



Marine Board Focus Session

NAV 2025

“ATON and MSI for the 21st Century”

Captain Scott Smith



Critical Elements:

- Stakeholder Engagement Throughout
- Balance of Technology and Cost



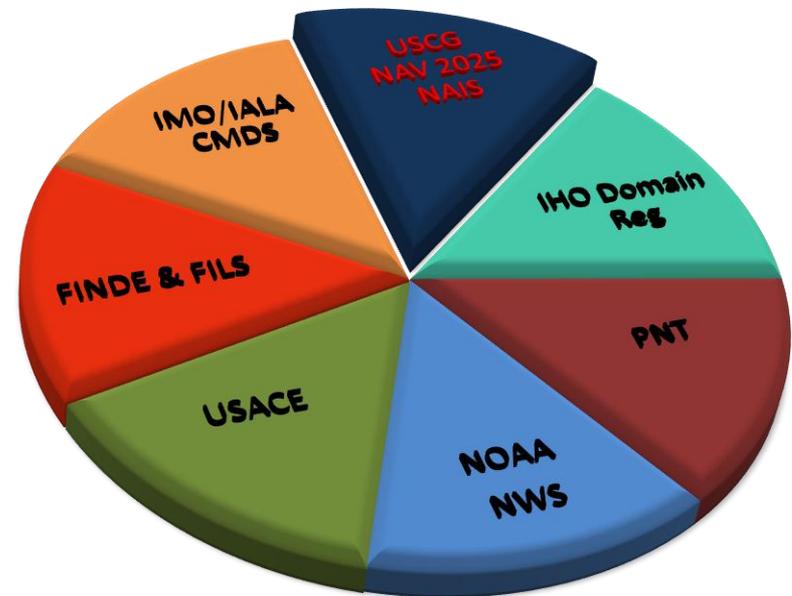
US eNAV



NAV 2025's eATON and eMSI are components of the US e-NAV Implementation Strategy

An element of the NAV 2025 Initiative is the optimization of the US ATON System.

NAV 2025 seeks to find balance between physical & eATON while maintaining expectable levels of risk and improve overall system resiliency.





NAV 2025



- ATON Optimization
- Levels of Service
- Risk Analysis and Management
- Improved Marine Safety Information Delivery





NAV 2025



•ATON Optimization

- Maximize current technology: LEDs, etc
- Reduce Seasonal Workload
- Develop Environmental Friendly Mooring Systems
- Reduce Shore side Infrastructure
- Incorporate eATON into system, Safe Water Marks, emergent wrecks, etc
- Determine need for Differential GPS correction





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•Level of Service(s)

- Determine proper federal service/investment in each waterway segment
 - Sea Coast System
 - Low Use Commercial Waterways
 - Recreational Only Waterways within State waters
 - Eliminate marking for single user waterways
 - Eliminate marking of shallow, unsafe waterways



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•Risk Analysis and Management

- Develop Interactive Visualization and Risk Analysis Tool
 - Data Mining both internal and external
 - USCG – IATONIS, NAIS
 - USACE – Hydro, Vessel Cargo Data
 - NOAA – Environmental info
 - Incorporate optimization of ATON
 - Incorporate IALA's Waterway Risk Assessment Tool (I-WRAP)
 - Incorporate User Input
 - Provide Waterway Managers with Risk Management Tool
 - Provide Waterways Managers with Operational Assessment Tool
 - Provide Program Managers with Resource Requirements Tool



