

# U.S. Army Corps of Engineers Navigation Update

Western Dredging Association  
Eastern Chapter Annual Meeting  
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Jeffrey A. McKee  
Chief, Navigation Branch  
Headquarters  
US Army Corps of Engineers



US Army Corps of Engineers  
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# Contact Information

□ For information regarding the Navigation Program, please contact:

- Jeff McKee, Chief, Navigation Branch
  - Telephone: 202-761-8648
  - Email: [jeffrey.a.mckee@usace.army.mil](mailto:jeffrey.a.mckee@usace.army.mil)
- Russ Tolle, Inland Navigation Program Manager, Navigation Incidents
  - Telephone: 202-761-0250
  - Email: [russ.tolle@usace.army.mil](mailto:russ.tolle@usace.army.mil)
- Joseph Wilson, Environmental Program Manager
  - Telephone: 202-761-7697
  - Email: [joseph.r.wilson@usace.army.mil](mailto:joseph.r.wilson@usace.army.mil)
- John Hicks, Coastal Navigation Program Manager, Budget
  - Telephone: 202-761-4474
  - Email: [john.hicks@usace.army.mil](mailto:john.hicks@usace.army.mil)
- Floating Plant Program Manager
  - Telephone: 202-761-1949
  - Email:
- Don Pommer, Program Manager
  - Telephone: 202-761-4709
  - Email: [donald.l.pommer@usace.army.mil](mailto:donald.l.pommer@usace.army.mil)

