



# ACTIONS AND ACCOMPLISHMENTS OF THE CMTS

August 1, 2022 – July 31, 2023

**MG William “Butch” Graham**

DOD/U.S. Army Corps of Engineers  
CMTS Coordinating Board Chair

The CMTS serves as a Federal interagency maritime policy coordinating committee for assessing the adequacy of the marine transportation system, promoting the integration of the marine transportation system with other modes of transportation and other uses of the marine environment, and coordinating, improving the coordination of, and making recommendations regarding Federal policies that impact the marine transportation system.

**U.S. Committee on the Marine Transportation System**

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## Contents

Message from the Chair.....	4
Summary of Activities and Accomplishments .....	5
A Special Thanks to Helen Brohl .....	6
Interagency Unity of Effort .....	8
Ensure Purposeful Leadership to Support the Health and Welfare of the Mariner and MTS Workforce .....	9
Jointly Promote and Enhance a More Sustainable MTS.....	11
Ocean Policy .....	11
Support Administration Initiatives for an Efficient, Safe, and Secure Supply Chain .....	12
Appendix 1: Integrated Action Teams and Task Teams .....	15

## Message from the Chair

The U.S. Army Corps of Engineers (USACE) is honored to have served on behalf of the Department of Defense (DOD) as the Chair of the U.S. Committee on the Marine Transportation System (CMTS) Coordinating Board from August 1, 2022, through July 31, 2023. During USACE's Chairmanship, the CMTS continued to provide a robust framework to identify and address challenges affecting the marine transportation system (MTS) and championing initiatives that enhance the viability of global supply chains; strengthen our maritime workforce and promote diversity, equity, and inclusion (DEI) in this vital industry; and help protect the marine environment.

The goal of DOD/USACE's term was "Enhancing Unity of Effort to Strengthen an Efficient, Equitable, and Sustainable Marine Transportation System." This goal supported the priorities set by the Biden-Harris Administration while aligning with the 2023-2028 National Strategy for the MTS "Cultivating a Resilient and Sustainable Blue Economy," and ensuring effective coordination of MTS policies to meet national needs.

While global supply chain challenges abated somewhat, demands on the MTS have remained high, and challenges posed by climate change became more apparent. Displaying the versatility, it has become known for, CMTS addressed these challenges by hosting the Seventh Biennial Conference on the Marine Transportation System "Innovative Science and Technologies Toward Greater Sustainability". The CMTS Mariner and MTS Workforce Integrated Action Team continued to focus on myriad issues affecting the maritime workforce. The Offshore Energy Facilitation Task Team developed National Guidance on Responding to Munitions and Explosives of Concern and held an interagency tabletop exercise to test and fine tune it.

I extend my deepest thanks to Helen Brohl, the Executive Secretariat, and our interagency teams for their dedication to the CMTS partnership and for a job very well done!



**William "Butch" Graham**  
CMTS Coordinating Board Chair (2022-2023)  
US Army Corps of Engineers



**MG William "Butch" Graham,**  
**Deputy Commanding General**  
**for Civil and Emergency**  
**Operations**  
**U.S. Army Corps of Engineers**

## Summary of Activities and Accomplishments

August 1, 2022-July 31, 2023



- Published the “Compendium of Federal Programs in the Marine Transportation System”
- Participated in the annual Maritime Operational Threat Response (MOTR) tabletop exercise
- Published the Interagency discussion on S.4736 the Arctic Commitment Act
- Briefed the House Subcommittee on the Coast Guard and Maritime Transportation and the Senate Committee on Commerce, Science, and Transportation (Minority)
- Published the 2022 CMTS Federal Maritime Security Directory
- Hosted Federal Lunch & Learns: Vessel Traffic in the Ports of LA/LB; Computational Modeling for Solving Environmental Issues; Complex Disruptions to the MTS
- Briefed Congressional staff on U.S. Waterways Harmonization efforts coordinated by CMTS
- Held an in person “Resilience IAT State of Practice Workshop” setting the plan for the IAT going forward
- Briefed the American Association of Port Authorities (AAPA) on current and upcoming CMTS projects
- Hosted International Maritime Affairs Roundtable
- Hosted Mariner Mental Health Panel webinar
- Held the third annual CMTS Federal Roundtable to review and discuss evolving Autonomous Maritime Technologies and implementation considerations.
- Conducted an introductory CMTS briefing with MARAD International Affairs Office and Ports & Waterways Office
- Conducted an “Unexploded Ordnance Response in Federal Waters Tabletop Exercise” to test the National Guidance
- Briefed Representative Dingell’s office on CMTS efforts relating to Munitions and Explosives of Concern (MEC)
- Published the National Strategy for the Marine Transportation System: Cultivating a Resilient and Sustainable Blue Economy, 2023-2028
- Moderated a panel at the Ship Operations Cooperative Program (SOCP) Maritime Autonomous Surface Ships Symposium
- Participated in the annual Capitol Hill Ocean Week

## A Special Thanks to Helen Brohl

This past year we bade a fond farewell to CMTS Executive Director, Ms. Helen Brohl who served as the first CMTS Executive Director from July 10, 2006, to January 13, 2023.

Her accomplishments were many, and this list only touches on some of what she did to strengthen our U.S. Marine Transportation System.



