

# Texas General Land Office Partnerships on Beneficial Use of Dredged Material Projects

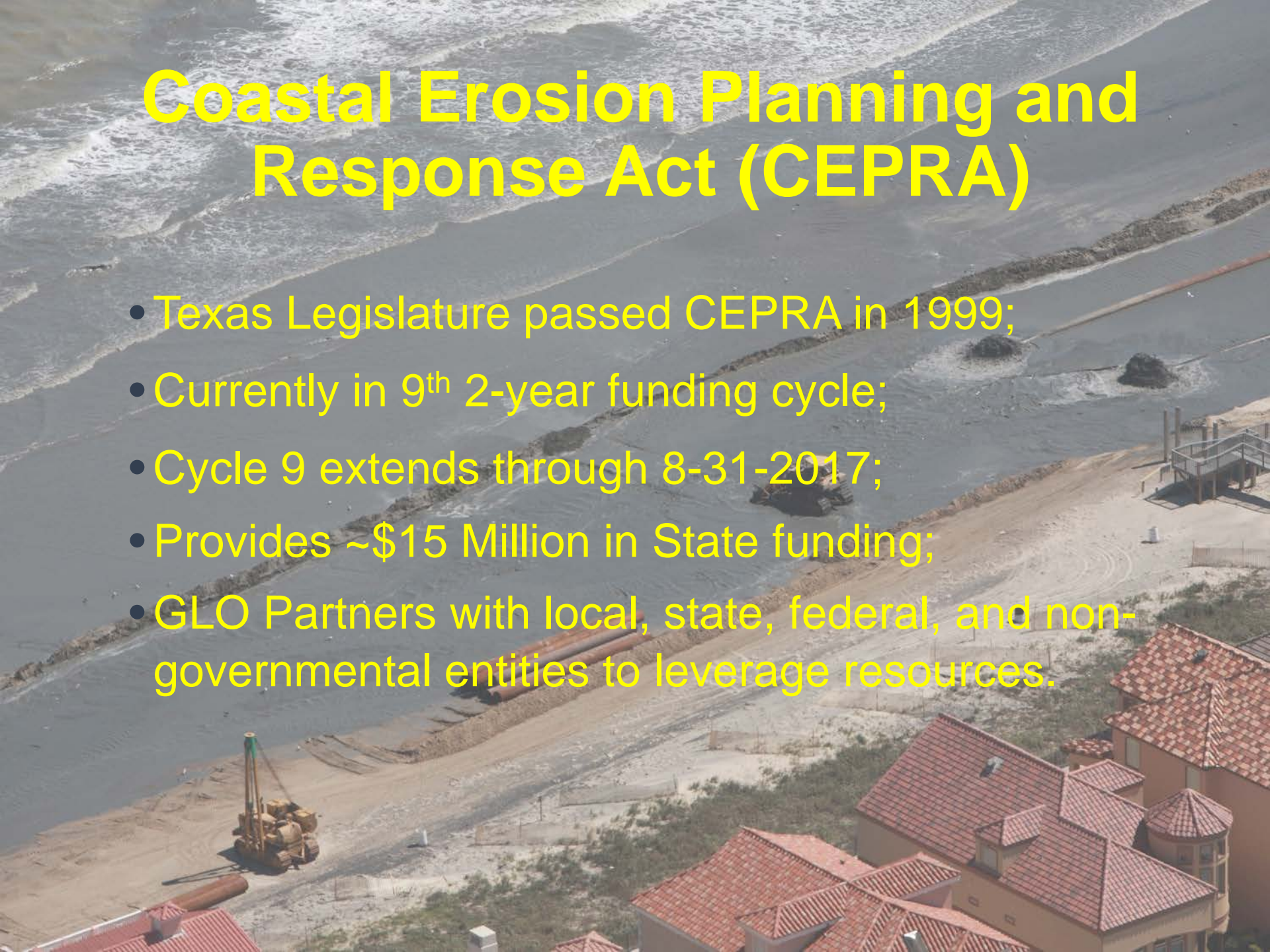
Thomas Durnin, Coastal Planner/Project Manager  
Texas General Land Office  
Coastal Resources Program

George P. Bush, Commissioner



# Coastal Erosion Planning and Response Act (CEPRA)

- Texas Legislature passed CEPRA in 1999;
- Currently in 9<sup>th</sup> 2-year funding cycle;
- Cycle 9 extends through 8-31-2017;
- Provides ~\$15 Million in State funding;
- GLO Partners with local, state, federal, and non-governmental entities to leverage resources.



# Types of CEPRA Projects:

- Beach and Dune Restoration;
- Marsh Restoration;
- Shoreline Protection;
- Structure Relocations;
- Debris Removal;
- Sand Source Investigations;
- Shoreline Change Analyses;
- Beneficial Use of Dredged Material (BUDM);



An aerial photograph of a coastal area. In the foreground, there are several residential buildings with red-tiled roofs. A sandy beach runs along the coast, with a concrete walkway and some structures. The ocean is visible with waves breaking on the shore. The text is overlaid on the image in a bright yellow color.

# USACE-GLO BUDM Memorandum of Agreement

- Executed in 2001;
- Covers all USACE Galveston District Maintenance Dredging Projects;
- Streamlined Contracting Process;
- Established 2-Page Support Agreement;
- Avoided Objectionable Language in Standard USACE Agreements.

# BUDM Project Planning Steps

- Identify desired BUDM location;
- Establish site ownership;
- Determine USACE dredging schedule in vicinity of BUDM site;
- Coordinate environmental compliance;
- Execute 2-Page Support Agreement;
- Provide “Incremental Cost” payment;
- Dredge and Place Material.