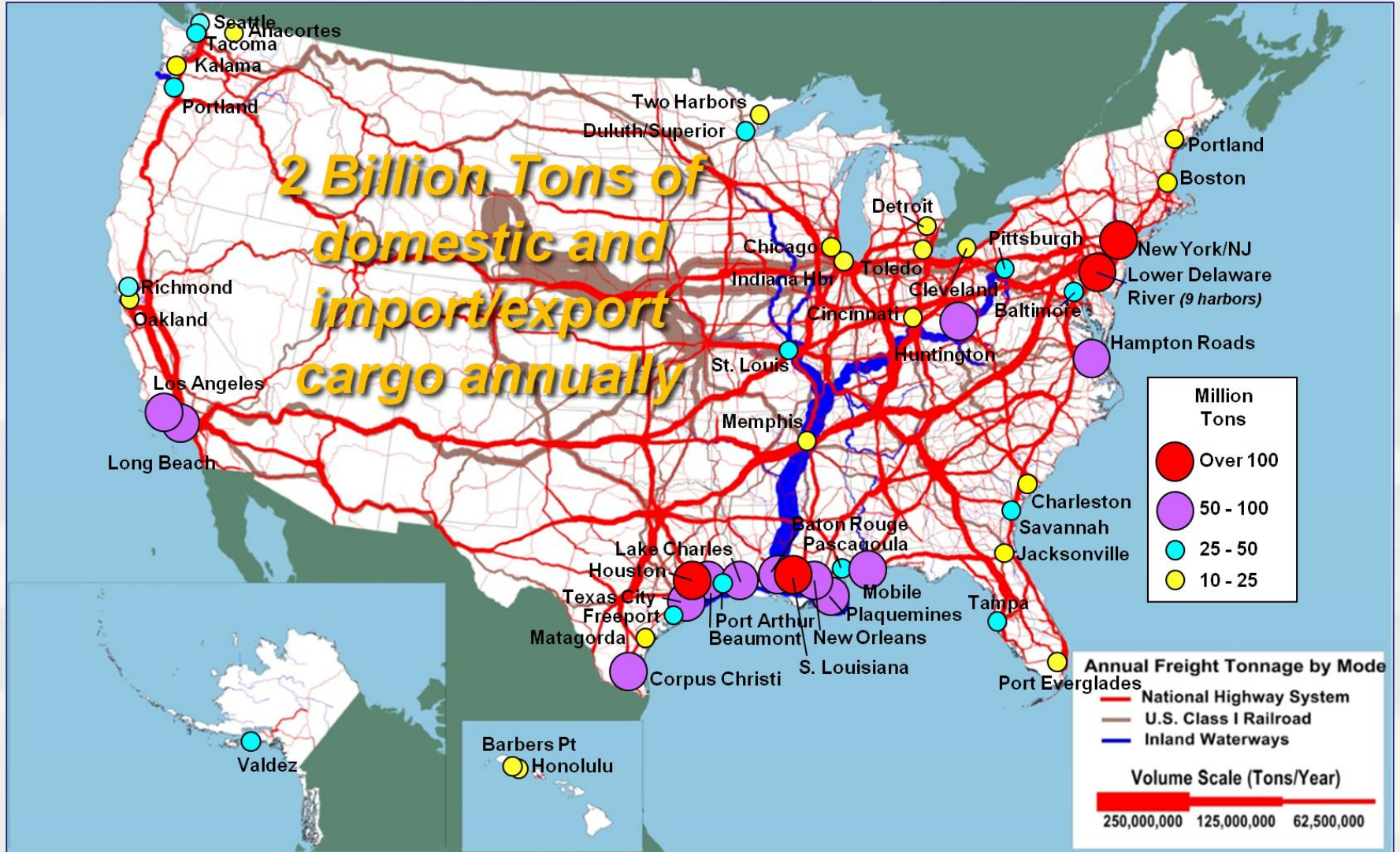


# Corps Navigation Mission

Provide safe, reliable, efficient, effective and environmentally sustainable waterborne transportation systems for movement of commerce, national security needs, and recreation.



# U.S. Ports and Inland Waterways: Vital to our National Economy



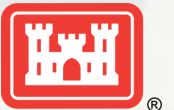
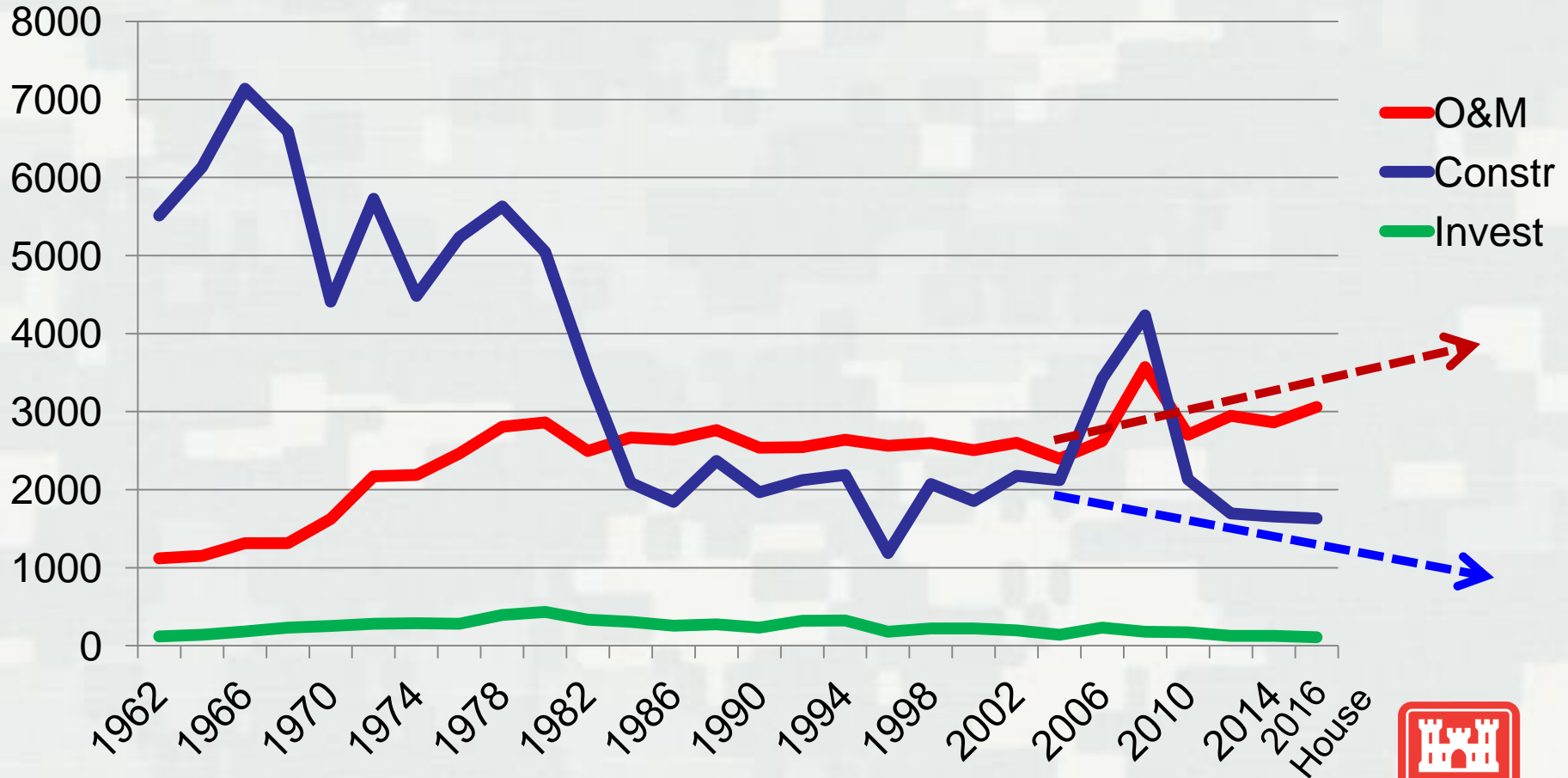
# Navigation Challenges