- Directed the development of the first interagency strategy on the Marine Transportation System, 2008 (approved at the Cabinet level) and two subsequent strategies to guide joint initiatives to enhance the Marine Transportation System.
- Established the Navigation Technology Integrated Action Team that advanced the reliability and accuracy of real-time navigation information provided to mariners.
- Established the first interagency maritime innovative science and technology team that collaborates with the Transportation Research Board on biennial conferences to investigate and implement research and science to support the MTS, including autonomous technologies, alternative fuels; developed the first interagency maritime R&D Strategies.
- Working through the CMTS USACE, NOAA, and US Geological Service developed a common water level datum and established common standards for vertical datum measurements – after 200 years of trying.
- The first ever inventory of maritime infrastructure in the U.S. Arctic was completed and has been updated every two years. Published the first assessment of the marine transportation system for the U.S. Arctic. Published an assessment of the use of public-private partnerships to support development in the U.S. Arctic.
- Published a projection, and update, of vessel activity in the U.S. Arctic to understand the impacts from rapidly changing Arctic conditions.
- Developed and published the first full compendium and update of the roles and authorities of federal agencies that work with or impact the marine transportation system.
- Developed first best practices to reduce damage to the MTS from breakaway barges.
- Published (and updated) the first interagency navigation information strategy to make the U.S. the safest, most efficient system in the world. This includes support for the completion of the U.S. waterways harmonization project so that all points in U.S. waterways have common reference.
- Published a handbook listing MTS-related federal funding sources which is in its fifth edition. It is the most downloaded document by the CMTS and is a great reference for all MTS stakeholders.
- Published three post hurricane season reports on the impacts of the storms to the MTS and lessons learned from the Federal response to reopen ports and restore MTS capacity.
- Established annual collaboration with Federal partners and industry to promote MTS infrastructure during National Infrastructure Week, including public webinar panels to discuss current and future needs of the system.
- Successfully executed a program to support the transition of active-duty sea service personnel to credentialed merchant mariners, the “Military to Mariner” (M2M) program. This effort allows sea service personnel to use their military experience to transition to maritime careers after leaving the service. Crafted a M2M executive order, signed by the President, to require that all military services provide training records to requesting personnel within 30 days, to require that military

training be approved as applying to a merchant mariner credentials, and to provide direct hiring authority for mariners for the Federal agencies that hire mariners.

- Established a maritime tab in Data.gov to ensure that Federal maritime data sets were preserved in one location.
- Established a task force to analyze the way in which vessel operators receive and respond to extreme weather information and delivered recommendations within the *Maritime Transportation Extreme Weather Task Force: A Report to Congress*.
- Hosted numerous public seminars with the Wilson Center to discuss the current and future needs of the U.S. Arctic. Held numerous Federal family webinars to educate and inform CMTS member agencies on current and emergent issues within the MTS and to showcase member projects and publications.
- Stood up an interagency COVID -19 Working Group to jointly provide resources to industry to support the MTS workforce during the pandemic. Products included publication of two white papers to state and local jurisdictions on the importance of MTS worker vaccination prioritization.
- Established the Mariner Mental Health Working Group to address the overall health and wellness of mariners.
- Provided a report to Congress, *An Assessment of the Marine Transportation System*, which provides a comprehensive overview of the system and its component parts.
- Studied and reported on the use of automatic identification system (AIS) data within the MTS. The report identified agencies that acquire raw AIS data; which agencies use the data; which agencies purchase data separately. The findings and recommendations of this report informed decision making regarding whole of government purchase of AIS data.
- Established the CMTS Diversity, Equity, and Inclusion (DEI) Task Team. The DEI Task Team hosted an interagency workshop on DEI to share best practices and has published the first in a series of YouTube videos promoting maritime careers to underserved communities.
- Promoted awareness of the Taft-Hartley Act and other mitigation strategies for MTS interruptions via an interagency tabletop exercise with a follow-up presentation by a Taft-Hartley subject matter expert to inform member agencies.
- Published a report for the U.S. Government Accountability Office (GAO) titled, "U.S. Arctic Marine Transportation System Infrastructure Risk Resource Compendium."
- Integrated the MTS into White House initiatives related to ocean and Arctic policy.
- Conducted a joint public webinar with the Embassies of Denmark and Norway on current science applications for a sustainable MTS in support of UNESCO's Decade of the Sustainable Oceans initiative. Contributed to the development and implementation of the 2014 and 2022 National Strategy on the Arctic Region.



## Interagency Unity of Effort

### National Strategy For The Marine Transportation System: Cultivating a Resilient and Sustainable Blue Economy (January 2023)

In January 2023, the CMTS published the “*National Strategy for the Marine Transportation System: Cultivating a Resilient and Sustainable Blue Economy - 2023 - 2028.*”

This strategy updates the 2017-2022 strategy and sets forth the path and vision of the MTS for the next five years. The 2023 National Strategy includes 25 actions under the following five priority areas: Strengthen Unity of Effort in the MTS, Advance the Health, Welfare, Diversity, and Growth of the MTS Workforce, Enhance the Safety and Security of the MTS, Strive for a Sustainable MTS, and Support Optimal Performance of the MTS Supply Chain. This strategy was developed by CMTS members through extensive interagency engagement and review.

