authority**

This study is being conducted under the authority from the June 21, 2000, House Resolution 2646 that granted authority for a Coastal Storm Risk Management (CSRM) study in St. Johns County, Florida:  
"Resolved by the Committee on Transportation and Infrastructure of the United States House

<https://experience.arcgis.com/experience/06bb9c98d9184bd9a374a244f6d27474/>





# PUBLIC OUTREACH



U.S. Army Corps of Engineers, Jacksonville District

...  
Intro

Welcome to the Facebook site of the U.S. Army Corps of Engineers, Jacksonville District

**i** Page · Government organization

701 San Marco Blvd., Jacksonville, FL, United States, Florida

✉ PublicMail.CESAJ-CC@usace.army.mil

🌐 saj.usace.army.mil

⌚ Closed now

⭐ Rating · 3.7 (73 Reviews) **i**

**Photos** See all photos

9h

**U.S. Army Corps of Engineers, Jacksonville District** 1d

Join USACE Jacksonville April 24 at 6 p.m. for a workshop on all aspects of the St. Augustine Back Bay Study. Details at <https://www.saj.usace.army.mil/.../City-of-St-Augustine.../> @CityStAug

**St. Augustine Back Bay CSRM Feasibility Study Public Workshop**  
**April 24, 2024, 6-8 p.m.**

**Presented by U.S. Army Corps of Engineers and the City of St. Augustine**

**Willie Gallimore Recreation Center**  
**399 Riberia St., St. Augustine, 32084**

**All Are Welcome – No RSVP Required**

4

Like Comment





# UPCOMING PUBLIC ENGAGEMENT



Dates	Events
<b>April 24<sup>th</sup>, 2024 Starts @ 6:00pm</b>	<b>In Person Public Workshop @ Willie Galimore Recreation Center – 399 Riberia St, St. Augustine, FL 32084</b>
May 16 <sup>th</sup> , 2024 @ 1:00pm	Monthly Webinar
June 20 <sup>th</sup> , 2024 @ 1:00pm	Monthly Webinar
July 18 <sup>th</sup> , 2024 @ 1:00pm	Monthly Webinar
August 15 <sup>th</sup> , 2024 @ 1:00pm	Monthly Webinar
September 19 <sup>th</sup> , 2024 @ 1:00pm	Monthly Webinar
<b>October 2024</b>	<b>In Person Public Workshop Location TBD</b>



# PUBLIC OUTREACH (SPONSOR SITES)



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[Submit Public Comment](#)

US Army Corps of Engineers Jacksonville  
District: St. Augustine Florida Back Bay  
Feasibility Study

Scoping Meeting and Comment Period  
Notice Letter for USACE St. Augustine  
Back Bay Coastal Storm Risk Management  
(CSRM) Feasibility Study (PDF)



[Home](#) > [Government](#) > [Resiliency](#) > [Planning/Studies](#) > Back Bay Feasibility Study with the Army Corps of Engineers

## Back Bay Feasibility Study with the Army Corps of Engineers

The objectives of the study include (1) reduce flooding caused by coastal storms, extreme high tides, and future projected sea level rise in the study area; (2) explore opportunities to increase community resiliency from future coastal storms. Issues that are anticipated include concern for aesthetics, cultural resources, recreation, socioeconomics, environmental justice, wetlands, fish and wildlife resources, threatened and endangered species, and water quality. CSRM measures to be evaluated may include a combination of structural (i.e., tidal gates, seawalls, revetments, levees, drainage improvements, building elevation, etc.), non-structural (i.e., relocation, buyouts, etc.), and natural and nature-based features (i.e., living shorelines, vegetated features, oyster reefs, and maritime forests). Public Comments will be accepted throughout the life of the study.

Back Bay Signing Ceremony January 9th, 2023



[Submit Public Comment](#)



[Submit Public  
Comment](#)

Email: [BackBay@citystaug.com](mailto:BackBay@citystaug.com)



US Army Corps  
of Engineers ®  
Jacksonville District

[Jacksonville District Website](#)

[Monthly Project Delivery Team \(PDT\) Meetings](#)



## Social Media

<https://www.instagram.com/citystaug/>

<https://www.facebook.com/citystaug>

<https://twitter.com/citystaug>





# CITY OF ST. AUGUSTINE



CITY OF  
**ST AUGUSTINE**  
EST. 1565



## CITY OF ST. AUGUSTINE



### Project Map Key

1. Lake Maria Sanchez Flood Mitigation
2. South Whitney/West King Street Drainage
3. Inlet Drive Shoreline Stabilization
4. South Davis Shores Drainage
5. Court Theophelia Neighborhood Drainage
6. Avenida Menendez Seawall

### City Wide Projects

- Tidal Backflow Prevention Program
- Groundwater Monitoring Network

### City Planning Studies

- Back Bay Feasibility Study (Federal)
- Vulnerability Assessment Update (State)

### City Programs

- Flood Mitigation Assistance (FMA) Program

### City Ordinances

- Proposed Resilient Shorelines Ordinance

## RESILIENCE STRATEGIES

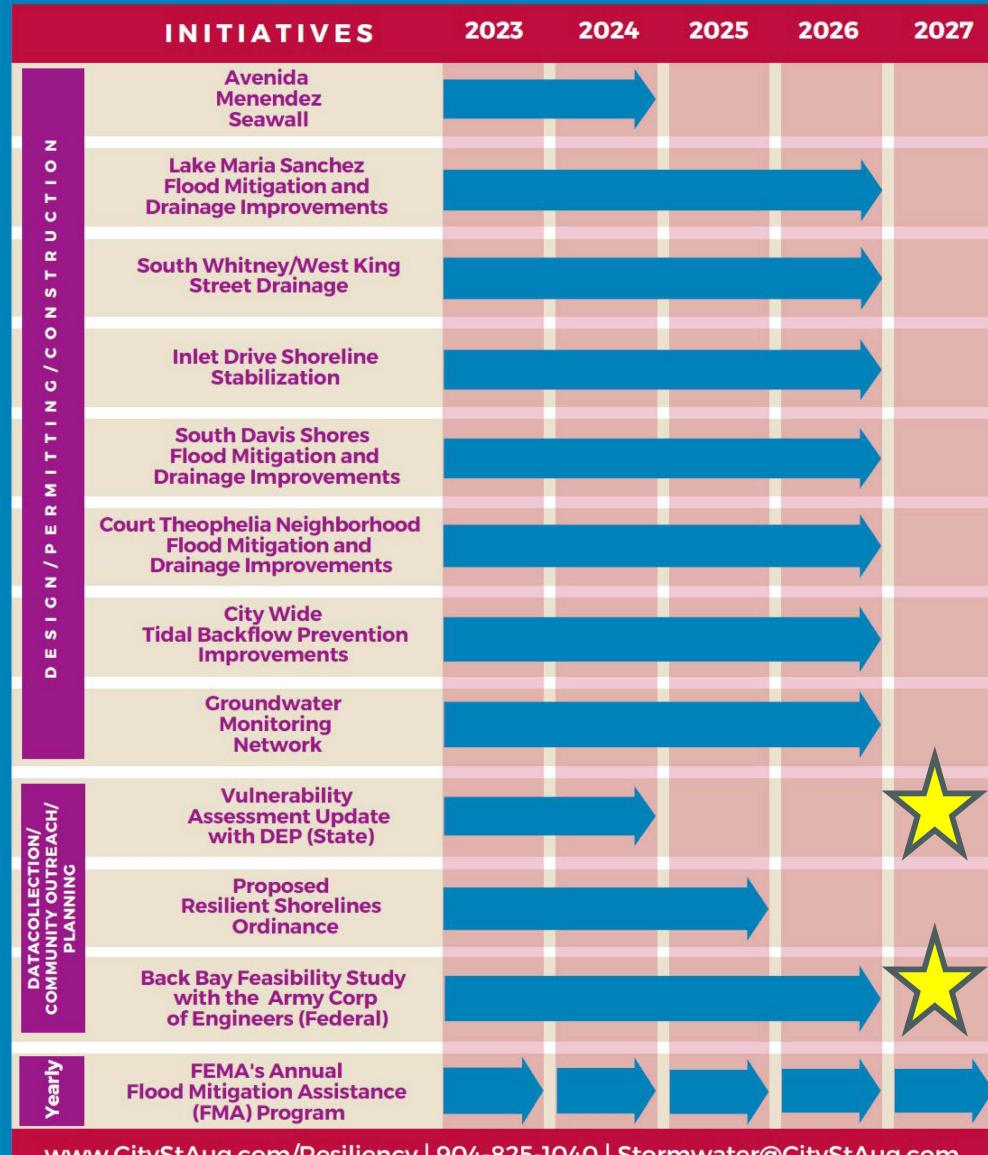
PROJECTS

PLANNING/STUDIES

POLICY

PROGRAMS

## RESILIENCE EFFORTS TIMELINE



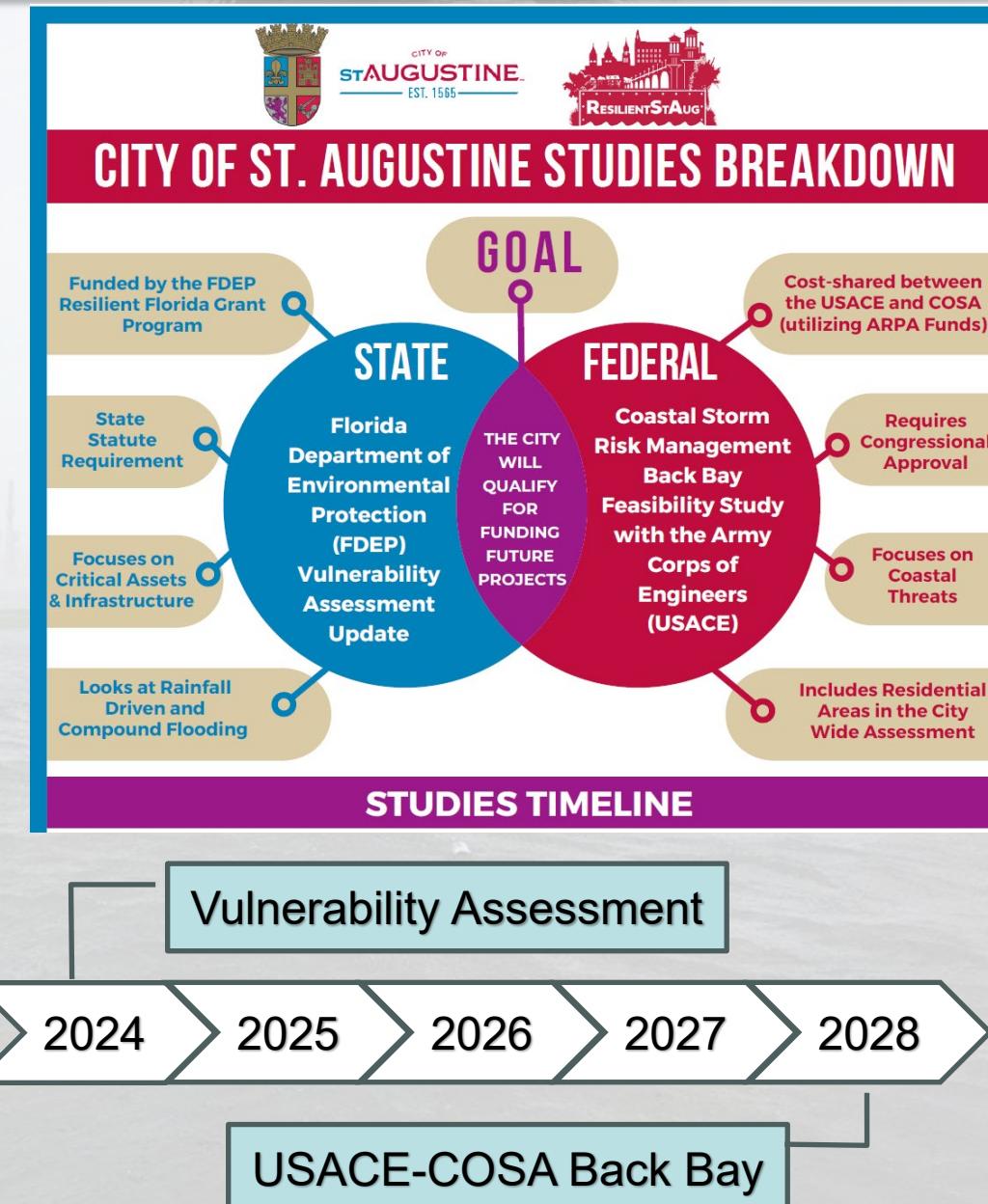


# CITY OF ST. AUGUSTINE



- **Other On-Going Coordination Efforts**
  - ▶ USACE Back Bay Study
  - ▶ State Funded Vulnerability Assessment:
    - City of St. Augustine
    - St. Johns County
    - City of St. Augustine Beach
  - ▶ FL Dept of Transportation (FDOT) Seawall Rehabilitation
  - ▶ National Park Service (NPS) Seawall Rehabilitation
  - ▶ Northeast Florida Regional Council – Resilient First Coast Collaborative

[www.citystaug.com/Resiliency](http://www.citystaug.com/Resiliency)

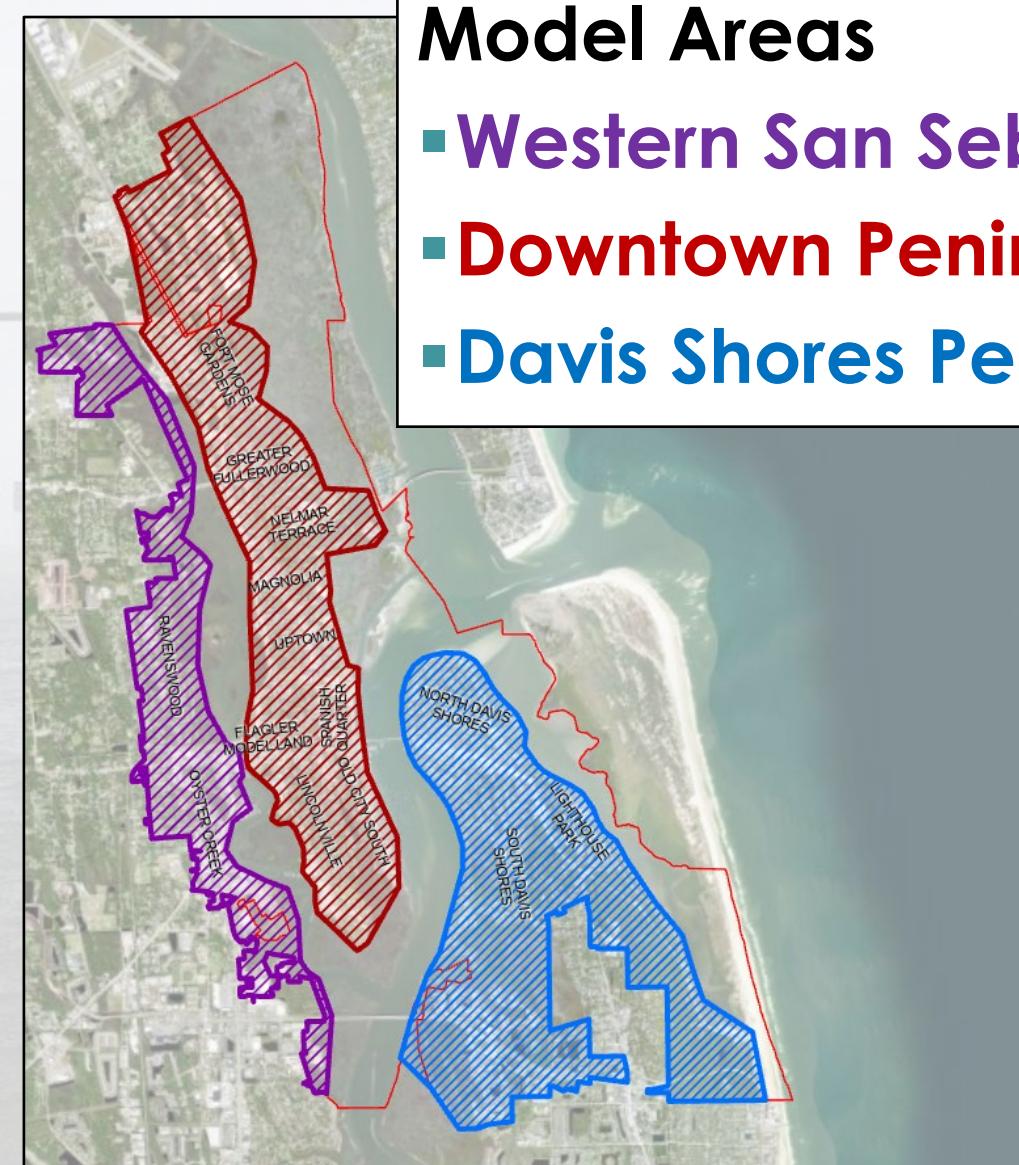
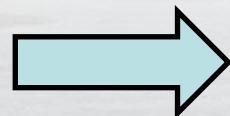




