



**NOAA's Precision Marine Navigation Workshop**  
**October 1, 2020**  
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# ~ Federal Transportation Oversight ~

**Air:** Federal Aviation Administration (DOT)

**Highways:** Federal Highway Administration  
(DOT)

**Rail:** Federal Railroad Administration (DOT)

**Marine:** 30+ Federal Agencies & Offices



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# Authorization of the CMTS

## *U.S. Ocean Action Plan (2004)*

This Plan contained a Presidential Directive to establish a cabinet-level interagency committee on the marine transportation system (MTS).

## *Coast Guard and Maritime Transportation Act (2012), PL 112-213:*

The CMTS shall serve as a federal interagency coordinating committee for the purpose of:

- Assessing MTS adequacy
- Promoting MTS integration with other modes of transportation and marine environment uses
- Coordinating, improving the coordination of, and making recommendations related to MTS relevant federal policy



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# Standard Matrix of the Federal Marine Transportation System

By Department/Agency

		USDA					DOC					DoD		DOE	DOI				DOJ	DOL		DHS				DOS	DOT							FMC	NTSB	EPA		
FEDERAL INTEREST	MAJOR CATEGORIES	FAS	FSA	APHIS	NRCS	AMS	BIS	Census	EDA	ITA	NOAA	USACE	Navy	TRANSCOM		USFWS	BOEM	BSEE	USGS		BLS	OSHA	TSA	USCG	FEMA	CBP		OST	BTS/RITA	SLSDC	FHWA	MARAD	FRA	Treasury	FMC	NTSB	EPA	
Enhance Safety	Safety										X	X	X				X	X		X	X		X	X			X		X	X	X					X	X	
Protect the Environment	Environmental Protection			X	X				X		X	X	X		X	X	X	X	X	X			X	X		x	X			X	X	X						X
Facilitate Commerce	Trade Facilitation	X	X	X		X	X	X		X	X					X				X				X		X	x	X		X		X		X	X			X
	Trade Promotion	X	X	X		X				X																	X		X	X			X	X			X	
	Vessel Construction																						X		X		X				X	X		X				
	Vessel Operations										X						X		X				X		X		X		X			X					X	
	Federal Channels, Waterways, and Sea Lanes										X	X			X	X		X	X				X	X		X	X	X	X				X				X	
	Port/Modal Transfer Infrastructure								X		X	X			X									X				X			X	X	X	X				X
Ensure National Security	Security										X	X	X	X	X		X		X				X	X	X	X	X	X				X						
Cross-Cutting	Research & Development						X		X	X	X	X		X	X	X	X						X				X	X			X		X					X
	Human Resources										X	X	X				X		X				X	X			X				X							X



## CABINET COMMITTEE

**Chair:** Transportation Secretary Elaine L. Chao  
**Members:** Secretaries of 14 Departments and Independent Agencies



## COORDINATING BOARD

**Current Chair:** RDML Rich Timme, USCG  
**Members:** Leaders of MTS Agencies and Offices, including White House Ex-Officio Members

## EXECUTIVE SECRETARIAT



## WORKING GROUP

## INTEGRATED ACTION TEAMS



Arctic Marine  
Transportation IAT

**Maritime Data IAT**

MTS Resilience IAT

Infrastructure Investment IAT

**Future of Navigation IAT**

Maritime Innovative Science  
and Technology IAT

## TASK TEAMS



AIS Task Team

Military to Mariner  
Task Team



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# 2020-2021 Work Plan

- Implementing the 2017 National Strategy for the MTS
- **Navigation Safety Services and Technologies Integration**
- U.S. Arctic Marine Transportation System Assessments
- MTS Infrastructure Investment Economic Benefit
- **Maritime Data Coordination**
- MTS Resilience – 2018-2019 Hurricane Response Analysis
- Ocean Policy and the Maritime Nexus
- Supporting Veterans Hiring and Military to Mariner
- Promoting the value of the MTS and the Federal Role



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# 14 Recommendations under 5 Priority areas:

- System Performance
- Safety
- Security
- Energy Innovation
- Infrastructure Investment

**National Strategy  
for the  
Marine Transportation System:  
*Channeling the Maritime Advantage*  
2017-2022**



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## Maritime Safety

The CMTS Future of Navigation IAT will facilitate the coordinated and integrated collection, processing, and dissemination of navigation data and information to provide services to stakeholders, eliminate duplication, and enhance the safety, reliability, and efficiency of our waterways and ports.

