

# Transforming the Marine Transportation System:

A Vision for Research and Development

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# MTS Priorities

- Capacity
- Safety and security
- Environmental stewardship
- Resilience and reliability
- Finance

System Performance

Livability

# The MTS Needs Help

- Domestic
  - Need a supply of suitable vessels
  - Must be better integrated with other modes
  - Must fix locks and dams
- International
  - Must be efficient from origin to destination—not just on water
  - Must quit relying on “land grabs” for capacity expansion
  - Must deal with air and water quality issues
  - Fewer solid lines—more “fly by nights”

# National CMTS Research Strategy-- Advantages

- Would support applied research on most pressing issues
- Would provide a forum for various factions to work out “best approaches”
- Should help avoid duplication of effort
- Would encourage sharing of knowledge

# National CMTS Research Strategy-- Challenges

- Must be able to look ahead and decide what will be relevant when the research is published
- Need a quick engagement and delivery mechanism

# Preparing the Next Generation

- Must have a “logistics focus” in our programs—not just marine transportation
- Need more internship opportunities
- Need to provide a better system of making job opportunities known
- TTI – keep students involved in conducting and presenting research

# How Can We Help the Strategy?

- Do some “forward” thinking—describe what may transpire under certain scenarios
- Learn how to better integrate the modes
- Develop better understanding of and methodologies for dealing with air and water pollution
- Facilitate dissemination of knowledge
- Help bridge industry/government gap

# R&D Program

- Vessel design and construction, especially for SSS
- Cargo-handling technology
- Integration of security and business processes
- Foreseeable shifts in trading blocs
- Measures that will help assess alternatives across modes
- Define data gaps and what must be done to fill them
- Integration of security and business processes



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