# STUDY MODEL REACHES



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# REPRESENTATIVE COASTAL STORMS



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## Development of Representative Storms

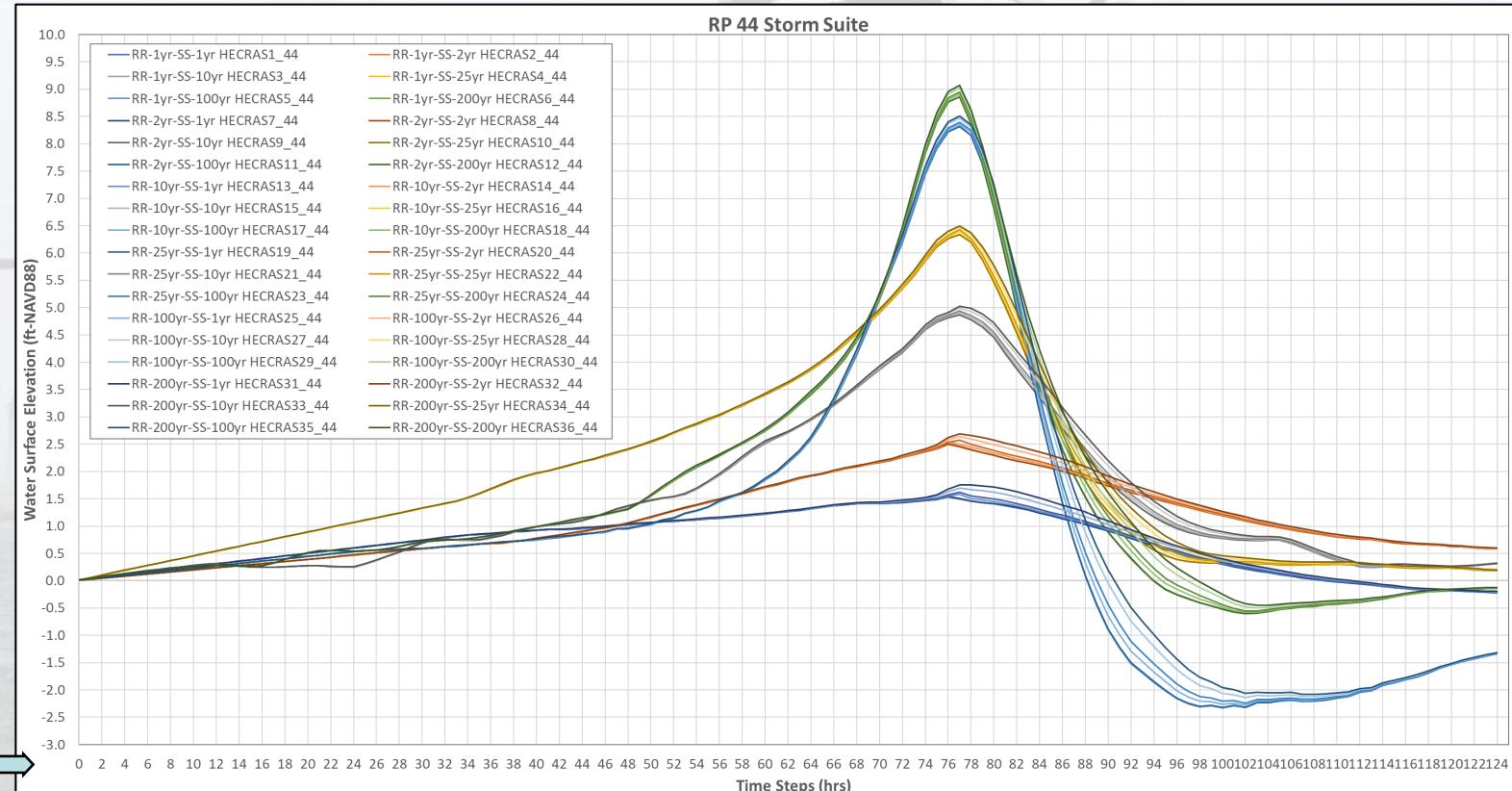
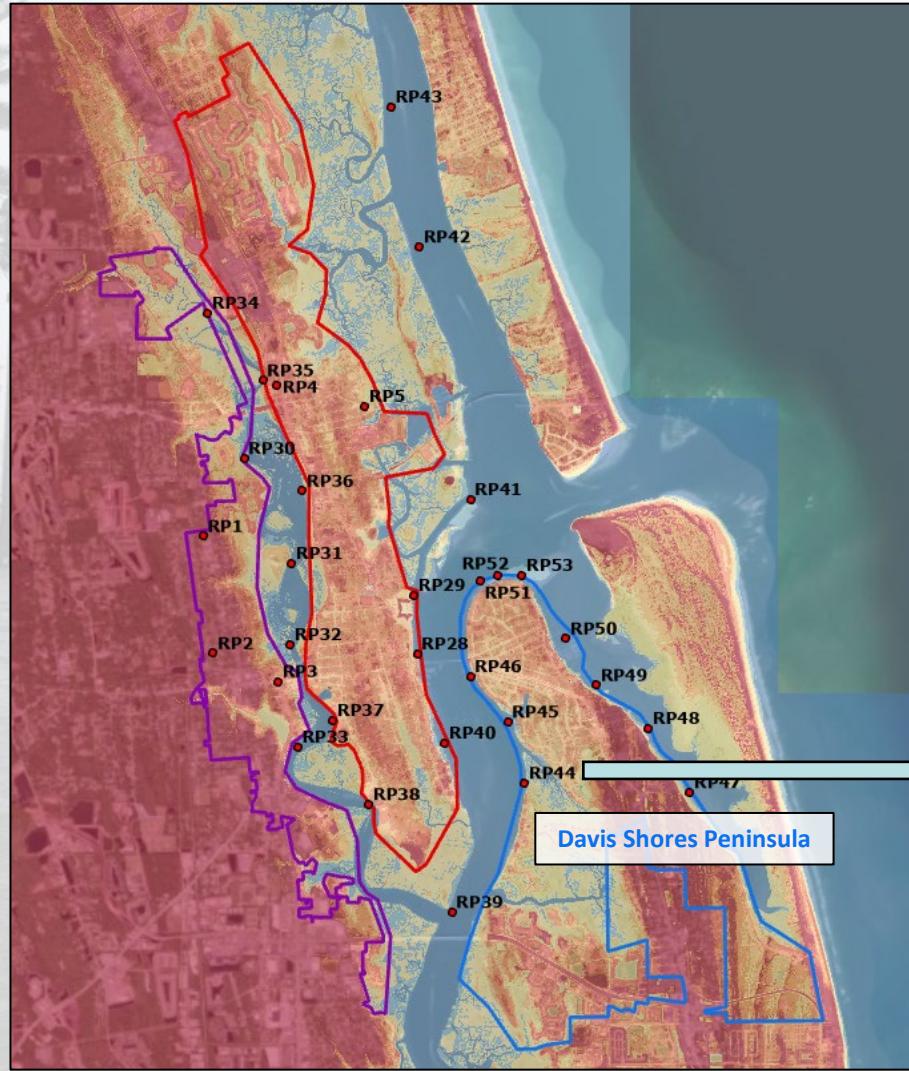
- **Compound flooding** modeling approach that includes total water level from **coastal surge** and **rainfall driven riverine flooding**.
- **36 individual storm scenarios** that include a comprehensive range of events for both coastal surge from the Coastal Hazards System (CHS) and rainfall from National Oceanic and Atmospheric Administration (NOAA) Atlas 14.
- Storm selection based on the historical coastal storm occurrences and the study area's sensitivity to inundation.
- Compound flooding scenarios modeled in USACEs Hydrologic Engineering Center's River Analysis System (HEC-RAS) software.
- Two Representative Points (RP) containing the water level results were selected based on dominant flood driver and the most conservative peak water levels.



# REPRESENTATIVE COASTAL STORMS



## DAVIS SHORES PENINSULA



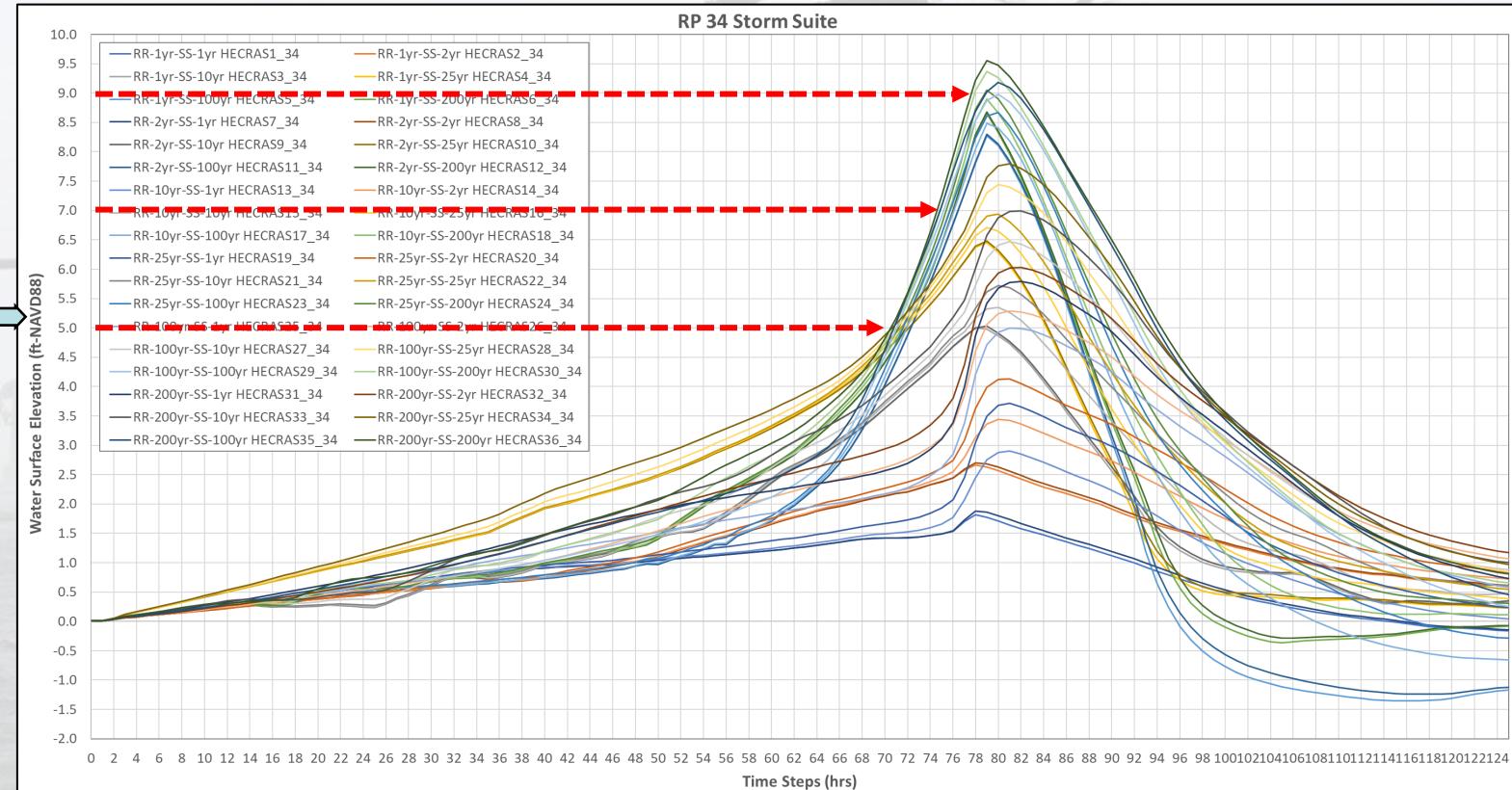
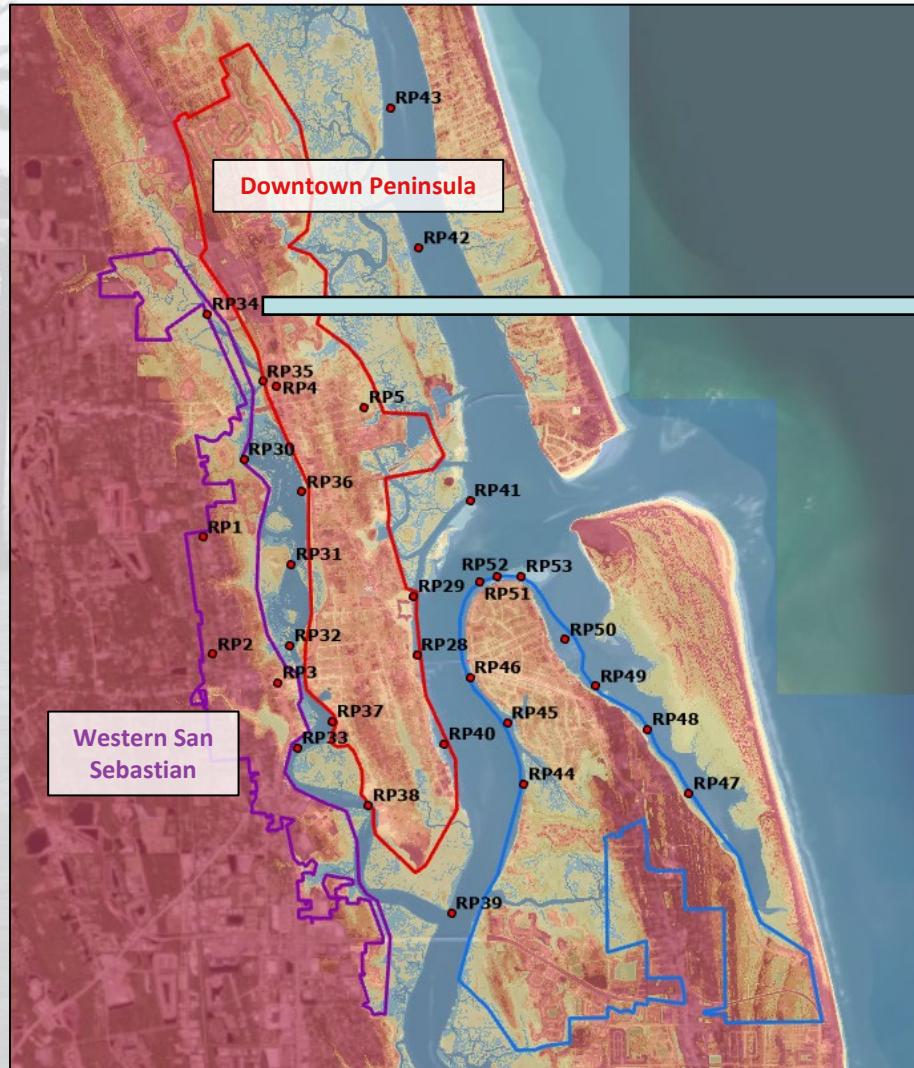
### Representative Storm Overview

- Peaks range from 1.54 to 9.07 ft-NAVD88.
- Predominately coastally influenced.

# REPRESENTATIVE COASTAL STORMS



## DOWNTOWN PENINSULA & WESTERN SAN SEBASTIAN



### Representative Storm Overview

- Peaks range from 1.82 to 9.55 ft-NAVD88.
- Heavily influenced by rainfall-riverine.



