Port Fourchon: America's Working Coast

Leveraging Port and Economic Development for Coastal and Environmental Sustainability





America's Energy Economy

 What the Nation would lose if Port Fourchon was out of service for a 21 day period

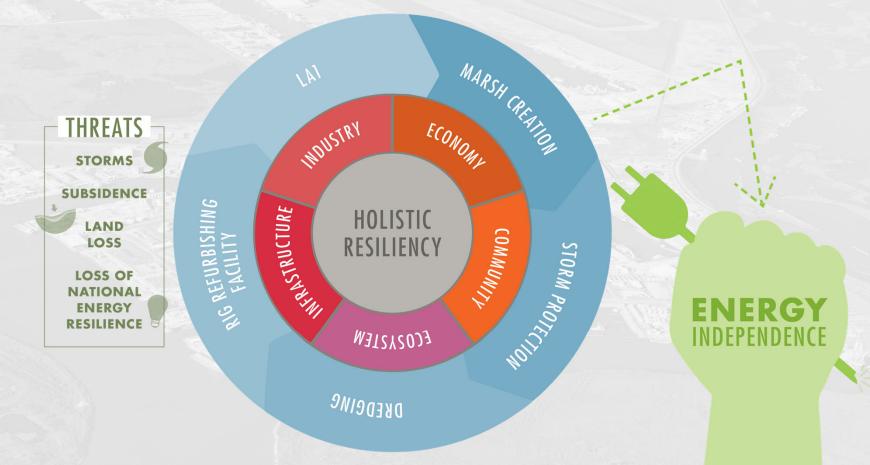
Impact on	
Business Sales	\$11.2 Billion lost
Household	\$3.1 Billion lost
Earnings	
Jobs	65,502 Jobs lost



The Economic Impacts of Port Fourchon on the National and Houma MSA Economies prepared by Dr. Loren C. Scott and Associates



Holistic Resiliency

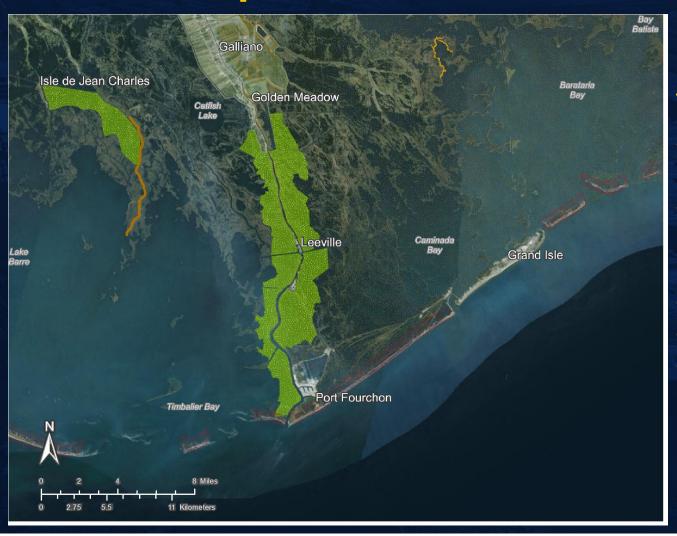








Landscape Level Restoration: LA Coastal Master Plan



Louisiana's State Coastal Master Plan

- 50 year, \$50 Billion Ecosystem
 Level
- Over \$300 M committed or constructed in vicinity of Port Fourchon under existing plans
- Redrawn every 6 years
- Approved by Legislature
- All LA enviro \$ from
 Deepwater Horizon are
 dedicated to Master Plan
 projects

Deepwater Draft s203 Feasibility Study

- Deepen Belle Pass to -50'
- Deepen Bayou Lafourche, Flotation Canal, Northern Expansion to -30'
- Purpose-built Deepwater Rig Repair and Refurbishment
- Initial construction 20M cu yds
- Life of project 86M cu yds



Fourchon Island: Deepwater's Ultimate Destination

Purpose-built development for decommissioning, repair,

refurbishment

Proximity to Gulf <2mi

-50' deep channel

+1,750' wide slip

 Port Fourchon is already the service base for +90% of US GoM Deepwater rigs
 Capture +\$90M/yr of work



Benefit Cost Analysis & Tentatively Selected Plan (TSP)

- All the alternatives considered have positive Benefit-Cost Ratios (BCR).
- Net economic benefits increase from Alternative 2 through Alternative 6.
- Environmental benefits increase Alternative 2 through Alternative 6.

