

Southwestern Division “Pacesetters”

Galveston District Dredging Conference

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24 October 2012



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US Army Corps of Engineers
BUILDING STRONG®



Southwestern Division Footprint



SWD Civil Works Mission Areas

Water Supply

- 8.4 million acre-feet of water storage
- Water control contracts = water for 1.8 million households



Sardis Dam, Oklahoma

Little Rock District's MV Ted Cook positions the Crane Barge Mike Hendricks at Dam 2 during the flood of 2011



Navigation (Inland)
2 major waterways (GIWW and MKARNS)

Hydroelectric Power

- 18 power plants in 6 states produce 6.7 billion kw hours
- 87% of regional capacity, second in the Corps



Bull Shoals Powerhouse, Arkansas



Recreation

- 20 percent of the Corps' total recreation projects located within the regional boundary
- 83 million visitors at 90 operating projects located in five states



Moonshine Beach, Table Rock Lake, Mo.

Flood Damage Reduction

- 74 flood damage reduction lakes/reservoirs
- 33.22M acre-feet of flood storage
- 760 miles of local flood protection projects
- \$85 B in cumulative flood damage prevention



Dallas Floodway

Regulatory (work in waters & wetlands)

- Over 5000 permit decisions annually
- Protection of waters & wetlands

Regulators examine soils on a wetland delineation field visit.



Navigation (Ports and Channels)

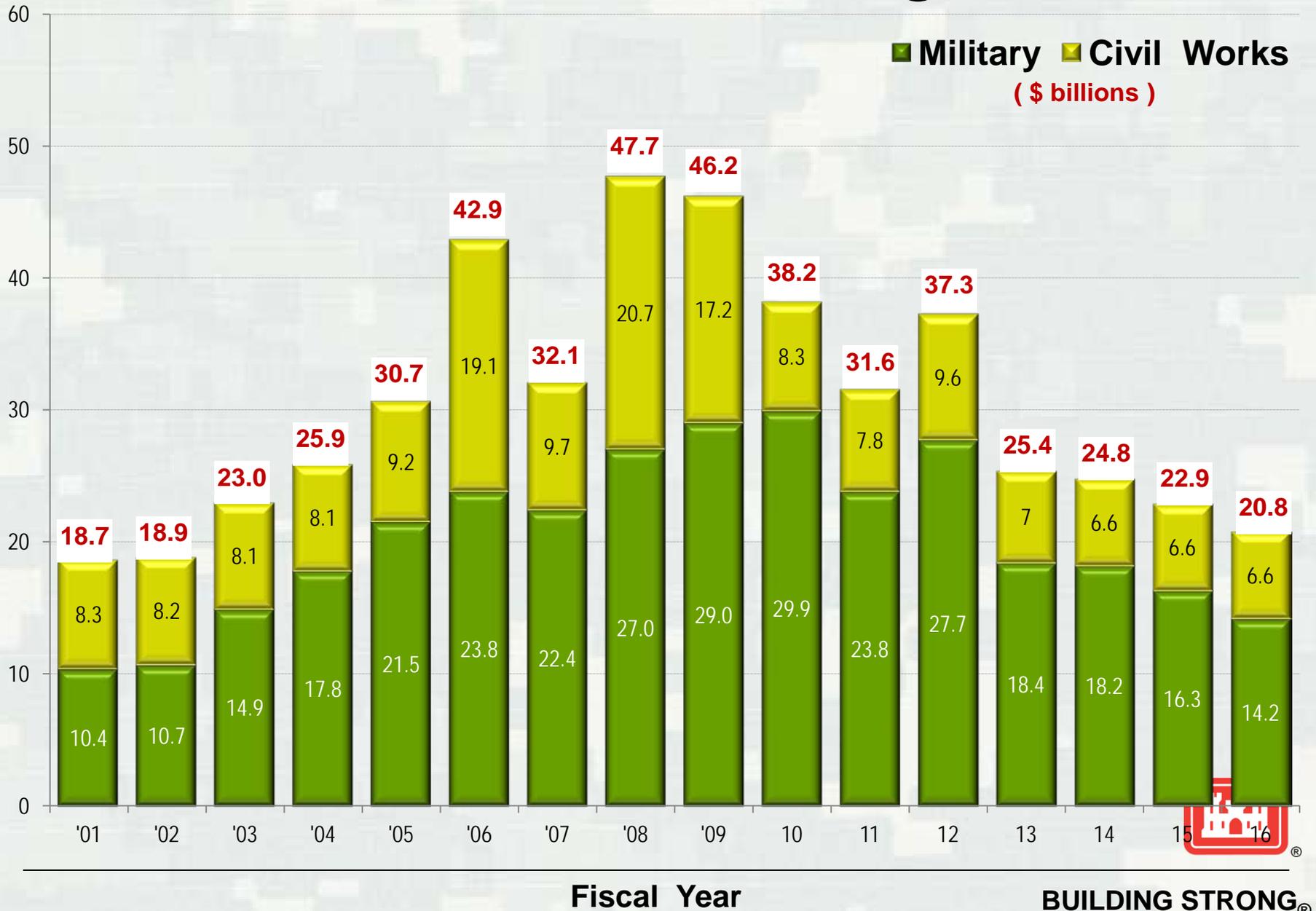
- 4 of the Nation's "Top Ten" ports
- 32 channels (15 deep draft, 17 shallow draft)
- More than 500 M tons of commerce annually



