

U.S. Department of
Homeland Security
**United States
Coast Guard**



INLAND WATERWAYS CONFERENCE 2015



Marine Transportation Systems CG-5PW

Office of Navigation Systems (CG-NAV)



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2014 Year in Review:

- ✓ **Held 11 Joint NOAA/USACE/USCG Listening Sessions**
- ✓ **Established 147 AIS-ATON (34 Virtual – 113 Synthetic)**
- ✓ **Developed Interim Guidance for use of AIS-ATON**
- ✓ **Began Development of S57 ATON & Hydrographic Survey Data exchange between NOAA/USACE/USCG**
- ✓ **Completed Development of XML Light List Data Exchange with NOAA**
- ✓ **Began Posting ATON Discrepancy Data in XML on the NAVCEN Website**



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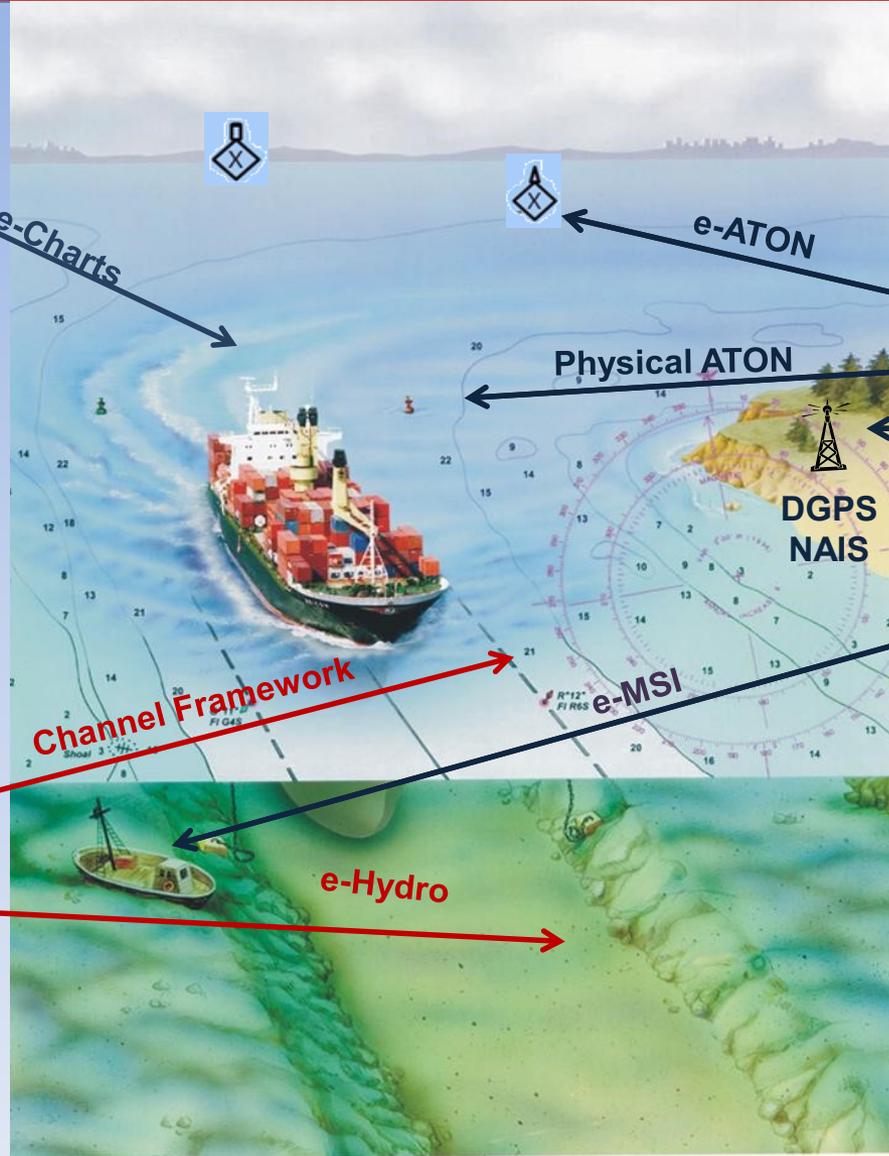


