# RESTORE Act Bucket 2 Planning Public Meeting

James C. Gibeaut, Ph.D.
Coastal and Marine Geospatial Sciences
Harte Research Institute for Gulf of Mexico Studies
Texas A&M University – Corpus Christi







# **Texas Coast**

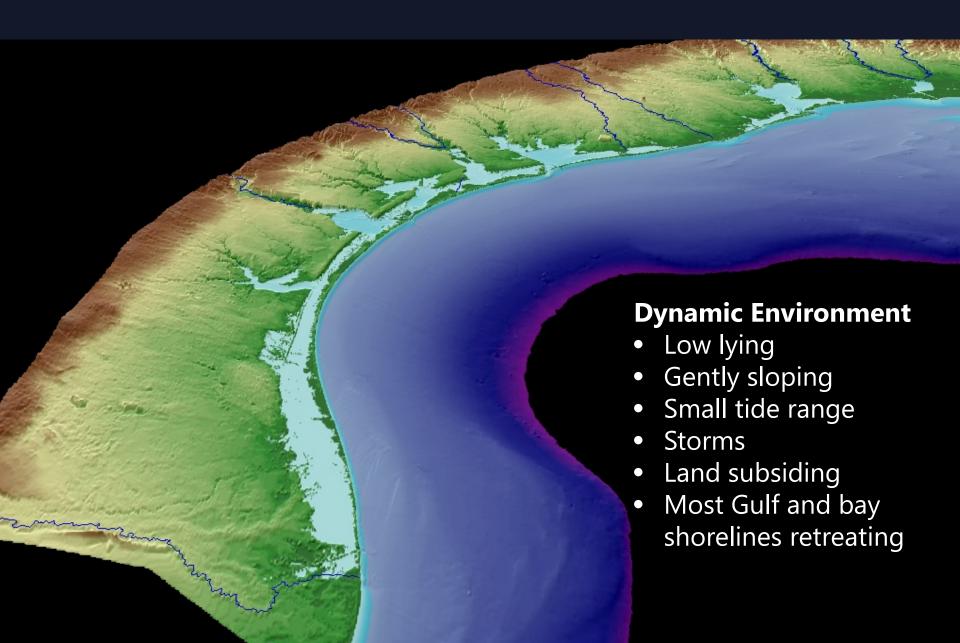
Shoreline Length:

Gulf = 375 miles

Bays = 5,850 miles



#### **Texas Coastal Plain Topography and Bathymetry**



#### **Community and Economic Resilience**

- Texas coast is important to the state and the country
- Population expected to increase 50% from 2010 to 2050
- Need to protect environment, community, and economy



