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."





Coastal Texas Protection and Restoration Feasibility Study

http://CoastalStudy.Texas.gov f CoastalTXStudy



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

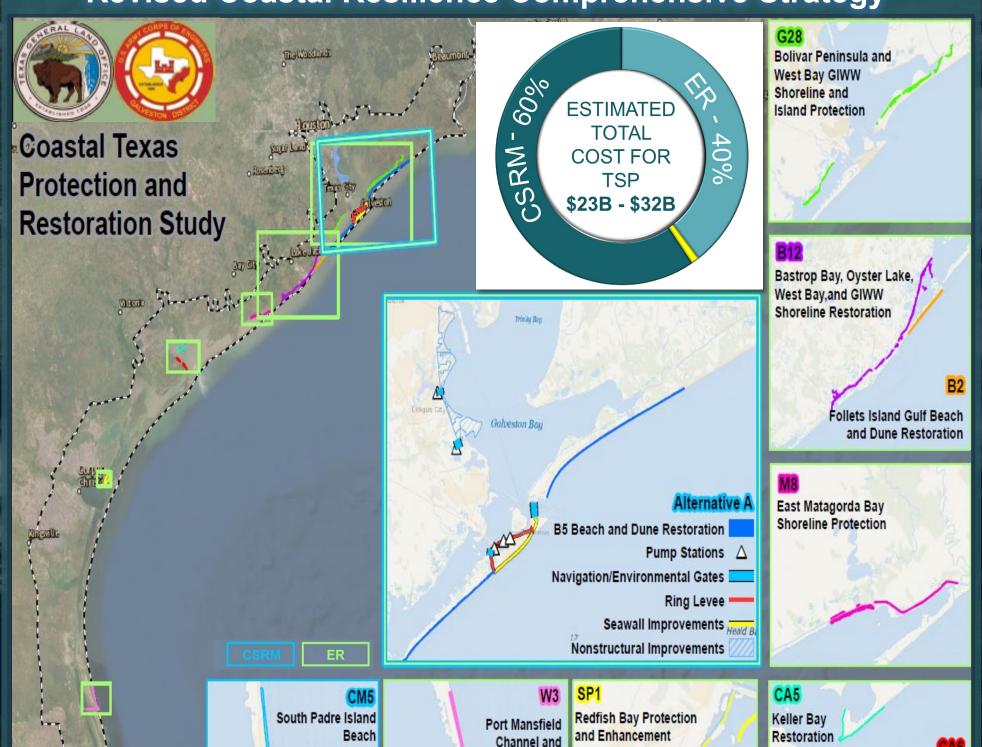
Remaining Milestones:

ACTIVITY		DATE
Feasibility Level Analysis	2 nd 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



Island Rookery

Restoration

Nourishment

Coastal Storm Risk Management

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





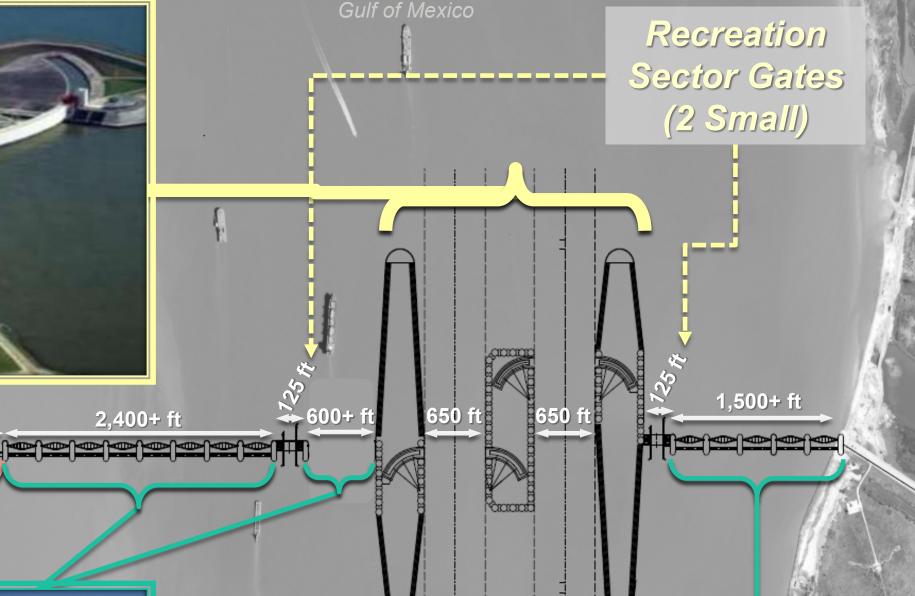
Ecosystem Restoration (6,000+ ac)