The ENAV Trident



PORTS | Weather
ENC | RNC | POD
Tides & Currents
Hydrographic Survey

e-Charts



e-ATON

Physical ATON

DGPS
NAIS

Channel Framework

e-MSI

e-Hydro



NAIS
Light List
Navigation Rules
Local Notice to Mariners
Urgent Marine Information
Broadcasts

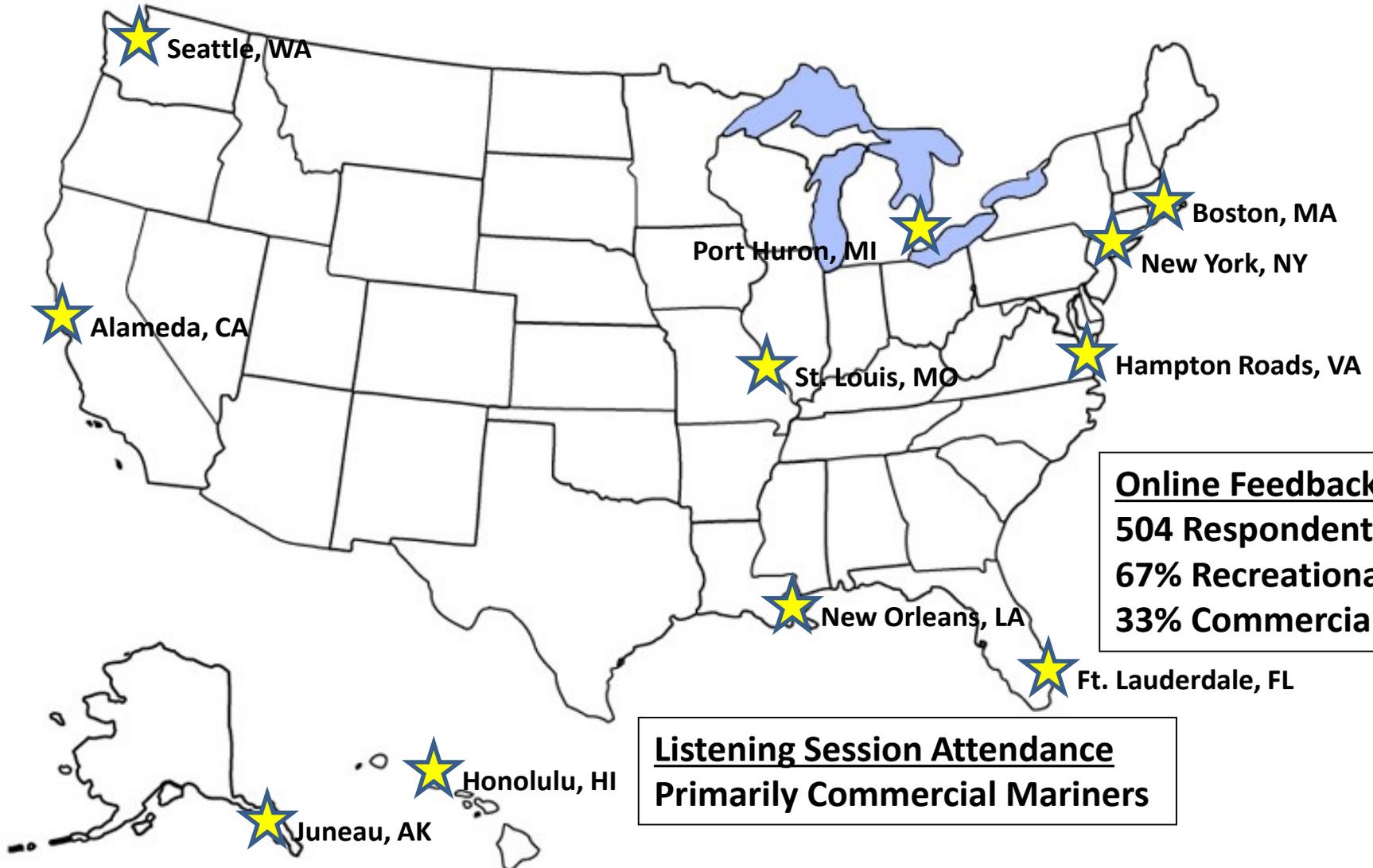


IENC
Chart Booklets
Hydrographic Surveys

Shared Waterway Responsibility



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Online Feedback
504 Respondents
67% Recreational
33% Commercial

Listening Session Attendance
Primarily Commercial Mariners



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United States Aids to Navigation System (USATONS)