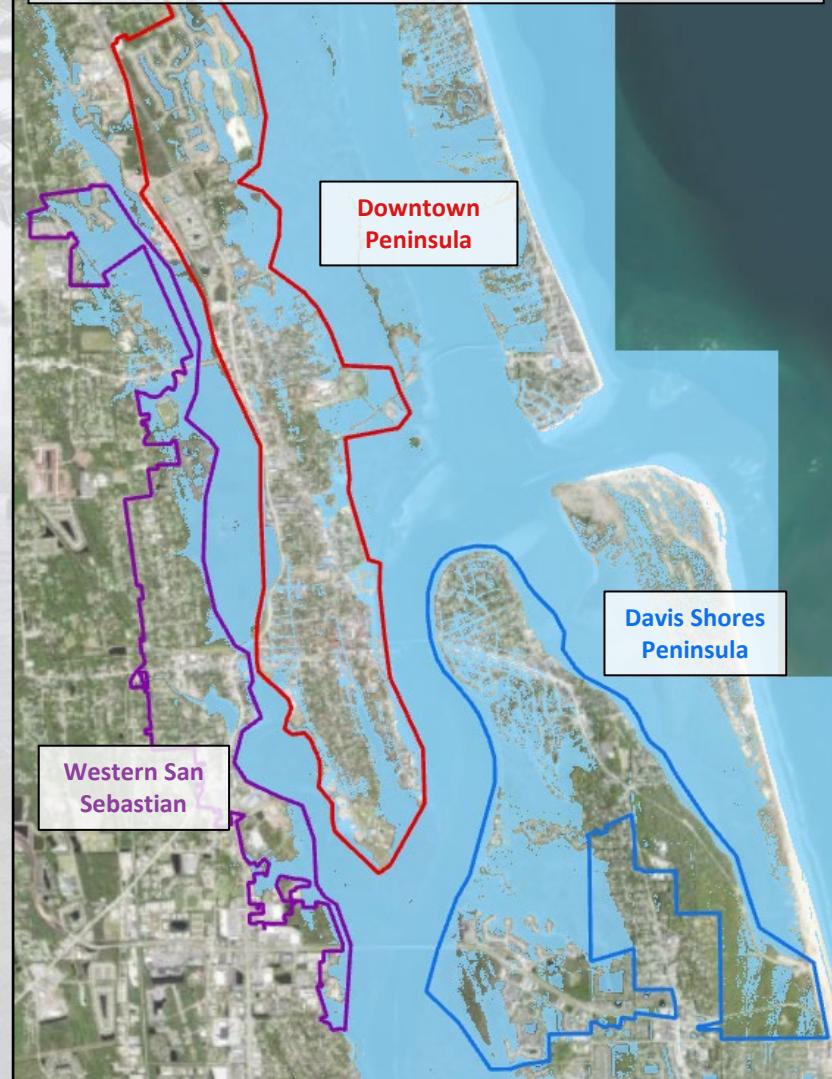
# REPRESENTATIVE COASTAL STORMS



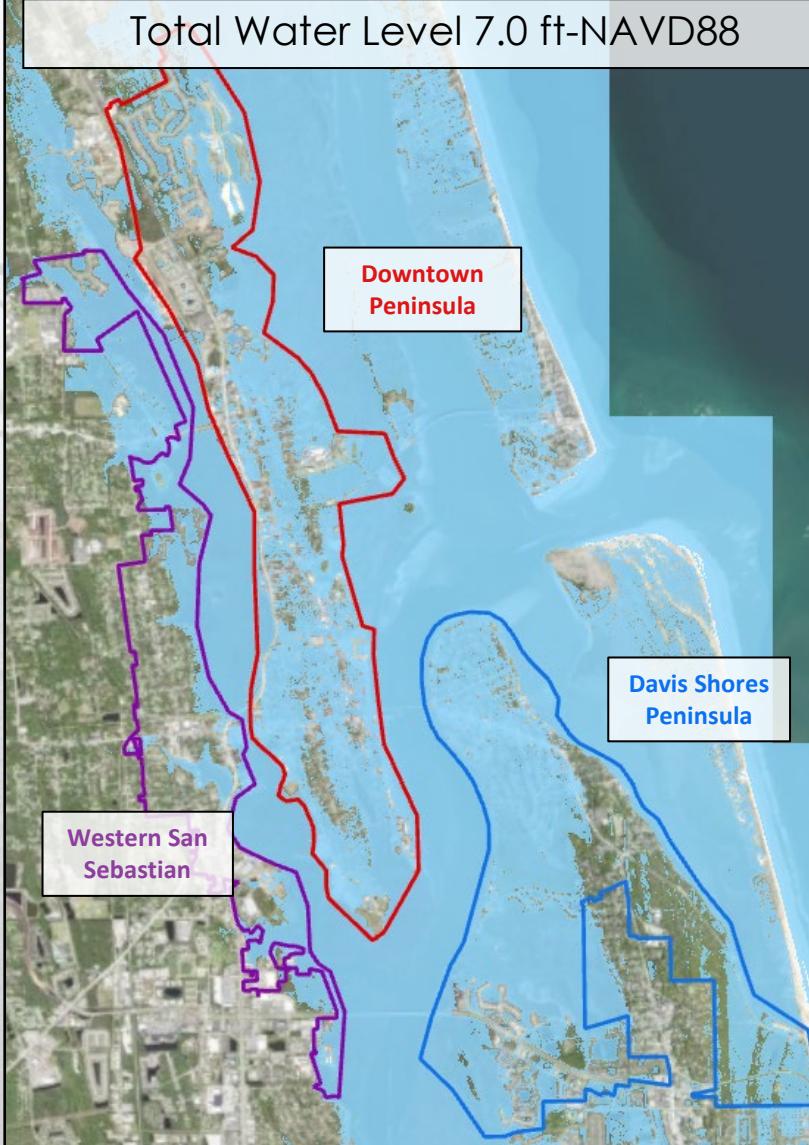
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## EXTENT OF COASTAL STORM FLOODING

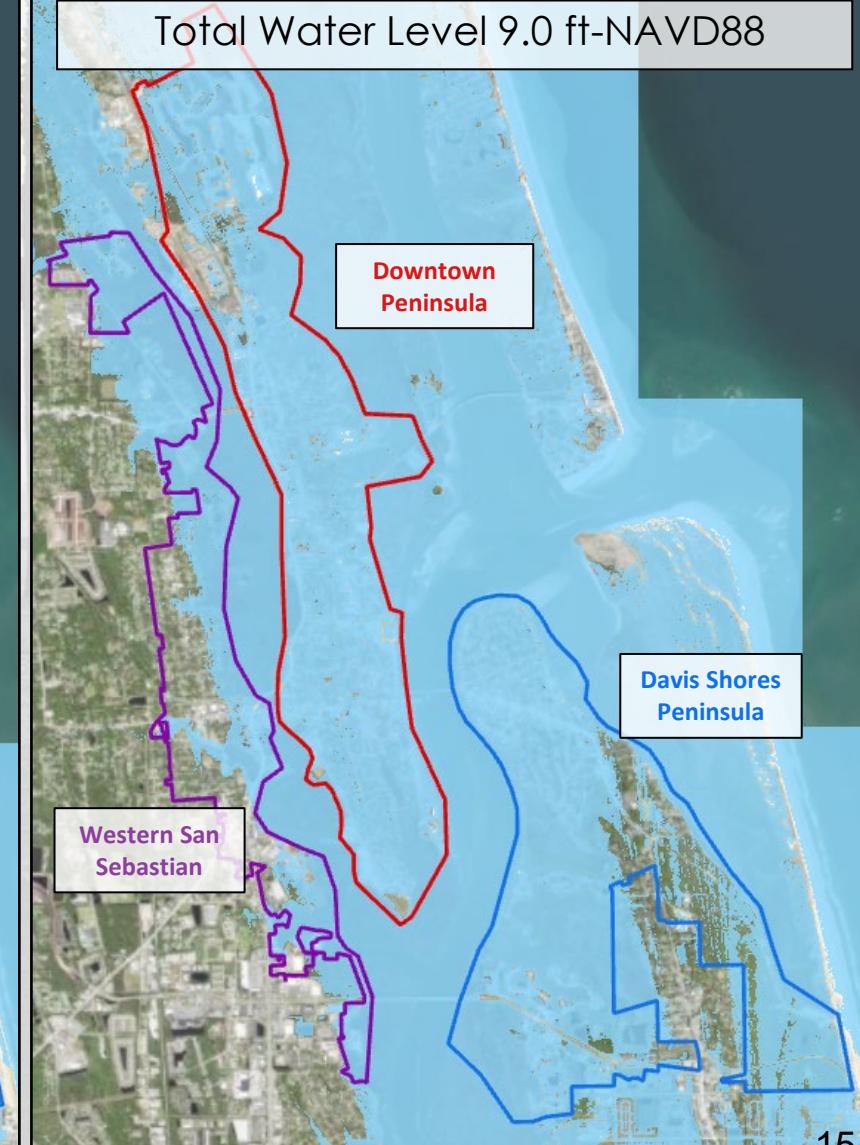
Total Water Level 5.0 ft-NAVD88



Total Water Level 7.0 ft-NAVD88



Total Water Level 9.0 ft-NAVD88

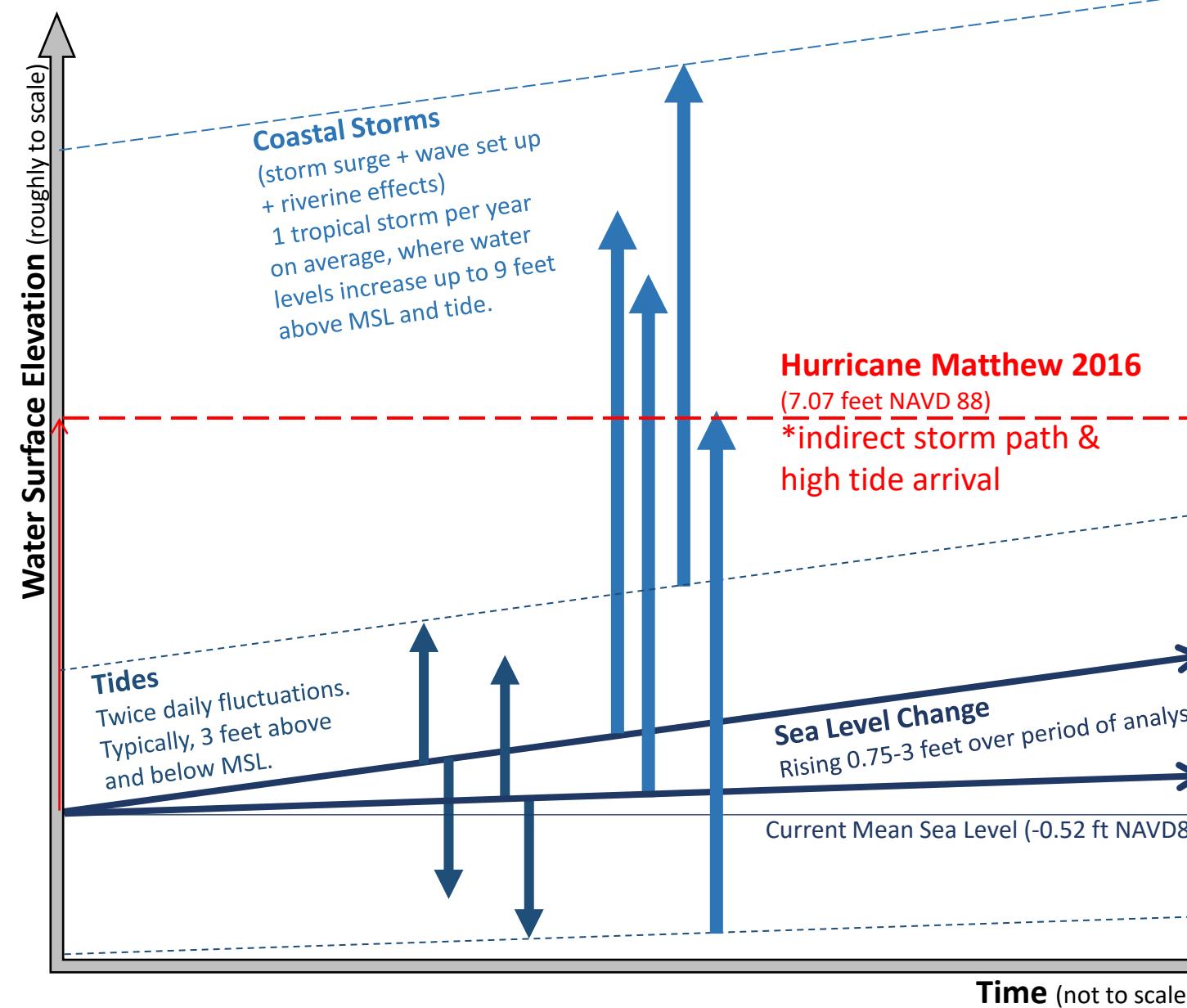




# FUTURE COASTAL STORM SIMULATION



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(12-15 Feet NAVD 88)





# FUTURE WITHOUT PROJECT (FWOP) MODELING

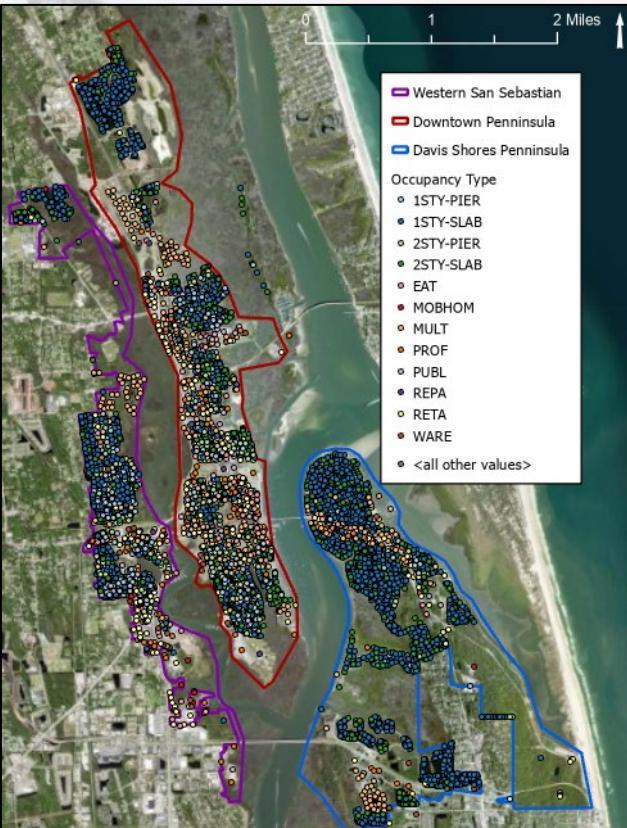


## ECONOMICS - ASSET INVENTORY

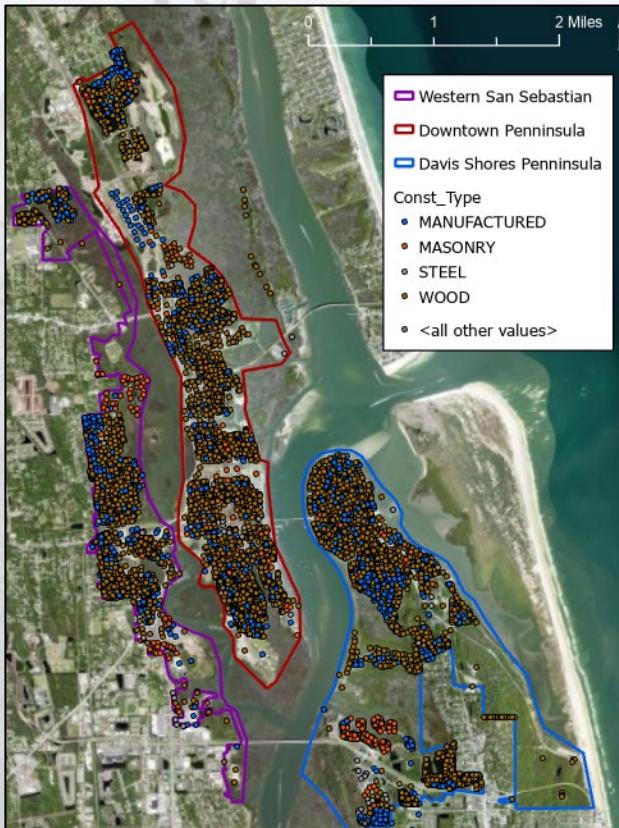
Structure distribution by ...