NAV 2025



• Improved Marine Safety Info Delivery

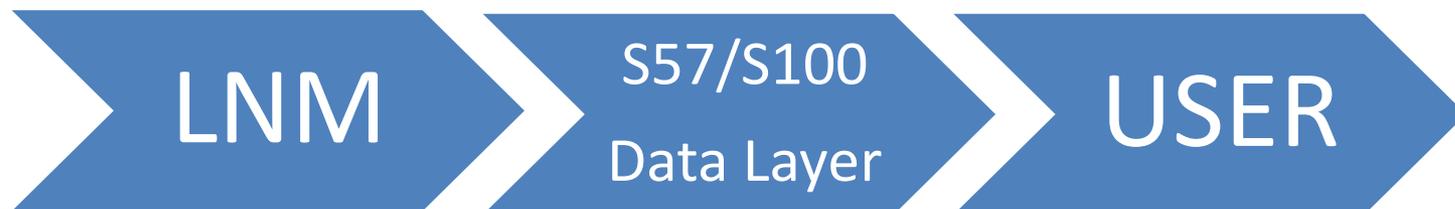
- eMSI - Electronic delivery methods
- Real time notification through AIS



Analog

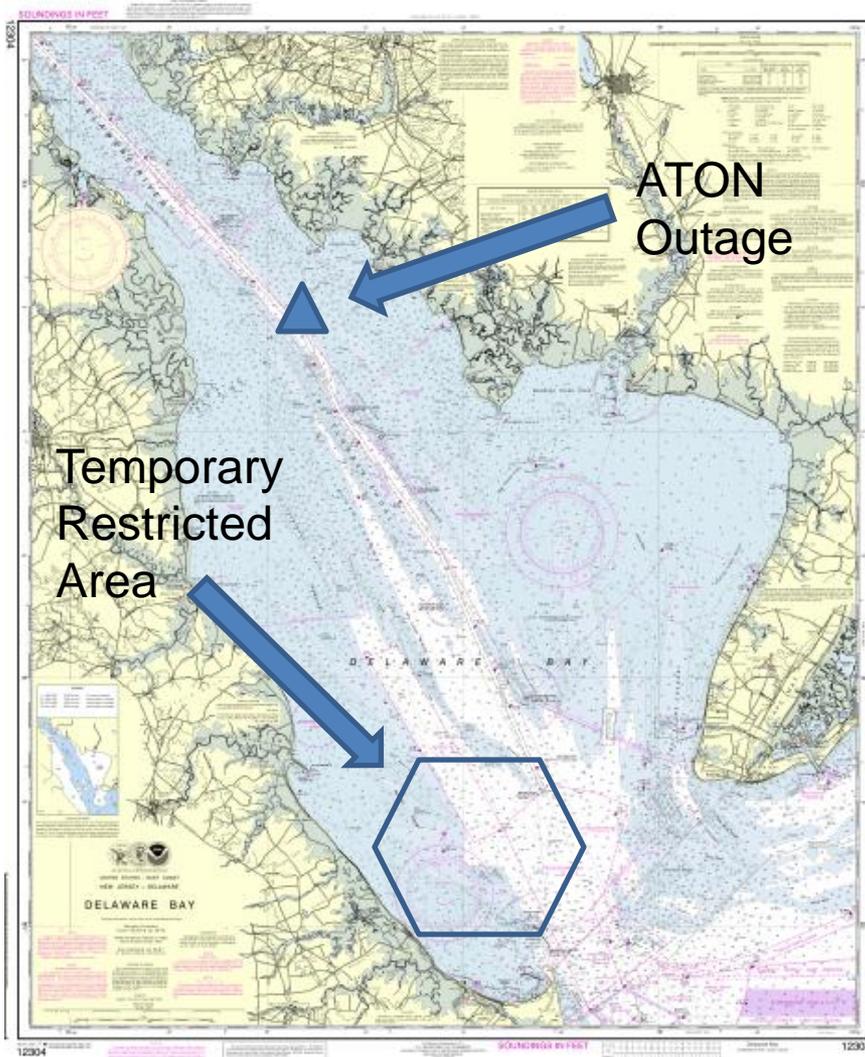
to

Digital





eNAV Projects Coastal – Delaware Bay



AIS will be used to:

- ✓ Broadcast ATON outage information as a layered object above the charted symbol.
- ✓ Area Notices (i.e. Temporary Restricted Areas).



Takeaways:

- Stakeholder Engagement Throughout
- Balance of Technology and Cost

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



Questions?