

### U.S. ARMY CORPS OF ENGINEERS NAVIGATION MISSION: DREDGING OF CHANNELS AND WATERWAYS

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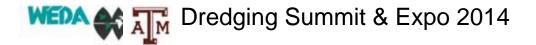
### **OVERVIEW**

### **CIVIL WORKS PROGRAM**

NAVIGATION Mission Funding Assets / Infrastructure

DREDGING PROGRAM Accomplishing the Work Stakeholder Collaboration

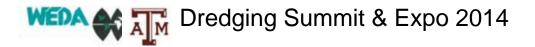
### ENVIRONMENTAL ASPECTS



U.S.ARMY

### **Civil Works Program**

- 1824 Corps Civil Works mission authorized by Congress
- 8 Civil Works Business Lines Navigation Flood Risk Management Hydropower Recreation Environmental Stewardship Water Supply Regulatory Emergency Operations
- 30% of US Gross Domestic Product (GDP) trade moves through our ports

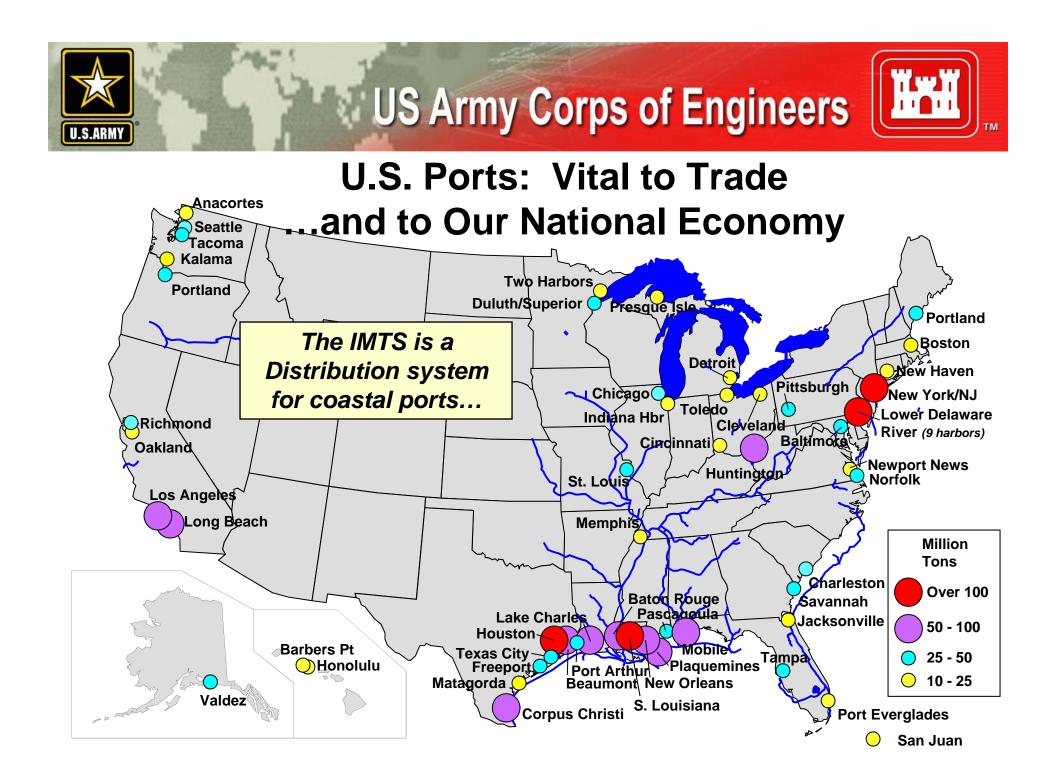


U.S.ARMY



**Corps Maintained Ports Provide Strategic Deployment Capability** Harbor Maintenance Trust Fund collects \$1.7 billion revenue