Area	Count	Structure Value	Content Value	Total
City of St. Augustine	8,264	\$ 3.3 Billion	\$ 2.1 Billion	\$ 5.4 Billion
Western San Sebastian	1,891	\$ 535 Million	\$ 356 Million	\$ 891 Million
Downtown Peninsula	3,856	\$ 1.9 Billion	\$ 1.2 Billion	\$ 3.1 Billion
Davis Shore Peninsula	2,517	\$ 876 Million	\$ 523 Million	\$ 1.4 Billion
Auto	9,653	\$ 100 Million		

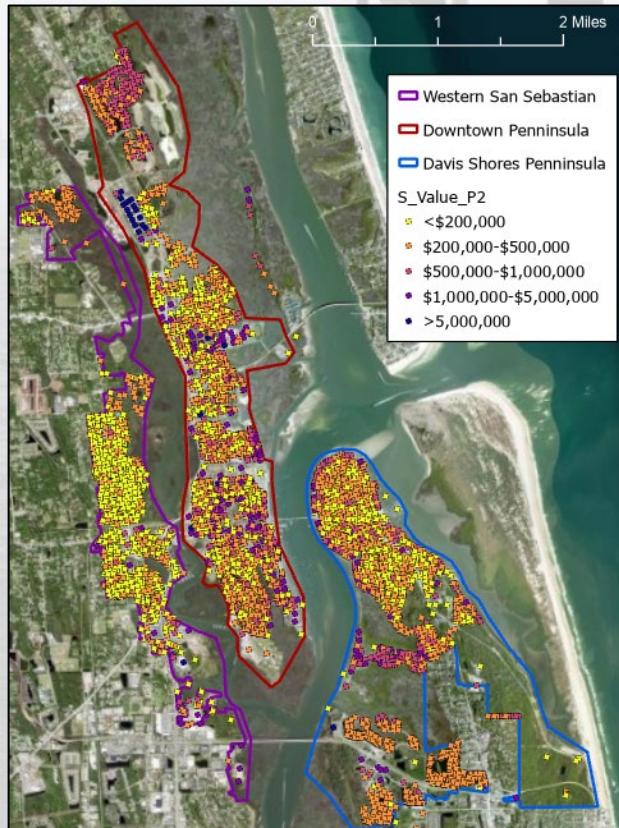
### Occupancy Type



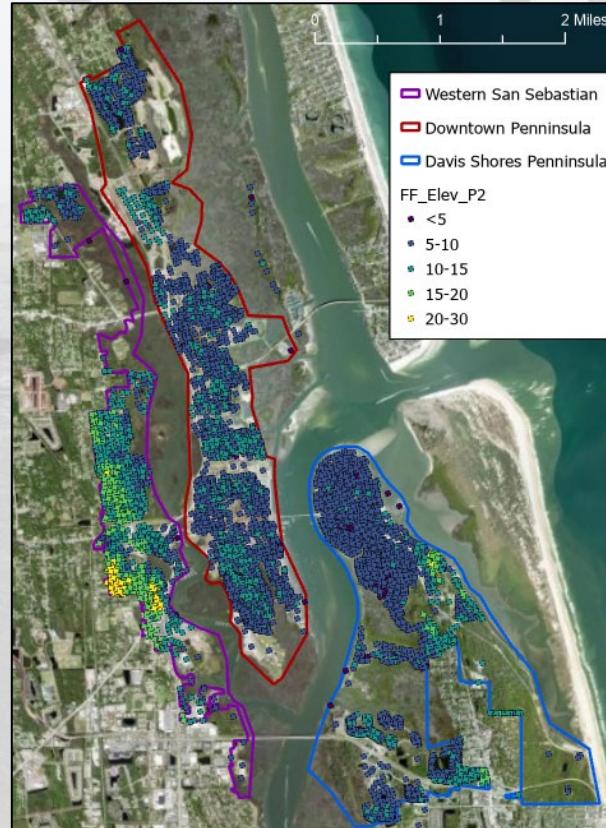
### Construction Type



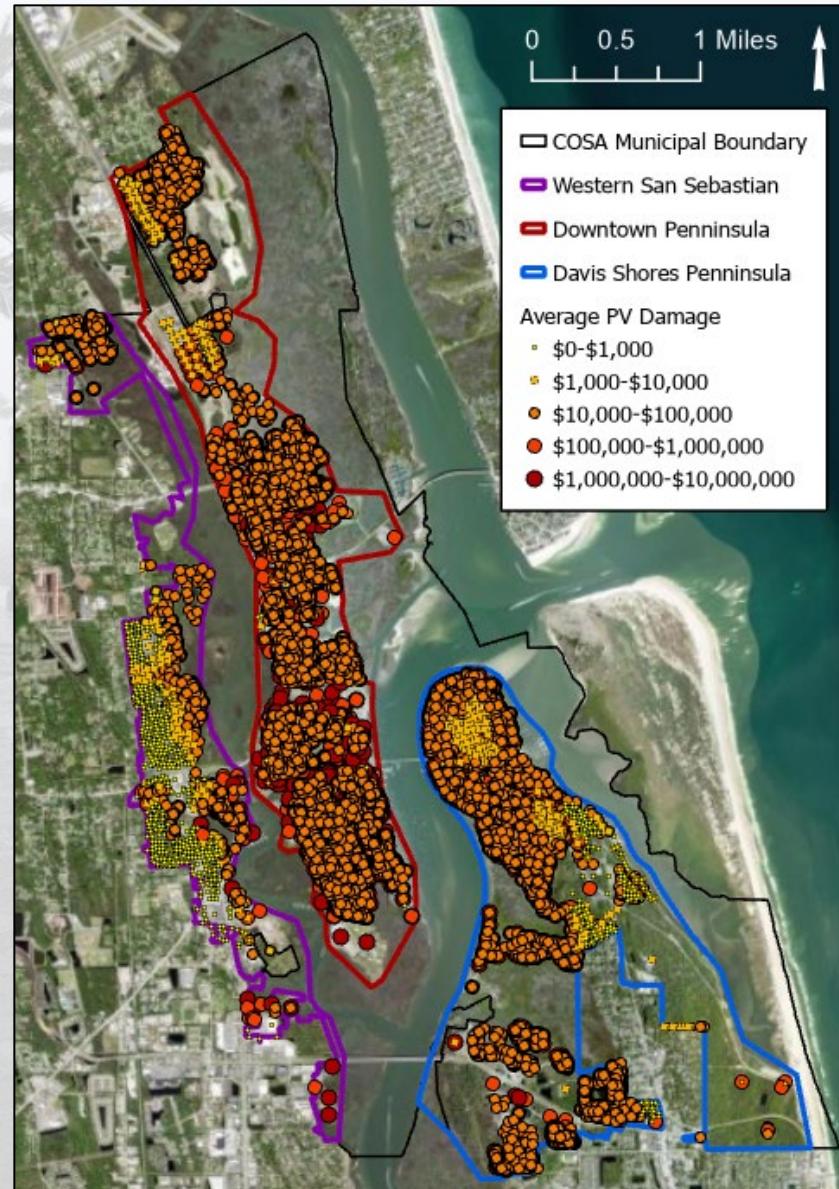
### Replacement Value



### First Floor Elevation

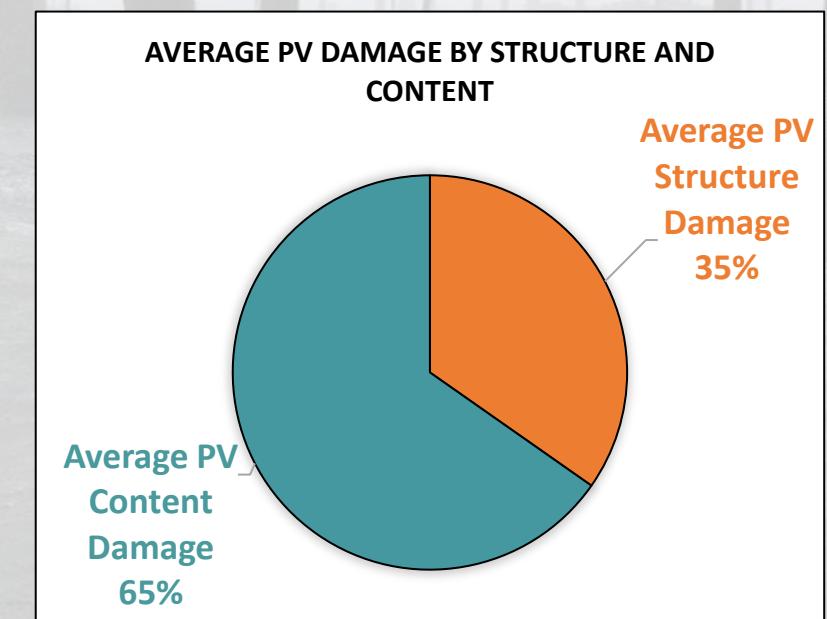
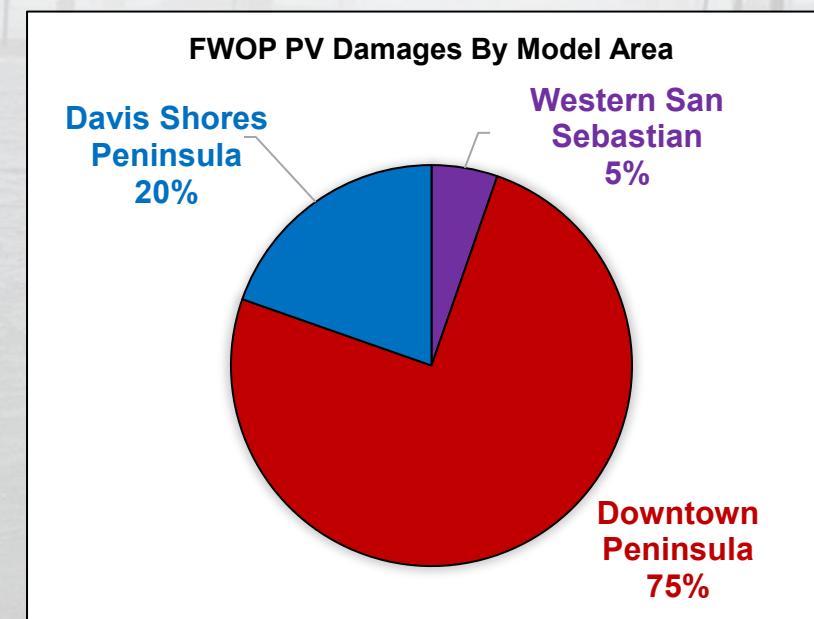


## ECONOMICS – FWOP RESULTS OVERVIEW



Sea Level Change Scenario	<u>Low</u>	Intermediate	<u>High</u>
Estimated Average Present Value (PV) Damage	\$ 3.3 Billion	\$ 4.1 Billion	\$ 8.3 Billion
Estimated Minimum PV Damages	> \$ 600 Million	> \$ 800 Million	> \$ 3 Billion
Estimated Maximum PV Damages	< \$ 9 Billion	< \$ 11 Billion	< \$ 16 Billion

*Note: Values based on 100 iterations simulated in G2CRM.*

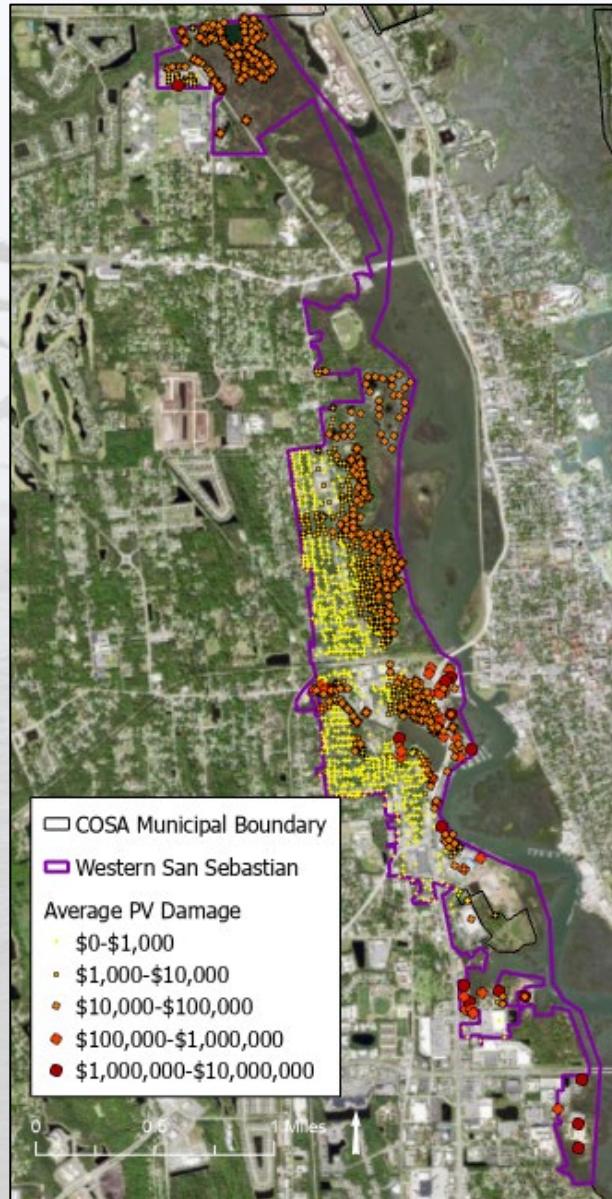


*Note: Values in figures based on USACE intermediate SLC scenario and 100 iterations simulated in G2CRM.*

# FUTURE WITHOUT PROJECT (FWOP) MODELING



## ECONOMICS – WESTERN SAN SEBASTIAN FWOP RESULTS



### FWOP NED Damages Through 2084

#### Sea Level Change Scenario

Estimated Average Present Value (PV) Damage

#### Low

\$ 182 Million

#### Intermediate

\$ 225 Million

#### High

\$ 441 Million

Estimated Minimum PV Damages

> \$ 33 Million

> \$ 46 Million

> \$ 145 Million

Estimated Maximum PV Damages

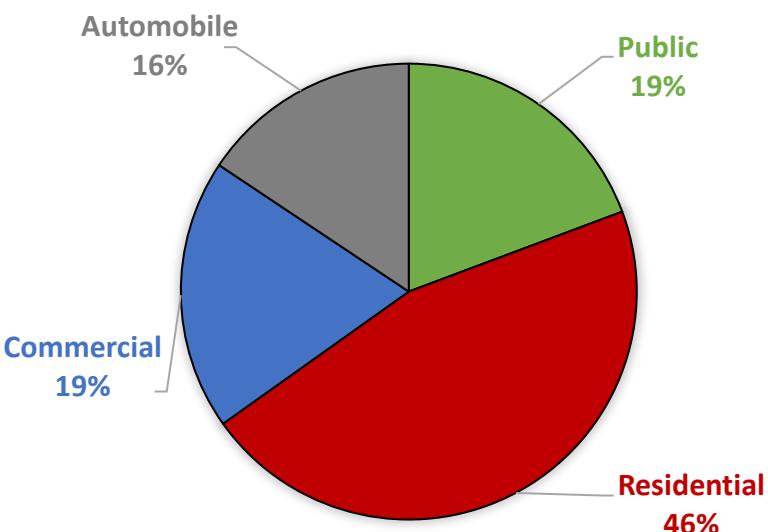
< \$ 420 Million

< \$ 480 Million

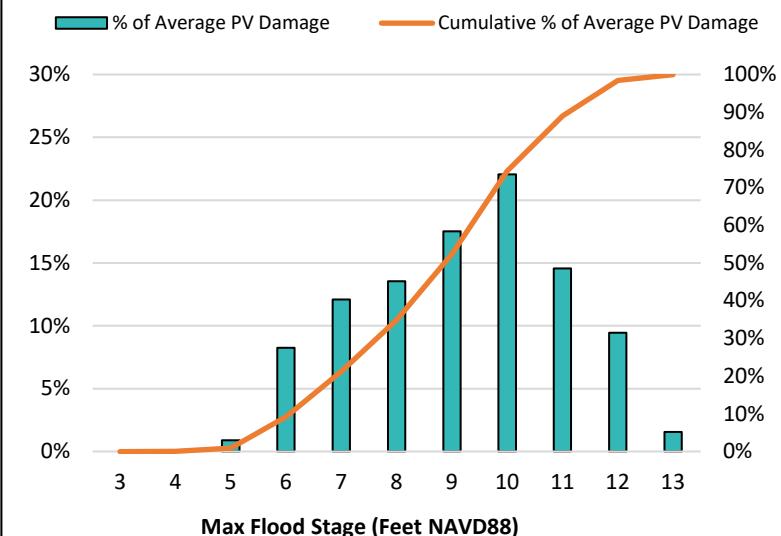
< \$ 800 Million

Note: Values in above table based on 100 iterations simulated in G2CRM.