\$25 billion of cargo passing through GIWW



\$59 billion exported petroleum and coal products



29% of the nation's total refining capacity



\$369 million expenditures on recreational fishing trips

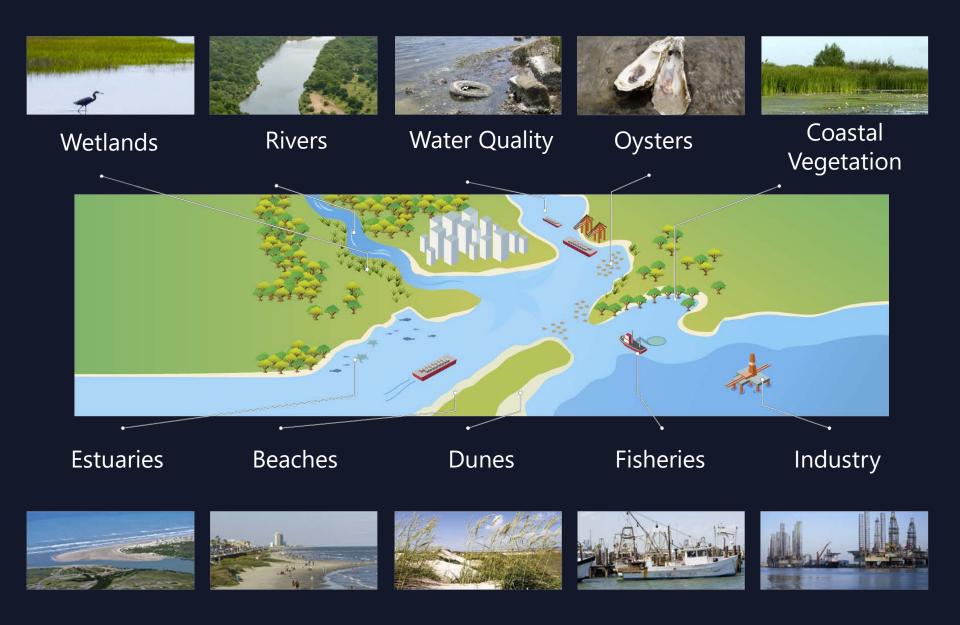


\$278 million in commercial seafood landings



\$19.7 billion spent by tourists traveling to Texas coast

### **Texas Coastal Ecosystem**





## Long-term Shoreline Change

Feet per year

20 to 114

Advancing

0 to 20

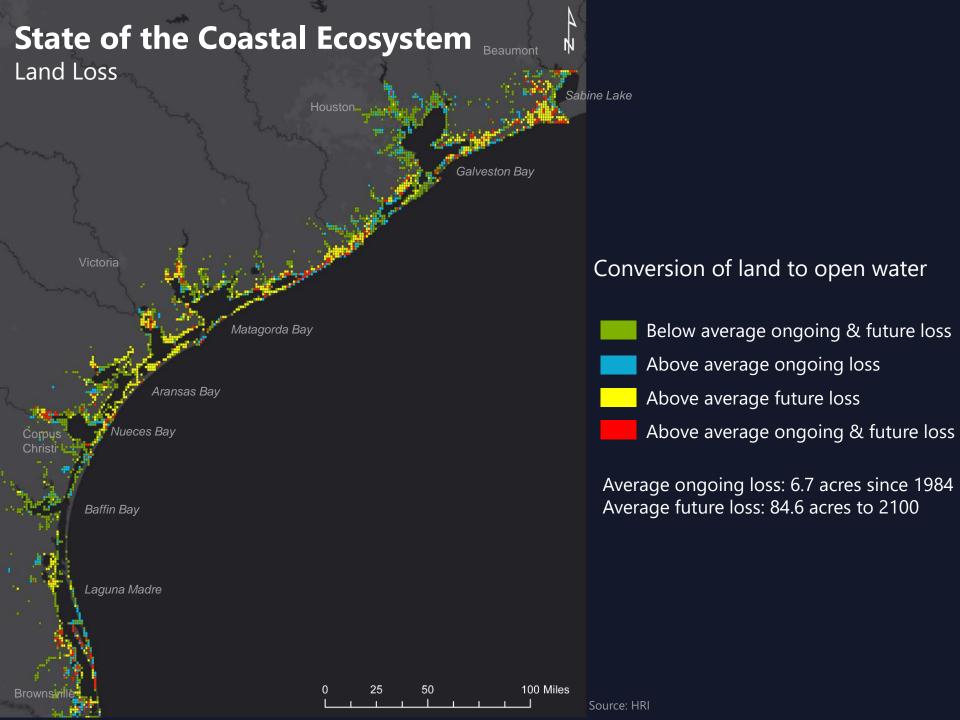
-5 to 0

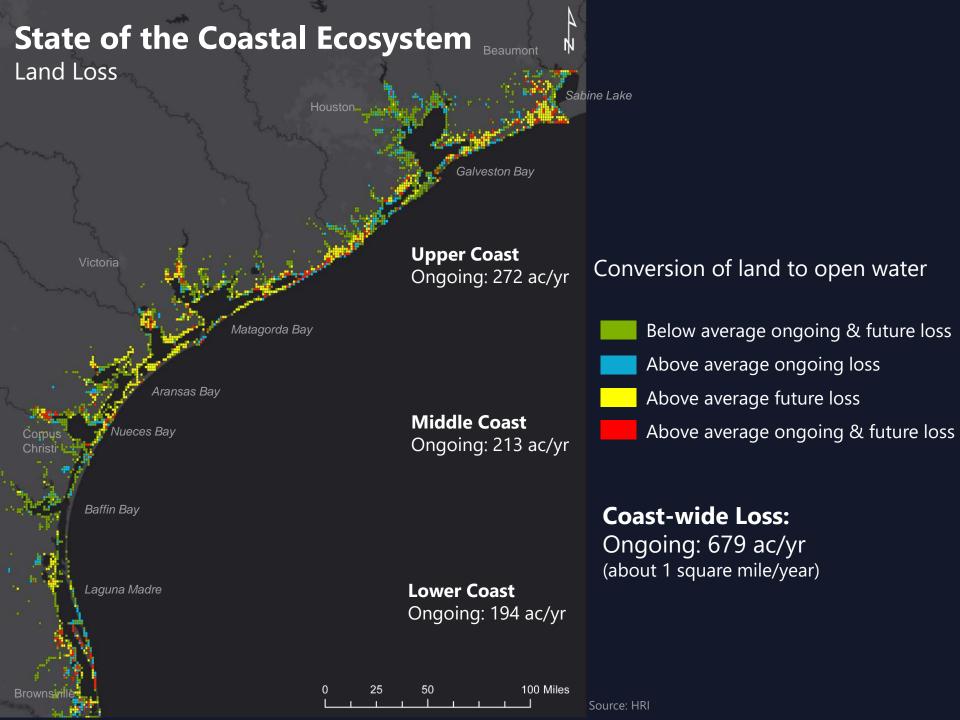
-20 to -

-64 to -20

Retreating

Source: BEG





#### **State of Restoration Planning in Texas**

- Inventorying other restoration plans
  - Federal, state, regional, and local plans (still compiling not all listed here)

* = includes proje Ecosystem Restoration		CTS Coastal Hazard Mitigation		Ecosystem Restoration And Coastal Hazard Mitigation		Supporting Plans	
1.	Restoring the Gulf for Coastal Waterbirds*	1.	Storm Surge Suppression Study*	1.	Texas Coastal Resiliency Master Plan*	1.	Status and Trends of Coastal Hazard
2.	Restoring Colonial	2.	Community Resilience	2.	Coastal Texas		Exposure and