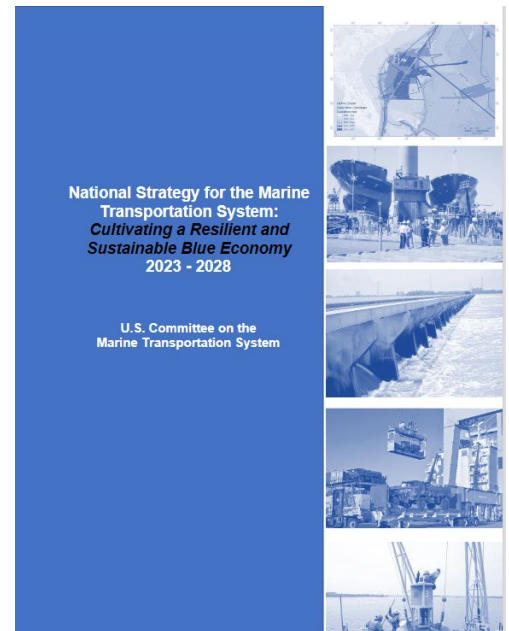
*In the years ahead, we must address the role of the MTS in climate change and coastal resilience. We must ensure the MTS can recruit and retain a strong and diverse workforce and provide a workplace that is safe and secure. And we must continue to invest, in MTS people, processes, and infrastructure, which are so critical to America’s supply chains. The CMTS is the forum to bring together MTS agencies in a unity of effort to address these many challenges.*

*Secretary Pete Buttigieg*

Following the affirmation by Secretary Buttigieg, the 2023-2038 National Strategy was implemented across Federal agencies and within the CMTS partnership through inclusion in the updated CMTS Work Plan and the work plans of working groups and teams. The 2023 National Strategy replaces the National Strategy for the Marine Transportation System: Channeling the Maritime Advantage, 2017-2022, which had previously directed CMTS priority areas and whose directed actions have been addressed or completed.

### Compendium of Federal Programs

In response to a directive in the National Defense Authorization Act of 2021, the CMTS developed a new *Compendium of Federal Programs in the Marine Transportation System*. This new version reflects the 35+ federal agencies that have a role within the MTS and provides descriptions of their authority(ies). The report, which was transmitted to Congress in the fall of 2022, is an interactive Excel spreadsheet that allows the reader to select specific agencies and identify agency authorities for each area in which that agency is engaged with the MTS.





*Excerpt of the Compendium presenting agencies and areas of MTS engagement*

MIS Area	INFORM CATEGORIES	CROSS-CUTTING THEMES AND INITIATIVES																																														
		FAS	FSA	APHIS	AMS	BEA	Census	ITA	NIST	NOAA	Army	USACE	Navy	ONR	TRAN SCOM	MSC	NSA	DOE	USFWS	BOEM	BSEE	ONRR	DOI	BLS	OSHA VETS	TSA	USCG	CBP	CISA	DOS	OST	BTS	GLS	MARAD	Treasury	FMC	NTSB	EPA	CDC	MMC	NMIO	CMTS						
Domestic Safety & Inform	Safety									X		X	X				X	X	X	X					X			X			X		X	X				X										
	Environmental Protection			X						X		X	X	X				X	X	X	X				X			X			X	X		X	X					X		X	X					
	Trade Facilitation	X		X	X	X	X	X		X		X						X	X									X	X		X	X		X	X	X	X	X	X									
	Vessel Operations									X	X	X	X					X										X	X					X	X													
	Physical Infrastructure							X		X	X	X	X	X				X	X	X	X	X			X		X		X	X	X	X	X		X	X			X									
Economic National Security	Informational Infrastructure						X			X		X	X				X	X								X	X				X		X							X								
	Security					X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X			X	X	X	X	X	X	X	X		X			X				X						
	Innovative Science and Technology									X		X	X	X				X	X	X	X							X						X	X					X		X	X					
	Human Resources Development										X	X	X	X				X	X					X	X	X	X	X	X	X		X			X					X								
Cross-Cutting	Data	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X			X		
	Regulatory Mission			X				X			X							X	X	X	X	X					X	X	X	X	X		X			X				X		X	X					
	Marine Transportation System Funding (Great Lakes, Disasters)							X		X		X	X												X		X							X						X	X	X	X					
	International Participation and Tribal Relations			X			X	X	X		X		X	X				X	X	X	X	X	X					X		X		X			X	X				X				X				
	Resilience			X			X	X	X			X	X	X				X	X	X	X	X				X		X	X		X				X						X		X	X				

## 2022 CMTS Federal Maritime Security Directory

The CMTS has published an update of the directory of Federal maritime security organizations in the Federal Government. This publication updates the directory from May 2021 and includes references to agency and interagency organizations in the Executive Office of the President, Departments of Homeland Security, Defense, State, and Transportation, as well as references to IMO and maritime security Federal advisory committees.

## Ensure Purposeful Leadership to Support the Health and Welfare of the Mariner and MTS Workforce

The Mariner and MTS Workforce Integrated Action Team (IAT) - which includes the Mariner Mental Health Working Group, the Recruitment and Retention Task Team, the Military to Mariner Task Force, and the DEI Task Team – focuses on key issues affecting the MTS workforce, in particular workforce health and wellbeing, and challenges with recruitment and retention.