### AVERAGE PV DAMAGE BY CATEGORY



### Average PV Damage by Flood Stage

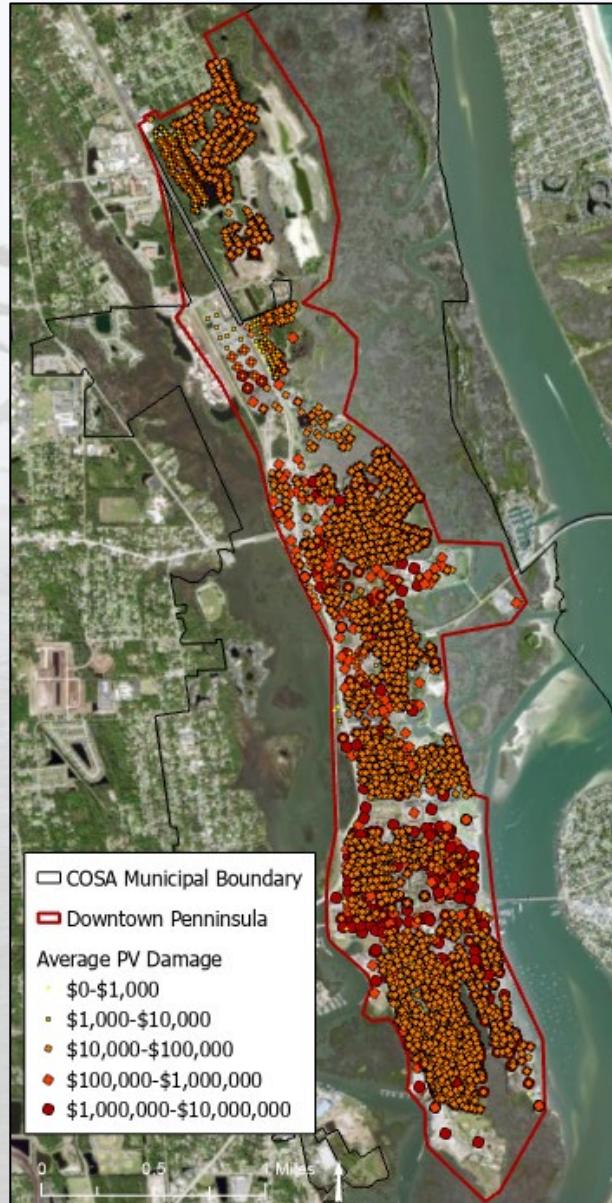


Note: Values in figures based on USACE intermediate SLC scenario and 100 iterations simulated in G2CRM.

# FUTURE WITHOUT PROJECT (FWOP) MODELING



## ECONOMICS – DOWNTOWN PENINSULA FWOP RESULTS



### FWOP NED Damages Through 2084

#### Sea Level Change Scenario

Estimated **Average** Present Value (PV) Damage

#### Low

\$ 2.5 Billion

#### Intermediate

\$ 3.1 Billion

#### High

\$ 6.3 Billion

Estimated Minimum PV Damages

> \$ 470 Million

> \$ 600 Million

> \$ 2 Billion

Estimated Maximum PV Damages

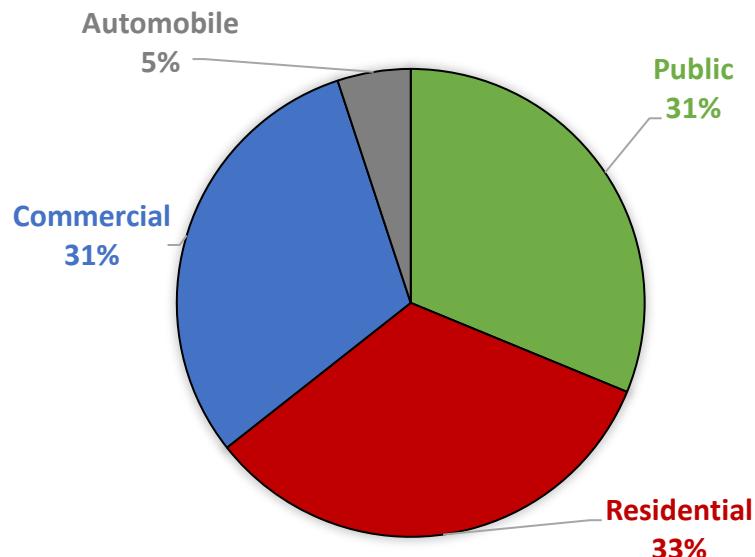
< \$ 6.7 Billion

< \$ 8 Billion

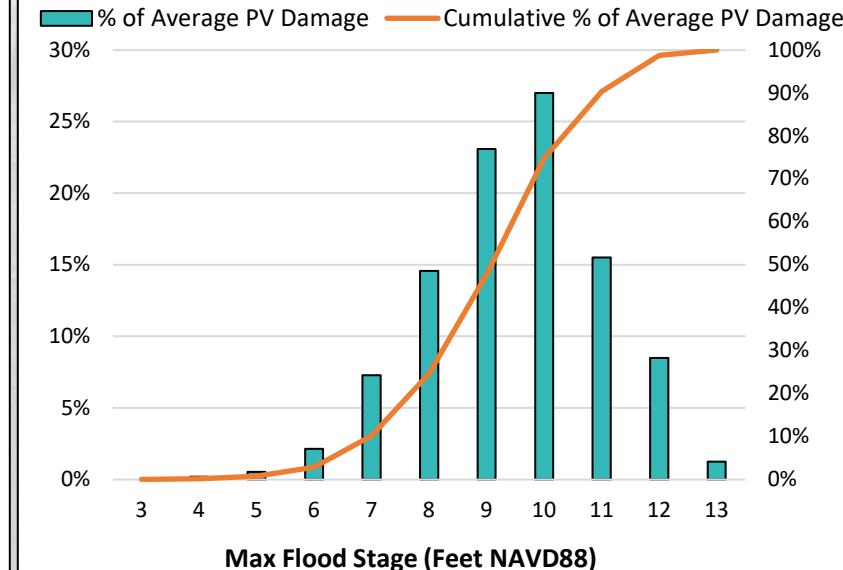
< \$ 12 Billion

*Note: Values based on 100 iterations simulated in G2CRM.*

### AVERAGE PV DAMAGE BY CATEGORY



### Average PV Damage by Flood Stage

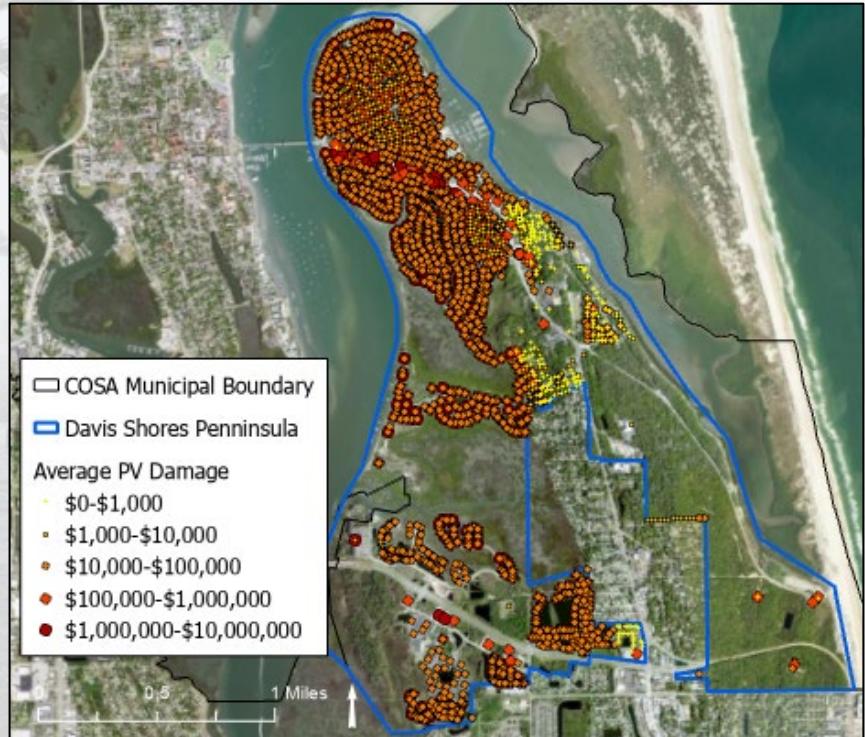


*Note: Values in figures based on USACE intermediate SLC scenario and 100 iterations simulated in G2CRM.*

# FUTURE WITHOUT PROJECT (FWOP) MODELING

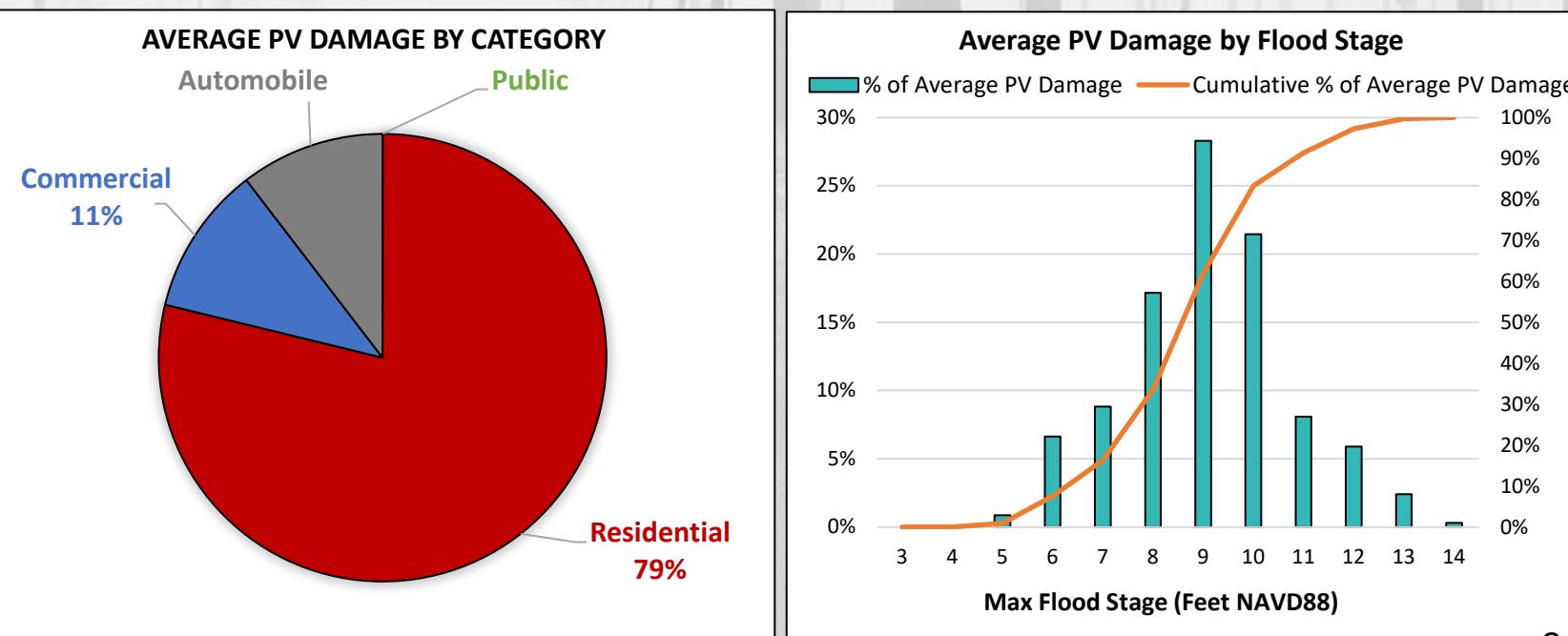


## ECONOMICS – DAVIS SHORES PENINSULA FWOP RESULTS



FWOP NED Damages Through 2084			
Sea Level Change Scenario	<u>Low</u>	Intermediate	<u>High</u>
Estimated Average Present Value (PV) Damage	\$ 656 Million	\$ 811 Million	\$ 1.6 Billion
Estimated Minimum PV Damages	> \$100 Million	> \$160 Million	> \$800 Million
Estimated Maximum PV Damages	< \$1.5 Billion	< \$2 Billion	< \$3 Billion

*Note: Values based on 100 iterations simulated in G2CRM.*



*Note: Values in figures based on USACE intermediate SLC scenario and 100 iterations simulated in G2CRM.*



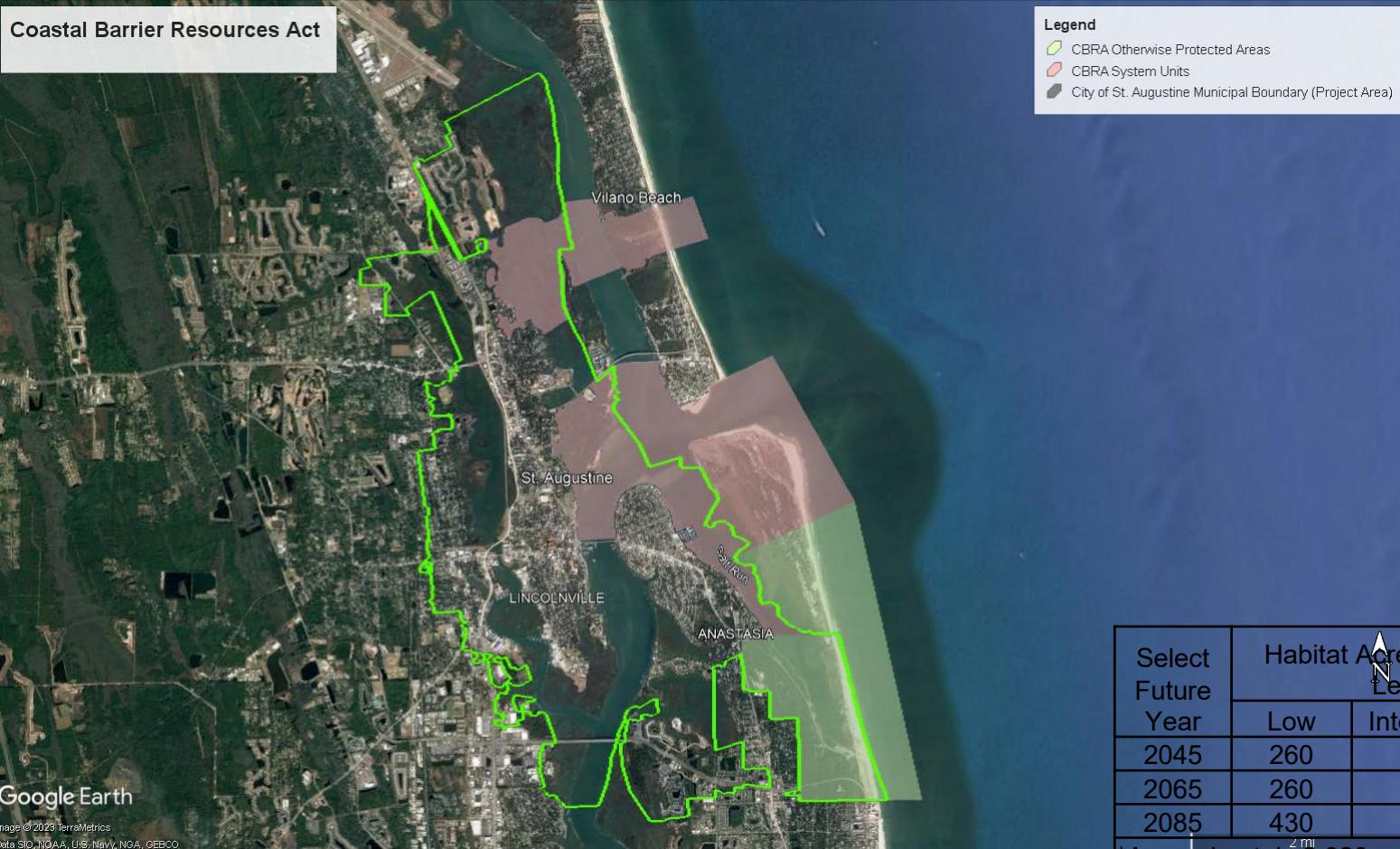
# ENVIRONMENTAL RESOURCES UPDATE



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## Coastal Barrier Resources Act (CBRA) Considerations