Houston Ship Channel

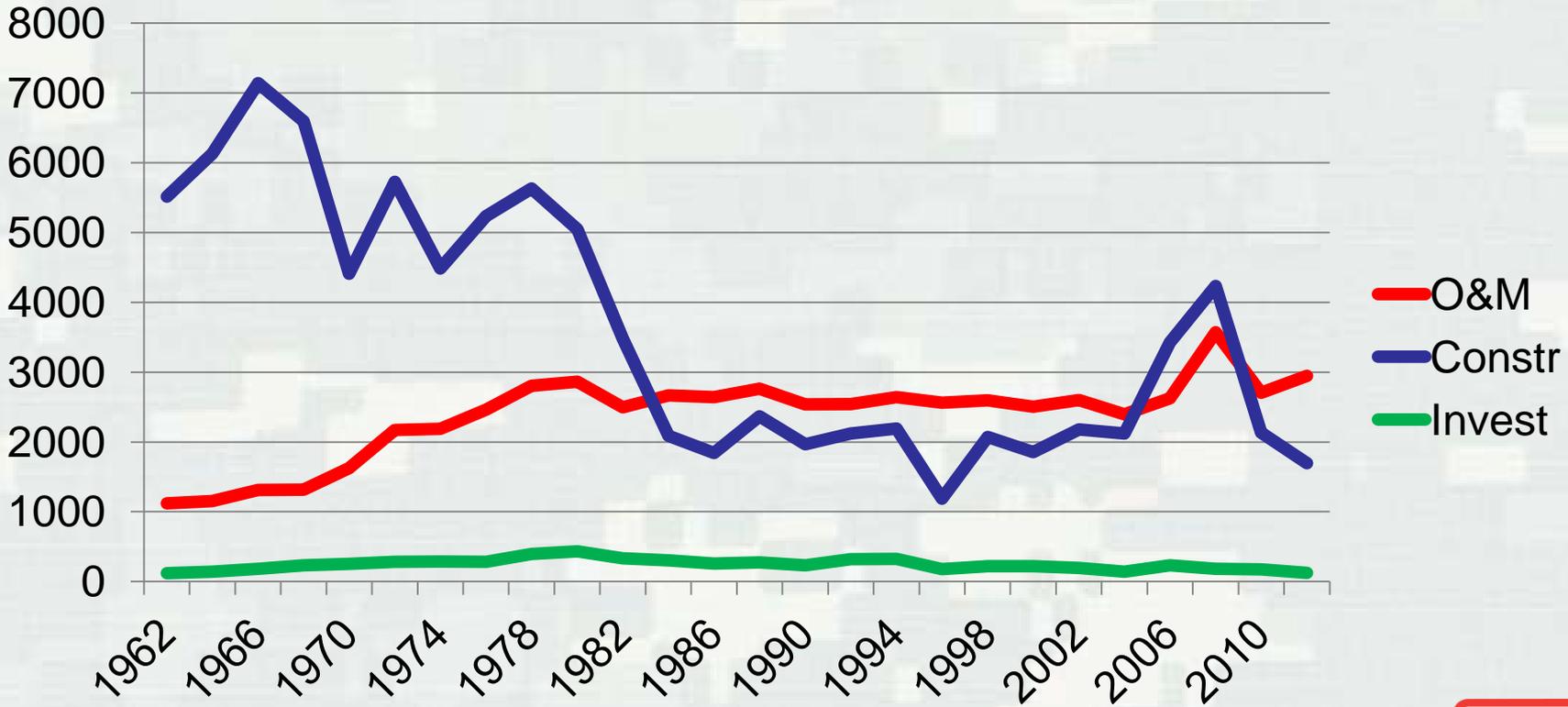


The USACE Program



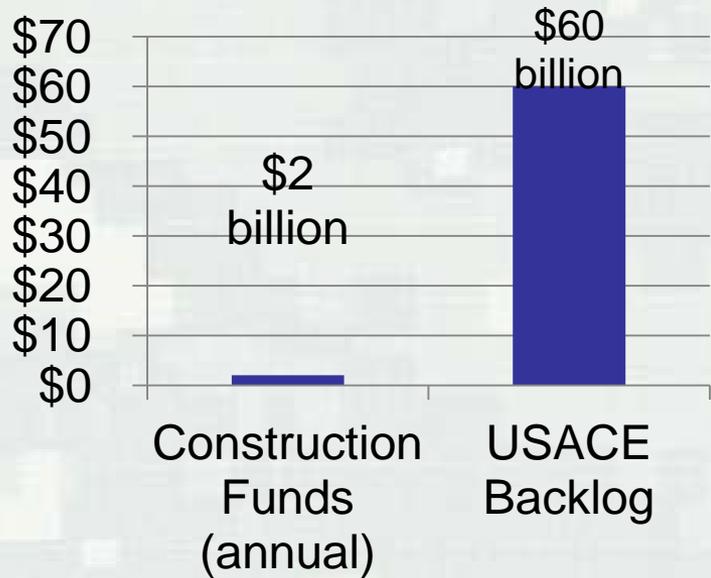
Are We on the Way to Becoming an O&M-Only Organization?

Appropriation (\$million in 2012 \$)

