

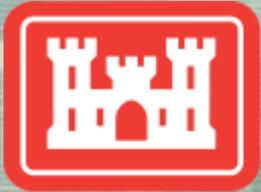
# E-Navigation Implementation Status

**ERDC**  
Engineer Research and  
Development Center

**W. Jeff Lillycrop**

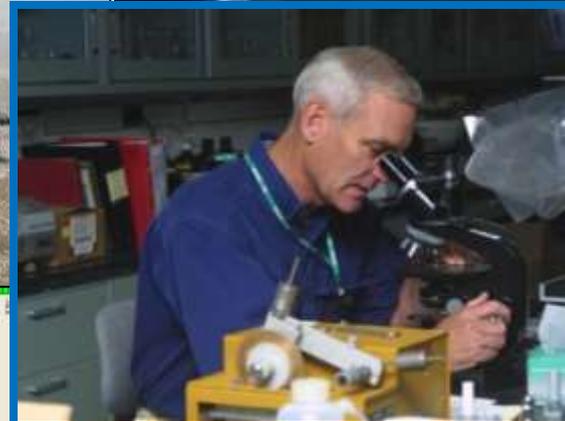
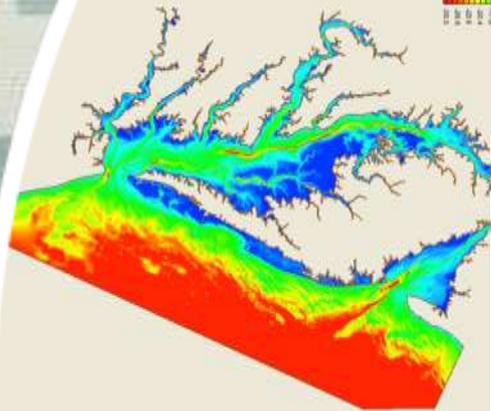
Technical Director  
Civil Works RD&T

*Advancing Science and Technology  
in Support of Sustainable Solutions to  
America's Water Resources Needs*



®

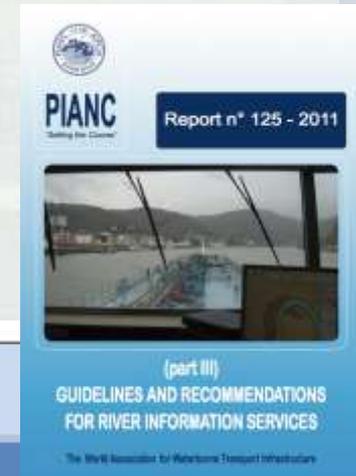
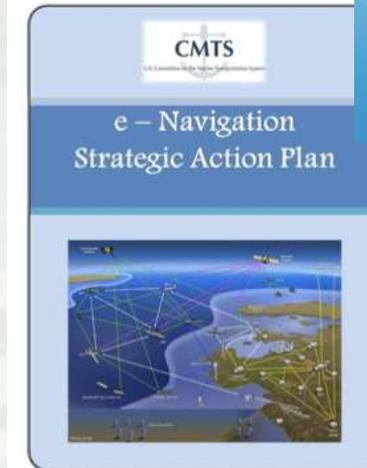
US Army Corps of Engineers  
BUILDING STRONG®



# U.S. e-Navigation Implementation

*“e-Navigation is the **harmonised collection, integration, exchange, presentation and analysis of maritime information onboard and ashore by electronic means to enhance berth to berth navigation and related services, for safety and security at sea and protection of the marine environment**”*

- PIANC Working Group 125
- IALA & IMO
  
- CMTS e-Navigation IAT
- PIANC Working Group 156
  - ▶ with US Subgroup



COURTESY IALA  
PIANC 125  
REPORT N° 125 - 2011  
GUIDELINES AND RECOMMENDATIONS  
FOR RIVER INFORMATION SERVICES

The document provides for certain responsibilities for the development of RINS capabilities. Specific measures will be taken to ensure the quality of the information provided and to ensure that the information is reliable and that the information is available to the user in a timely manner. The information will be available to the user in a timely manner and will be available to the user in a timely manner.

1.1. Overview  
The primary objective of this report is to provide a framework for the development of RINS capabilities. The report will provide a framework for the development of RINS capabilities and will provide a framework for the development of RINS capabilities.