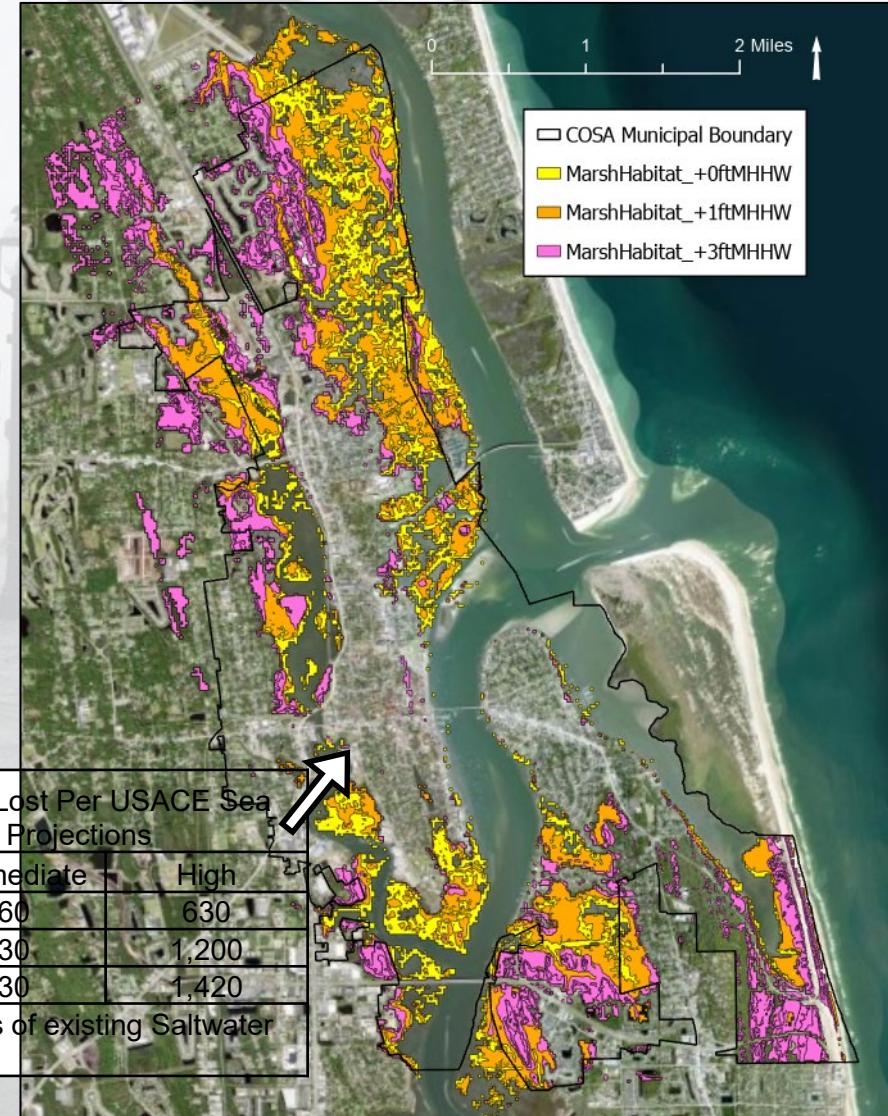
Coastal Barrier Resources Act



Legend

- CBRA Otherwise Protected Areas
- CBRA System Units
- City of St. Augustine Municipal Boundary (Project Area)

## Marsh Migration Analysis



Select Future Year	Habitat Acres Lost Per USACE Sea Level Projections		
	Low	Intermediate	High
2045	260	260	630
2065	260	430	1,200
2085	430	630	1,420

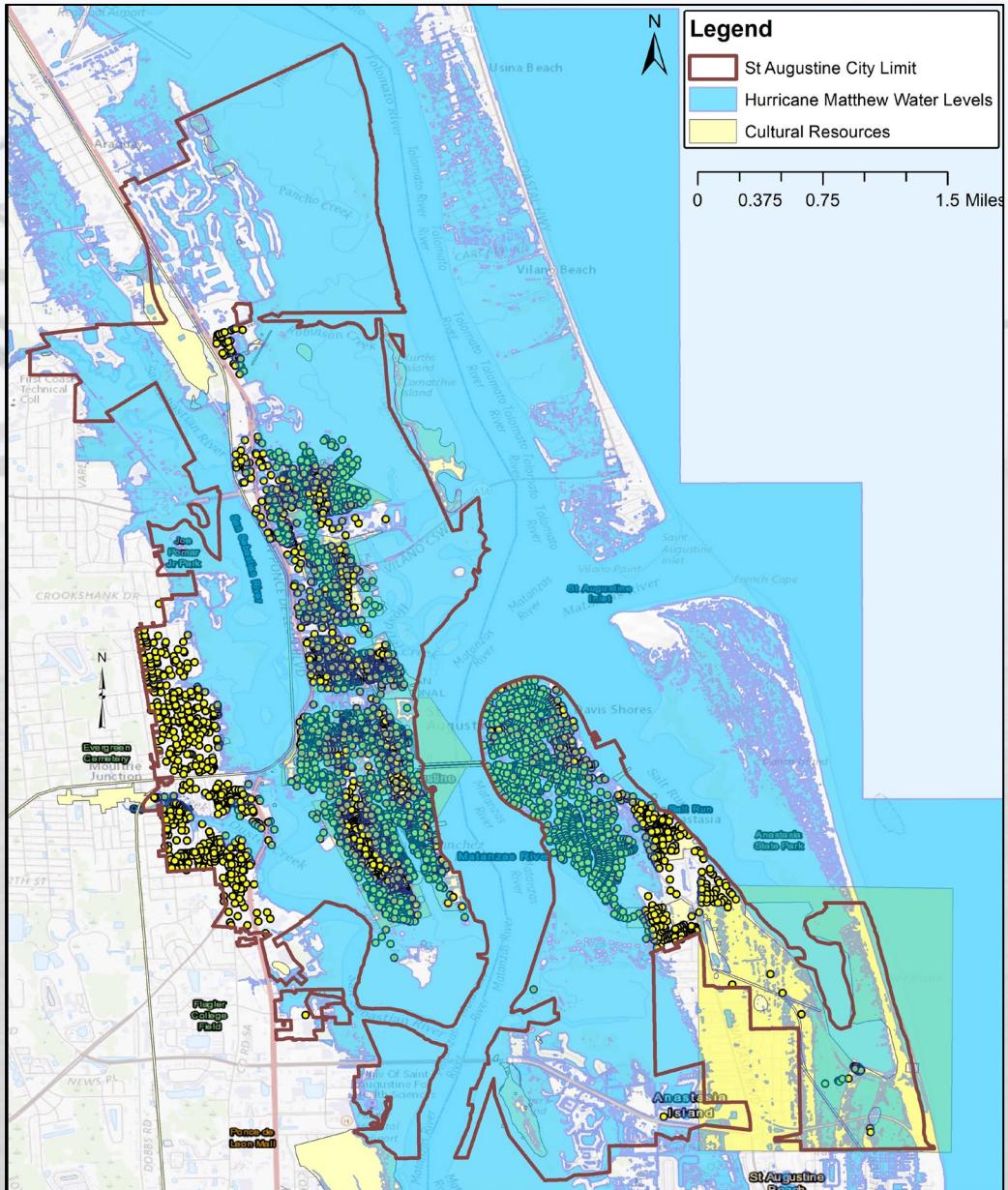
\*Approximately 2,820 acres of existing Saltwater Marsh in the Study Area.



# CULTURAL RESOURCES UPDATE



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- Utilized Florida Master Site File (FMSF) to review various types of cultural resources to create an inventory of existing resources within study area
  - ▶ Including archaeological sites, cemeteries, structures, bridges and National Historic Landmarks and Districts
- Utilized St. Johns County Tax Appraisal date to review additional structures built prior to 1982 (50 years + estimated construction) that may be eligible for listing in the National Register of Historic Places (NRHP) and not listed in the FMSF
- Results allow us to:
  - ▶ Illustrate existing condition of resources that will be impacted in the future without project (FWOP)
  - ▶ Evaluate damages to historic properties



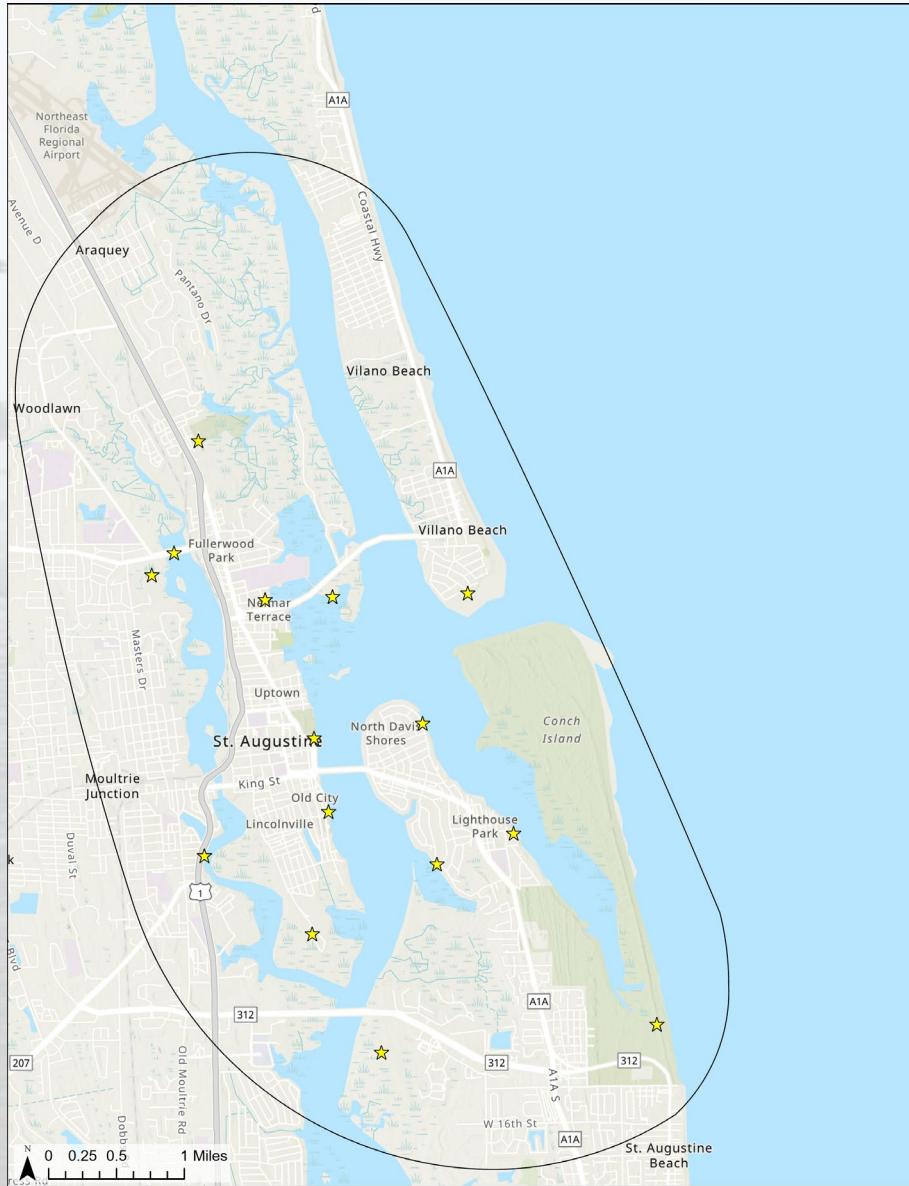
## A TWO-PART PROCEDURE

- Management Classification System (MCS)
  - ▶ Identify the regional landscape and similarity zones.
  - ▶ Select assessment points for the MCS.
  - ▶ Inventory/assess existing visual resource conditions.
  - ▶ Determine the MCS class.
- Visual Impact Assessment (VIA)
  - ▶ Select viewpoints for the VIA procedure.
  - ▶ Forecast without project conditions to assess any changes from existing visual resource conditions.
  - ▶ Forecast with project conditions.
  - ▶ Use simulations to show designs of alternatives.
  - ▶ Assess visual impacts to obtain a single VIA Value for the landscape components and the landscape modifiers.



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# REPRESENTATIVE ASSESSMENT POINTS



- Team
  - 2 City Representatives
  - 3 US Army Corps of Engineers
- Team Identified Zones
- Identified Representative Assessment Points
- On Site Views of Baseline Conditions





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# VISUAL OF ASSESSMENT POINTS



**Fort Mose**



**Nelmar Terrace Park**



**Castillo de San Marcos  
National Monument**



**Avenida Menendez**



**Avenida Menendez**



**Dr. Robert B. Hayling Freedom  
Park**



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# VISUAL OF ASSESSMENT POINTS



**Charles Usinas Memorial Hwy Bridge**



**Joe Pomar, Jr. Park**



**River Road Dining Area**



**Inlet Drive**



**Coquina Park**



**Lighthouse Park Boat Ramp**



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# VISUAL OF ASSESSMENT POINTS



**Fish Island Preserve**



**Anastasia State Park**

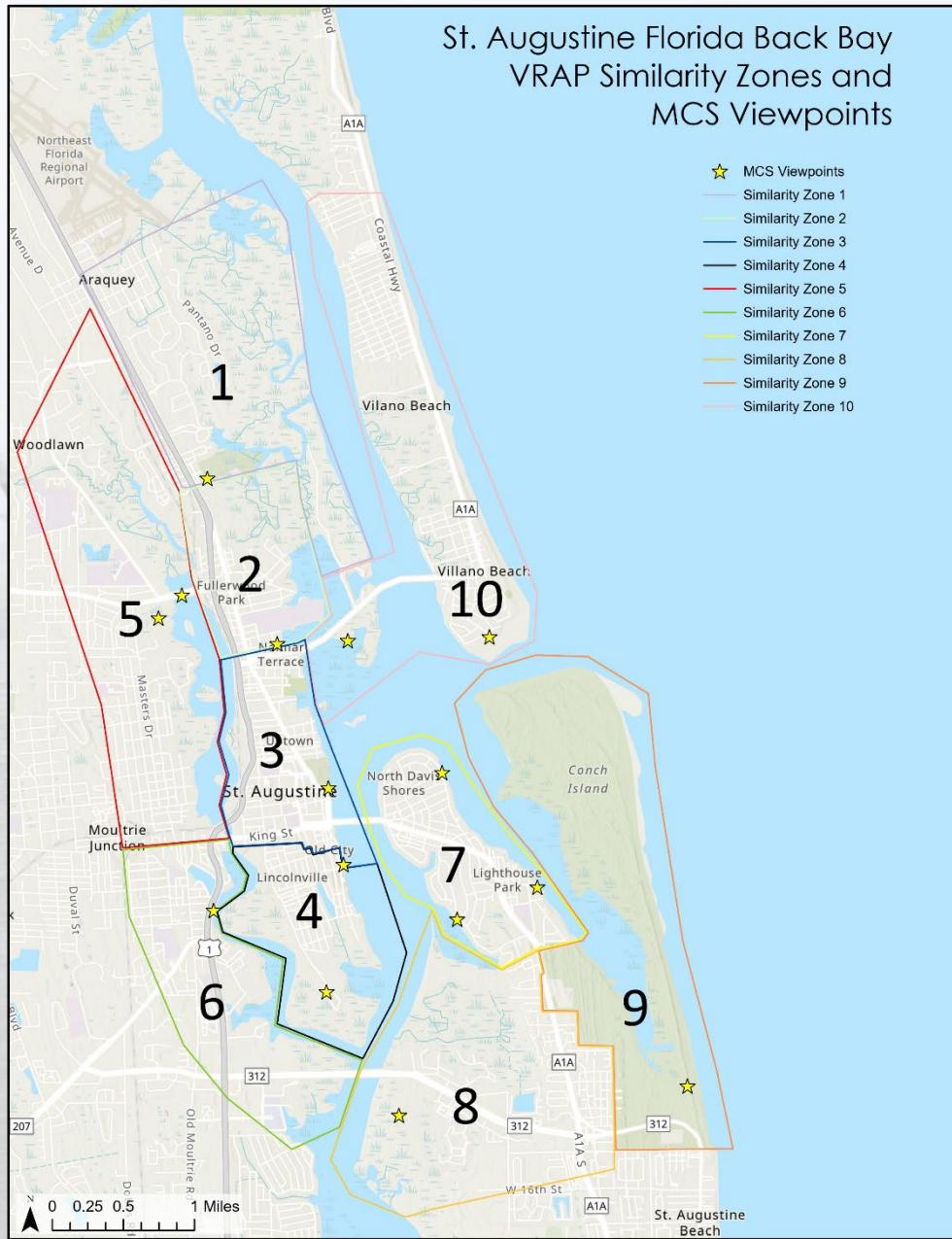


**Vilano Beach**



**Vilano Boat Ramp**

# SIMILARITY ZONES AND ASSESSMENT POINTS



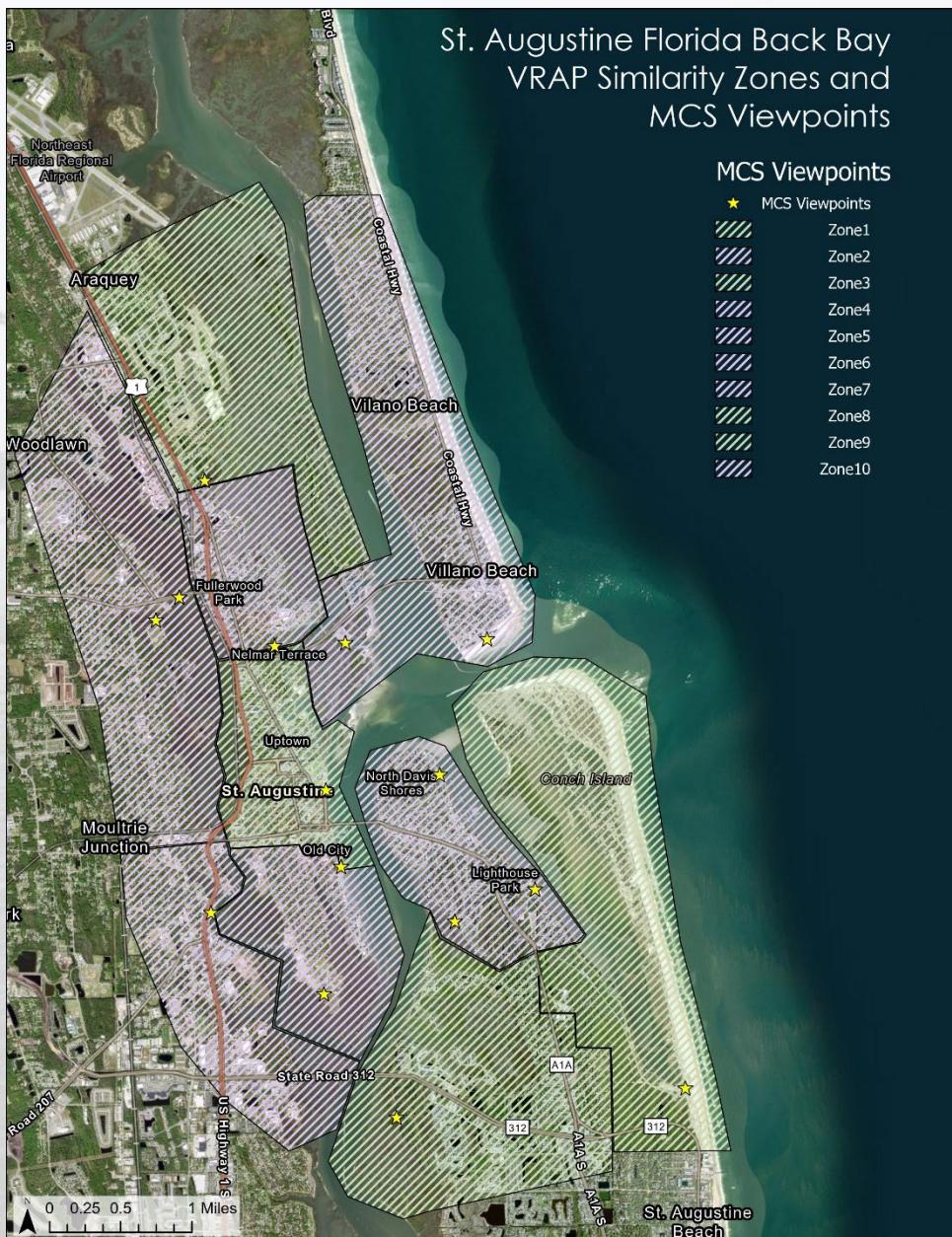
- Water Resources
- Landform
- Vegetation
- Land Use
- User Activity
- Special Considerations
  - Cultural or Historic Landmarks
  - Distinct Visual Quality or Wildlife Observation
  - Pollution Free