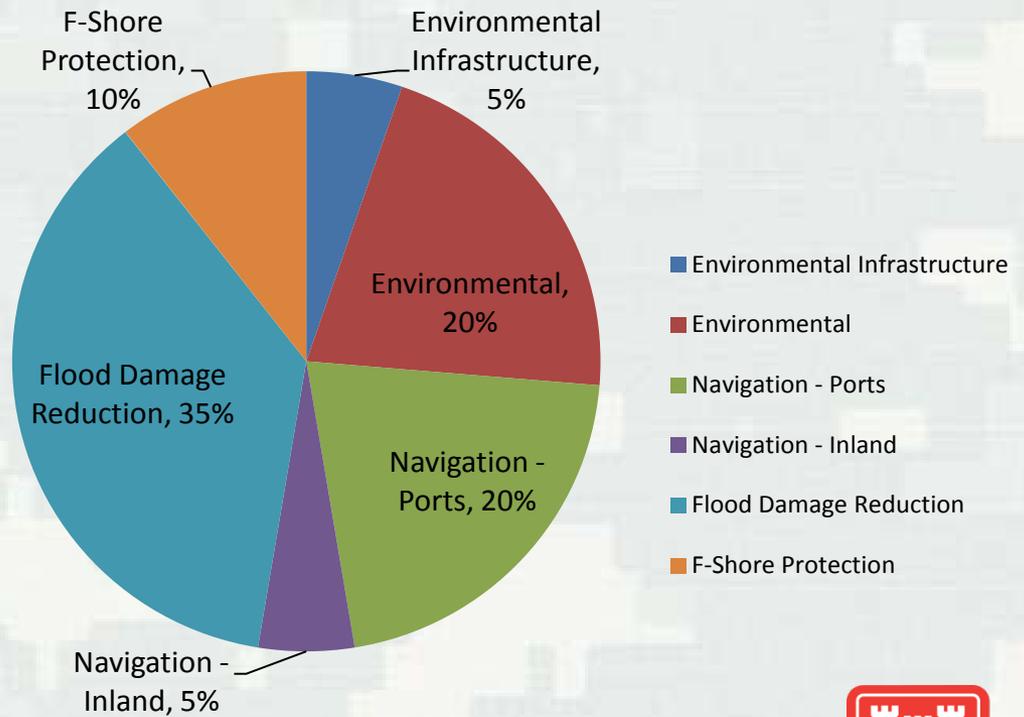


USACE Backlog

Billions



Backlog Projects by Business Line



*Hydropower projects less than

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FY2013 President's Budget

	INVESTIGATIONS	CONSTRUCTION	O&M	TOTAL
FORT WORTH	2,175,000	2,000,000	70,451,000	\$74,626,000
GALVESTON	1,026,000	4,271,000	107,939,000	\$113,236,000
LITTLE ROCK	0	0	89,579,000	\$89,579,000
TULA	0	6,000,000	96,899,000	\$102,899,000
TOTALS	\$3,201,000	\$12,271,000	\$364,868,000	\$380,340,000

FEASIBILITY STUDIES

Fort Worth Dallas Floodway, TX
 Guadalupe & San Antonio Rivers, TX
 Lower Colorado River Basin, TX
 Nueces River & Tributaries, TX

Galveston Brazos Island Harbor
 Sabine Pass to Galveston Bay
 Houston Ship Channel, TX

CONSTRUCTION PROJECTS

Fort Worth Onion Creek, Austin, TX

Galveston Brays Bayou, Houston, TX
 Sims Bayou, Houston, TX

Tulsa Canton Lake, Dam Safety



Our Nation's Infrastructure GPA -- D



Roads



Railways



Runways



Rivers

Shaping Strategic Direction

Civil Works Strategic Plan

- Integrated Water Resource Management
- Systems-Based Approach
- Risk-Informed Decision Making & Communication
- Collaboration & Partnering
- Asset Management/Recapitalization
- State-of-the Art Technology



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Planning Modernization

Top Four Performance Priorities

- Improve planning project delivery (investigations and CG) and instill accountability at all levels
- Develop a sustainable national & regional planning operational and organization model
- Improve planner knowledge and experience (build the bench)
- Modernize planning guidance and processes



Budget Transformation

- Establish a goal-oriented, program based approach to budgeting
- Vertical alignment and integration of programs/BLs to National goals and objectives
- Institutionalize our CW Strategic Direction; move IWRM into our budget development framework
- Develop a budget framework that identifies relevant, important and smart decisions
- Improve justification & defense of budget allocations



End state: Sustainable and reliable water resources infrastructure



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Methods of Delivery

- Relook our methods of delivery to be more efficient, cost-effective & timely
- Link technical capabilities to desired levels of service
- Integrate a Human Capital Plan to maintain core competencies
- Improve operation and management of our water infrastructure-reduce enterprise risk
- Focus areas-Centers of Expertise (CXs):
 - Dam safety, inland navigation design and deep draft navigation economics