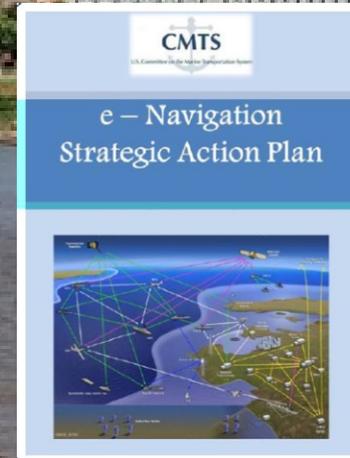
“The primary objective of the USATONS is to mitigate transit risks to promote the safe, economic, and efficient movement of military, commercial, and other vessels by assisting navigators with determining their position, a safe course, and warning them of dangers and obstructions.”



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“The ultimate goal of e-Navigation efforts in the U.S. is to use timely and reliable information to make the U.S. Marine Transportation System operate better.”



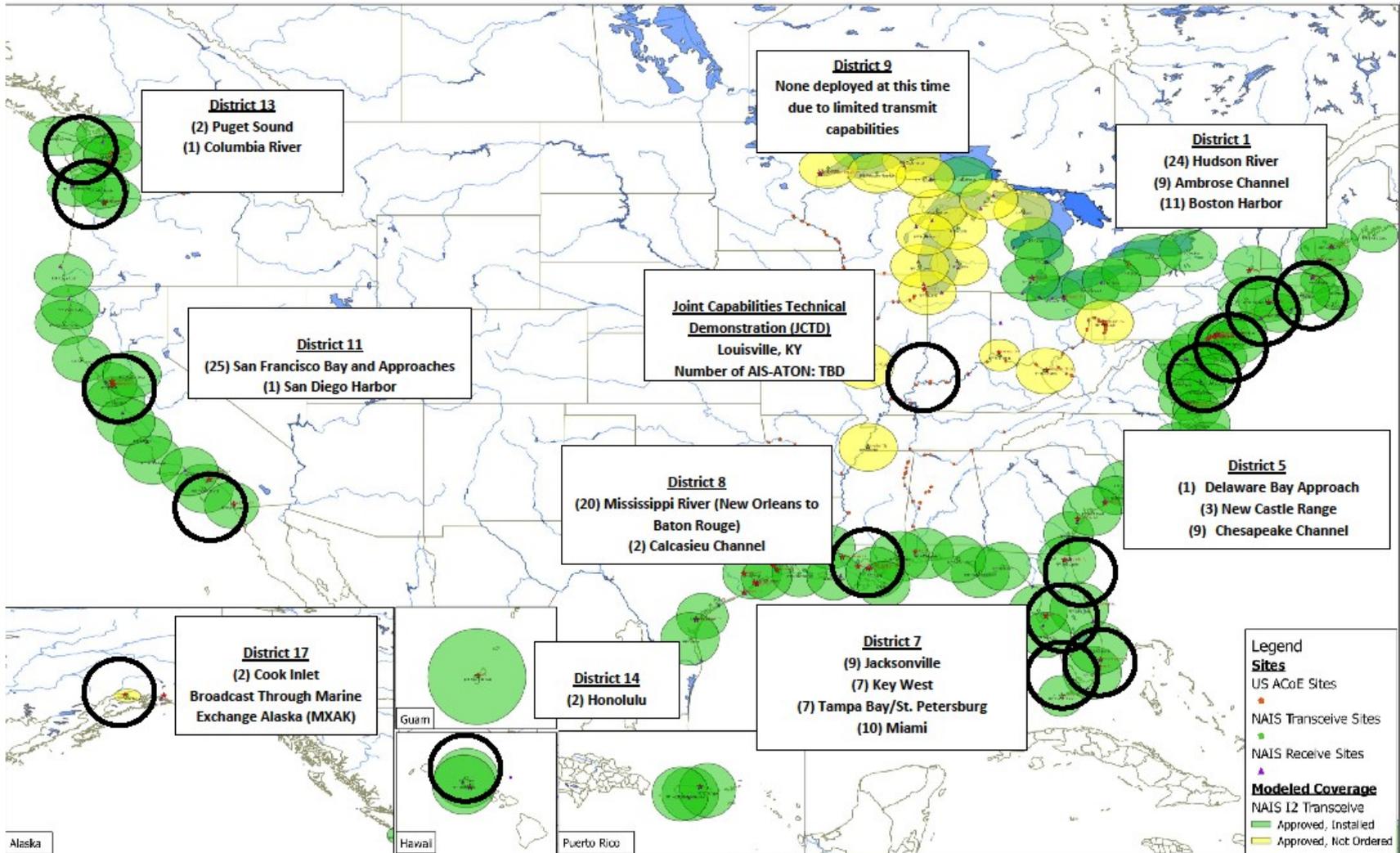
“The U.S. vision for e-Navigation is to establish a framework that enables the transfer of data between and among ships and shore facilities, and that integrates and transforms that data into decision and action information.”



