COASTAL TX PROTECTION AND RESTORATION FEASIBILITY STUDY

2019 Fall Stakeholder Partnering Forum

Study Update

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"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."

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Coastal Texas Protection and Restoration Feasibility Study

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Project Summary

THE CHALLENGE is to develop a comprehensive plan that provides multiple lines of defense against hurricanes while restoring fish and wildlife habitat system-wide to enhance overall coastal resilience.

Scope:

Coastal Storm Risk Management (CSRM) & Ecosystem Restoration (ER)

Budget:

- 50:50 Cost Share with TX GLO
- $19.8M (65% Executed)

Schedule:

- 5.5 year study
- <2 yrs remaining

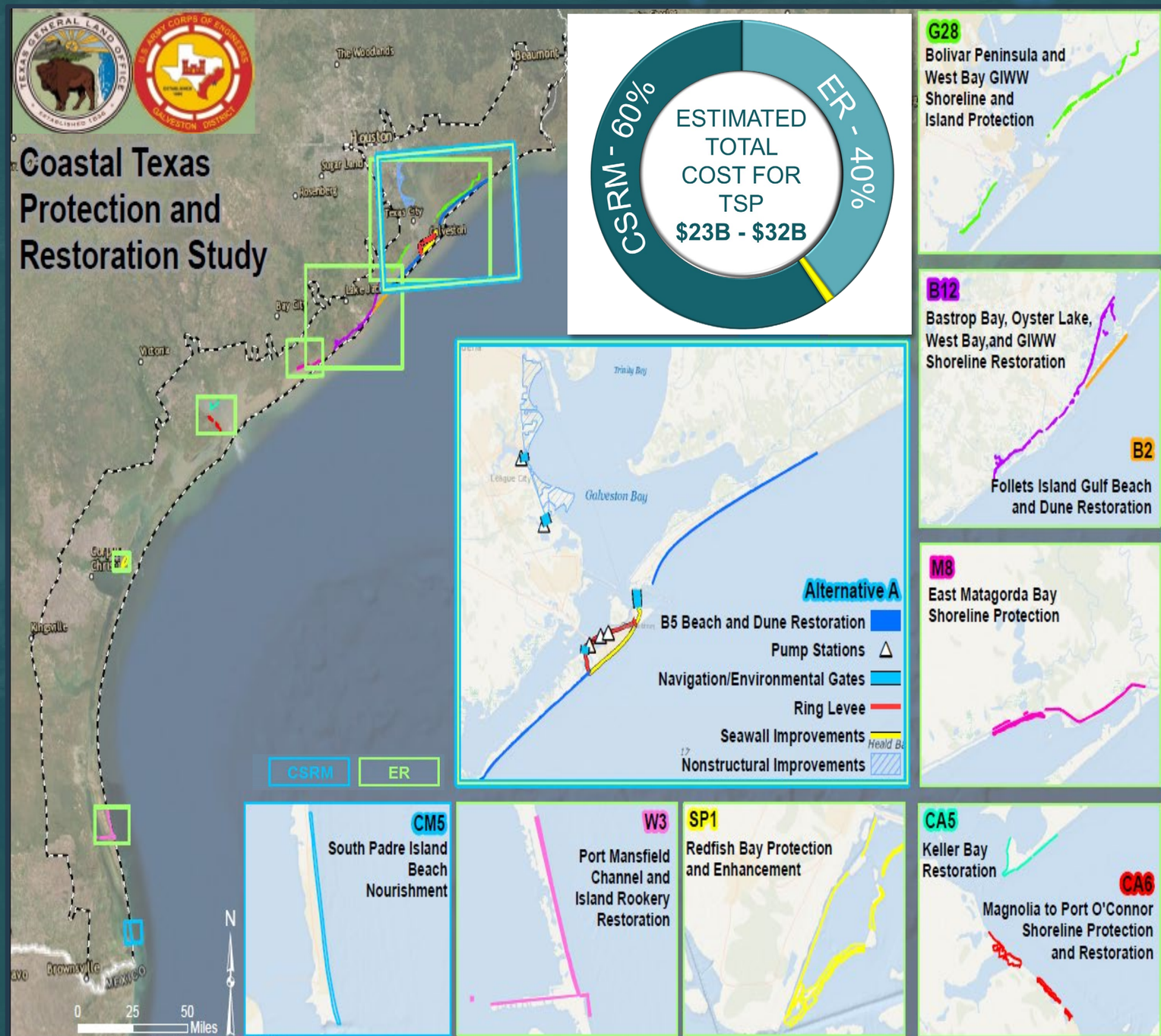
Remaining Milestones:

	ACTIVITY	DATE
Feasibility Level Analysis	2nd DIFR-EIS	25 Sep 20
	FIFR-EIS	16 Jan 21
	SLP	22 Jan 21
	S&A Review	2 Apr 21
	Chief's Report	14 May 21

Path Forward:

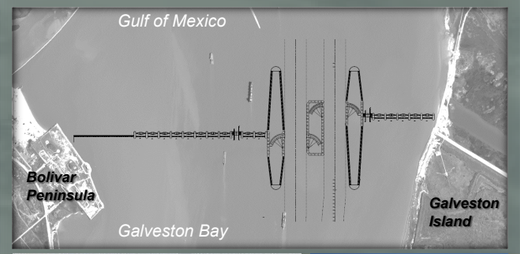
- **Quantify regional economic benefits**
- **Tiered NEPA**
- **Cost certification for LOD**
- **Simplified** report writing
- **2nd release** of revised draft report
- **Increase public** outreach

Revised Coastal Resilience Comprehensive Strategy



Coastal Storm Risk Management

- 2 large & 2 small sector gates
- 15 vertical lift gates & 16 monoliths
- 42 mi of Gulf-side dune/beach barrier
- 18 mi of ring barrier
- 4-ft high extension of the seawall
- Gated closures at four locations
- Non-structural measures on the mainland
- 2 mi beach/dunes on South Padre



Ecosystem Restoration (6,000+ ac)

- 737 ac of breakwaters
- 838 ac of bird islands
- 1,985 ac of marshes
- 44 ac of oyster reefs
- 2,519 ac of dunes/beaches

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Storm Surge Gates
(Design in Progress)