- o 737 ac of breakwaters
- o 838 ac of bird islands
- 1.985 ac of marshes
- 44 ac of oyster reefs
- o 2.519 ac of dunes/beaches





1,536+ ft



Bolivar Peninsula



Shallow Section (16 Pre-cast monoliths)



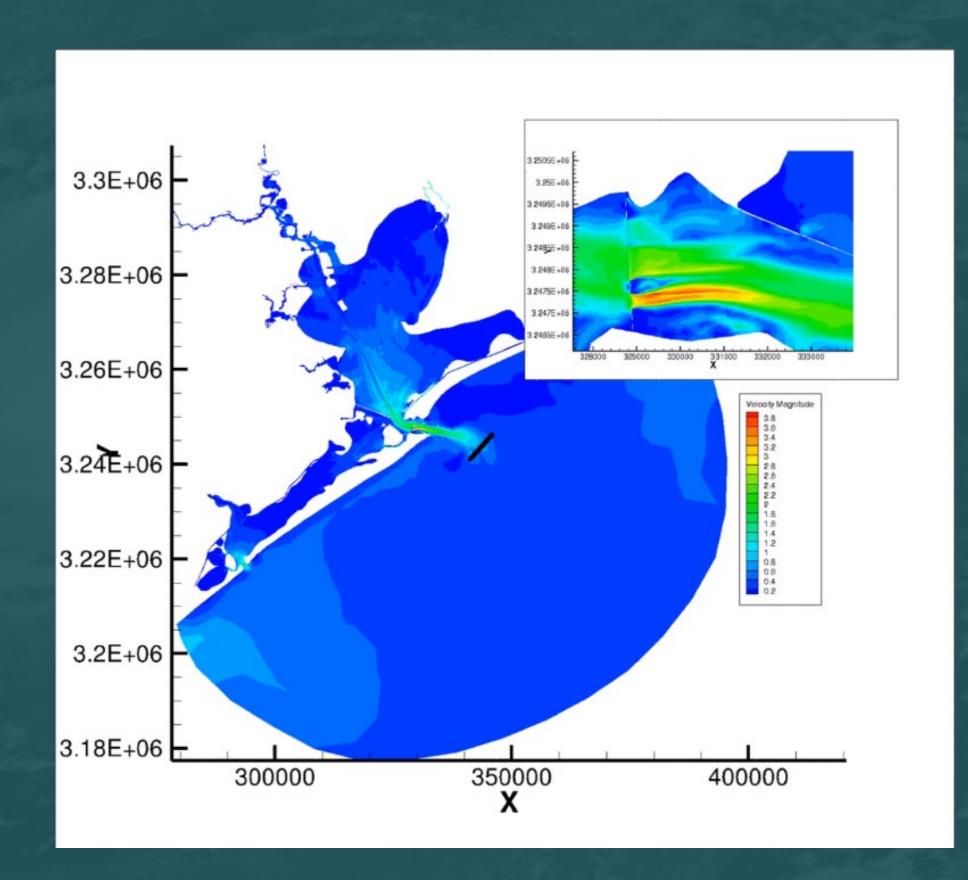
Intermediate Sections (15 Vertical Lift Gates)