**Restoration Projects** 





WEDA

# **US Army Corps of Engineers**



#### FY 2014-15 Civil Works Program (by Business Line) (\$ Millions)

Business Line	FY 13 Budget	FY 14 Budget	FY 13-14 Change	FY 15 Budget	FY 14-15 Change
Navigation	1,747	1,884	+137	1,825	-59
Flood Risk Management	1,406	1,370	-36	1,321	-49
Environmental	607	552	-55	415	-137
Recreation	252	252	0	247	-5
Hydropower	180	210	+28	211	+1
Regulatory	205	200	-5	200	0
FUSRAP	104	104	0	100	-4
Emergency	36	35	-1	32	-3
Water Supply	6	33	+27	26	-7
Expenses	182	182	0	178	-4
OASA (CW)	5	5	0	5	0
Total	4,731	4,826	+95	4,561	-265

Dredging Summit & Expo 2014



# WRDA Trust Funds

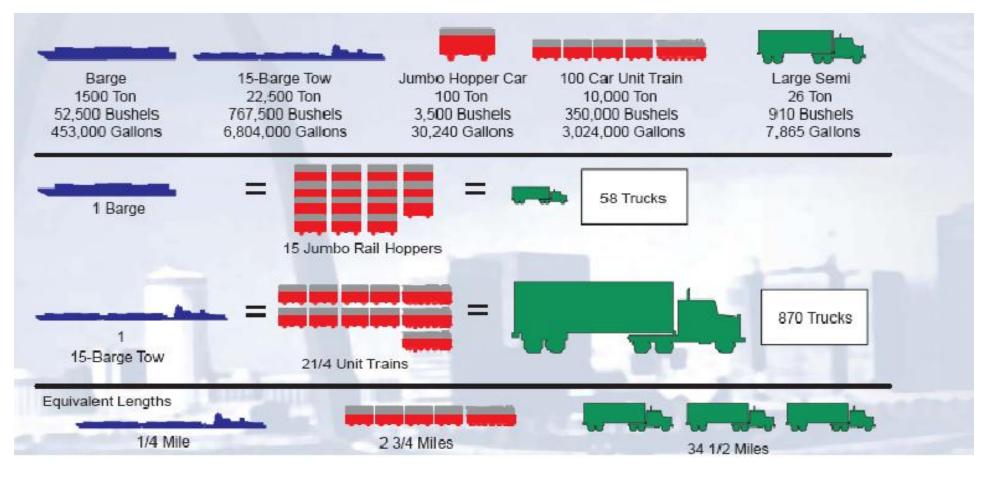
#### Harbor Maintenance Trust Fund (commodities) O&M Federal Government 0%

Harbor Maintenance TF 100%

Construction	Federal Government	40-80%
	Project Sponsors	20-60%

Inland WaterwaysTrust Fund (fuel)<br/>Federal Government100%ConstructionFederal Government50%Inland Waterways TF50%

### **The Most Efficient Mode of Freight Transportation**



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### **USACE Navigation Assets**

#### **COASTAL NAVIGATION**

**U.S.ARMY** 

1067 Navigation Projects15 lock chambers13,000 miles of channels929 navigation structures844 bridges

#### INLAND NAVIGATION

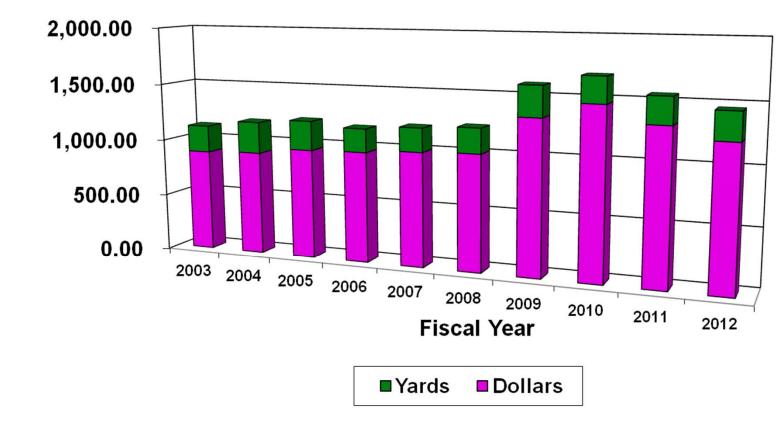
27 Inland River Systems 221 lock chambers @ 178 lock sites 12,000 miles of inland river channels Manongahe Atlantic Intracoastal Weterway