- Attracting and retaining knowledgeable personnel
- Constrained Funding - can't maintain authorized/constructed channel dimensions
- Low Commercial Use Projects
- Increased cost of doing business
- Aging infrastructure
- Behind in channel depths
- Environmental Issues
  - ▶ Air and water quality requirements
  - ▶ Threatened, endangered, and invasive species
  - ▶ Dredging windows



# Long Term Civil Works Funding Trends: Changing the Character of the Corps

Appropriation (\$Million in 2012 \$)



# President's Budgets

(\$millions)

Pres Bud	Coastal	Inland	Nav	CW total	Nav Percent
FY 16	\$973	\$974	\$1,947	\$4,732	41
FY 15	\$991	\$834	\$1,825	\$4,561	40
FY 14	\$980	\$904	\$1,884	\$4,826	39
FY 13	\$967	\$780	\$1,747	\$4,731	37
FY 12	\$832	\$744	\$1,575	\$4,631	34
FY 11	\$873	\$779	\$1,652	\$4,939	33
FY 10	\$971	\$796	\$1,767	\$5,125	35
FY 09	\$969	\$931	\$1,900	\$4741	40
FY 08	\$957	\$1052	\$2,009	\$4,900	41



# Navigation Budget by Account

(\$millions)

Pres Bud Fiscal Yr	Investigations	Construction	O&M	MR&T	Total Nav
<b>FY 16</b>	<b>\$25</b>	<b>\$321</b>	<b>\$1,563</b>	<b>\$38</b>	<b>\$1,947</b>
<b>FY 15</b>	<b>\$22</b>	<b>\$277</b>	<b>\$1,487</b>	<b>\$39</b>	<b>\$1,825</b>
<b>FY 14</b>	<b>\$23</b>	<b>\$345</b>	<b>\$1,461</b>	<b>\$55</b>	<b>\$1,884</b>
<b>FY 13</b>	<b>\$25</b>	<b>\$352</b>	<b>\$1,326</b>	<b>\$44</b>	<b>\$1,747</b>
<b>FY 12</b>	<b>\$18</b>	<b>\$283</b>	<b>\$1,237</b>	<b>\$37</b>	<b>\$1,575</b>
<b>FY 11</b>	<b>\$19</b>	<b>\$291</b>	<b>\$1,297</b>	<b>\$45</b>	<b>\$1,653</b>
<b>FY 10</b>	<b>\$19</b>	<b>\$288</b>	<b>\$1,411</b>	<b>\$48</b>	<b>\$1,767</b>
<b>FY 09</b>	<b>\$20</b>	<b>\$495</b>	<b>\$1,346</b>	<b>\$39</b>	<b>\$1,900</b>
<b>FY 08</b>	<b>\$19</b>	<b>\$572</b>	<b>\$1,383</b>	<b>\$35</b>	<b>\$2,009</b>





# Coastal Navigation Budget

(\$million)