**Leads:** NOAA, USACE, USCG

### Activities:

- Waterways Harmonization
- Nav Data Interoperability Roundtable
- Update the 2012 eNavigation Strategic Action Plan.
- Support eNav Underway through the RTCM.
- Common Information Sharing Standards and initiative to address information sharing between agencies.



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## Maritime Data

The Maritime Data IAT serves as the CMTS's body of experts on the discovery, access, and sharing capacity of data related to the operation and governance of the MTS. The work of the Maritime Data IAT includes facilitating the identification, archiving, linking, and integration of authoritative data from agencies with equities in maritime data.

### Resources:

- Address long-term goals of the Federal AIS report
- Enhancing access to and sharing of AIS data
- Defining a “port” for common federal reference
- Harmonization of maritime terminologies and data bases
- Maritime Tab at DATA.gov

Leads: MARAD, USACE



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# Future of Navigation IAT

## Integrated Action Team Leads

- National Oceanic and Atmospheric Administration (Brian Akers, co-lead)
- U.S. Army Corps of Engineers (Brian Tetreault, co-lead)
- U.S. Coast Guard (LCDR Christian Adams, co-lead)

## Participating Agencies

- National Geospatial-Intelligence Agency
- Maritime Administration (Department of Transportation)
- National Transportation Safety Board
- Any agency that provides or has an interest in navigation services



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10 Conclusion



# Future of Navigation IAT Work Areas

- Interagency Coordination, and Outreach/Engagement
- Waterways Harmonization (USCG)
- River Information Services (USACE)
- e-Navigation Data Interoperability Roundtable
- NOAA Raster Sunsetting & Precision Marine Navigation Updates (NOAA)
- Future of Navigation - E-Navigation Strategic Action Plan Update



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# National Navigation Strategic Action Plan 2021-2026

- The 2012 e-Navigation Strategic Action Plan (SAP) was published as the first CMTS document providing interagency foundational guidance on implementation of e-Navigation.
- The 2012 plan included the first vision, goals, and focus areas for joint U.S. execution in support of international initiatives and domestic requirements.
- This new edition will incorporate lessons learned since the original publication, national and international developments in e-Navigation implementation, and progress made by Federal agency partners, to present a plan moving forward.



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# National Navigation Strategic Action Plan 2021-2026

- Revised focus areas to;
  - Reflect advances in the MTS and the world of e-Navigation,
  - Lays out the linkage of the plan to the international e-Navigation efforts of the IHO, IMO, and other bodies.
- Framework based on the IHO S-100 Universal Hydrographic Data Model for U.S. e-Navigation implementation.
- The plan recognizes the evolution of e-Navigation from a concept to actual implementation of capabilities delivering navigation information products in support of identified maritime services.



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# CMTS Navigation Data Interoperability Roundtable

Goal was to bring together the CIO's and CDO's from the main Navigation Data Agency to discuss how;

- Interagency sharing of navigation information is critical for the accomplishment of our Agencies shared missions;
- Find common interpretations of Federal Information Security Management Act (FISMA) requirements, as well as policies/procedures for complying with those requirements that facilitate interagency information exchange.



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# CMTS Navigation Data Interoperability Roundtable

Agency	Dataset Name	Description /Issue
All Navigation Agencies	Federal Navigation Products	<ul style="list-style-type: none"><li>Navigation regulations require commercial mariners to carry or have access to a range of Federal navigation products at all times.</li><li>Currently, in order to find various navigational products, mariners have to search multiple government agency websites to find the appropriate products for their voyage.</li><li>Neither professional nor recreational mariners have a uniform way to find and download navigational products produced by Federal government agencies.</li></ul>
USCG	Automatic Identification Systems (AIS) Data	<ul style="list-style-type: none"><li>2018 Ocean Policy E.O requires “public release of unclassified data and other information related to the oceans, coasts, and Great Lakes that agencies collect.”</li><li>If each CMTS member agency were to set up sharing for USCG AIS Data, it would require nearly 400 separate MOUs and ISAs</li></ul>
USCG	U.S. AtoN Information Management System (USAIMS)	<ul style="list-style-type: none"><li>Data used by the NOAA and USACE for charting as well as provision of other critical navigation safety information.</li><li>Due to enhanced security policies in 2017, this critical data transfer currently relies upon a recurring manual transfer process from agency to agency.</li></ul>





# Thank you!

## Questions?

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Conclusion