MEDA & TM Dredging Summit & Expo 2014



#### Total Dredging FY 2003-2012



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#### Distribution of Cost and Quantities (Maintenance, New Work & Urgent dredging requirements)

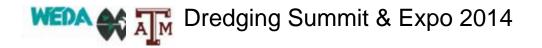
Туре	Dollars	Quantity	
Maintenance	\$796.4 million	200.1 million cubic yards	
	(65.3%)	(84.1%)	
New Work	\$362.7 million	21.8 million cubic yards	
	(29.7%)	(9.2%)	
HSW/Emergency	\$60.9 million	16.0 million cubic yards	
	(5.0%)	(6.7%)	
Total	\$1,220.1 million	237.9 million cubic yards	





### Distribution of Work (Corps and the U.S. private dredging industry)

	Dollars	Quantity	
Corps	\$150.6 million	48.2 million cubic yards	
(\$3.12/cy)	(12.3%)	(20.3%)	
Industry	\$1,069.5 million	189.7 million cubic yards	
(\$5.64/cy)	(87.7%)	(79.7%)	







#### **US Hopper Dredge Fleet**

CLASS	INDUSTRY, OWNER	CORPS, DISTRICT
MEDIUM HOPPER	Columbia, Dutra DredgingLindholm, Weeks MarineR.N. Weeks, Weeks MarineBayport, MansonNewport, MansonDodge Island, GLD&DPadre Island, GLD&D	<i>McFarland,</i> Philadelphia
LARGE HOPPER	Terrapin Island, GLD&D Liberty Island, GLD&D Stuyvesant, Dutra Dredging Glenn Edwards, Manson	Wheeler, New Orleans Essayons, Portland
SMALL HOPPER	Westport, Manson Atchafalaya, Cashman	Yaquina, Portland





# **BALANCING THE ENVIRONMENT**

Federal standard - for maintaining navigation projects...in <u>the least</u> <u>costly manner</u> while still being environmentally acceptable and technically feasible.

Beneficial Uses of Dredged Material – 95-98% of the dredged material is available as a resource (~ 225M CYs)

Dredged Material Management Plans – time, location, impacts (20-50 year ouutlook)



#### Major Protocols for Regulating Dredged Material

- 1. The Corps Dredging Regulation, 33 CFR 335-338
- 2. Rivers & Harbors Act of 1899 Section 10, permits for structures and activities in navigable waters
- 3. National Environmental Policy Act of 1969
- 4. Clean Air Act of 1970, Section 309 requires EPA review of Federal Action Agency NEPA documents
- 5. Clean Water Act -1977 (Federal Water Pollution Control Act of 1972) Title IV- Permits and Licenses, Sections 401 - 405
- 6. Marine Protection, Research & Sanctuaries Act of 1972 (Ocean Dumping Act)
- 7. Endangered Species Act of 1973, Section 7 Interagency Cooperation

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# CONCLUSIONS

The USACE Navigation program is at a crossroads.... WHY ?

- Continued constrained funding.
- Lack of access for the full use of the Harbor Maintenance Tax (HMT) revenues.
- Maximize the dredging funds received to 'move dirt'.
- The cost of preparing dredging plans and specifications, administrative support varies widely at the Districts, reduce expensive mobilization and demobilization.





# How engaged are you?

- Conduct discussions, actively participate in face-to-face meetings.
- Schedule dredging contracts early and be ready to go when funds are available.
- Share best practices and facilitate open communication.
- Advance implementation of the Navigation Strategic Vision through enabling participation in Action Teams.

### Understand the dredging processes!



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# **Questions?**

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