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UNITED FOR GROWTH

Smart Ships Action Plan

December 4, 2018

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



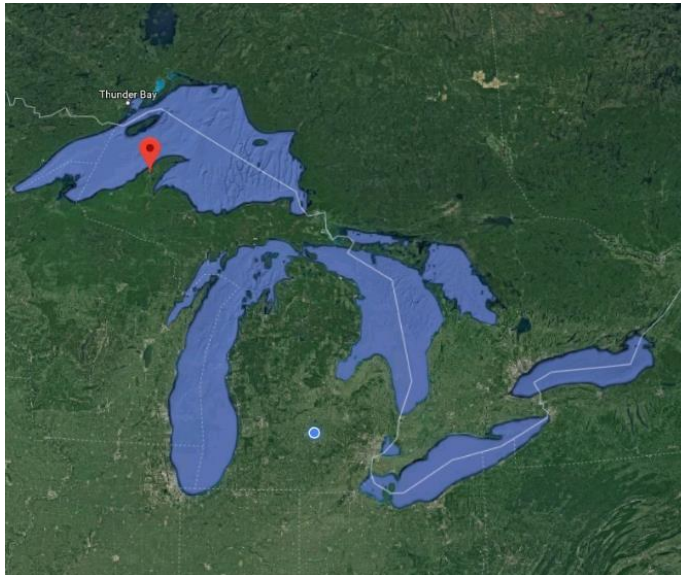
Smart Ships Initiative

- 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

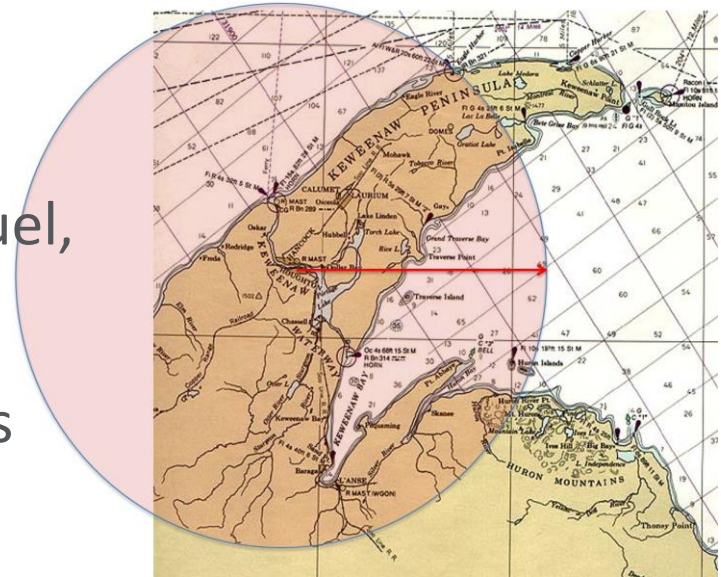
- Develop a harmonized regulatory framework to provide predictability
 - Create common standards and harmonized definitions of key terms.
 - Smart ship operations should be regulated in the same manner as conventional vessels.



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.



Smart Ships Action Plan

- **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.





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