Infrastructure Strategy

- **Infrastructure Comprehensive Strategy:** An integrated approach to manage our assets, the life cycle of the system and seeking alternative financing:
 - ✓ **Asset Management:** Comprehensive approach to asset management
 - ✓ **Life cycle system:** Ensure future systems' viability through risk assessment and management, funding prioritization and sound decision making
 - ✓ **Alternative financing:** Provide a safe and reliable infrastructure by looking into alternative financing options
 - ✓ **CW decision making:** Develop a decision framework and process that enables a cross-cutting systems approach, supported by user friendly decision tools (WISDM, Money Ball, etc.)
 - ✓ **Strategic communication:** A robust strategy with key messages to increase national attention to water infrastructure, its value to the nation, critical needs and sustainability of our systems

End state: A reliable and sustainable infrastructure FUTURE!!



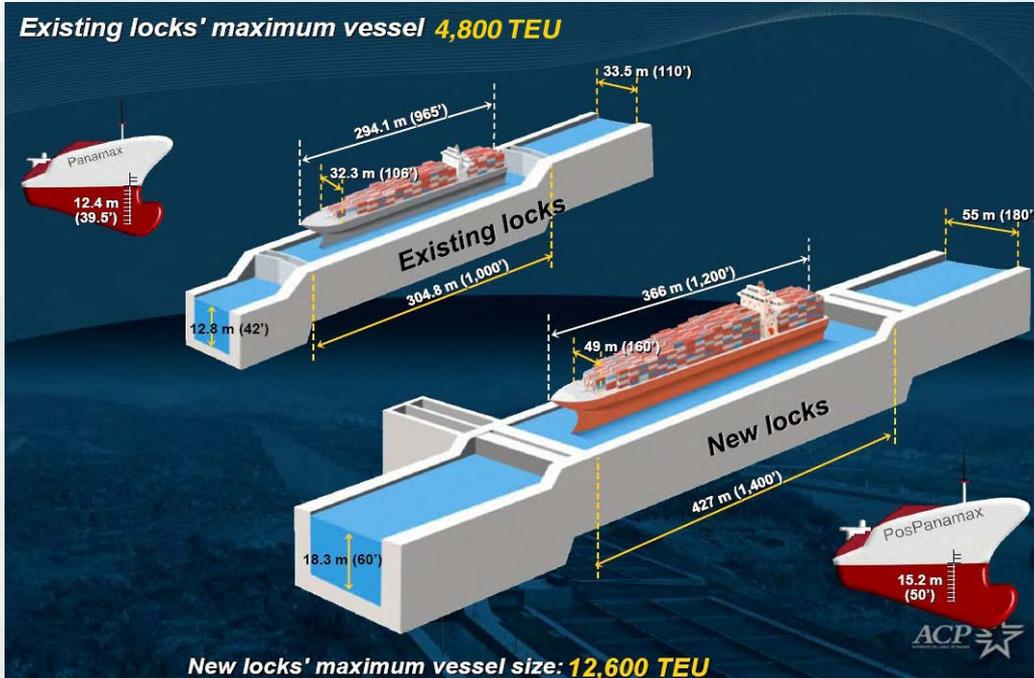
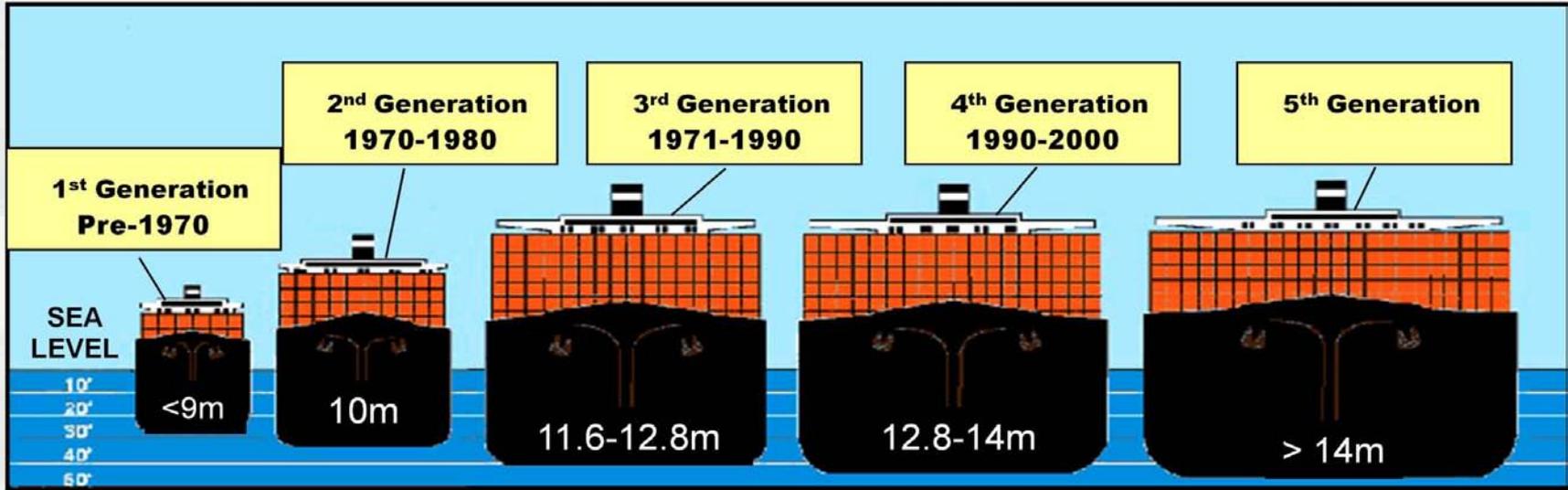
Win in the Turns