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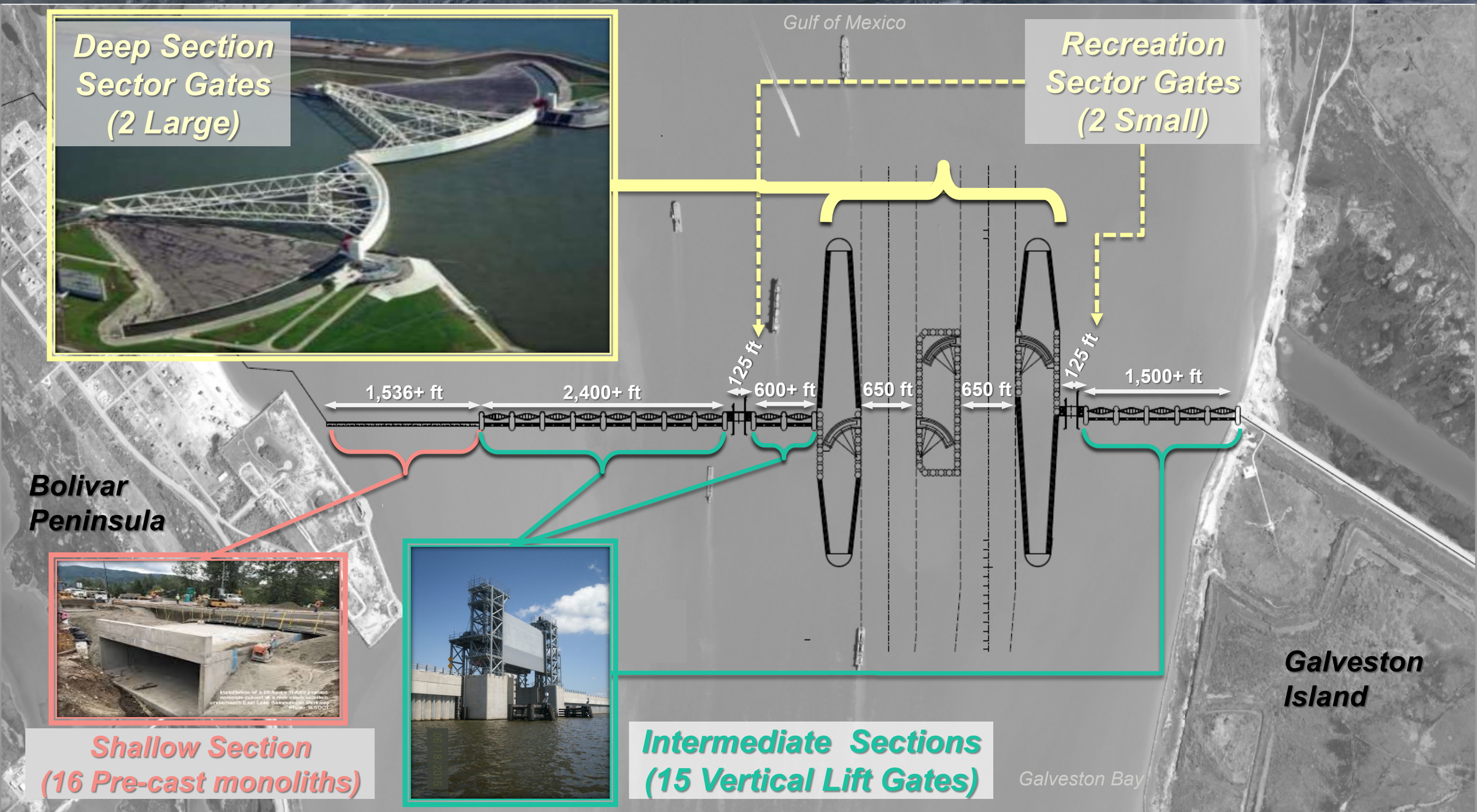
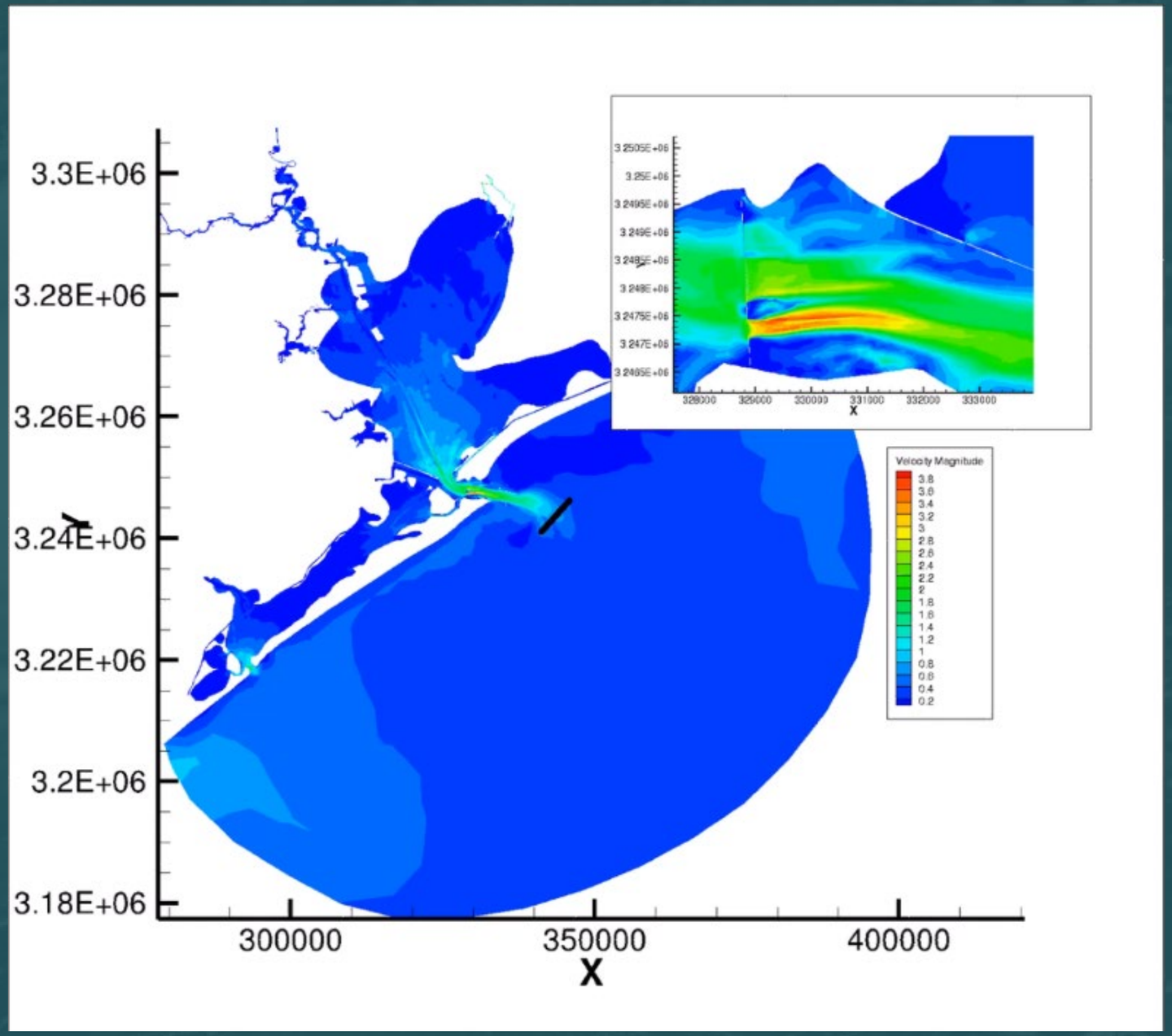