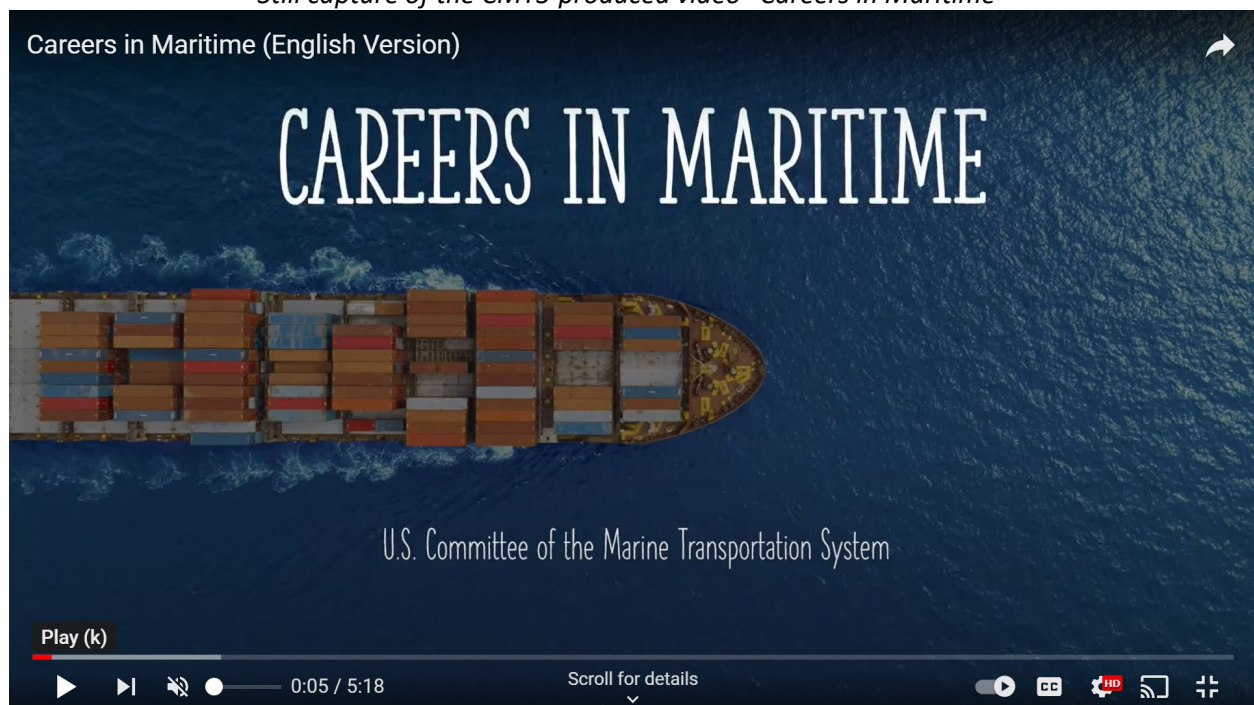
On January 11th, 2023, the U.S. Committee on the Marine Transportation System (CMTS) held a virtual discussion highlighting the importance of behavioral health, mental health and wellbeing for U.S. mariners that included an opening speaker and two panels. The full virtual discussion can be found on the CMTS YouTube channel at [Challenges and Solutions to Mariner Mental Health and Wellbeing](#). This virtual discussion was the result of the Mariner Mental Health Working Group (MMHWG) deciding it was time to bring together everyone to discuss the challenges and solutions to mariner mental health and wellbeing. One of the key take-aways from the virtual discussion was the need for common ground and a whole of industry approach to address mariner mental health challenges. Involvement and engagement across the spectrum of stakeholders is necessary. We all have a part to play – from mariners themselves to maritime labor unions,



operators and employers, support organizations, families and friends, and government agencies including the Department of Defense, NOAA, and MARAD. Every stakeholder must be aware that mental health challenges are a significant issue affecting mariners, and they do not have the same access to care and often face extremely difficult work conditions and factors that contribute to mental health issues. However, we cannot simply stop at awareness. We must all take action to ensure mariners have the resources they need to address mental health challenges. The main action from this discussion is the development of the “Call to Action to Support Mariner Mental Health” white paper that is currently under development and will work to address the issues laid out in the virtual discussion.

The CMTS Diversity, Equity and Inclusion and the Recruitment and Retention team published a short video called "Careers in Maritime." The video, presented in both English and Spanish, was developed as a tool to educate students from an early age and well before a career path has been chosen about career options including as a mariner, dock worker, ship building, and culinary arts. The goal of the video is to support Federal MTS-agency efforts to increase the diversity of the marine transportation system but also address a critical shortage of mariners with Federal employers such as Military Sealift Command and the NOAA Corps, as well as to support the critical shortage of U.S. merchant mariners within industry.