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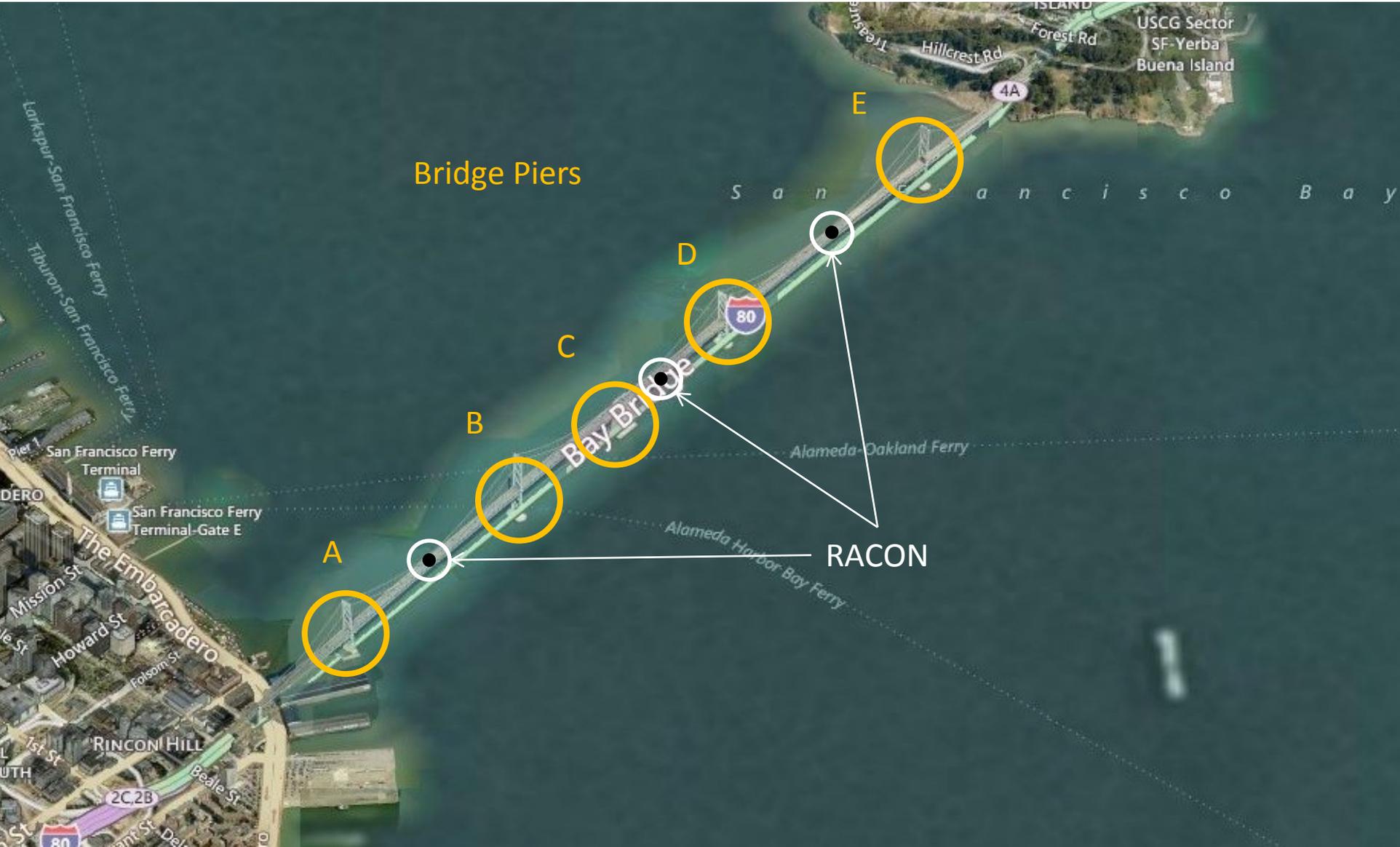