1.2. Objectives  
The primary objective of this report is to provide a framework for the development of RINS capabilities. The report will provide a framework for the development of RINS capabilities and will provide a framework for the development of RINS capabilities.

1.3. Scope  
The primary objective of this report is to provide a framework for the development of RINS capabilities. The report will provide a framework for the development of RINS capabilities and will provide a framework for the development of RINS capabilities.



# USACE Navigation Enterprise Data & Tool Access



<http://navigation.usace.army.mil>

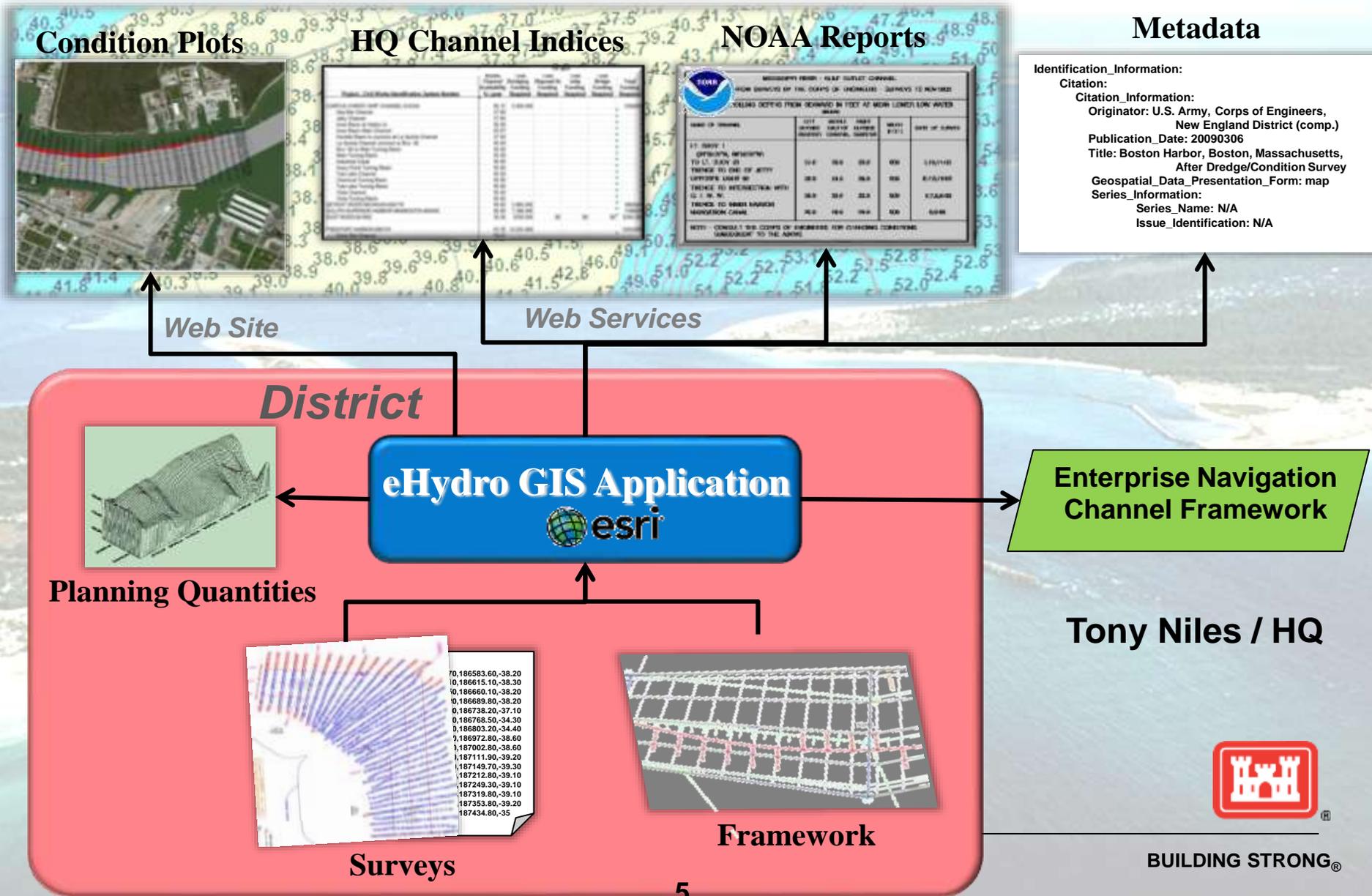


BUILDING STRONG®



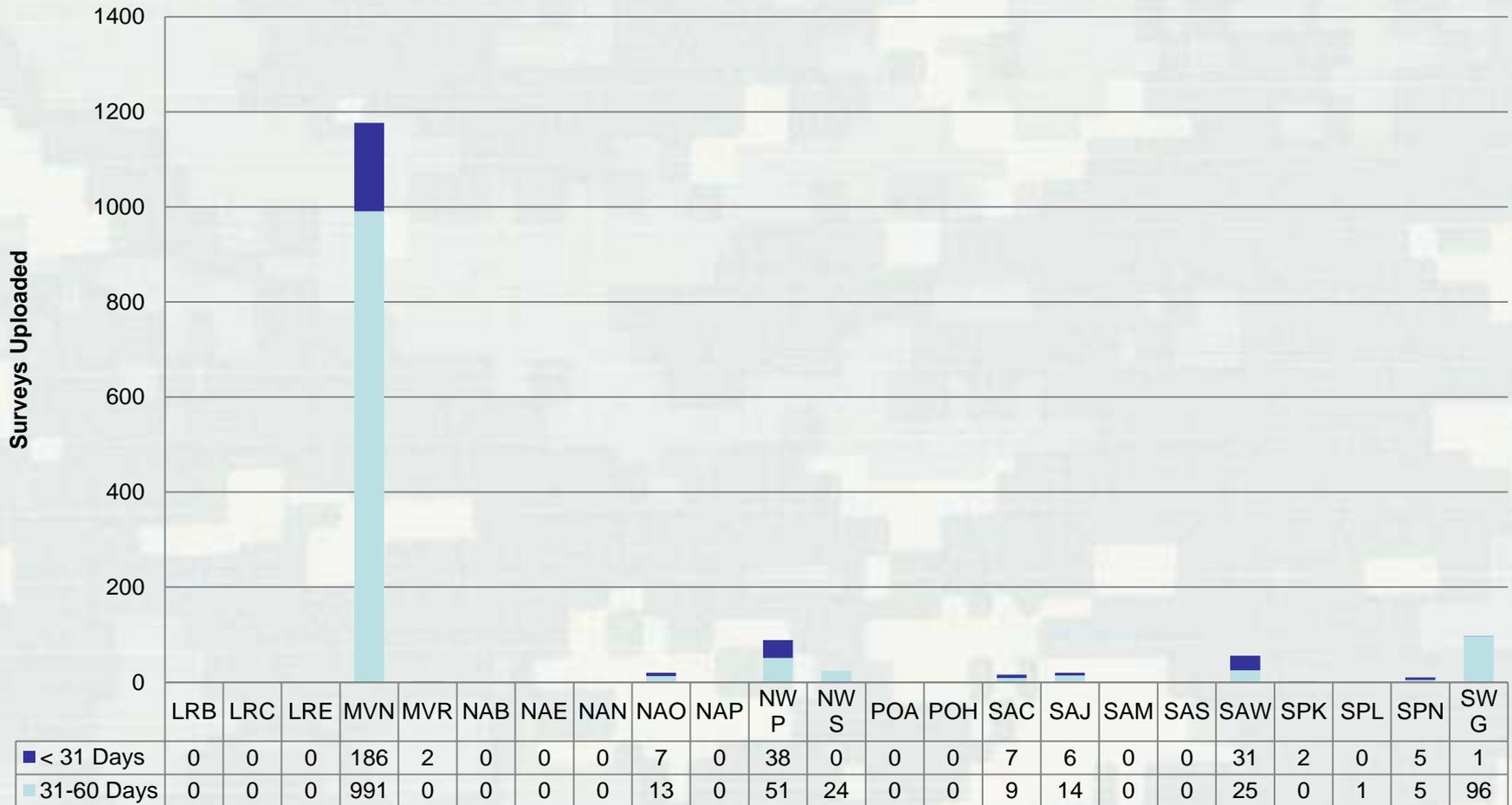
*Innovative solutions for a safer, better world*