Galveston Island

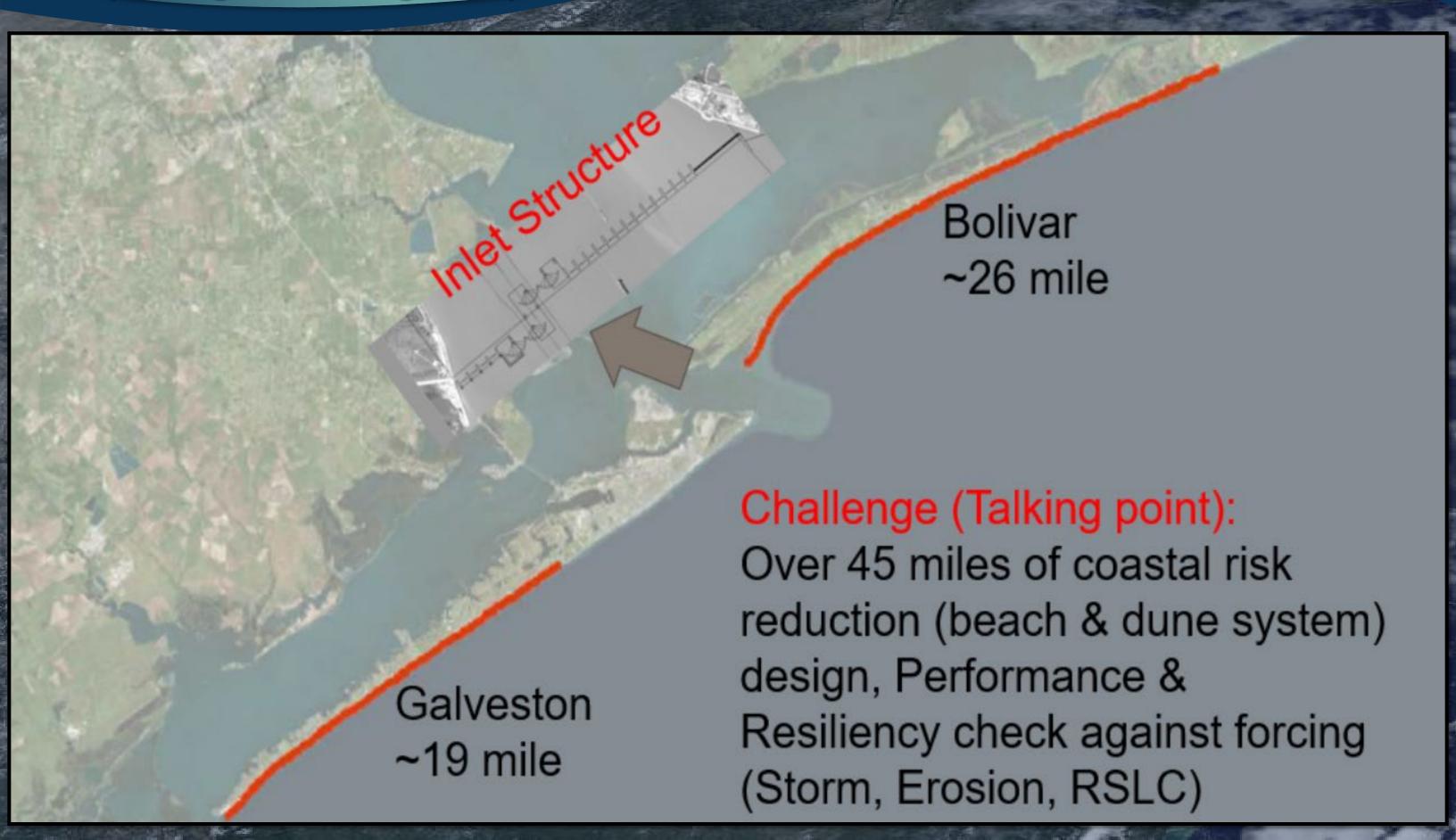
Galveston Bay

- ADaptive Hydraulics Modeling (ADH)
 - Salinity
 - Velocity
 - Sediment
- Particle Track Modeling
 - Larval movement through the barrier

