

Modernizing the Bi-National Great Lakes Seaway



*Bruce Hodgson
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SLSMC*

- System Overview
 - Economic Impact
- Technology
 - Self Spotting
 - 3D Navigation
 - Hands Free Mooring
 - Remote Operation
- What's Next?

AN OVERVIEW:

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The Great Lakes / Seaway System

- Your gateway to the heartland of North America
- 3,700 km marine highway
- 41 ports connected to the System
- serves a region that is:
 - home to 100 million people
 - 26% of US industry
 - 60% of Canadian industry



We like to call it.....Hwy H₂O

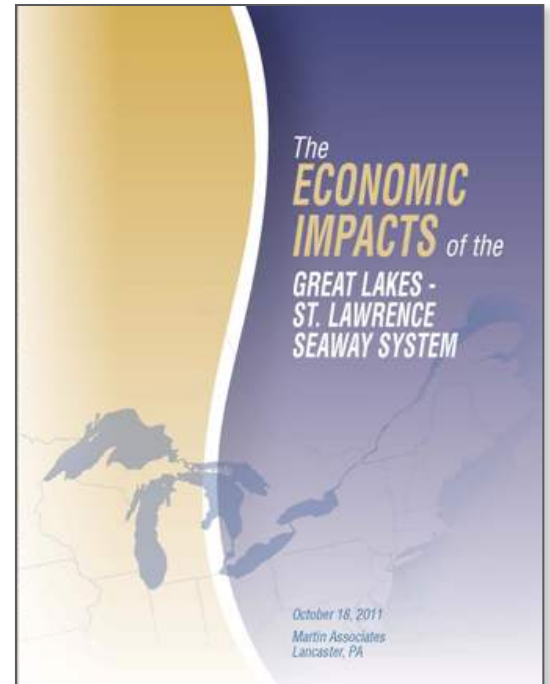


ECONOMIC IMPACT OF GLSLS SYSTEM

4

In CDN \$

- **227,000** jobs
- **\$34.6** billion economic contribution
- **\$14.5** billion in personal income
- **\$4.7** billion in taxes paid to federal, state, provincial governments





- **\$56 million** by Canadian Seaway for the 2018/19 fiscal year



- **\$9.5-18.5million** by U.S. Seaway for the 2018 fiscal year

LEVERAGING TECHNOLOGY

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Hydraulic Gates / Valves



Hydraulic Ship Arrestors



Self spotting



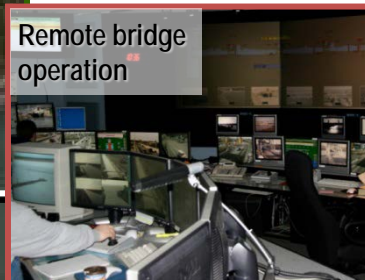
3D navigation
draft optimization



Hands Free Mooring



Remote bridge
operation



VESSEL MOORING (PAST)

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HANDS FREE MOORING

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HANDS FREE MOORING

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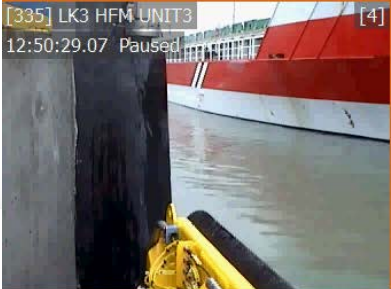
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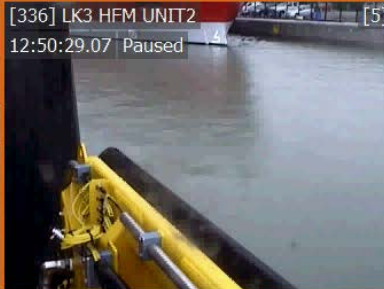
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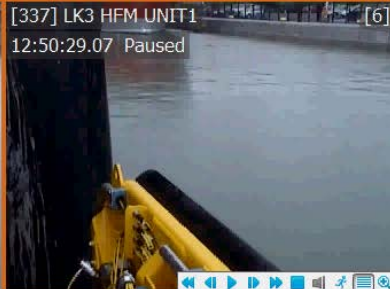
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REMOTE OPERATIONS

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WHAT'S NEXT?

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E-Shipping/ Smart Shipping

- Continue to automate our processes in all aspects of the company
 - Ex/ e-billing
- Eliminating any duplication of work internally and with any external partners
- Working with our partners to streamline vessel scheduling



GET IN TOUCH

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