Species Response Modeling
(Analysis Underway)

- ADaptive Hydraulics Modeling (ADH)
  - Salinity
  - Velocity
  - Sediment
- Particle Track Modeling
  - Larval movement through the barrier
- Results coming in Fall 2019



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Dune & Beaches
(Design in Progress)

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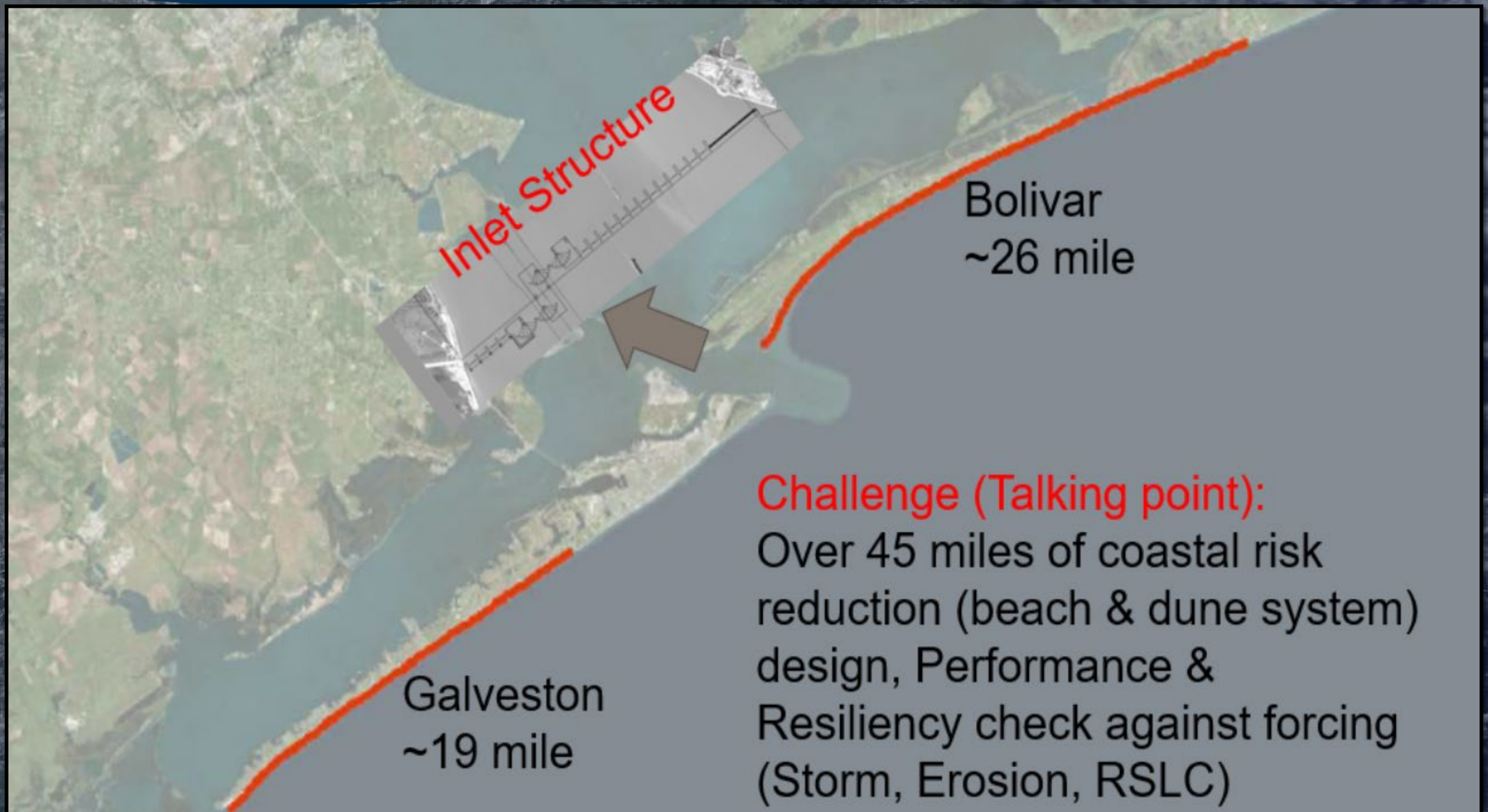

Challenge (Talking point):
Over 45 miles of coastal risk reduction (beach & dune system) design, Performance & Resiliency check against forcing (Storm, Erosion, RSLC)

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Dune & Beaches
(Design in Progress)