**South Padre  
Island (SPI)  
Beach  
Nourishment  
with BUDM**





**DMPA #5**

**DMPA #1**

**ODMDS**

Queen Isabella Causeway

Padre Blvd

48

100

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Data SIO, NOAA, U.S. Navy, NGA, GEBCO

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# SPI Beach Nourishment with BUDM, Project Details

- USACE covers base plan dredging costs;
- GLO, City of SPI, and Cameron Co. share incremental (non-federal) costs
- Annual monitoring surveys conducted by HDR Engineering and subcontractors;
- Beach placement between October 1 to March 15 to avoid sea turtle nesting season;
- Also try to avoid Snow Bird season.



# Economics of SPI BUDM

- Funding Sources: GLO CEPRA, City of SPI, Cameron County, and U.S. Fish and Wildlife Service Coastal Impact Assistance Program Funds;
- Effective Cost of Sand ~ \$3 to \$5/cubic yard;
- CEPRA Economic Analysis Benefit / Cost Results: Isla Blanca Park 40 to 1, City of SPI 9 to 1.

# SPI Beach Nourishment with BUDM, Project Partners:

- City of SPI;
- Cameron County;
- Texas GLO;
- USACE Galveston District;
- Dredging Contractors.



# Caplen Beach Nourishment with BUDM

Project Partners:

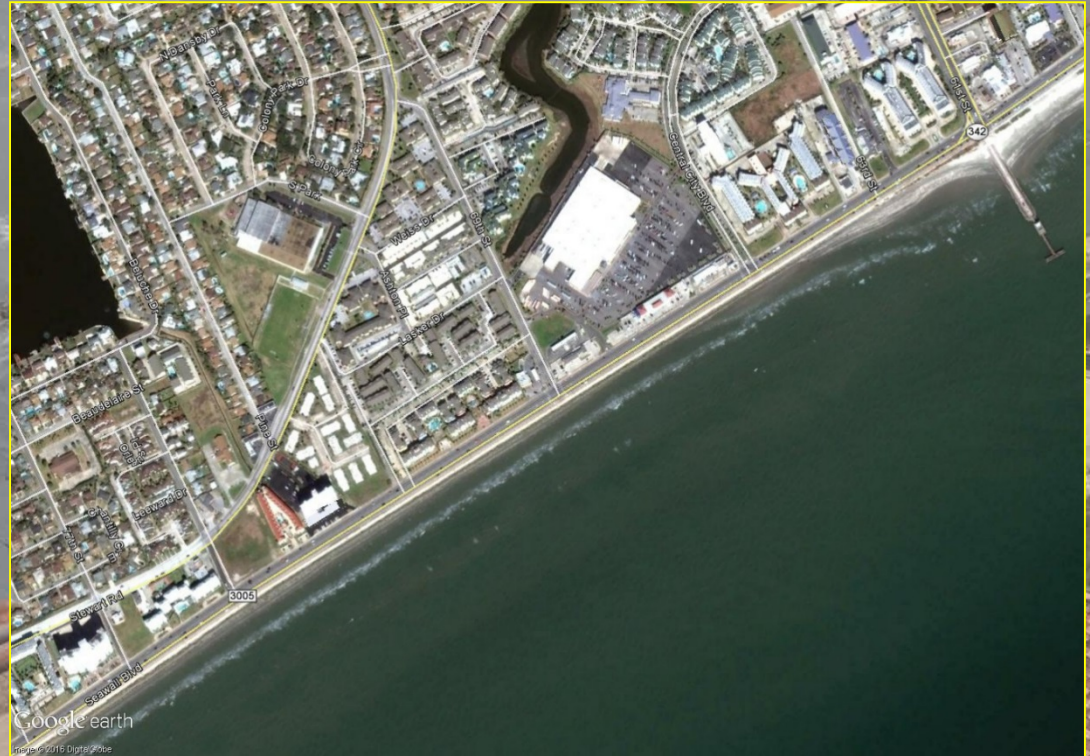
- USACE;
- Galveston County



# Galveston Seawall Beach Nourishment with BUDM

## Project Partners:

- USACE;
- City of Galveston Park Board of Trustees



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# Pierce Marsh Restoration with BUDM

## Project Partners:

- USACE;
- Galveston Bay Foundation;
- Ducks Unlimited;
- State - GLO, TPWD, TCEQ;
- Fed. - NOAA-NMFS, USFWS;
- Mike Hooks Dredging, Inc.



# Pierce Marsh BUDM



# Pierce Marsh BUDM





# Pierce Marsh Design



Date: 8/3/2015 Time: 10:08:51 AM

MATCHLINE SHEET 14

 U.S. Army Corps of Engineers Galveston District	
PROJECT NO.: DRAWING NO.: SHEET NO.: DATE:	SCALE: 1" = 100'
DESIGNED BY: CHECKED BY: APPROVED BY: DATE:	DISTRICT COMMANDER:
PREPARED UNDER THE DIRECTION OF: DISTRICT COMMANDER	
CIVIL ENGINEER DISTRICT GALVESTON CORPS OF ENGINEERS GALVESTON, TEXAS	
PREPARED UNDER THE DIRECTION OF: DISTRICT COMMANDER	
DREDGE PIPELINE ROUTE OPTIONS TO PIERCE MARSH	

# Pierce Marsh BUDM



# Highlights of BUDM Partnering Opportunities

- Good funding opportunities for BUDM design and permitting;
- Concerns about capacity in existing DMPAs;
- Still a great need for habitat restoration;
- Agencies looking to partner with industry;
- Better regional coordination needed;
- Some projects already moving forward.

# For More Information:

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