



# Freight Market Development in the Great Lakes: Why? How?

Marine Highways and Marine Freight Development in the MAFC

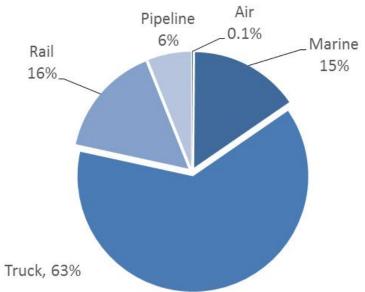
**Solutions** for growing economies

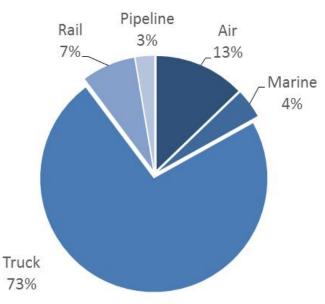
Marc-André Roy April 22, 2pm Chicago, IL

#### **Market Share**

Of the total freight traffic moving to, from and within the Great Lakes states and provinces, the marine mode carries approximately 15% by volume (tonnage) and 5% by value

(\$) Weight (Tons) Value (\$)



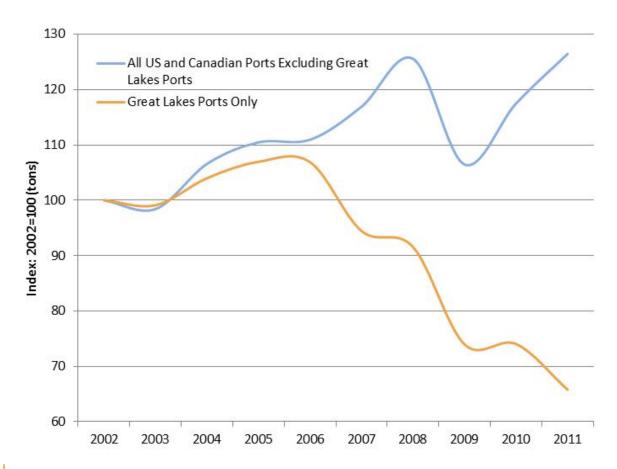


Source: CPCS analysis of data from Freight Analysis Framework (2007), other sources



## The Bad News: Market Share is Declining

Traffic through Great Lakes ports not keeping pace with traffic through non-Great Lakes ports in the US and Canada.

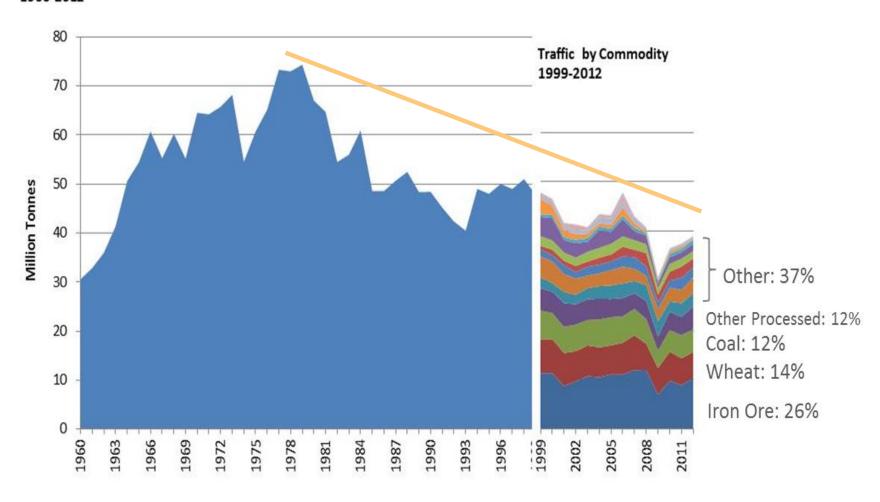






## Longer Term Trend also One of Decline

#### St.Lawrence Seaway Traffic 1960-2012





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#### Market Influenced by Many Things:

- Geography, including the geographic location of cargo with respect to end markets
- Macro-economic factors, including global economic cycles
- Sector-specific trends and shipper supplychain requirements
- The structural and institutional context within which the Great Lakes region competes
- The competitiveness of the marine transportation system, relative to competing modes & routings

These factors are difficult to control and influence

Future market development is all about competitiveness





#### Session Overview

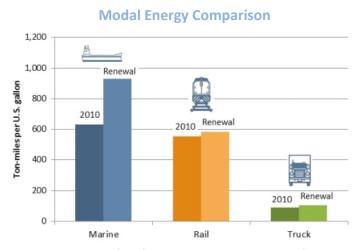
- Why seek market development?
- HOW to enable market development?