	Waterbirds on the Texas		Collaborative*		Protection and		Mitigation Policies for
2	Coast*				Restoration Feasibility	2	the Texas Coast
3.	Gulf-Houston Regional Conservation Plan*			3.	Study* Sabine Pass to	2.	Texas Coastal Sediment Sources General
4.	Coastal Bend Bays Plan*			٥.	Galveston Bay Corps		Evaluation Study
5.	Restoration of				Feasibility Study Re-	3.	Texas Prairie Wetlands
	Wetlands, Coastal, and				Scoping Project*		Project
	Nearshore Habitats*			4.	Restore Act Direct	4.	Texas Coast-wide
6.	Final Programmatic				Component Texas		Erosion Response Plan
	Damage Assessment and Restoration Plan				Multiyear	5.	Update 2018*
	and Final Programmatic				Implementation Plan *	Э.	Laguna Madre Estuary Program Environmental
	Environmental Impact						Strategic Plan*
	Statement*					6.	Partners in Flight Bird
7.	Salt Bayou Watershed						Conservation Plan
	Restoration Plan*					7.	King Rail Conservation
8.	Laguna Madre Initiative*					0	Plan*
9.	Texas Mid-Coast					8.	Little Blue Heron Conservation Plan*
J.	Initiative*					9.	Reddish Egret Plan*
10.	Chenier Plain Initiative*					10.	Mottled Duck
11.	Seagrass Conservation						Conservation Plan*
	Plan For Texas*					11.	<b>.</b>
							Dredged Material
							Management Plan*