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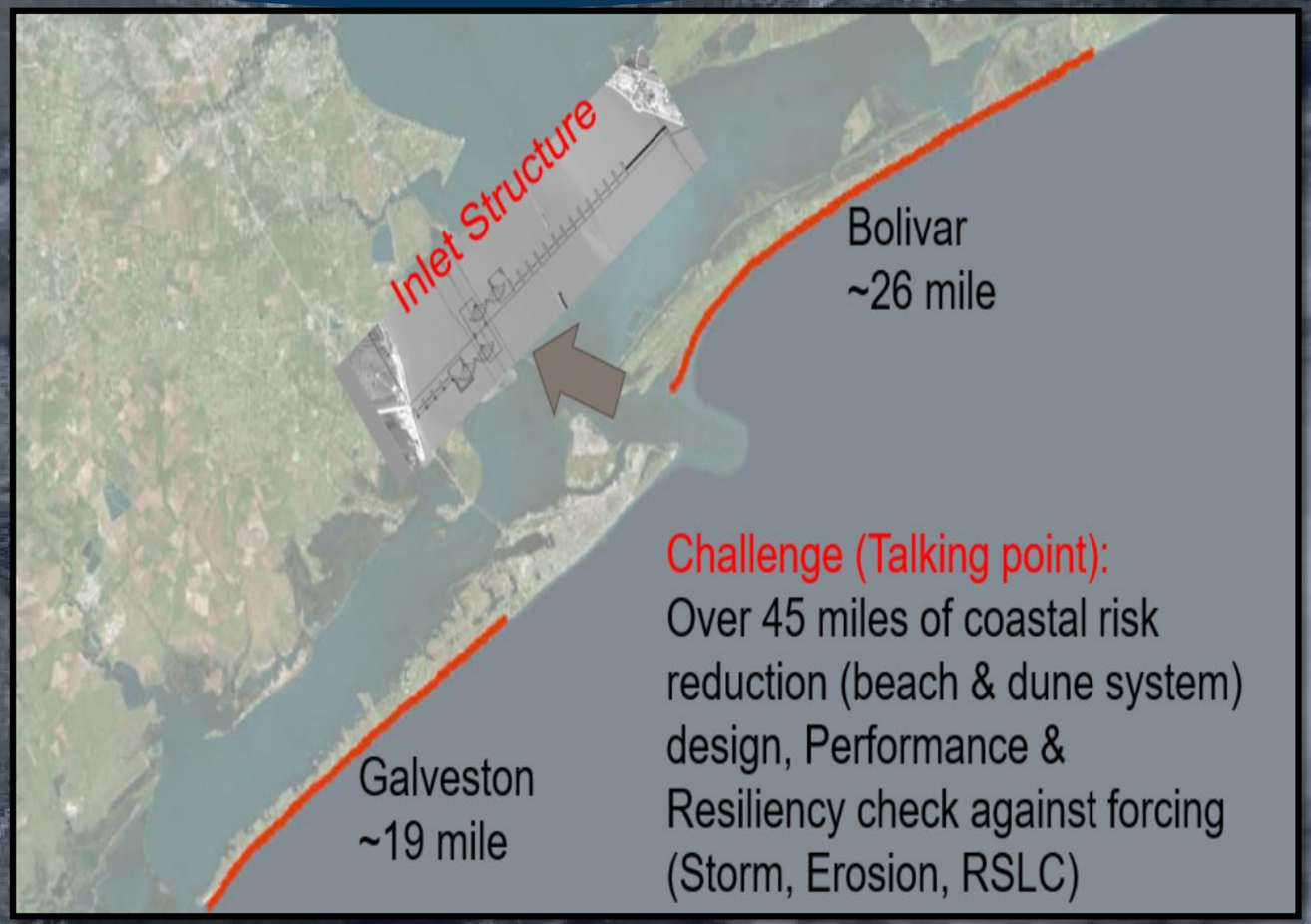