*Still capture of the CMTS-produced video “Careers in Maritime”*



## Jointly Promote and Enhance a More Sustainable MTS

### Maritime Innovative Science and Technology

The CMTS, in partnership with the Transportation Research Board (TRB), held the Seventh Biennial Maritime Innovative Science and Technology Conference, *“Innovative Science and Technologies Toward Greater Sustainability,”* in June 2023 at the National Academies of Science in Washington, DC. The conference included presentations on green fuels, the regulatory environment of sustainability, decarbonization strategies, electrification of vessels, port electrification and associated infrastructure requirements, governmental fleet considerations, addressing how government vessels will use and implement new technologies, and additional topics addressing the general sustainability of the MTS.

The Maritime Innovative Science and Technology (MIST) IAT has co-sponsored six prior conferences (2010, 2012, 2014, 2016, 2018, 2021) with the National Academy of Science’s TRB. These conferences have contributed to the development of:

- The Strategic Action Plan for Research and Development (2011, 2017),
- The report on MTS performance measures (2012) and,
- An investigation into innovative technologies to support a resilient MTS.



### Ocean Policy

Finalized in April 2022, and announced on World Ocean Day, the White House announced that the Ocean Resource Management (ORM) Subcommittee of the Ocean Policy Committee (OPC) would develop a whole-of-government Ocean Climate Action Plan and a National Sustainable Ocean Plan. As a principal member, the CMTS is committed to representing the interests of CMTS member agencies and incorporating issues impacting the MTS throughout the drafting process of both documents through engagement in the ORM working groups tasked with creating these plans.

On March 21st, 2023, the finalized Ocean Climate Action Plan (OCAP) was released, featuring current and planned ocean-based climate mitigation efforts from multiple Federal agencies. The CMTS provided actions and comments to the OCAP that will work towards accelerating green maritime shipping efforts and reducing greenhouse gas emissions. CMTS continues to assist the OCAP Implementation Working Group in agency action reporting.

*The international shipping sector contributes approximately three percent of global greenhouse gas (GHG) emissions, and the sector's emissions are only projected to increase. In support of the global effort to keep within reach a 1.5 degree C limit on global average temperature increase, and in support of global efforts to achieve net-zero GHG emissions no later than 2050, the United States is committing to work with countries in the International Maritime Organization (IMO) to adopt a goal of achieving zero emissions from international shipping by 2050 and to adopt ambitious measures that will place the sector on a pathway to achieve this goal.*

### *The White House*

CMTS is an active participant in the National Strategy for a Sustainable Ocean Economy Working Group led by the OPC. On June 28th, 2023, OSTP and CEQ released a Request for Information for the development of this strategy. The CMTS role as a participant in the working group developing this strategy is to ensure that mariner workforce development, port resilience, Arctic transportation, and other MTS related issues are being properly reflected in the Strategy.

Additionally, CMTS is the lead for actions under Pillar 3 of the National Strategy for the Arctic Region Implementation Plan which pursues sustainable economic development in Alaska. These actions include increasing coordination with the Port of Alaska to better prepare for increased Arctic shipping traffic, conducting an infrastructure security tabletop exercise, and developing a vessel projection report for the coming five years.

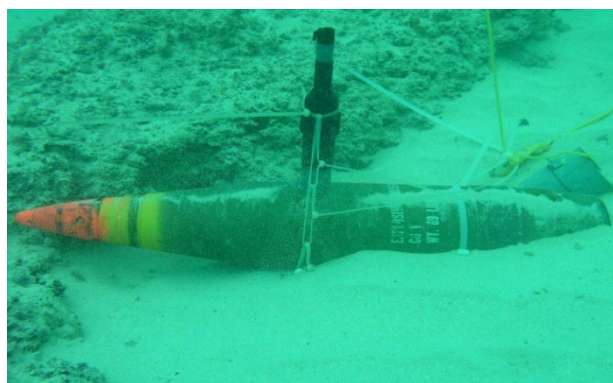
## **Support Administration Initiatives for an Efficient, Safe, and Secure Supply Chain**

### **Offshore Energy Facilitation Task Team**

The Offshore Energy Facilitation Task Team (OEFTT) was established to "support the Biden Administration's goal of providing 30 gigawatts of power from offshore wind by 2030 by pursuing and facilitating the development of Federal guidance on the mitigation of Munitions and Explosives of Concern within offshore energy leases on the U.S. Outer Continental Shelf." This guidance builds off initial conversations held with Industry in 2021 on the topic, resulting in the establishment of the OEFTT. The OEFTT facilitated the development of Federal guidance on Munitions and Explosives of Concern (MEC) mitigation by hosting a Federal interagency tabletop exercise with assistance from the Global Maritime Coordination Center (GMCC) Maritime Operational Threat Response (MOTR) team to run a tabletop exercise of the draft National Guidance and incorporate lessons learned from the exercise into the document.

The team also began the process of developing outreach and correspondence plans for both Congressional outreach and Q&A and outreach documents for the CMTS Website and to share with agency partners.

**An unexploded ordnance rests on the ocean floor**





## National Infrastructure Week (July 2023)

For the sixth consecutive year, the CMTS served as an official partner of National Infrastructure Week. Infrastructure Week is a collaborative effort by businesses, civic groups, organizations, and other infrastructure stakeholders to bring awareness to the importance of infrastructure in our nation. Infrastructure Week is the largest, most diverse, non-partisan coalition of organizations dedicated to strengthening America by rebuilding our infrastructure. Every year, CMTS activities ensure that national infrastructure discussions include the maritime component.