Pres Bud	Investigations	Construction	O&M	MR&T	Total
<b>FY 16</b>	<b>\$18</b>	<b>\$81</b>	<b>\$872</b>	<b>\$2</b>	<b>\$973</b>
<b>FY 15</b>	<b>\$17</b>	<b>\$97</b>	<b>\$875</b>	<b>\$2</b>	<b>\$991</b>
<b>FY 14</b>	<b>\$16</b>	<b>\$108</b>	<b>\$853</b>	<b>\$2</b>	<b>\$980</b>
<b>FY13</b>	<b>\$17</b>	<b>\$151</b>	<b>\$797</b>	<b>\$2</b>	<b>\$967</b>
<b>FY12</b>	<b>\$7</b>	<b>\$117</b>	<b>\$706</b>	<b>\$2</b>	<b>\$832</b>
<b>FY11</b>	<b>\$9</b>	<b>\$115</b>	<b>\$747</b>	<b>\$2</b>	<b>\$873</b>
<b>FY10</b>	<b>\$16</b>	<b>\$119</b>	<b>\$834</b>	<b>\$2</b>	<b>\$971</b>
<b>FY09</b>	<b>\$17</b>	<b>\$188</b>	<b>\$760</b>	<b>\$4</b>	<b>\$969</b>



# Inland Navigation Budget

(\$million)

Pres Bud	Investigations	Construction	O&M	MR&T	Total Inland Nav
FY 16	\$7	\$240	\$691	\$36	\$974
FY 15	\$5	\$180	\$612	\$37	\$834
FY 14	\$7	\$237	\$608	\$53	\$904
FY13	\$8	\$201	\$529	\$42	\$780
FY12	\$11	\$166	\$531	\$35	\$743
FY11	\$10	\$176	\$550	\$43	\$779
FY10	\$3	\$170	\$577	\$47	\$796
FY09	\$3	\$307	\$586	\$35	\$931



# Additional FY 15 Funds for Navigation in CROmnibus Bill (\$millions)

■ <b>Investigations</b>	<b>\$ 15.3</b>
■ Navigation	\$ 5
■ Coastal and Deep Draft	\$ 4.1
■ Inland	\$ 4
■ Small, Remote, or Subsidence	\$ 2.2
■ <b>Construction</b>	<b>\$207</b>
■ Navigation	\$ 95
■ Inland Waterways Trust Fund	\$112
■ <b>MR&amp;T O&amp;M Dredging</b>	<b>\$ 6.4</b>



# Additional FY 15 Funds for Navigation CROmnibus Bill (\$millions)

- **O&M** **\$294.5**
  - Navigation \$ 45
  - Deep Draft Harbor & Channel \$165
  - Inland Waterways \$ 42
  - Small, Remote, or Subsidence \$ 42.5
  
- **Total Additional Navigation Funding \$523.2**



# FY 15 Navigation Appropriation by Account (\$millions)

	Investigations	Construction	O&M	MR&T	Total Nav
<b>Pres Bud</b>	<b>\$22</b>	<b>\$277</b>	<b>\$1,487</b>	<b>\$39</b>	<b>\$1,825</b>
<b>CROmnibus</b>	<b>\$37</b>	<b>\$484</b>	<b>\$1,782</b>	<b>\$45</b>	<b>\$2,348</b>
<b>Difference</b>	<b>\$15</b>	<b>\$207</b>	<b>\$295</b>	<b>\$6</b>	<b>\$523</b>

Complete project listings at:

<http://www.usace.army.mil/Missions/CivilWorks/Budget.aspx>



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# Additional FY 16 Funds for Navigation in Approps Bills (\$millions)

	House	Senate
▪ <b>Investigations</b>	\$ 4	\$ 11.5
▪ Navigation	\$ 4	\$ 1
▪ Coastal and Deep Draft	\$ -	\$ 5
▪ Inland	\$ -	\$ 0.5
▪ Small, Remote, Subsidence	\$ -	\$ 1.2
▪ Remaining Items	\$ -	\$ 3.8
▪ <b>Construction</b>	<b>\$157.5</b>	<b>\$220.9</b>
▪ Navigation	\$ 49.5	\$112.3
▪ Inland Waterways TF	\$108	\$108.6
▪ <b>MR&amp;T O&amp;M Dredging</b>	<b>\$ 6</b>	<b>\$ 10.1</b>



## Additional FY 16 Funds for Navigation Approps Bill (\$millions)

	<b>House</b>	<b>Senate</b>
<b>▪ O&amp;M</b>	<b>\$318.5</b>	<b>\$314</b>
▪ Navigation	\$ 0	\$ 33.3
▪ Deep Draft Harbor & Channel	\$234	\$135
▪ Inland Waterways	\$ 42	\$ 45
▪ Small, Remote, Subsidence	\$ 42.5	\$ 50
▪ Donor & Energy Ports	\$ 0	\$ 50
▪ Remaining Items	\$ 0	\$ 0.7
<b>▪ Total Additional Funding</b>	<b>\$486</b>	<b>\$556.5</b>
<b>▪ Additional Shore Protection</b>	<b>\$ 45</b>	<b>\$ 0</b>