Action Alternative	Dredged Material	Marsh Creation	Shoreline	Net Acres
	Removed ¹	(cubic yards)	Nourishment	of Marsh
	(cubic yards)	(cubic yarus)	(cubic yards)	Creation
2 a	26,380,893	25,174,751	1,206,142	1,189
2b	37,142,456	32,169,787	4,972,669	1,520
3	49,904,882	35,705,854	14,199,028	1,687
4	57,579,985	38,029,259	19,550,636	1,797
5	63,702,321	39,667,517	24,034,804	1,874
6 a	72,586,098	43,428,093	29,158,005	2,052
6b	81,796,621	47,793,197	34,003,424	2,258
6c TSP	86,401,932	49,975,734	36,426,198	2,361

¹Dredged material removed includes new work and 50 years of annual maintenance (includes additional quantities required for navigational safety and advanced maintenance depths)



- Sea level rise and subsidence factors are incorporated into the estimation of the net acres of 2,361 marsh.
- 36 million cubic yards of dredged material Unrealized shoreline nourishment benefits.

















- Public-private partnership brings together industry and port with The Water Institute of the Gulf
- Driven by industry partners with the vision of protecting and growing America's Energy Infrastructure by beneficially using dredge materials
- Science expertise at the Institute used to plan for best placement of dress material to provide maximum protection for critical infrastructure using class science

Cutting Edge Science

- TWI is utilizing Delft3D and other modeling to assist s203 project team with:
 - Sedimentation modeling
 - Beneficial use of dredge materials placement
 - WVA analysis

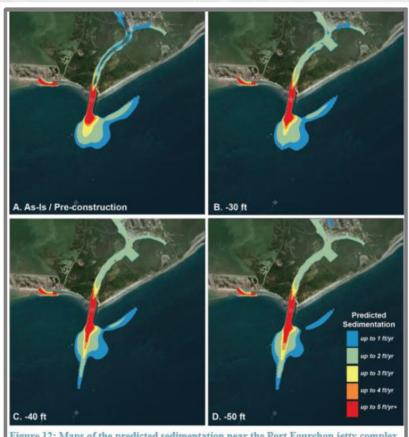


Figure 12: Maps of the predicted sedimentation near the Port Fourchon jetty complex for 4 scenarios.



Maximizing Benefits

- ~86,000,000 cubic yards of fill over 50 year life of project
- Fourchon is in the most sediment starved area of coast, making BUDM critical opportunity
- 4,717 acres of marsh creation in 50 yrs
- 2,361 acres of which remain in 50 yrs
- Creating a renewable sediment resource in heart of B-T basins

PORT FOURCHON CHANNEL DEEPENING

BY THE NUMBERS

\$90,000,000

Dollar value of the amount of rig repair work currently being lost to other countries which would be captured by a rig repair facility on Fourchon Island and spent in LA and the US



1,300

Number of permanent, high-paying skilled jobs this amount of work would generate in Port Fourchon for American workers



86,000,000

Number of cubic yards of sediments to be dredged and used to rebuild our coast over the 50-year life of the project (including the initial construction dredging of approximately 20M cubic yards



4.717

Total number of acres of coastal wetlands to be built by using this material beneficially in total over the 50-year life of the project



2.361

Number of these acres of coastal wetlands constructed through this project which will remain in 50 years



10 TO 1

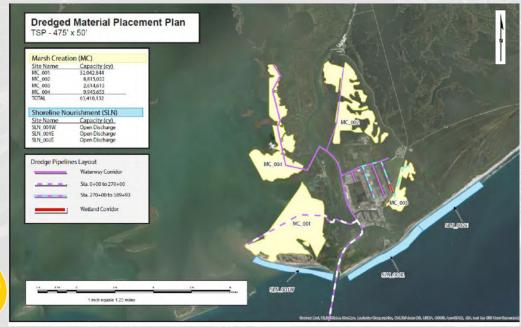
Minimum Benefit to Cost Ratio (BCR) of the project, assuming 7% discount rate, and excluding some economic benefits. (This means that for every \$1 of taxpayer funds spent on the project, AT LEAST \$10 will be returned to taxpayers in economic benefits

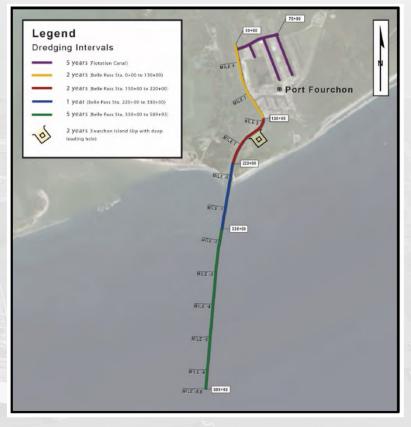


More info: www.portfourchon.com

Recurring Sediment Source

 Opportunity to align sediment availability with priority restoration in B-T basins







Future With Project (mid-project YR36-40)