## MTS Conditions and Performance Measures

In the National Defense Authorization Act of 2021, the CMTS authorizing language was amended, requiring the development of specific conditions and performance measures for the MTS. In support of this effort, the CMTS Maritime Data Integrated Action Team (Data IAT) has outlined several Federal measures that will be used for future reports to Congress on the state of the MTS. These measures are broadly categorized into seven groups: economic impacts; safety and security; environmental stewardship; system assets, capacity, and reliability; funding; travel; and resilience. The Data IAT reviewed the provenance, timeliness, periodicity and latency, and relevance of these measures to the required MTS Conditions and Performance Measures report. They are also developing use cases to demonstrate how these measures reflect the conditions and performance of the MTS. A draft report has been developed and the final version will be completed in 2024 and submitted to Congress.

## Supply Chain and Infrastructure IAT

The CMTS Supply Chain and Infrastructure Integrated Action Team (SCIAT) is reviewing the Fifth Edition of the Federal Funding Handbook for the MTS, published in 2022, which details 75 authorized Federal multimodal transportation programs that provide infrastructure funding, financing, and technical assistance for infrastructure in the MTS.

The SCIAT also actively planned the third Supply Chain Tabletop exercise that is being held in the Fall of 2023 at the Port of Baltimore, MD. The goals of the tabletop will be to:

- Identify Federal, state, and local agency and private industry notification processes to support MTS disruption supply chain impacts.
- Identify Federal, state, and local agency and private industry mitigation roles and responsibilities in response to supply chain disruptions.
- Demonstrate an understanding of the connectivity and interdependencies of surface (road and rail) and maritime transportation systems as they relate to supply chain criticality.
- Validate the ability to reroute goods post MTS disruption to mitigate supply chain impacts.

## Resilience IAT

Over the past few years, the CMTS Maritime Resilience Integrated Action Team (RIAT) focused on studying the response and resilience of the MTS after major hurricanes. On November 16, 2022, the RIAT held a hybrid (in person and virtual) meeting where 28 members across 12 agencies were in attendance. The team discussed the future release of a MTS Resilience Assessment Guide and how it might be used to conduct resilience assessments. The workshop allowed the RIAT members the opportunity to discuss possible gaps in resilience assessment and response, and ways to close those gaps. The workshop attendees also compiled a list of organizations they would like to bring to the table for future collaborations.

The RIAT took the lead on promoting the Cybersecurity and Infrastructure Security Agency's (CISA's) Marine Transportation System Resilience Assessment Guide (MTS Guide). This is the culmination of five years of effort across a partnership that originated within RIAT. Partners (CISA, ERDC, Vanderbilt, University of Rhode Island) gathered best practices, case studies, resources, and a framework for how to address resilience assessments. The MTS Guide provides a consistent, repeatable process for conducting uniform assessments of the resilience of the complicated systems that comprise the MTS. The MTS Guide provides advice for assembling the diverse group of public and private stakeholders and agencies that manage these systems; provides a framework for conducting resilience assessments; and provides a variety of resources to support resilience assessments. Utilization of the MTS Guide will result in closer relationships between stakeholders and partners who may not traditionally be involved in a port resilience assessment, produce a holistic understanding of system vulnerabilities and functions, expand awareness of the dependencies and interdependencies within a specific port system, and identify practices or investments that can enhance resilience and inform risk mitigation decision-making.

## Waterways Harmonization

This past fall, a massive new dataset was released that will help maritime navigation become safer, easier and more efficient. In short, the harmonized waterways can revolutionize the way we navigate in the U.S. The data, made possible through the Harmonized Waterway project, is part of an effort to synchronize identifiers (such as names and abbreviations) for rivers, bays and maritime landmarks across all government agencies. This project, from conception to establishment of the dataset took approximately 10 years and is the brainchild of navigation visionaries and technical experts from the U.S. Coast Guard (USCG), the National Oceanic and Atmospheric Administration (NOAA), and the U.S. Army Corps of Engineers (USACE).

***“The impact of this project to advancing the U.S. as ‘one navigational system’ cannot be underestimated. It also highlights the importance of our interagency collaboration and partnerships through the CMTS.***

***CMTS Coordinating Board Chair Major General William “Butch” Graham.***

This dataset revolutionizes the delivery of critical Marine Safety Information (MSI) to the mariner by: deconflicting and synchronizing names and abbreviations for rivers, bays, and landmarks; improves interagency coordination for enhanced waterways management; provides online access to navigational information for U.S. waters; and provides a tool for waterways managers/planners, industry leaders, and researchers to study and monitor our national waterways with implications for MTS supply chain, resilience, and safety.