# FY 2016 Energy & Water Development Appropriations Bill Navigation Provisions

## ■ House

- ▶ No New Starts
- ▶ Provides estimated \$1.178 billion for HMTF projects
- ▶ Additional funds to be allocated only in accordance with direction provided in the Bill.
- ▶ Study on dredged material placement policies
- ▶ Hopper Dredges – continue “use industry first” and schedule Ready Reserve dredges only for minimum training days.





# FY 2016 Energy & Water Development Appropriations Bill Navigation Provisions

- Senate
  - ▶ 10 new feasibility and 6 new construction starts
  - ▶ Economic impact study of inland harbors
  - ▶ Mobile Harbor GRR cost-sharing 75/25
  - ▶ Upper Miss River & Illinois Waterway System economic update
  - ▶ Expedite review of export terminals
  - ▶ Restrictions on open water placement in Lake Erie
  - ▶ Expedite review of Bayport Flare – Houston Ship Chan
  - ▶ Formula for allocation to Donor Ports



# E-Hydro

- Ensure timely and consistent availability of geospatial data on coastal navigation channels, with a uniform method of dissemination to other offices within USACE, other Federal partners, and navigation stakeholders.
- 15 Mar 2016 – Framework for all Moderate and High Use coastal channels.
- 15 Jun 2016 – Latest Moderate and High Use surveys entered
- 1 Aug 2016 – Start Low Use Channel Framework
- 31 Dec 2016 – Last 5 years of Moderate and High Use channel surveys entered.



# Federal Standard - HQ Clarification Memo

- Issued 21 October 2015 by Mr. Steve Stockton, Director of Civil Works.
- Describes the application of USACE regulations to federal maintenance dredging for federal navigation channels and explains policy implementation.
- Provides guidance for maintenance of USACE federal dredging projects.
- Provides remedies to differences between federal dredging regulations and interactions with state and non-federal agencies.
- Compliance is mandatory unless prior coordination with MSC and HQUSACE and exemption granted.



# Federal Standard Key Points

- Federal funds for maintenance of federal channels are limited and must be spent responsibly and carefully.
- Budgets essentially flat for last 40 years. Increases in appropriations have covered some of the costs of inflation and deferred maintenance. Few channels are maintained to authorized depths and widths.
- State's desired dredging methods, placement locations or other requirements exceeding the Federal Standard can be accommodated to "the maximum extent practicable" as long as the non-federal agency agrees to pay any difference between the Federal Standard and the non-federal entity requirements.



# Navigation Research, Development & Technology Portfolio

Dredging Operations and Environmental Research

Dr. Todd Bridges

Coastal Inlets Research Program

Dr. Julie Rosati

Navigation Structures

Navigation Systems

Mr. Eddie Wiggins

Regional Sediment Management

Ms. Linda Lillycrop

Monitoring Completed Navigation Projects

Dr. Lyn Hales

Dredging Operations Technical Support

Ms. Cynthia Banks

Dredging Innovations Group

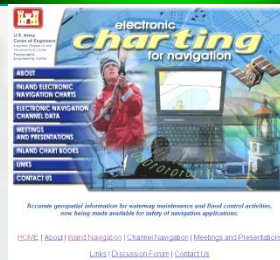
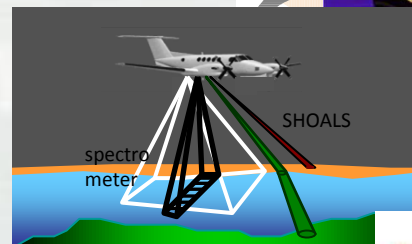
Ms. Jennifer Gerhard-Smith

Inland Electronic Navigation Charts

Dr. Bob Mann / Ms. Denise LaDue

National Coastal Mapping Program

Ms. Jennifer Wozencraft



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# Summary

- Navigation funding is an essential component for the Nation's Global trade
- America's Marine Transportation System infrastructure must become a National priority in order to get adequate funding
- Need to speak with one voice
- Thank Congress and Stakeholders for support
- Current business model is not sustainable – need public/private investment and/or divestiture
- Navigation funding is key to Economy, Jobs, and Exports!