# eHydro Application and Reporting Process



# Districts now actively using eHydro

## eHydro Participation as of 25 August 2015



# Future eHydro Tasks

## Coastal

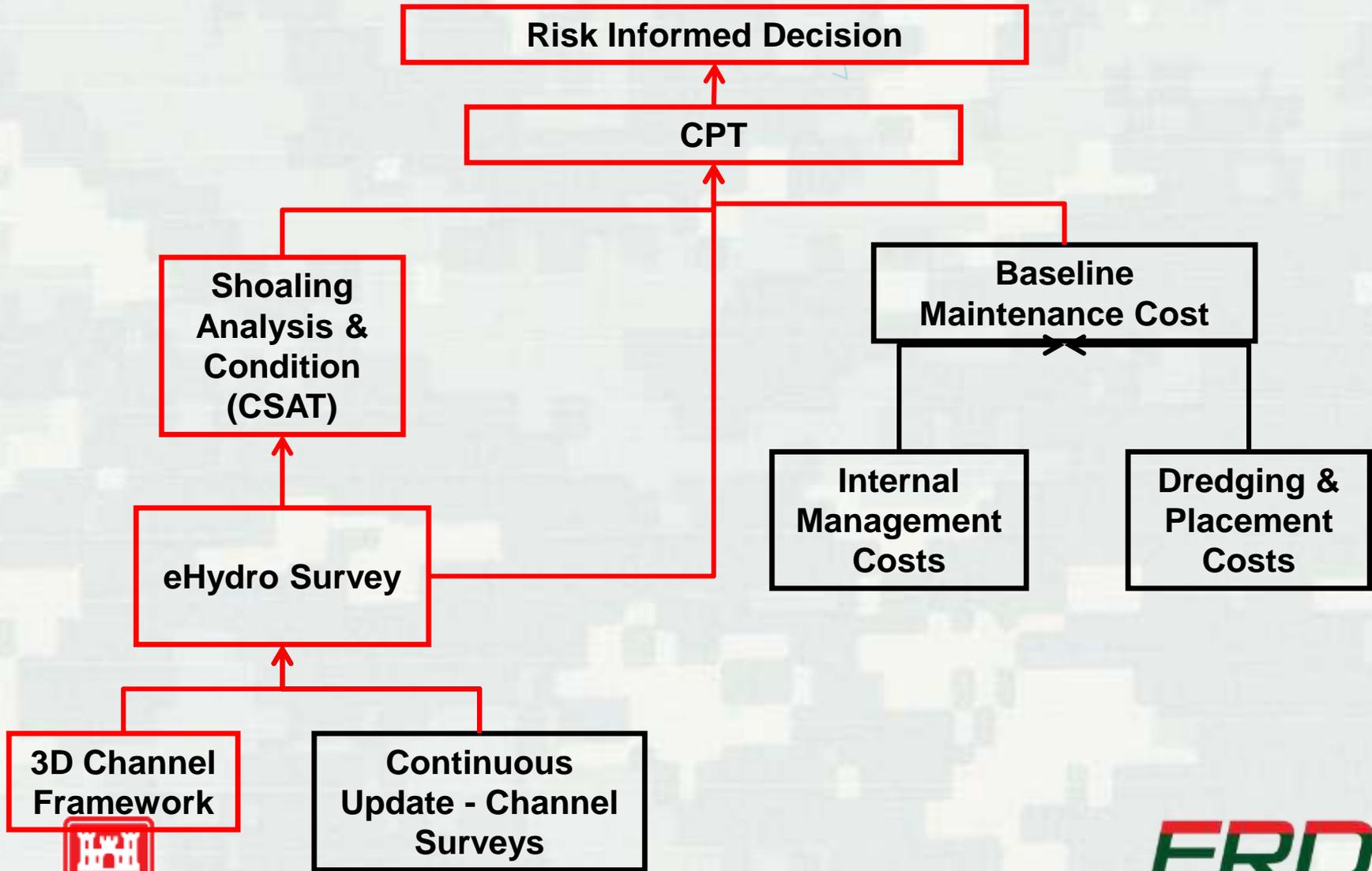
- Nav Site to allow downloads of all available, uploaded data
- Search Capabilities
- Programmatically build direct links to a channel project
- System Integrations in CPN, RMS, etc.

## Inland

- Implement in first ½ FY16
  - ▶ Fishbone
  - ▶ IENC Overlays
- Continued coordination with all Inland districts
- Coordination with USCG



# AM Nav Channel Work Flow



# USACE Navigation Enterprise Data & Tool Access



<http://navigation.usace.army.mil>



BUILDING STRONG®



*Innovative solutions for a safer, better world*

# Questions ???



BUILDING STRONG®



*Innovative solutions for a safer, better world*