Results coming in Fall 2019



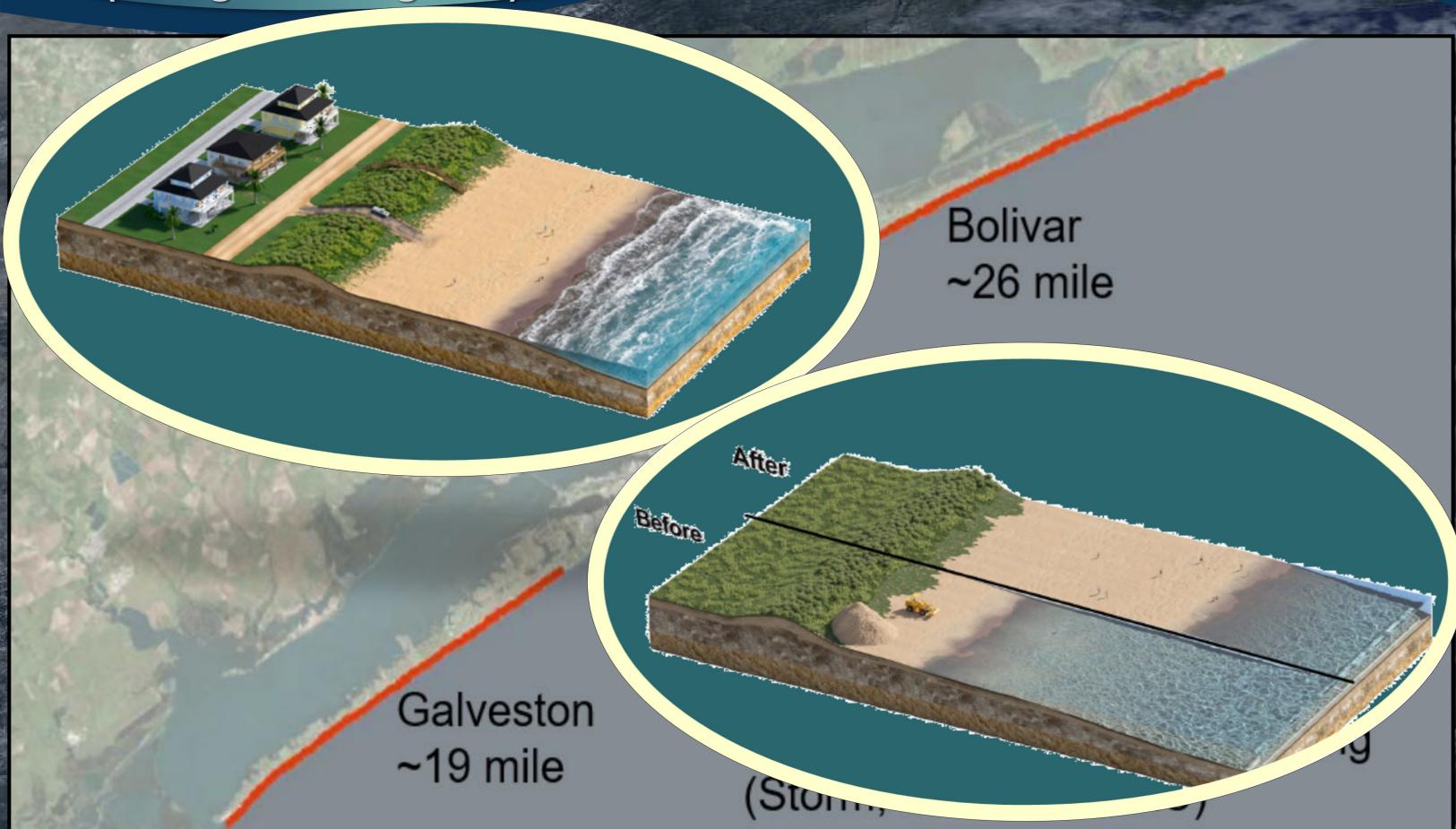






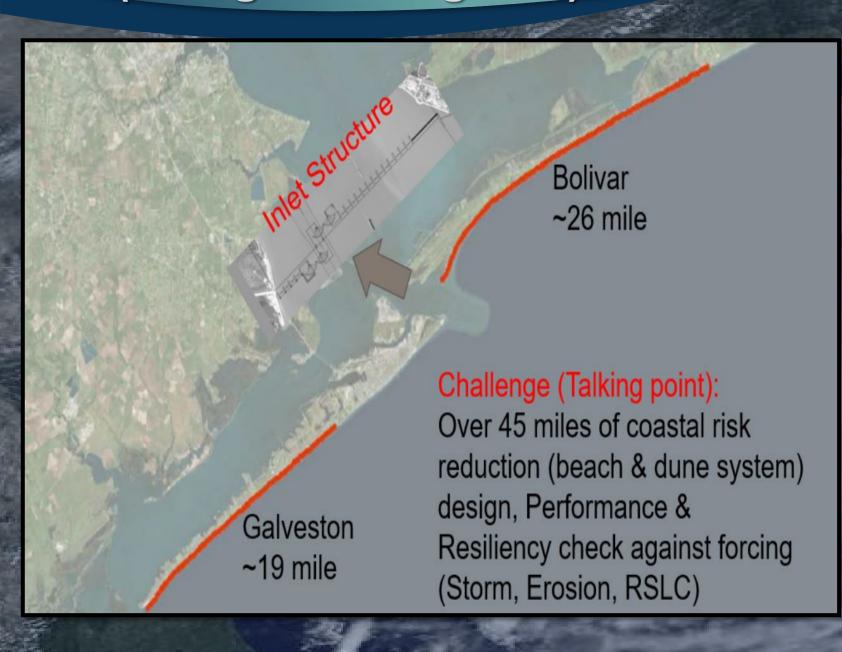
Dune & Beaches (Design in Progress)





Dune & Beaches (Design in Progress)