- Win in the turns - Invest in our infrastructure
- New starts - Think future water resources direction
- Use systems-based and watershed approach
- Find ways to finance the Nation's infrastructure
- Become the Nation's water resource solutioneer



We Can't Wait

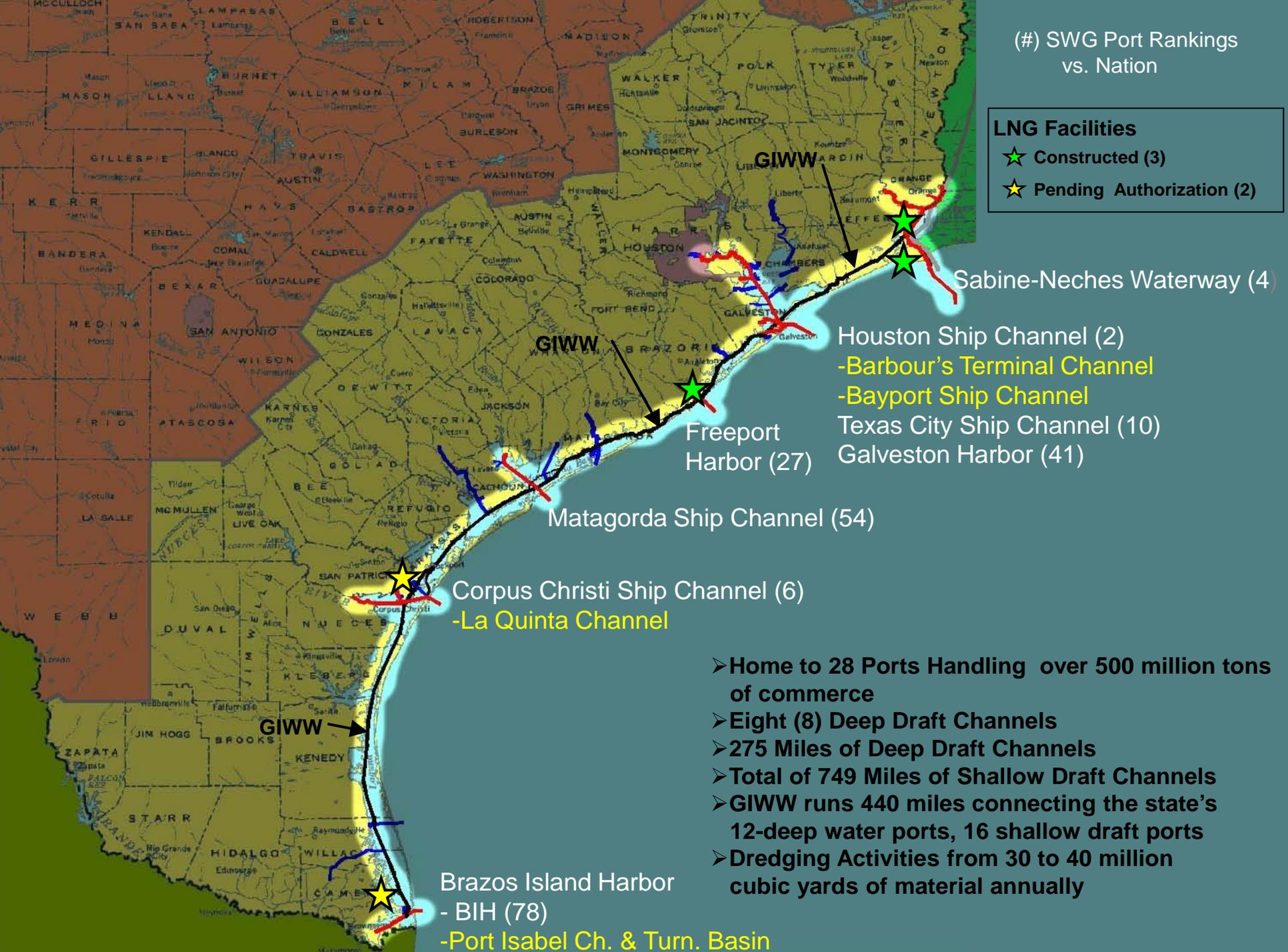


Advancing key infrastructure projects at 5 East Coast ports:

- NY / NJ
- Charleston
- Savannah
- Jacksonville
- Miami



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(#) SWG Port Rankings vs. Nation

LNG Facilities

- ★ Constructed (3)
- ☆ Pending Authorization (2)

GIWW

Sabine-Neches Waterway (4)

Houston Ship Channel (2)
 -Barbour's Terminal Channel
 -Bayport Ship Channel
 Texas City Ship Channel (10)
 Galveston Harbor (41)

Freeport Harbor (27)

Matagorda Ship Channel (54)

Corpus Christi Ship Channel (6)
 -La Quinta Channel

- Home to 28 Ports Handling over 500 million tons of commerce
- Eight (8) Deep Draft Channels
- 275 Miles of Deep Draft Channels
- Total of 749 Miles of Shallow Draft Channels
- GIWW runs 440 miles connecting the state's 12-deep water ports, 16 shallow draft ports
- Dredging Activities from 30 to 40 million cubic yards of material annually

GIWW

Brazos Island Harbor - BIH (78)

-Port Isabel Ch. & Turn. Basin

Coastal Texas Ecosystem Protection & Restoration

○ Texas coast at significant risk of damages to public safety, property, and ecological resources from storms, sea level rise and other coastal hazards.

- 18 counties home to 26% of state's population
- 4 of Nation's top 10 ports located in Texas
- Two-thirds of nation's petrochemicals produced along the Texas coast
- 64% of Texas coast is eroding at average rate of 5.9 feet/year with some areas losing 30 feet/year