## Appendix 1: Integrated Action Teams and Task Teams

### Arctic Marine Transportation Integrated Action Team

#### **IAT Leads:**

Maritime Administration  
National Oceanic and Atmospheric Administration  
U.S. Coast Guard

#### **Participating Agencies:**

Bureau of Ocean Energy Management  
Bureau of Safety and Environmental Enforcement  
Environmental Protection Agency  
Maritime Administration  
National Geospatial-Intelligence Agency  
National Oceanic and Atmospheric Administration  
National Maritime Intelligence-Integration Office  
Oceanographer of the Navy  
Office of Science and Technology Policy  
Office of the Secretary of Transportation  
U.S. Arctic Research Commission  
U.S. Army Corps of Engineers  
U.S. Coast Guard  
U.S. Department of State  
U.S. Transportation Command

#### **Purpose:**

The CMTS, through the work of the Arctic IAT, has responded to the call of Congress and the White House to coordinate domestic transportation policies and determine what is needed to improve the U.S. Arctic MTS. Through its recommendations and member agency actions, maritime transportation in the U.S. Arctic will be better managed and made more safe and secure, resulting in more efficient transits, greater protection of Arctic coastal and ocean resources, maintenance of subsistence uses by native communities, and less risk to loss of cargo and life.

#### **Value:**

Warming conditions and reduction in the extent of sea ice cover in the Arctic are creating new opportunities and challenges in the U.S. Arctic region with respect to marine transportation. Ensuring a safe and efficient U.S. MTS in the Arctic is essential to meeting the Nation's environmental, economic, development, and national security objectives.

## Future of Navigation Integrated Action Team

### **IAT Leads:**

National Oceanic and Atmospheric Administration  
U.S. Army Corps of Engineers  
U.S. Coast Guard

### **Participating Agencies:**

Maritime Administration  
National Geospatial-Intelligence Agency  
National Oceanic and Atmospheric Administration  
National Transportation Safety Board  
U.S. Army Corps of Engineers  
U.S. Coast Guard

### **Purpose:**

The CMTS Future of Navigation IAT facilitates the modernization and provision of navigation services, including 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.

The work of this IAT is focused on implementation of the CMTS's e-Navigation Strategic Action Plan. E-Navigation is a critical component of the MTS infrastructure and is essential to enhancing MTS safety, efficiency, reliability, security, and environmental soundness. The scope of the Future of Navigation IAT is broader than e-Navigation and may address other navigation services, such as aids to navigation, navigation safety regulations, enhanced marine safety information services, seamless data exchange, decision-focused information, and improved connectivity.

### **Value:**

The Federal effort in facilitating the safe and efficient operations of these waters must be an accelerant, rather than a brake, on this economic engine. To this end, the Future of Navigation IAT leverages technology, initiates management improvements, redefines levels of service, develops data-driven analysis, and identifies and recommends regulatory changes to improve safety and efficiency on America's waterways.



## Maritime Data Integrated Action Team

### **IAT Leads:**

Maritime Administration  
U.S. Army Corps of Engineers

### **Participating agencies:**

Bureau of Ocean Energy Management  
Bureau of Safety and Environmental Enforcement  
Bureau of Transportation Statistics  
Federal Highway Administration  
Maritime Administration  
National Oceanic and Atmospheric Administration  
Transportation Security Administration  
U.S. Army Corps of Engineers  
U.S. Coast Guard  
U.S. Department of Energy  
U.S. Department of Transportation - Office of the Secretary  
U.S. Navy

### **Purpose:**

The purpose of the Maritime Data IAT is to serve as the CMTS's body of experts to facilitate discovery, access, and sharing of data related to the MTS. The IAT's efforts include facilitating the identification, archiving, linking, and integration of authoritative data among agencies with equities in maritime data. The goal of these efforts is to assist CMTS member agencies in their analysis related to the MTS and making timely and well-informed decisions to meet agency mission objectives.

### **Value:**

Efforts by the Maritime Data IAT will benefit the Nation by supporting discovery of maritime data; promoting shared data access through common standards; improving decision-making through common access to authoritative data; and optimizing CMTS member mission effectiveness through shared services and interoperability.

## **Mariner and MTS Workforce Integrated Action Team**

### **IAT Leads:**

Maritime Administration  
U.S. Coast Guard

### **Participating agencies:**

Centers for Disease Control & Prevention  
Maritime Administration  
Military Sealift Command  
National Geospatial-Intelligence Agency  
National Maritime Intelligence-Integration Office  
National Oceanic and Atmospheric Administration  
Occupational Safety and Health Administration  
Office of Naval Intelligence  
U.S. Army Corps of Engineers  
U.S. Coast Guard  
U.S. Department of Energy  
U.S. Department of State  
U.S. Department of Transportation, Office of the Secretary  
U.S. Department of the Treasury  
U.S. Environmental Protection Agency  
U.S. Navy  
U.S. Transportation Command

### **Purpose:**

Several issues related to mariner and MTS workforce quality of life have evolved from the work of the COVID-19 Working Group and the Military to Mariner Task Force. These new issues, along with existing conversations such as DEI, include Mariner Mental Health, Recruitment and Retention, and Military to Mariner credentialing activities, and have suggested that the CMTS establish an overarching Mariner and MTS Workforce Integrated Action Team, under which these issues could be homeported.

### **Value:**

Facilitation of cross-Federal agency coordination will enhance the well-being and quality of life of mariners and the marine transportation system workforce. These efforts will foster resilience of the workforce in the face of major issues such as the Covid-19 pandemic, improve the diversity, equity, and inclusion (DEI) or maritime employment, and bolster recruitment and retention of the MTS workforce.