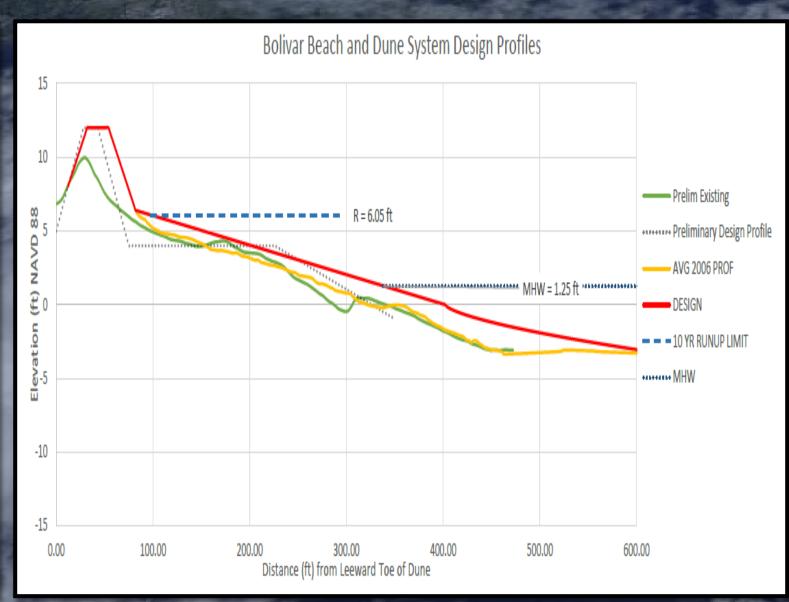




10,000

15,000

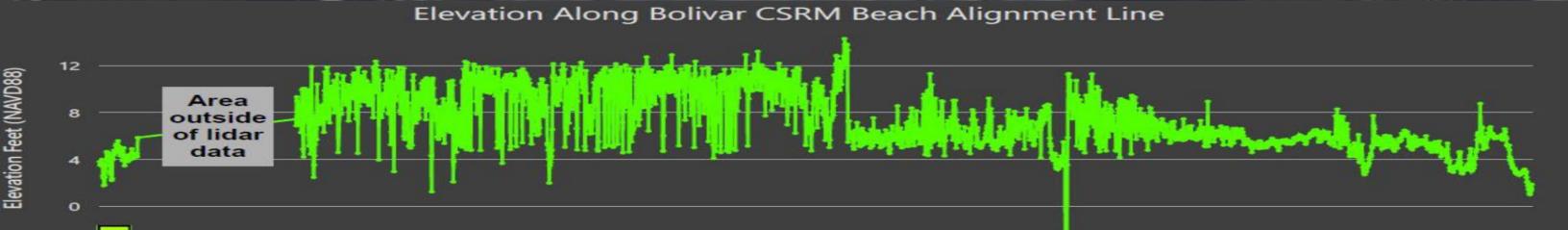
5,000



30,000

35,000

40,000



20,000

Distance from Fort Travis (ft)