Nationwide AIS Towers and Current AIS -ATON





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eATON provides greater
visibility & AIS provides a
constant bearing & range



RACONs





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2015 Goals:

- ✓ **Begin S57 ATON & Hydro Data Exchange**
- ✓ **Continue to Establish AIS-ATON**
- ✓ **Continue to Develop NAIS delivery Capability of AIS-ASMs**
- ✓ **Develop Web Based MSI delivery**
- ✓ **Continue to Develop MSI products in S57,XML, KML, etc Formats**
- ✓ **Deploy Next-Gen Buoy Layer Technologies**
- ✓ **Conduct Joint Technical Demonstration on Ohio River with USACE**



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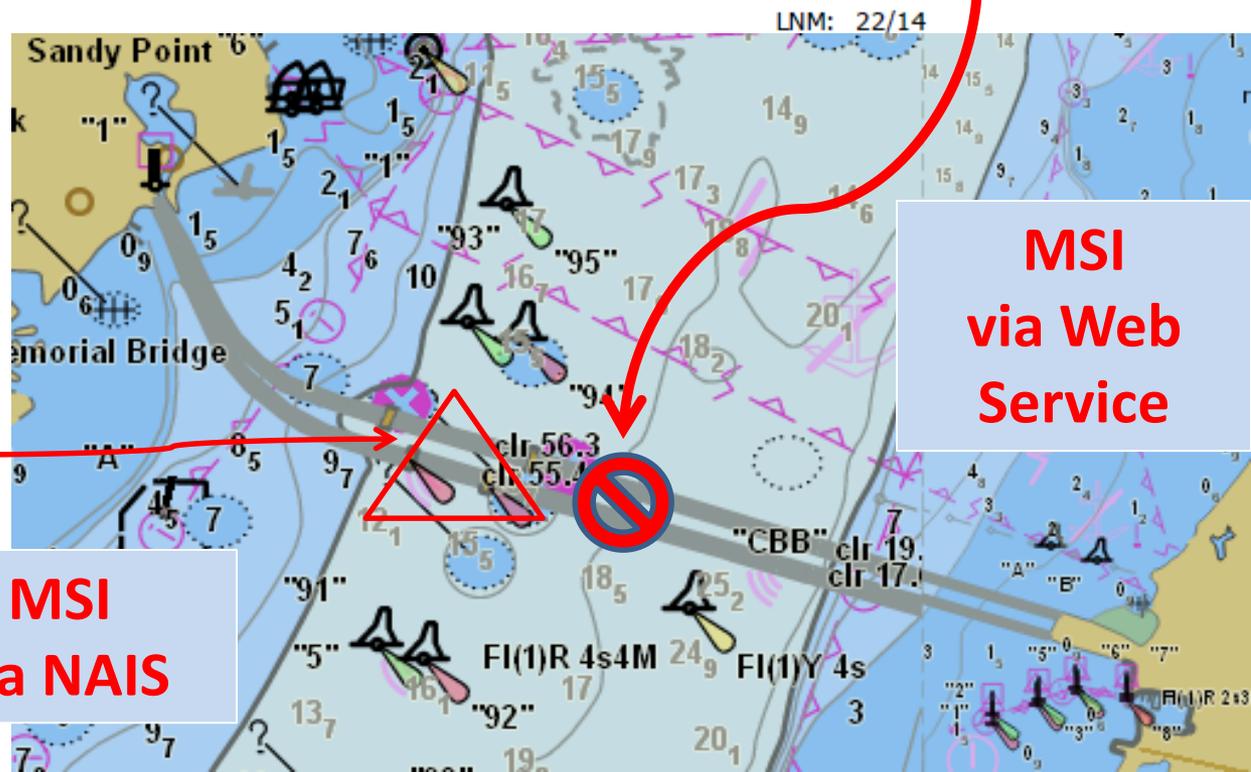
Local Notice to Mariners (PDF) via USCG NAVCEN Web Page