### Arguments For Marine Market Development Well Known

- Cost: Most economic mode on a per ton basis
- Capacity: Opportunity to alleviate congested land transportation system / reduce wear tear on roads
- Safety: Lower rate of accidents relative to other modes
- Environment: More energy efficient that rail and truck



Source: RTG analyses of confidential marine carrier data, reformatted by CPCS



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#### Its about more than this...

It's about regional economic competitiveness, economic growth, jobs.

## Transportation is a DERIVED demand.

When transportation options are efficient and competitive, shippers benefit from lower transport costs, faster and better service, and increased reliability, which in turn contribute to their competitiveness and growth and those of the broader region.





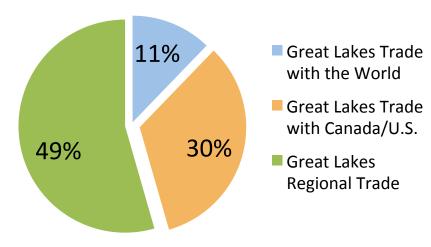
## It's About the Economy

- \$5.3 trillion: Estimated GDP of Great Lakes States and Provinces in 2012 (more than GDP of UK and France combined)
- 7.8 million jobs: Estimated employment in Great Lakes
   States and Provinces for primary users of freight
   transportation (i.e. goods-producing industries) in 2012

**\$3.0 Trillions**: Value of **Goods**Shipped from / to the Great
Lakes region

(i.e. "stuff" that <u>moves</u> represents significant share of of regional economy)

#### Where are Goods Moving?







## Major Commodities Moving Through Region

The major commodities moving to, from or within the Great Lakes St. Lawrence River (GLSLR) Region (all modes) include:

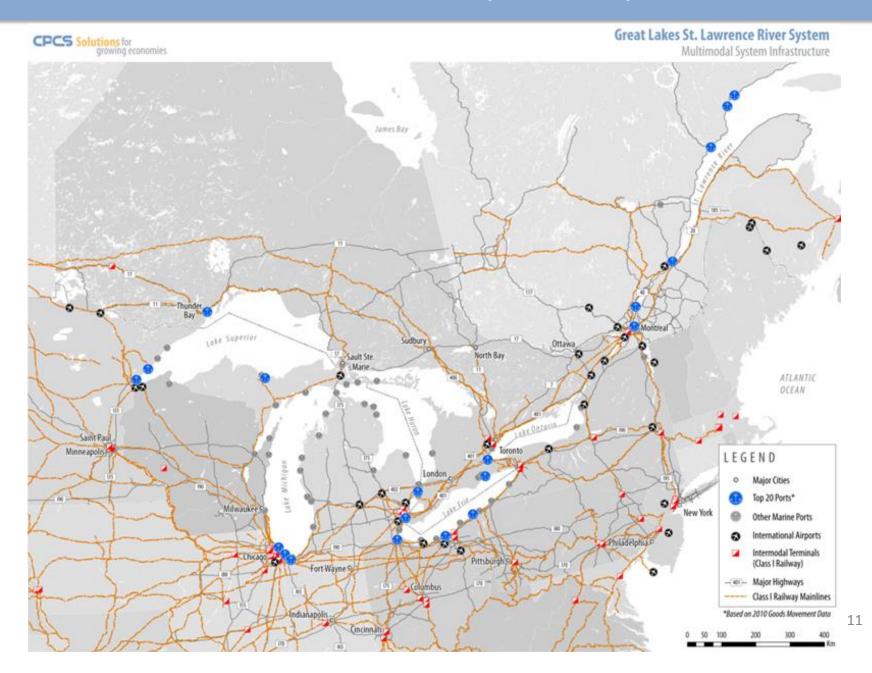
- Coal (largely for regional power production),
- Iron ore (for regional steel production and export),
- Limestone and cement (for regional construction)
- Grain & agricultural products (local consumption and export),
- Automotive & machinery (supporting local manufacturing base),
- Other manufactured goods (including containerized imports)

i.e. Bulk commodities and industrial goods, dependant on low cost transport, comprise significant part of regional economy.