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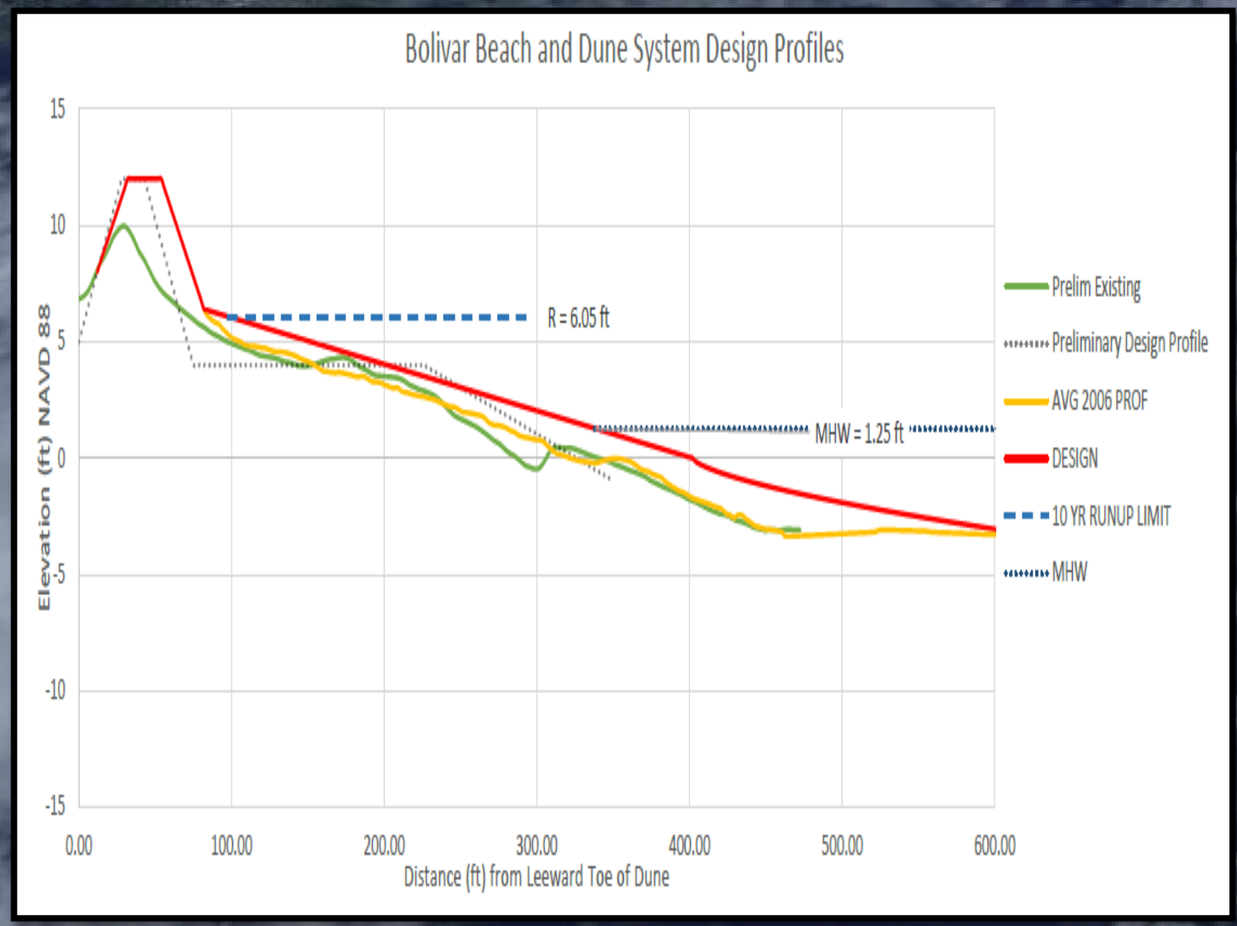

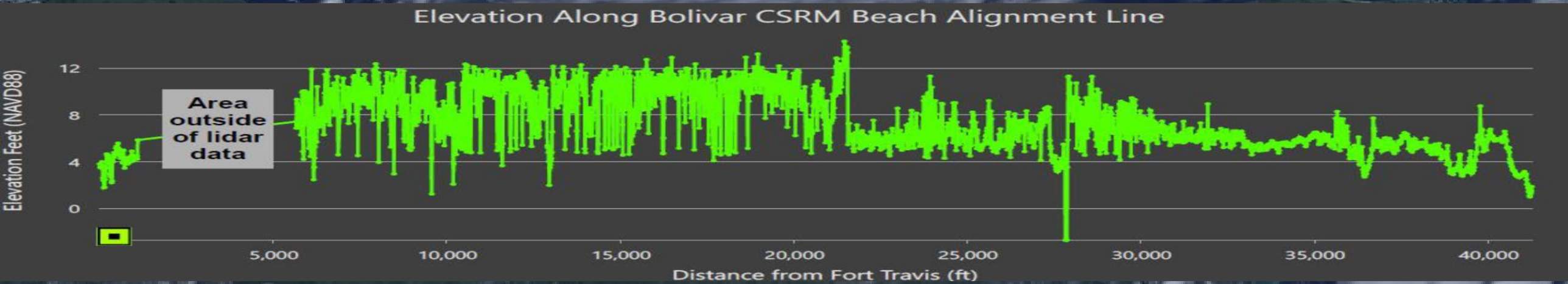

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Galveston Ring Barrier
(Design in Progress)