25,000





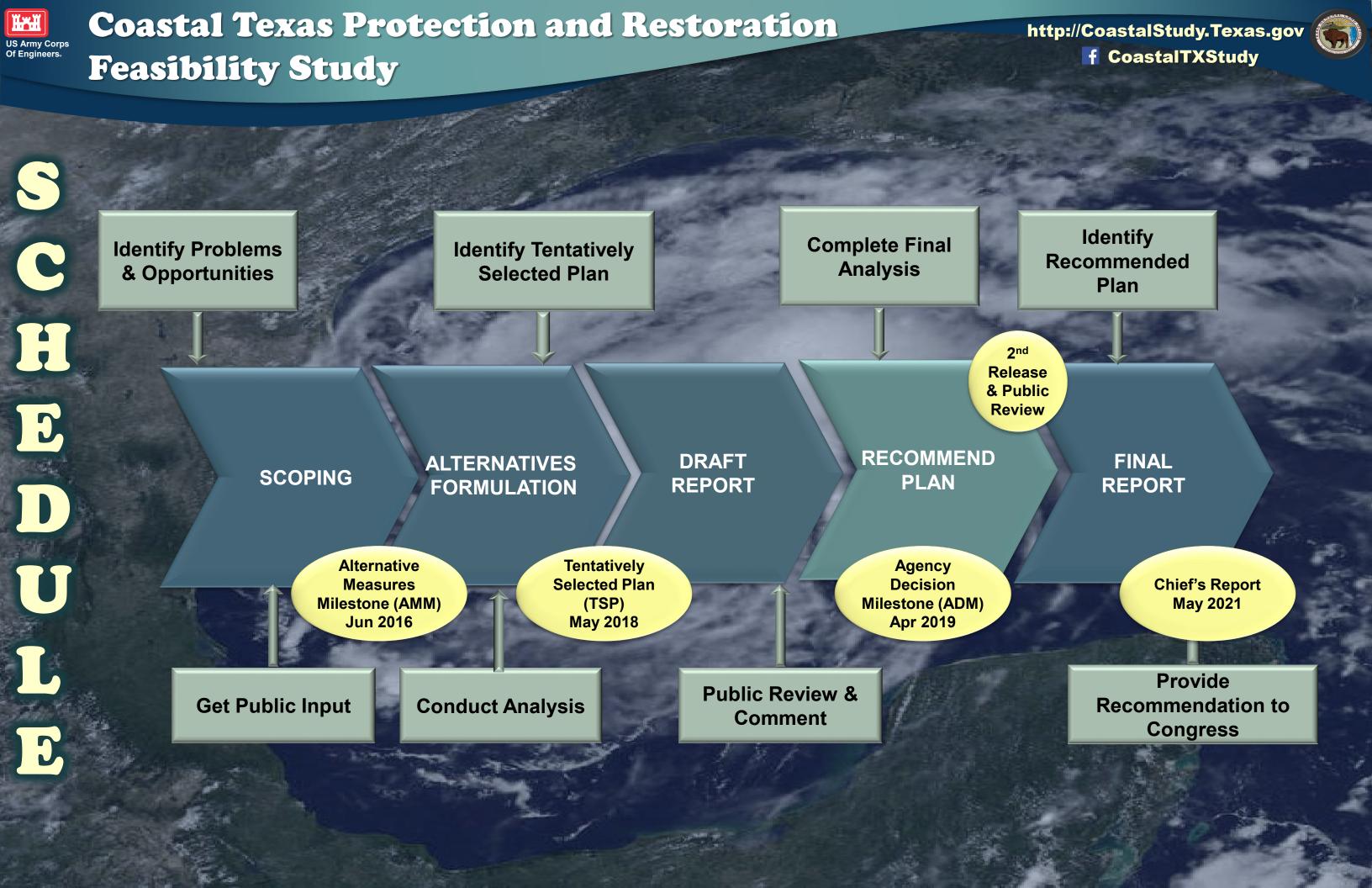
4 Groups

