



The future for maritime R&D

Transportation systems down the road will need to leverage MTS resources

- Vast capacity for freight and passengers
- More efficient energy utilization
- Significantly less environmental impacts
 - Landside interference (Congestion & Livability)
 - Carbon footprint
- Improved transportation safety
 - By removing long haul freight from vehicular roadways
 - By transporting hazardous cargo away from populated areas
- Reduced Transportation system cost
 - Construction
 - Maintenance
- Other modes don't have the growth capacity of MTS
 - MTS has much to offer in way of transportation solutions
 - As a result of availability capacity, MTS will be utilized in the future

Maritime R&D



- 1. What do we want the national MTS of the future to look like?**
- 2. Vision - A robust, well designed, constructed and maintained MTS that is effectively integrated into the total transportation system and supply chain, with the capability to expand to meet increasing capacity requirement.**
- 3. How do we get there?**
- 4. What can the industry do?**
- 5. What can the CMTS partners do?**



What can the industry do?

- Educate the nation about the MTS asset that should be utilized to solve future national transportation & economic needs
- Move forward with research and deployment of technologies that will improve the efficiency, safety, security and environmental stewardship of your operations
- Research and development business opportunities that utilize MTS as an element of the transportation system to move people and freight
- Leveraging federal partners to advance better utilization of the MTS
- Working with academia, study MTS utilization opportunity to improve the transportation system
- Cultivate maritime industry collaboration to increase MTS utilization and integration through R&D opportunities
 - Operators
 - Shipbuilding
 - Ports
 - Association
 - Regions

Maritime R&D



What can CMTS partners do?

Partners

USACE

NOAA

DHS

DOT

EPA

DOD

Energy

BOEMRE

TRB

others

Assets

R&D activities

Infrastructure data/models

Trade/freight data

Academic center

Charting/weather data

Safety, security & customs data

Human Factors Research

Intermodal data

Environmental data

DOD Dual use requirements

Transportation Committee

Marine Board

TRB Cooperative

TRIS/RIP/RNS

AASHTO/SCOR

CMTS R&D Strategies

Collaborative MTS R&D BAA's

Set foundation for MTS modeling

Facilitate MTS intermodal integration

Coordinate academic centers R&D

Leverage partner resources

Maritime Cooperative Program

Collaboration for greening MTS

Identify MTS funding mechanisms

Facilitate access to data/metrics

Coordinate agencies R&D Strategies

Define MTS R&D requirement

Clearing house for MTS R&D needs

Facilitate research fellowships

Provide a consolidated MTS vision

Support MTS for public good