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# RESULTS



Representative Assessment Points	Similarity Zones	Final Scores	MCS Classifications
Fort Mose	Zone 1	17	Preservation
Nelmar Park	Zone 2	15	Retention
The Fort Avendia Menendez	Zone 3	17	Preservation
RB Hayling	Zone 4	15	Retention
16A Polmar	Zone 5	14	Retention
River Road	Zone 6	14	Retention
Coquina Lighthouse Inlet Drive	Zone 7	16	Retention
Fish Island	Zone 8	17	Preservation
Anastasia Park	Zone 9	18	Preservation
Vilano Beach	Zone 10	16	Retention
Vilano Boat Ramp			

## Preservation:

- Highly valued and are often protected by Federal and State policies and laws.
- Project activity should not be readily evident**

## Retention:

- Regionally recognized as having distinct visual quality but may not be institutionally protected
- Project activity may be evident but should not attract attention**

## ■ **Your considerations?**

- ▶ Where do you go in St. Augustine on a day-to-day basis that is near the water, and is that different from special occasions?
- ▶ What areas of the city you spend time in to recreate?
- ▶ What else would you like us to know concerning the visual and aesthetic?

## ■ **How will we be collecting your input?**

- ▶ At our booth
  - Comment cards
  - Interactive Map



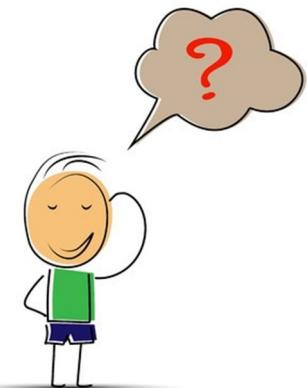
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# ALTERNATIVE DEVELOPMENT



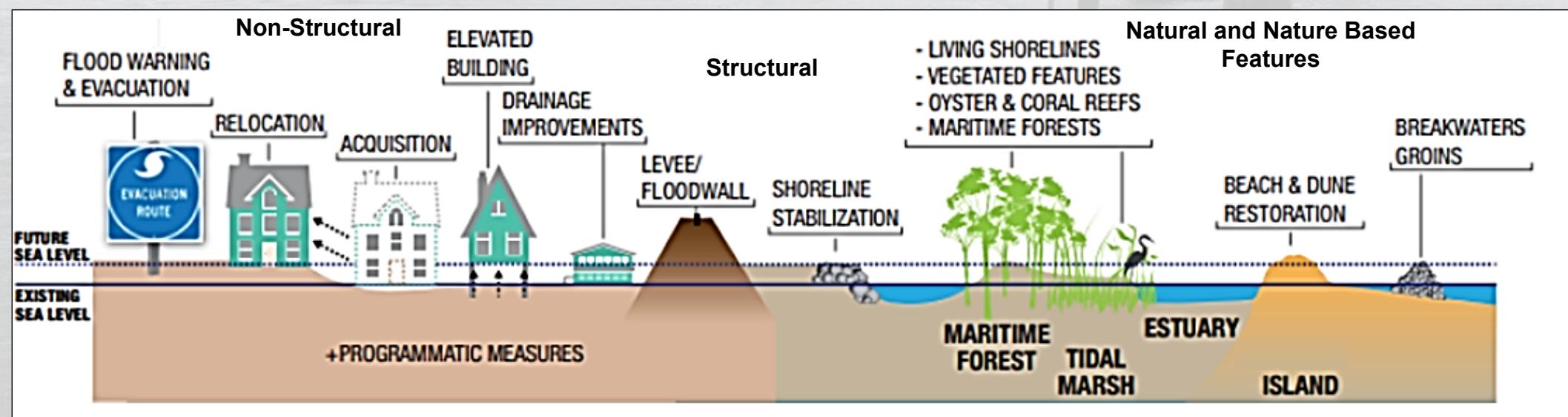
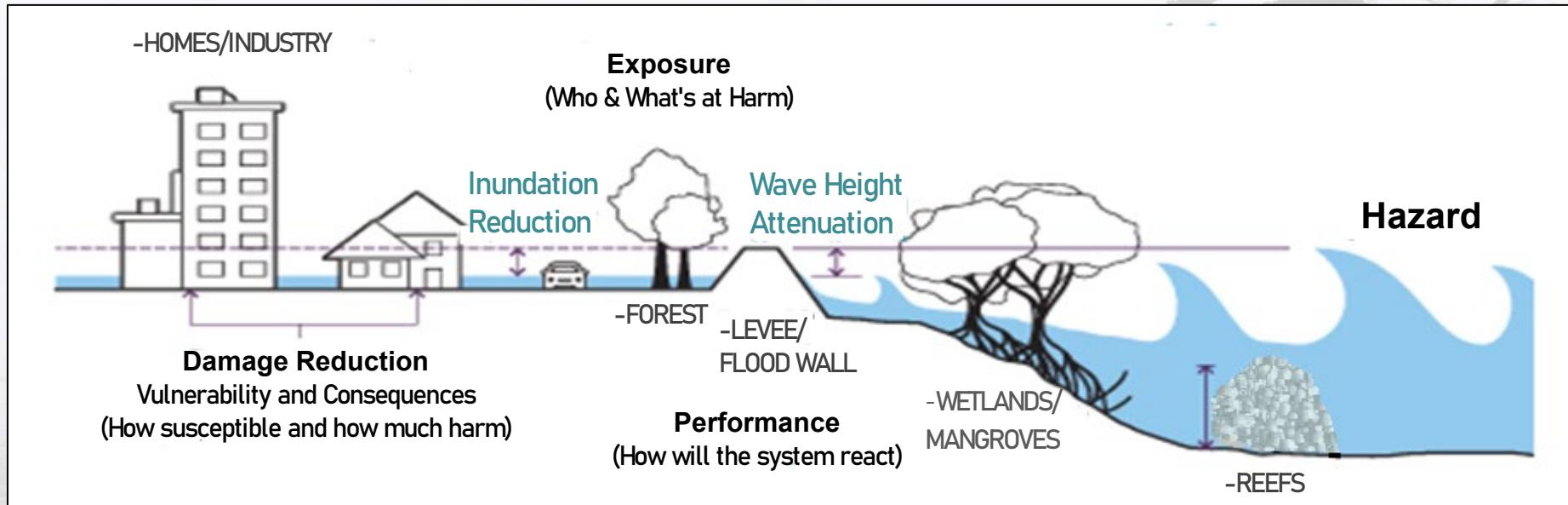
## NOW WE WANT TO HEAR DIRECTLY FROM YOU!

- ▶ Think about each alternative to follow
- ▶ Which alternatives could work in my area and address my flooding situation?
- ▶ What other alternatives should the team consider?
- ▶ What are the pros and cons for each alternative?
- ▶ What type of flooding are you most concerned with?
- ▶ What's your concerns with gray vs. green alternatives?



# ALTERNATIVE CONSIDERATIONS

## Hazard Pathway





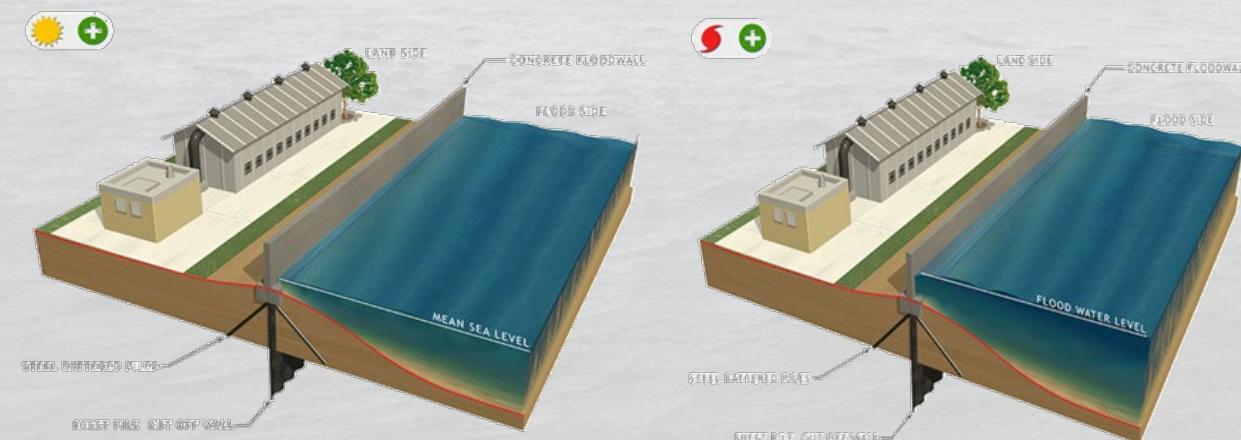
# ALTERNATIVE CONSIDERATIONS



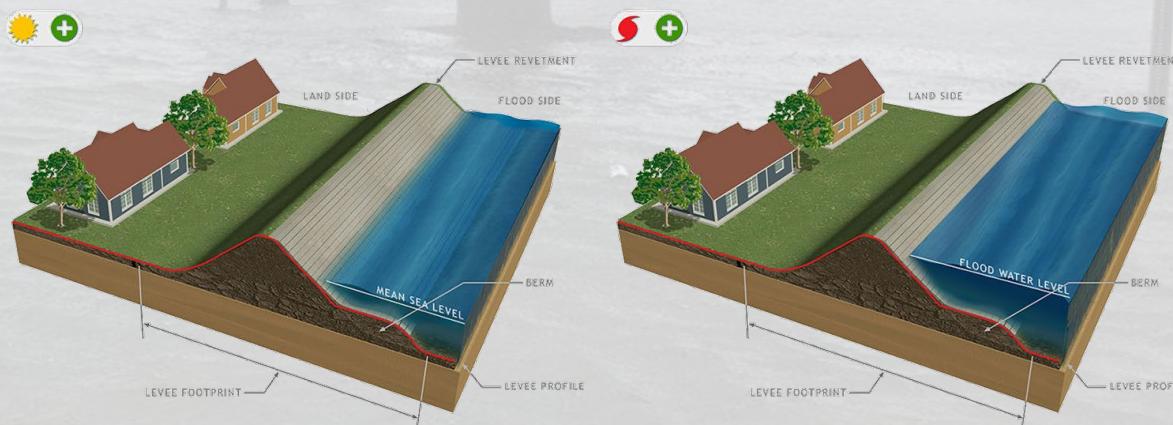
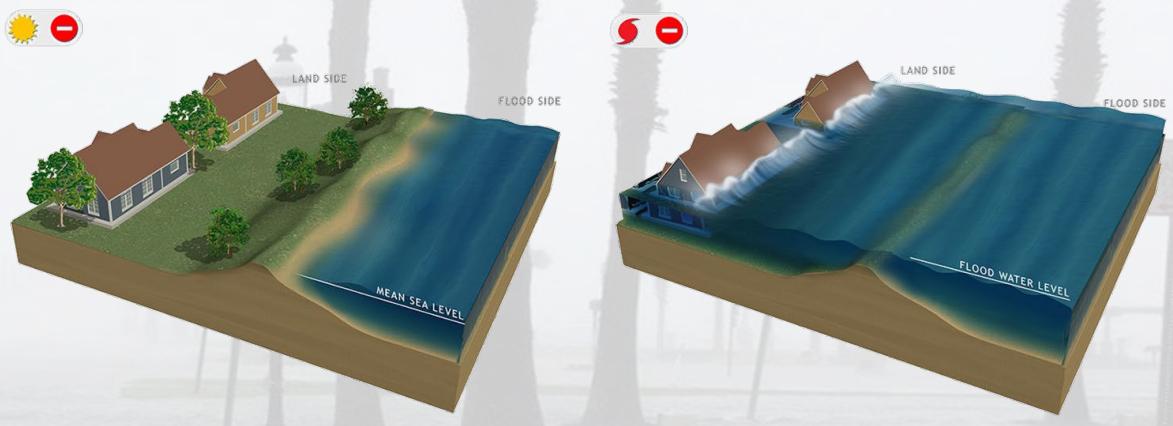
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## Structural Examples: Flood Walls and Levees