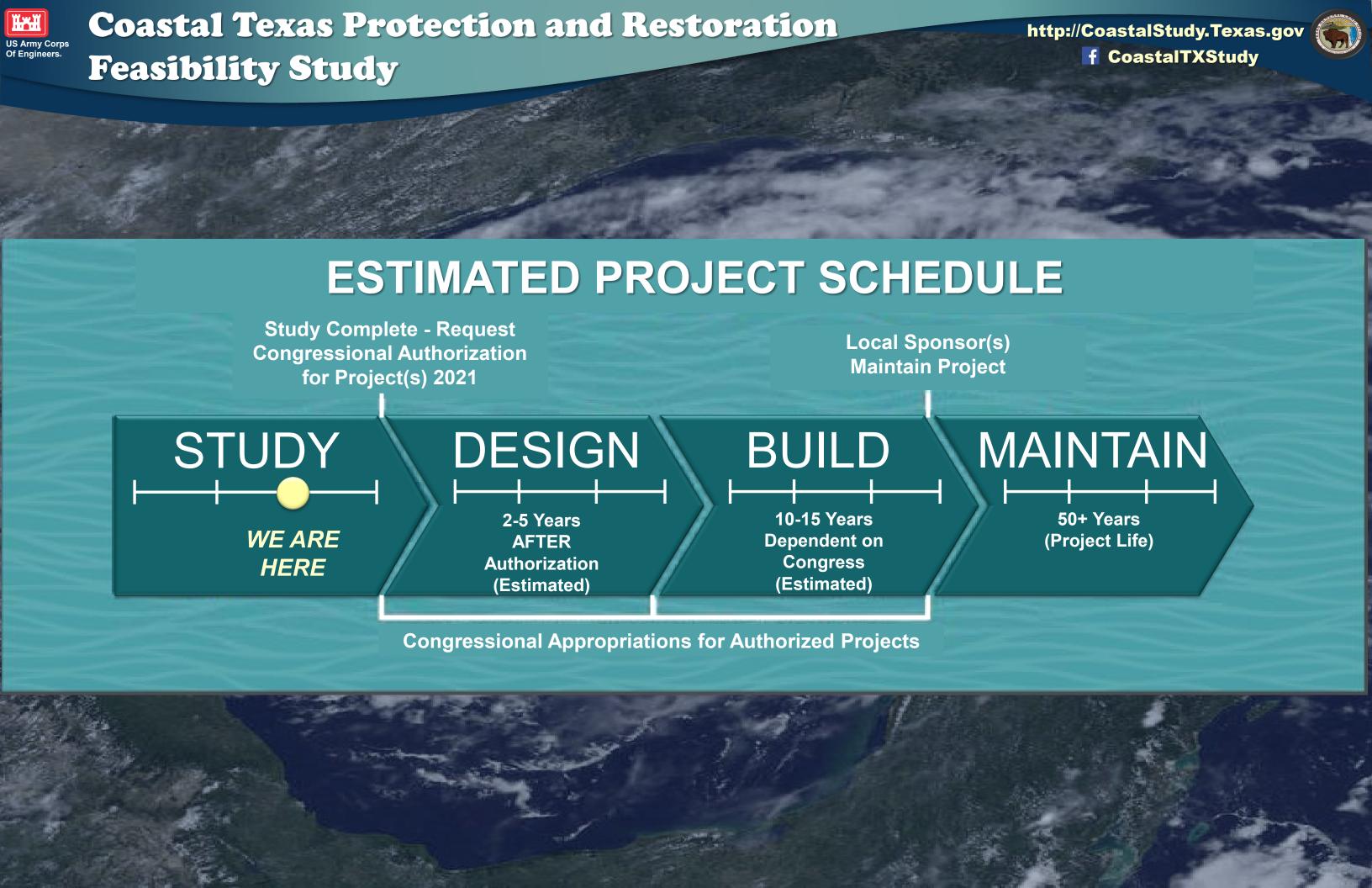
- Mainland
- Galveston
- Bolivar
- o South Padre