## Maritime Innovative Science and Technology Integrated Action Team

### **IAT Leads:**

Environmental Protection Agency  
Maritime Administration  
U.S. Army Corps of Engineers

### **Participating Agencies:**

Bureau of Transportation Statistics  
Environmental Protection Agency  
Federal Highway Administration  
Maritime Administration  
National Maritime Intelligence-Integration Office  
National Oceanic and Atmospheric Administration  
Saint Lawrence Seaway Development Corporation  
U.S. Army Corps of Engineers  
U.S. Coast Guard  
U.S. Department of Energy

### **Purpose:**

The Maritime Innovative Science & Technology IAT provides the CMTS with a strategic capability to identify, coordinate, develop, and implement innovative research, development, and technology to address the pressing challenges identified in the *National Strategy on the Marine Transportation System: Channeling the Maritime Advantage* (2017).

### **Value:**

A coordinated Research and Development strategy will enable the Nation to address marine transportation infrastructure challenges efficiently, meet increasing freight demand, promote safety in and security of the MTS, and address the environmental impacts of the MTS.

## MTS Resilience Integrated Action Team

### **IAT Leads:**

National Oceanic and Atmospheric Administration  
U.S. Army Corps of Engineers

### **Participating Agencies:**

Bureau of Safety and Environmental Enforcement  
Bureau of Transportation Statistics  
Cybersecurity and Infrastructure Security Agency  
Environmental Protection Agency  
Federal Aviation Administration  
Federal Emergency Management Agency  
Federal Highway Administration  
Federal Maritime Commission  
Maritime Administration  
National Geospatial-Intelligence Agency  
National Oceanic and Atmospheric Administration  
U.S. Army Corps of Engineers  
U.S. Coast Guard  
U.S. Department of Homeland Security  
U.S. Department of the Interior  
U.S. Department of Transportation, Office of the Secretary  
U.S. Navy  
U.S. Transportation Command

### **Purpose:**

The MTS Resilience IAT (RIAT) was established to focus on cross-Federal agency knowledge co-production and governance to incorporate the concepts of resilience into the operation and management of the U.S. MTS. For the purposes of this team, resilience is defined as the ability to prepare and plan for, resist, recover from, and more successfully adapt to the impacts of adverse events.

### **Value:**

The RIAT seeks to affect future resilience policy and aid in delivering enhanced resilience programs through identifying, coordinating, and leveraging complementary Federal investments and activities related to MTS resilience.

## Offshore Energy Facilitation Task Team

### **IAT Leads:**

Bureau of Safety and Environmental Enforcement  
U.S. Coast Guard

### **Participating Agencies:**

Bureau of Ocean Energy Management  
Bureau of Safety and Environmental Enforcement  
Center for Disease Control  
Environmental Protection Agency  
National Oceanic and Atmospheric Administration  
Marine Mammal Commission  
Oceanographer of the Navy  
Office of the Secretary of Defense  
Transportation Safety Administration  
U.S. Army  
U.S. Army Corps of Engineers  
U.S. Coast Guard  
U.S. Department of Energy  
U.S. Department of Homeland Security  
U.S. Department of the Interior  
U.S. Maritime Administration

### **Purpose:**

The Offshore Energy Facilitation Task Team (OEFTT) was formed in response to a request from the Bureau of Safety and Environmental Enforcement to bring together agencies to develop guidance on the mitigation of discovered Munitions and Explosives of Concern (MEC) on the seafloor by offshore energy developers. The OEFTT is working to produce and publish the first National Guidance for industry on this issue.

### **Value:**

By bringing together the Federal interagency partners and by pursuing and facilitating the development of National Guidance on the mitigation of MEC, the OEFTT is supporting the Biden-Harris Administration's goal of providing 30 GW of power from offshore wind by 2030. This guidance will provide clarity and a path forward for the growing industry to address an issue where no current Federal regulation exists.

## Supply Chain and Infrastructure Integrated Action Team

### **IAT Leads:**

U.S. Army Corps of Engineers  
U.S. Department of Treasury

### **Participating Agencies:**

Environmental Protection Agency  
Federal Aviation Administration  
Federal Emergency Management Agency  
Federal Highway Administration  
Federal Maritime Commission  
Federal Railroad Administration  
International Trade Administration  
Maritime Administration  
National Geospatial-Intelligence Agency  
National Oceanic and Atmospheric Administration  
National Maritime Intelligence – Integration Office  
Transportation Security Administration  
U.S. Army Corps of Engineers  
U.S. Coast Guard  
U.S. Department of Agriculture  
U.S. Department of Homeland Security  
U.S. Department of Transportation  
U.S. Department of Transportation, Office of the Secretary  
U.S. Transportation Command  
U.S. Department of Treasury

### **Purpose:**

The Supply Chain and Infrastructure Integrated Action Team (SCIIAT) was formed by combining the Infrastructure Investment IAT with the Supply Chain Working Group (SCWG). The Infrastructure Investment IAT was approved by the CMTS Coordinating Board in 2012, and the SCWG was formed in 2020 in response to the COVID-19 public health emergency.

### **Value:**

The SCIIAT seeks to enhance interagency discussion, communication, and recommendations and/or actions in support of the MTS supply chain. Furthermore, it is also the forum for facilitating the development of broad evaluation and decision criteria used to inform a whole-of-government approach to Federal infrastructure investment.