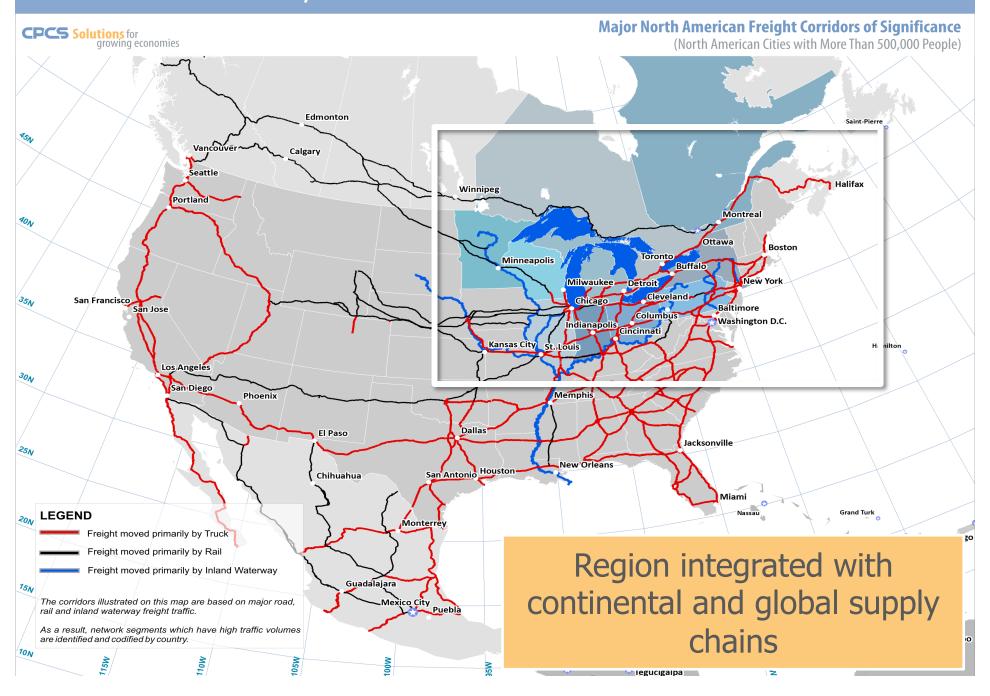




## It's About Multimodal Transport / Options



#### It's About Connectivity between Sources of Production and Markets



## It's About [Regional Economic] Competitiveness

- Jurisdictions with access to competitive transportation infrastructure and services (the more the better) are at a competitive advantage in attracting investment, creating jobs and realizing economic growth.
- All regional stakeholders could benefit from a more competitive marine system – whether or not they transport goods by water.





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#### Roles in the Market

- Shippers ARE `the market`. They choose!
- Carriers offer services
- Governments enable

It is not for governments to prescribe what traffic should shift to marine, or to favor the marine mode over others... but it can enable a more competitive, efficient, safe marine transportation system (the market will do the rest).