MD – WILLIAM PRESTON LANE JR MEMORIAL BRIDGE – BRIDGE INSPECTIONS AND PAINTING

Mariners are advised that Blastech Enterprises, Inc., is planning to conduct painting on the Westbound span of the William P. Lane, Jr. Memorial (Chesapeake Bay Bridges) Bridges (US-50/301), across the Chesapeake Bay, between Sandy Point, Maryland and Kent Island, Maryland, from May 28, 2014, through December 31, 2014. Work is expected to occur seven days per week, from 7 a.m. to 7 p.m. The contractor will use a 238' x 52' x 12' barge which will be moored immediately east of the East Tower (Pier #39, position 38-59-27.30 N Lat, 076-59-02.3" W Lon) and will be held in place by four 10,000 pound anchors placed approximately 500' and 30 degrees from each corner of the barge. Interested mariners can contact Mr. Theo Mamouzels via telephone at 727-744-8866, or can contact the U.S. Coast Guard Sector Baltimore Command Center at 410-576-2693. Chart 12270

Broadcast Notice to Mariners
via VHF Radio Marine Band
Broadcast

“The Navigation Lights on
William P. Lane Bridge have been
reported to be extinguished.”



**MSI
via Web
Service**

**MSI
via NAIS**



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USCG Buoy Layer:

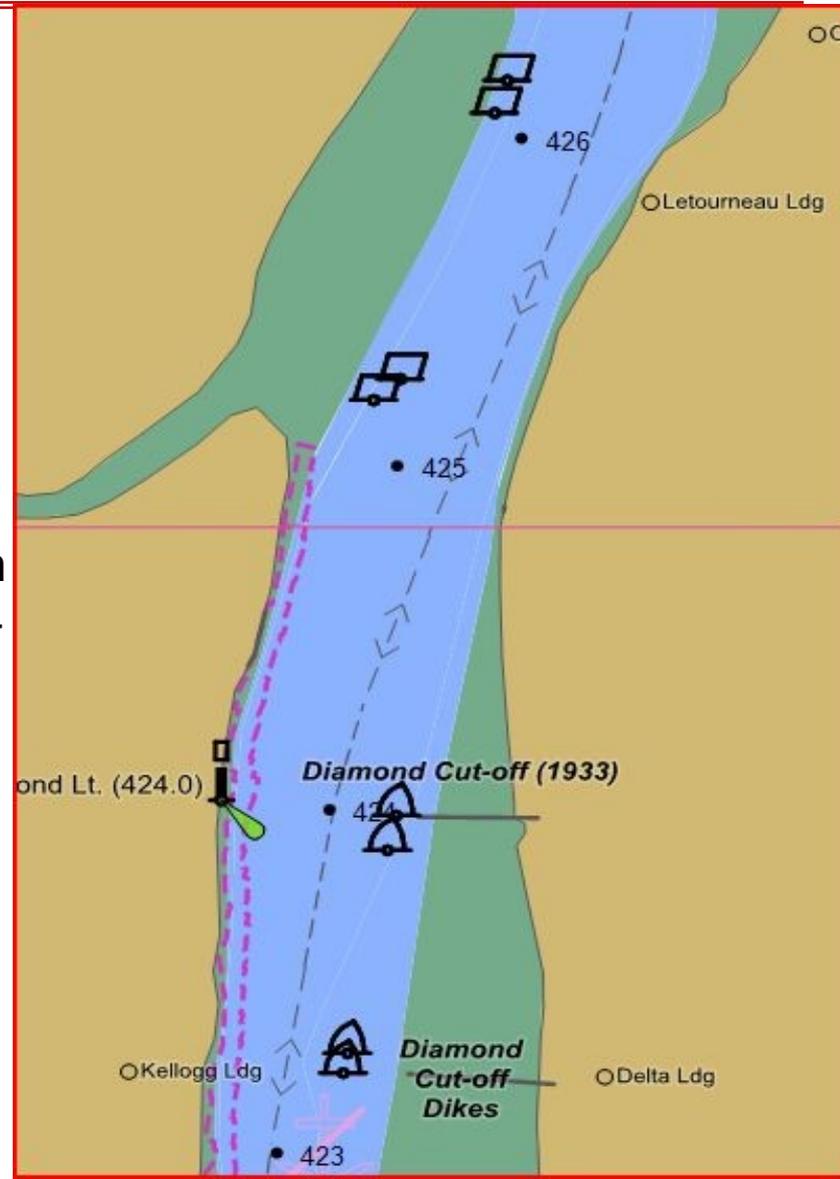
The Good: It's what we've got today!