### Flood Walls



### Levees

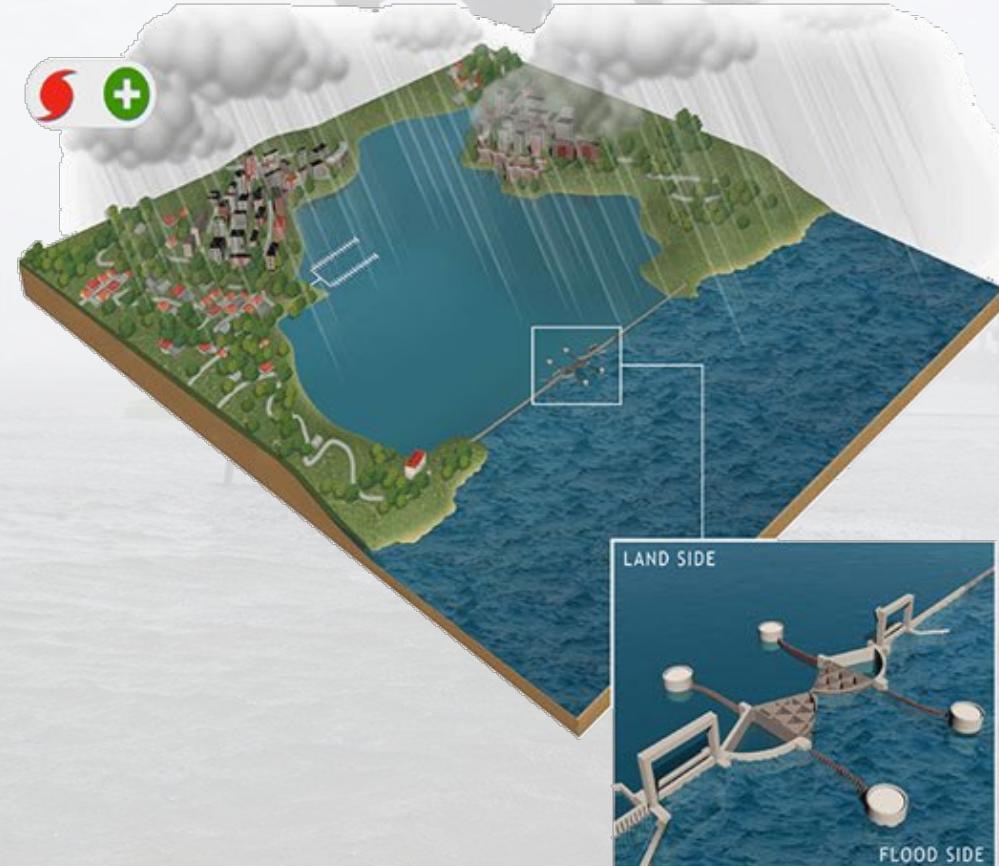
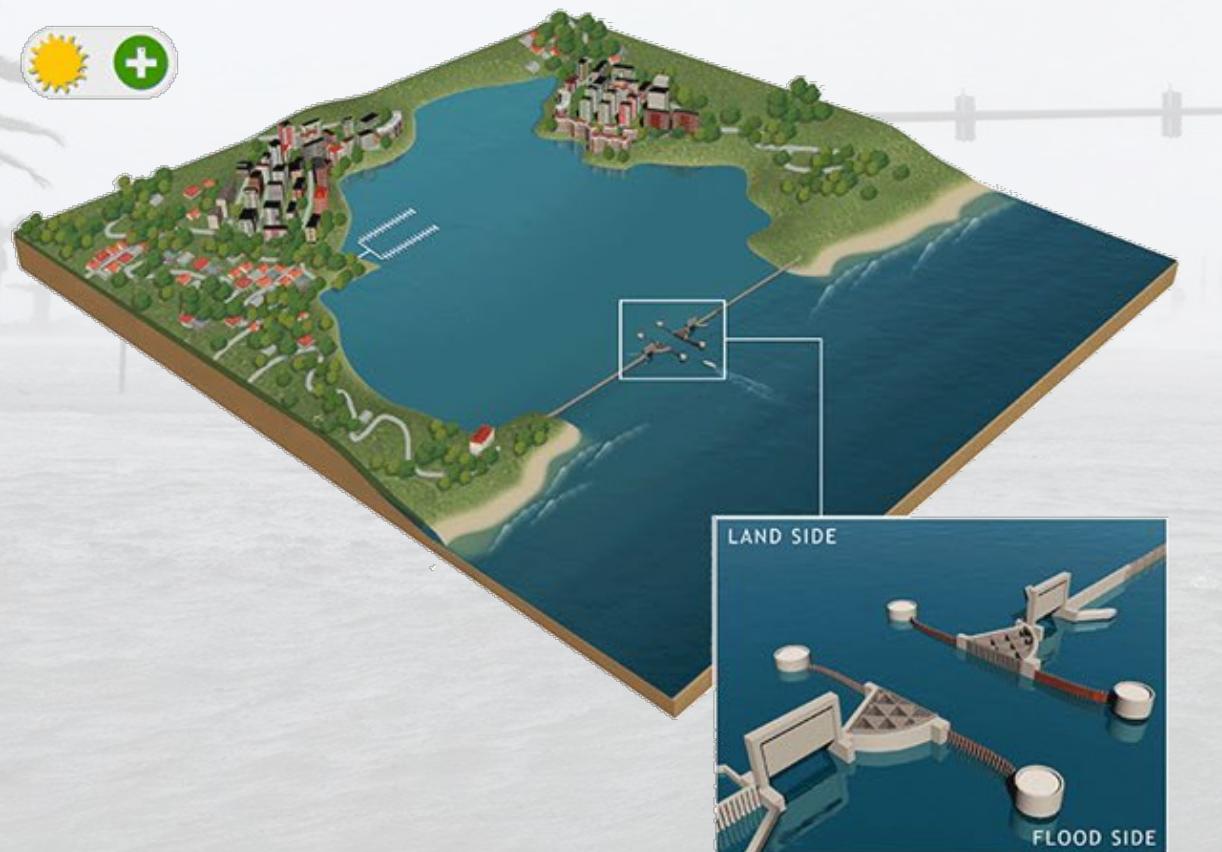




# ALTERNATIVE CONSIDERATIONS



## Structural Examples: Storm Surge Barriers and Flood Gates



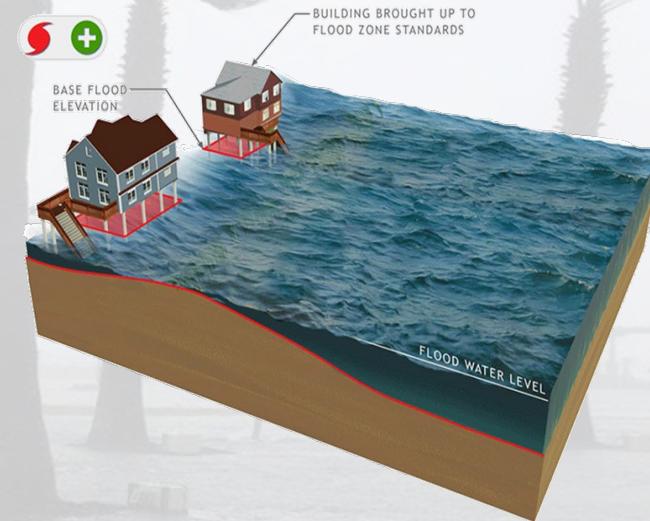
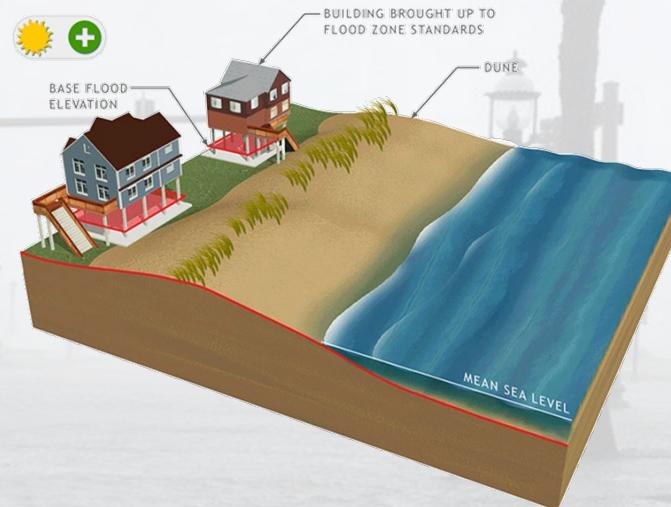
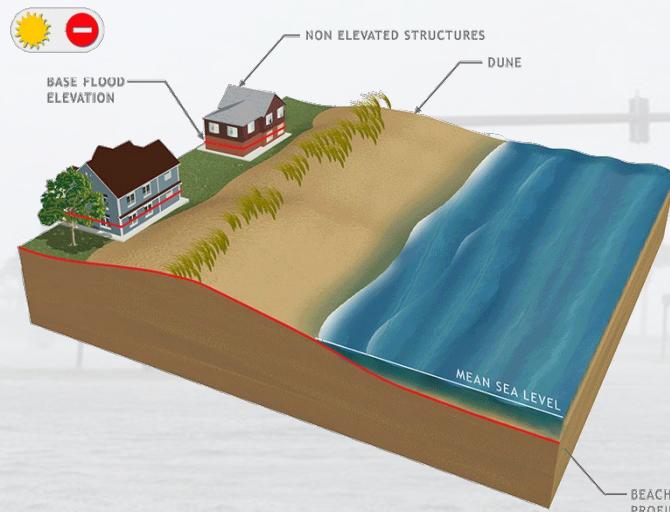


# ALTERNATIVE CONSIDERATIONS

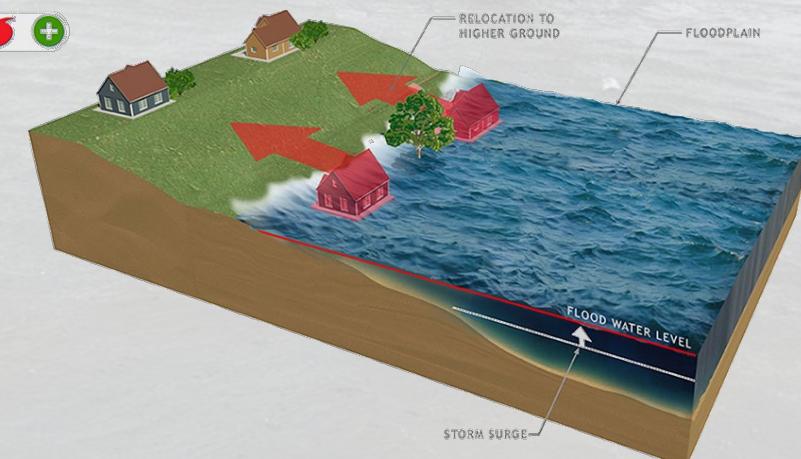
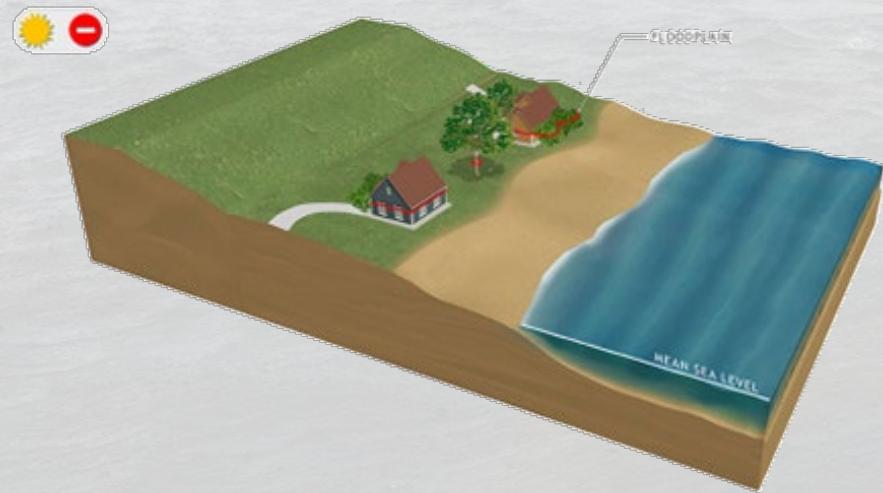


**Non-Structural Examples:** Elevating Structures, Floodproofing, Ring Walls, Acquisition/Relocation

**Elevating and Floodproofing Structures**



**Acquisition/Relocation**





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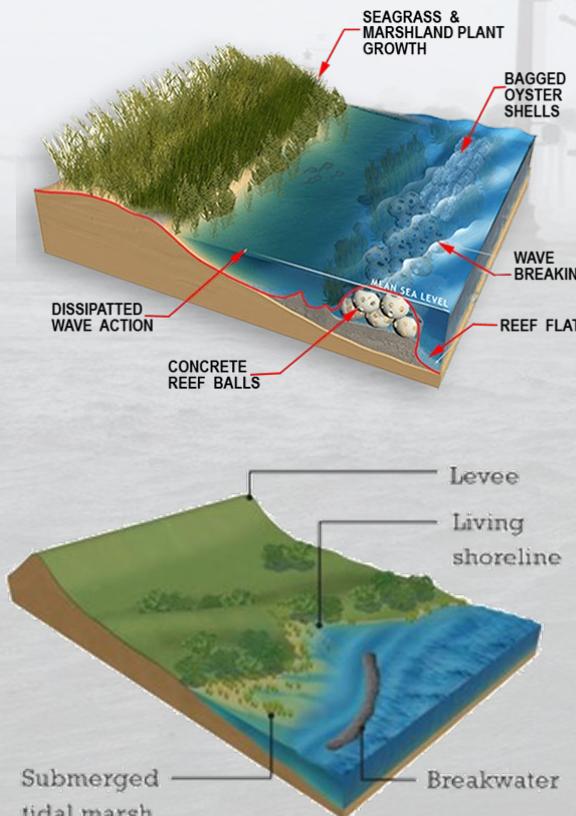
# ALTERNATIVES EVALUATION



## Natural and Nature Based:



*...are landscape features that are used to provide engineering functions relevant to flood risk management, while producing additional economic, environmental, and/or social benefits.*



### **CALM BEFORE THE STORM**

PREPARE • RESIST

Combine nonstructural and structural measures to deliver a full array of ecosystem goods and services.

### **THE STORM**

RECOVER • ADAPT

NNBF features can help attenuate waves offering improved flood protection during storms

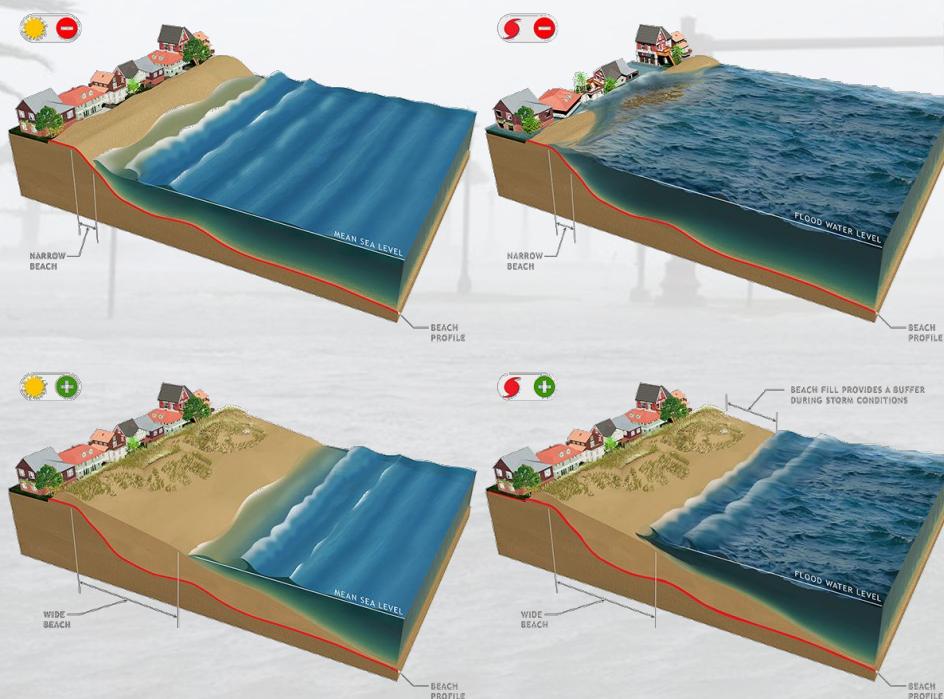


# ALTERNATIVE CONSIDERATIONS

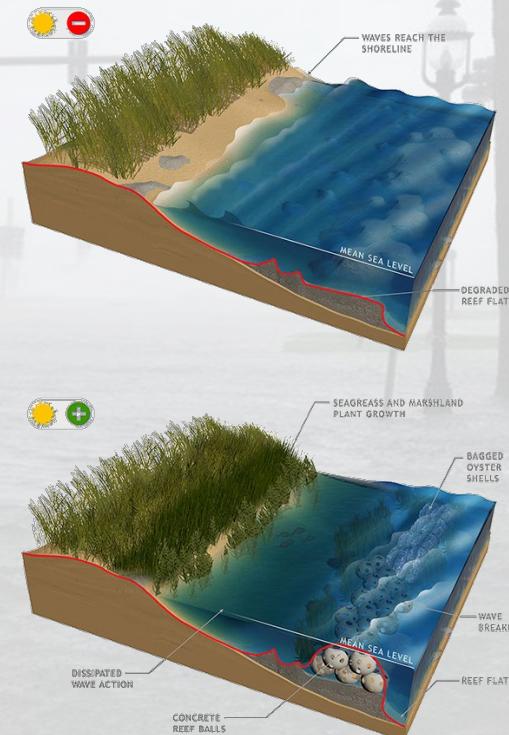


**Natural and Nature Based Examples:** Beaches and Dunes, Reefs, Tidal Flats, Wetlands/Mangroves, Coastal Forest

## Beaches and Dunes



## Tidal Flats and Reefs



## Wetlands/Mangroves





# BREAKOUT SESSION



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Stickers will be used to provide input on desired **solutions**:

● **Yellow** = **Wall/Levee** that stops flooding at the back bay shoreline.

W = Wall    L = Levee

● **Red** = **Surge Barrier/Flood Gate** that stops flooding before it gets into the back bay waters.

S = Surge Barrier    F = Flood Gate

● **Blue** = **Nonstructural** measures that reduce flood risk without directly effecting flooding processes.

E = Elevate    R = Relocate    F = Flood Proof

● **Green** = **Natural & Nature Based Features (NNBF)** that can reduce wave energy flooding before it gets to the back bay shoreline.

S = Salt Marsh    M = Mangrove    R = Reef    D = Dune

**Please note and discuss any other solutions as needed with a USACE team member.**

## Model Areas

- **Western San Sebastian**
- **Downtown Peninsula**
- **Davis Shores Peninsula**