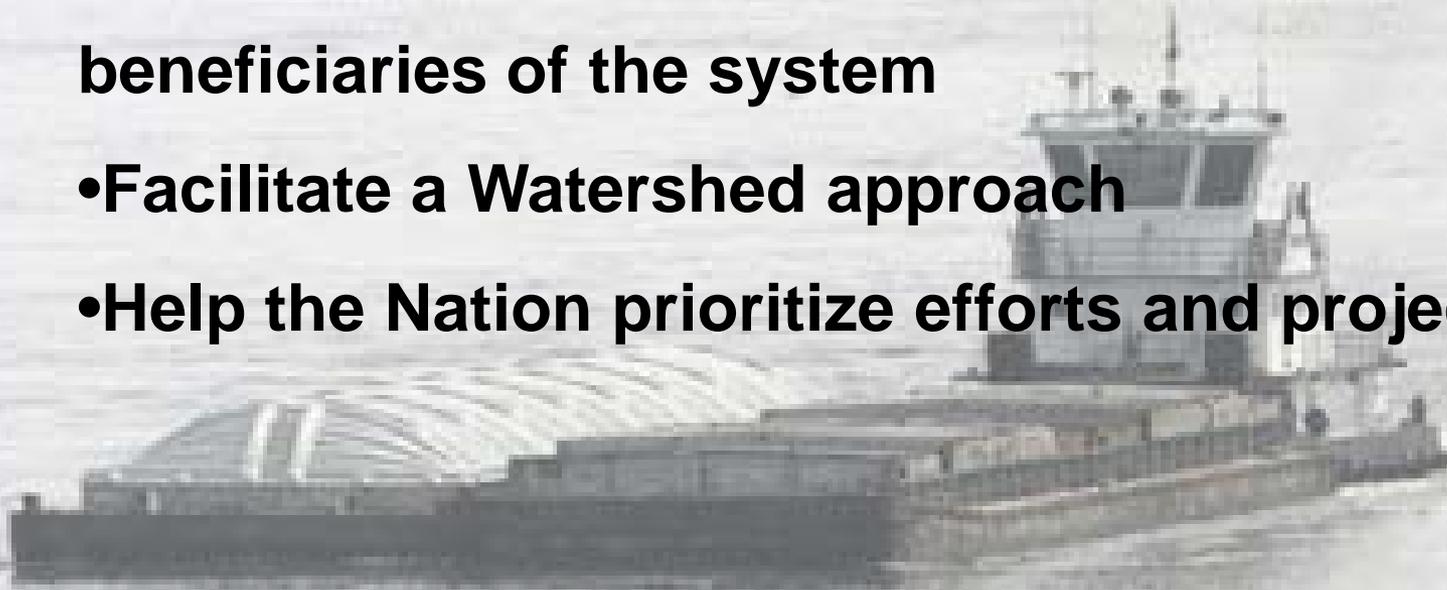
○ Study integrates: programmatic plans for flood damage reduction; storm damage protection; ecosystem restoration; risk reduction measures for damages to public safety, property and environmental resources from storms and erosion

○ Plan would provide: Basis for informed decision-making by the Federal government and non-Federal sponsors



What Can You Do?

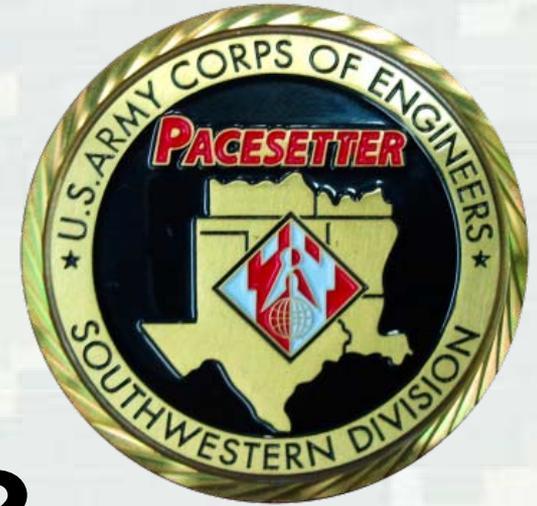
- Tell the Story
- Help us transform the Civil Works process.
- Continue to partner with stakeholders, industry and beneficiaries of the system
- Facilitate a Watershed approach
- Help the Nation prioritize efforts and projects.





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Questions?

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