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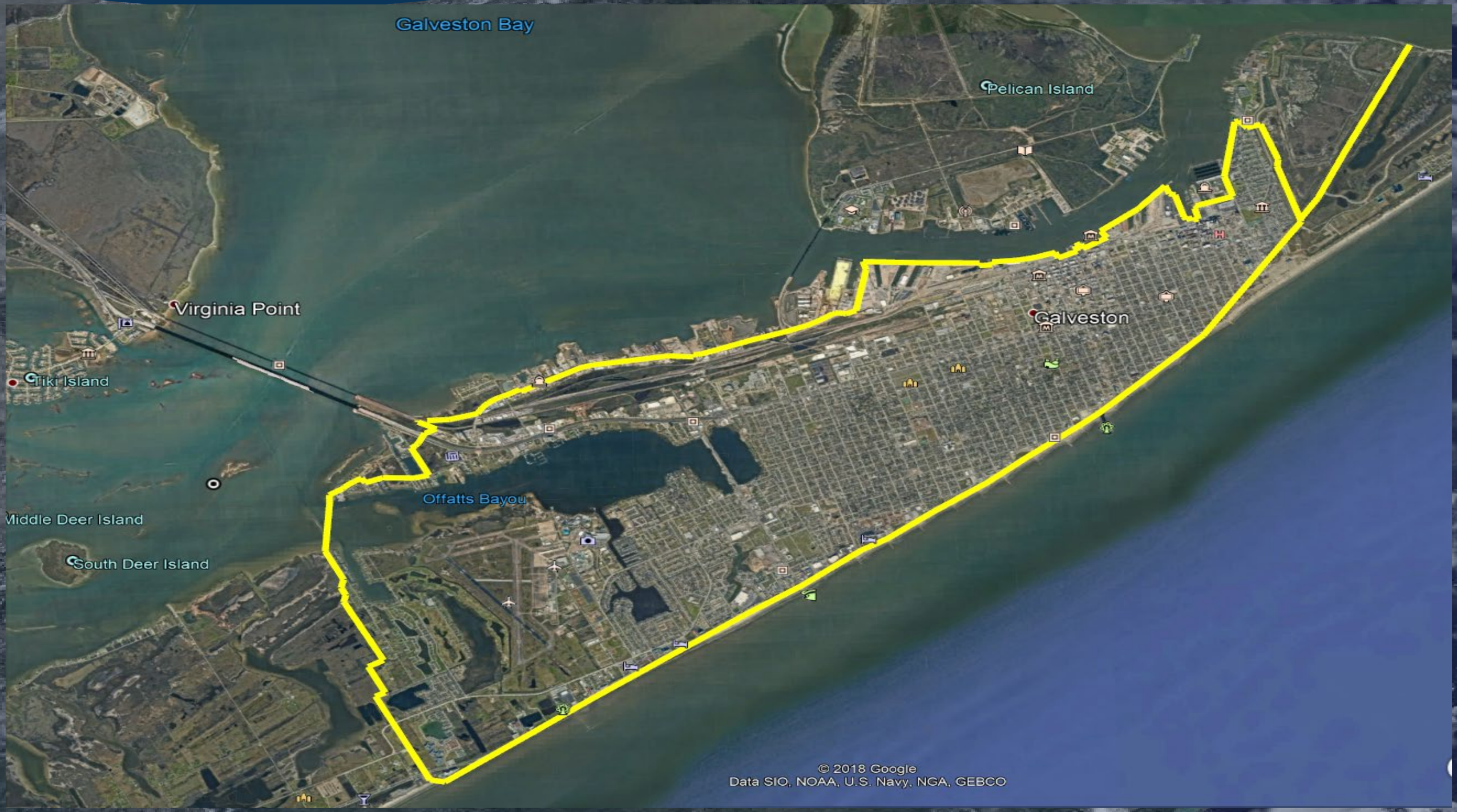

Community Work Groups

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- 4 Groups
  - Mainland
  - Galveston
  - Bolivar
  - South Padre
- Primary Goals =>
  - Two-way Communication
  - Transparency
  - Fact-based Information
  - Quicker Dissemination of New Plan Details

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SCHEDULE

SCOPING

- Identify Problems & Opportunities
- Get Public Input
- Alternative Measures Milestone (AMM) Jun 2016

ALTERNATIVES FORMULATION

- Identify Tentatively Selected Plan
- Conduct Analysis
- Tentatively Selected Plan (TSP) May 2018