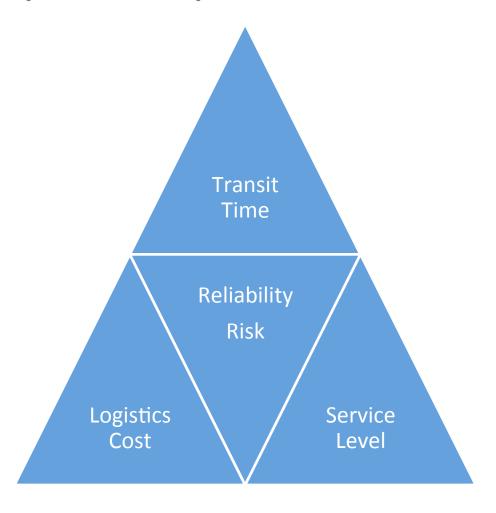




#### Shippers: Mode Choice & Routing Driven by Shipper Requirements

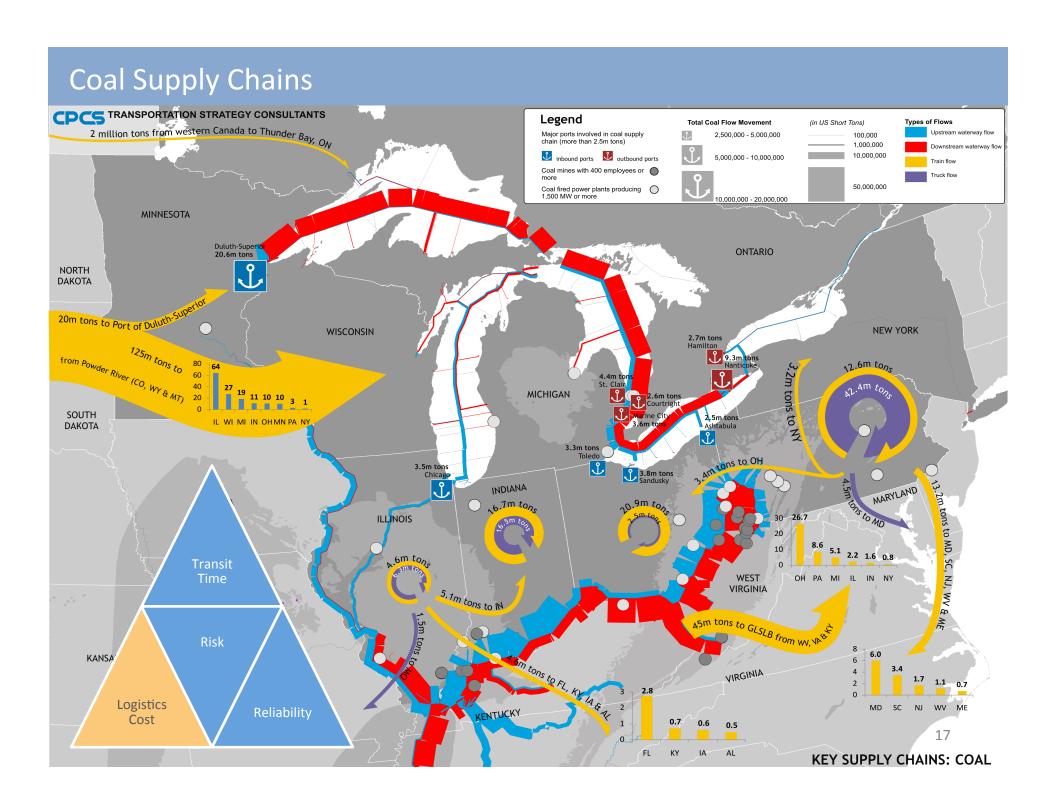
#### "Performance" vis-à-vis transportation requirements:

Performance is Supply Chain Specific

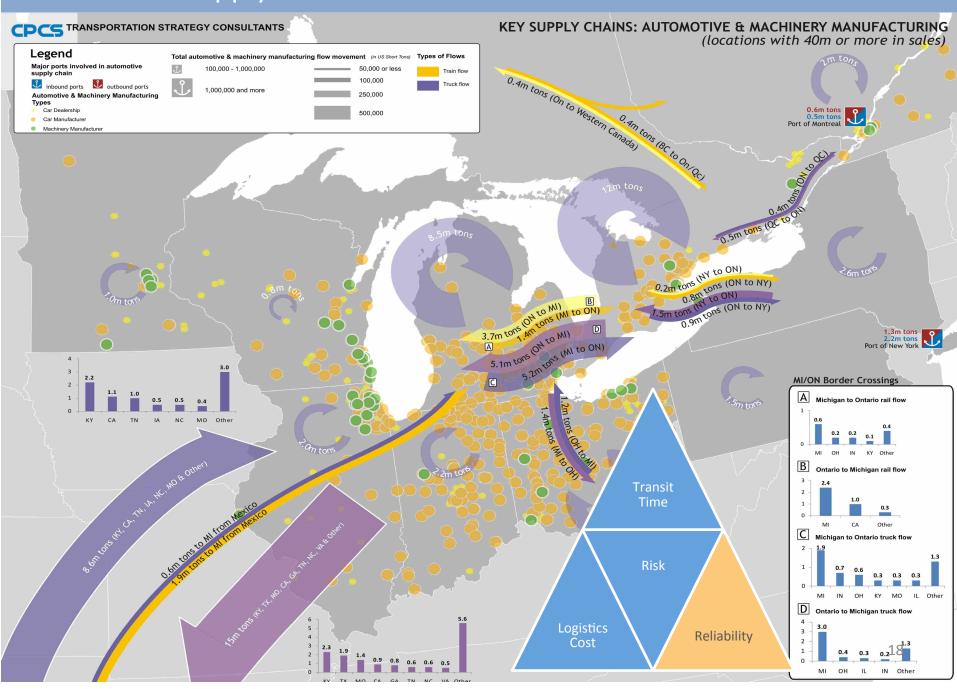




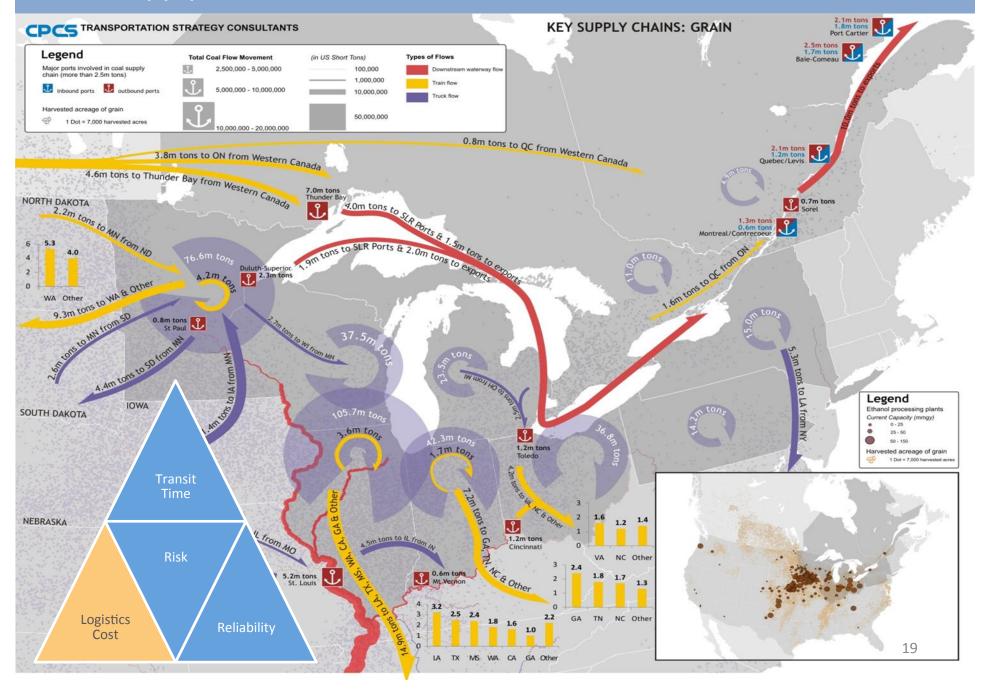




#### **Automotive Supply Chains**



#### **Grain Supply Chains**



#### Carriers: Make the Service Available... When Profitable

#### Carrier considerations:

- Critical mass adequate volumes/ frequency to warrant service ?
  - (Chicken and egg service before demand, or demand before service?)
- Balanced traffic (e.g. payload in both directions?)
- Overall profitability / risk of new service?
- Availability of capacity (right place/right time)?

Point: Availability of service not just a function of demand





#### Government: Role as Market Enabler, but Currently Many Barriers

- Marine transportation charges (not incurred by other modes)
  - Harbor Maintenance Tax, Seaway tolls (Can), pilotage, etc.
- Underinvestment in the system
  - Navigational channels (dredging)
  - Landside infrastructure, locks
  - Aging US Great Lakes fleet
- Regulatory barriers and uncertainty
  - Cabotage regulations
  - Ballast water regulations
  - Air emissions regulations
  - US advance notice of arrival requirements





## The Market Development Challenge:

- Shippers need to see and understand value of marine
- Carriers need appropriate incentives to provide service
- Governments need to coordinate actions to address barriers, reflect full potential of marine in multimodal freight plans.

This jives with directions in MAP-21

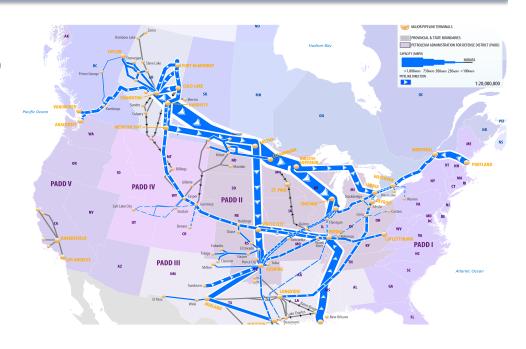




## New Market Opportunities?

- Petroleum markets?
- Project cargo?
- Containers?

## Time will tell...



My opinion: new markets unlikely to develop in any significant way until competitive barriers start to be addressed...or land capacity becomes more constrained than it already is.





## Some ongoing initiatives....



Unlocking the Value of the Great Lakes-St. Lawrence River Maritime Transportation System

Prepared for:

Council of Great Lakes Governors

Great Lakes-St. Lawrence River Maritime Task Force

Prepared by:

Marc-André Roy

**CPCS** 

Solutions for

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#### Government

- Council of Great Lakes
   Governors Maritime
   Initiatives
- Federal initiatives (Strong Ports, Marine Highways)
- Industry
  - Highway H2O
  - Cleveland Express
  - Work of associations



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## Parting Thought...

Achieving freight market development in the Great Lakes will take coordinated action, investment, sustained energy and time...lots of time.





## **Questions and Discussions**



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