The Bad: Is it all bad? Is an 80% solution Bad?

The Ugly: Yep! We displayed our weakness.
(duplicate buoys & blank areas)

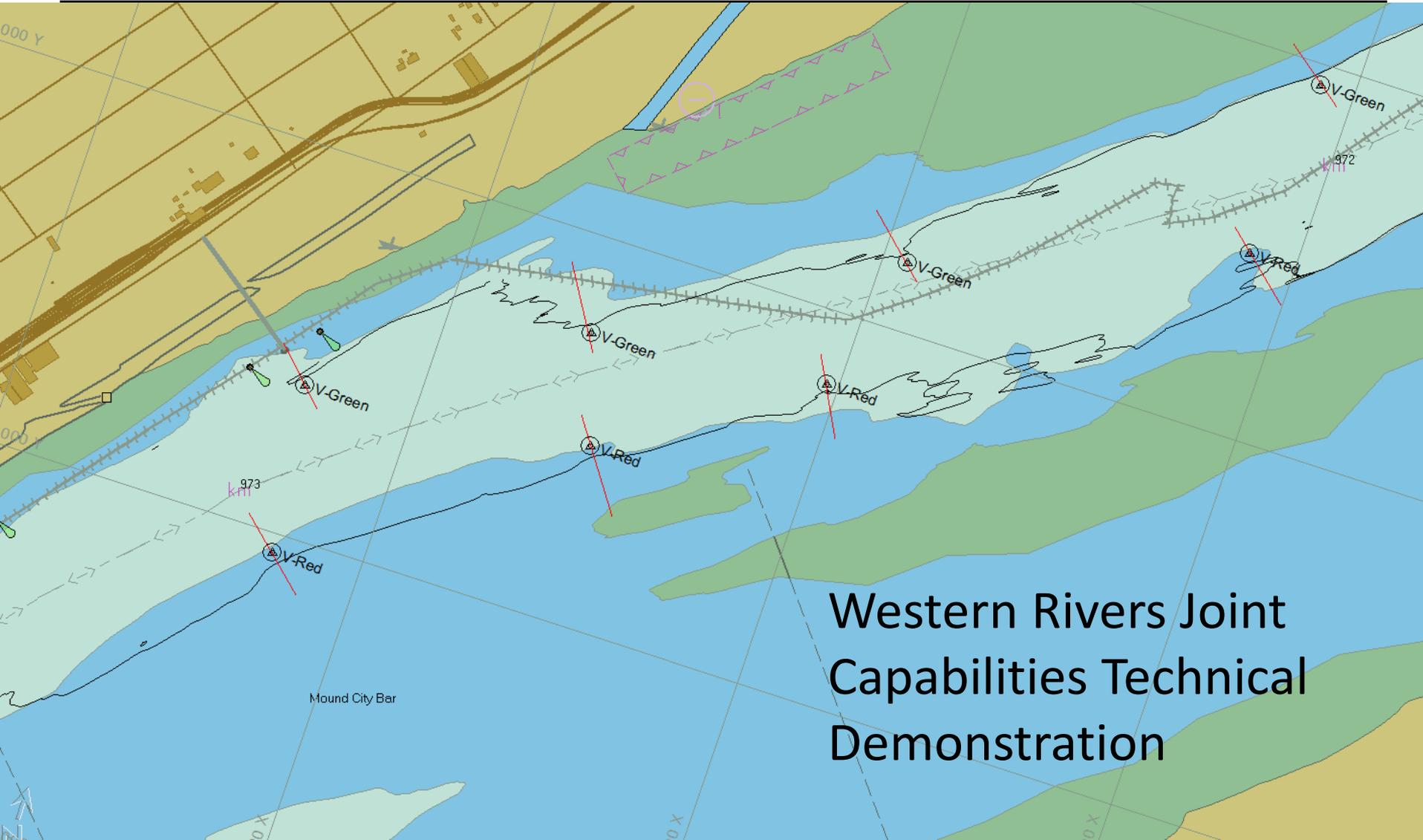
What's Next?

- The Official USCG Database, ATONIS as been expanded to include Western River ATON Data – Software Released Jan 2015.
- Western River ATON Positioning (Inland ECS) deployment to begin in February 2015.





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Western Rivers Joint
Capabilities Technical
Demonstration



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Questions?

