Regional Maritime Strategy

• Released in June 2016
• Goals - Double maritime trade, shrink the environmental impact of transportation, and support the region’s industrial core
• Collaborative process including government, industry, NGOs and other partners; public comments
• Policies, programs, and projects to grow the economy and create jobs
Smart Ships Initiative

A tremendous opportunity

• Emerging technologies like advanced propulsion and shore-based control
• Exponential growth
• Create new high-paying, high-skill jobs
• Near-term focus on research, hazardous response, and operation in dangerous conditions
• Enhance safety, security, and efficiency of maritime transportation
Smart Ships Initiative

• Builds on regional strengths including maritime, automobile manufacturing, and IT

• MOU creates collaboration with Norwegian Forum for Autonomous Ships (NFAS), and launches regional Smart Ships Coalition.

• Develop policy recommendations – Smart Ships Action Plan
Smart Ships Initiative

- Smart Ships Action Plan
- Smart Ships Coalition
- Marine Autonomy Research Site
Smart Ships Action Plan

Recommendations for the federal governments

- Develop a harmonized regulatory framework to provide predictability
  - Create common standards and harmonized definitions of key terms.
- Smart ship operations should be regulated in the same manner as conventional vessels.
Smart Ships Action Plan

Recommendations for the federal governments

- Encourage testing and certification of smart ship technologies by federal agencies at the Marine Autonomy Research Site
  - Coast Guard, Navy, NOAA
- Dedicated funding for research into fuel, emissions, and cost savings of this technology
  - Batteries, LNG, new vessel designs
- Support the Smart Ships Coalition’s efforts to facilitate workforce development through training and education
Smart Ships Action Plan

Recommendations for the federal governments

• Encourage industry and governmental collaboration to ensure cybersecurity

• Work through IMO to put in place global regulatory standards that provide long-term certainty for the operation of smart ships.
• **The States and Provinces should** explore strategic partnerships with universities, research institutions, and the private sector to promote research and development.

• **Industry should** develop a basic code of conduct that can be used to provide predictability for near-term technology deployment and that could be the basis for future governmental regulation.