DRAFT REPORT

- Public Review & Comment

RECOMMEND PLAN

- Complete Final Analysis
- 2nd Release & Public Review
- Agency Decision Milestone (ADM) Apr 2019

FINAL REPORT

- Identify Recommended Plan
- Provide Recommendation to Congress
- Chief's Report May 2021

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ESTIMATED PROJECT SCHEDULE

Study Complete - Request Congressional Authorization for Project(s) 2021

Local Sponsor(s) Maintain Project

STUDY

WE ARE HERE

DESIGN

2-5 Years AFTER Authorization (Estimated)

BUILD

10-15 Years Dependent on Congress (Estimated)

MAINTAIN

50+ Years (Project Life)

Congressional Appropriations for Authorized Projects

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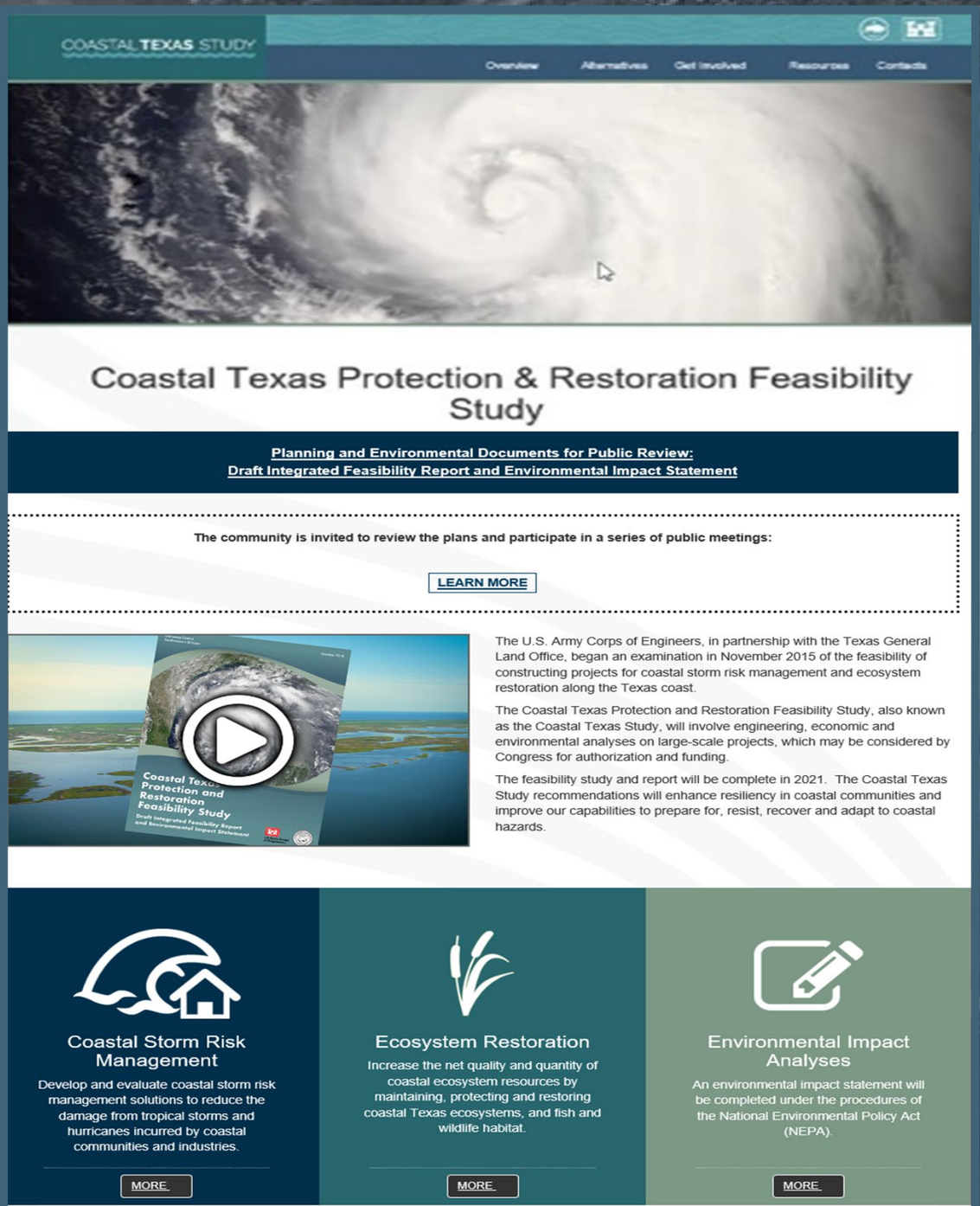
Watch this space!