Primary Goals =>

- Two-way Communication
- Transparency
- Fact-based Information
- Quicker Dissemination of New Plan Details





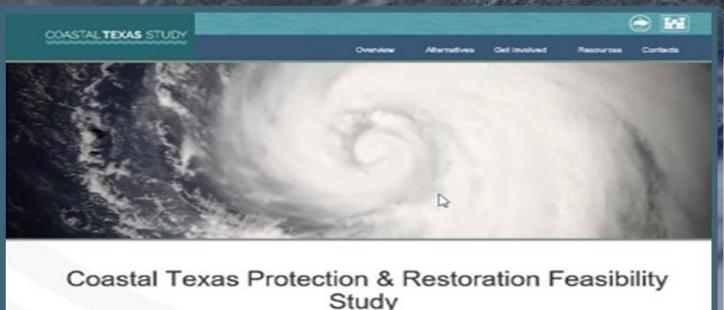


Coastal Texas Protection and Restoration Feasibility Study

http://CoastalStudy.Texas.gov f CoastalTXStudy



Watch this space!



Planning and Environmental Documents for Public Review: **Draft Integrated Feasibility Report and Environmental Impact Statement**

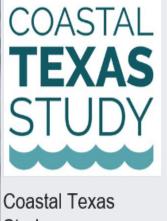
The community is invited to review the plans and participate in a series of public meetings



he U.S. Army Corps of Engineers, in partnership with the Texas General Land Office, began an examination in November 2015 of the feasibility of constructing projects for coastal storm risk management and ecosystem

The Coastal Texas Protection and Restoration Feasibility Study, also known as the Coastal Texas Study, will involve engineering, economic and environmental analyses on large-scale projects, which may be considered by Congress for authorization and funding.

The feasibility study and report will be complete in 2021. The Coastal Texas Study recommendations will enhance resiliency in coastal communities and improve our capabilities to prepare for, resist, recover and adapt to coastal



Coastal Texas Study

Study

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complement one another, more information is needed in order to make direct comparisons between them. Some key concerns include:

Comment

1) The Bay Park Plan is still in the concept pha... See More

1 You, Sharon Manzella Tirpak and 2 others

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We are utilizing a "multiple lines of defense" approach to develop a system of comprehensive, resilient, and sustainable coastal storm risk management solutions. For more information, please visit http://coastalstudy.texas.gov/.





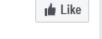
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Susan Criss for Senat...





Texas Southern Colleg. Political Organization



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nanagement solutions to reduce the nage from tropical storms and hurricanes incurred by coastal

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Ecosystem Restoration

Increase the net quality and quantity of coastal ecosystem resources by maintaining, protecting and restoring coastal Texas ecosystems, and fish and

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Environmental Impact Analyses

ompleted under the procedures of National Environmental Policy Act (NEPA).

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