

# Ontario-Québec Smart Corridor

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Presentation by

**Lise Filion**

ITS Coordinator

Office of External Affairs

## ***Connectivity Beyond the Borders***

Eastern Border Transportation Coalition

2011 Fall Workshop – September 13<sup>th</sup>

Courtyard by Marriott - Saratoga Springs (NY)



# Agenda

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- Terminology
- *Ontario-Québec Smart Corridor*
- Background :
  - Foreign trade : a Québec perspective
  - Trade and Cooperation Agreement between Québec and Ontario
  - Gateways and corridors

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# ITS Definition

Intelligent transportation system  
ITS  
Intelligent transport system  
transport information and control system  
TICS



- ❑ Interactive system
- ❑ for the collection, processing and dissemination of information
- ❑ applied to the field of transportation,
- ❑ based on the integration of information and communication technologies
- ❑ into infrastructures and vehicles
- ❑ in order to improve the management and operation of transportation networks and associated user services.
- ❑ **fr** système de transport intelligent n. m.
- ❑ **es** sistema inteligente de transporte n. m.

# ITS Terminology



## smart

intelligent

- ☐ Possessing the electronic or IT resources necessary to process data collected or received in an autonomous way, and to use information to command actions.
- ☐ Note. – A smart apparatus, machine, device or system generally uses a microprocessor.
- ☐ **fr** intelligent adj.
- ☐ **es** inteligente adj.

# Example elements of a Smart Corridor

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- ❑ Electronic filing of credentials/reporting;
- ❑ Automated means of inspection;
- ❑ Automated authentication of vehicles, cargo, and personnel;
- ❑ Seamless electronic transactions/payments;
- ❑ Terminal reservations;
- ❑ Dangerous goods tracking; and
- ❑ Readily accessible current/predictive travel conditions information.

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# Ontario-Québec Smart Corridor

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- ❑ The development of a Smart Corridor Concept of Operations for Ontario and Quebec and underlying Regional ITS Architecture
- ❑ Transport Canada launched the RFP in December 2010 and signed the contract in March 2011.
- ❑ The IBI's team began the work in April 2011 and should achieved the deliverables at the end of March 2012.



# The Ontario-Québec Corridor

□ Goods movement across all modes



□ Includes intermodal terminals, highways and border crossings



# Ontario-Québec Smart Corridor

The primary objective of the Smart Corridor is

- to support a sustainable, secure and efficient multimodal transportation system
- to keep Canada's economic heartland
  - competitive,
  - attractive for investment and
  - essential for trade.



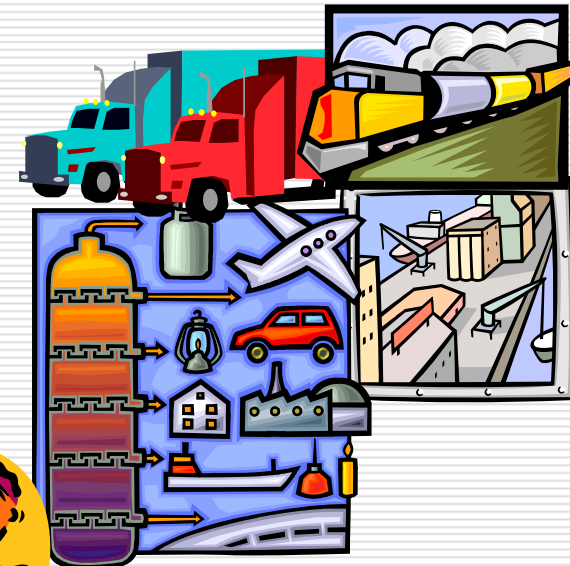
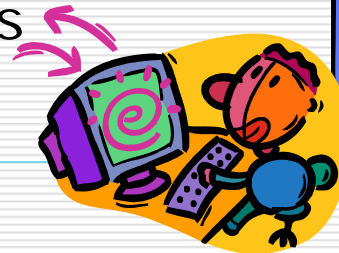
# Stakeholder Outreach

- ❑ *Concept of Operations and underlying Regional ITS Architecture will be developed through stakeholder consultation to represent a consensus roadmap for how various system elements can work together*



Sectors included in outreach:

- ❑ Carriers, shippers, logistics providers, terminal operators
- ❑ Public sector transportation authorities
- ❑ International border authorities
- ❑ Information service providers
- ❑ Academia





# Consultation process



June 2011

Workshop # 1  
**Stakeholder Needs and Roles**

October 2011

Workshop # 2  
**User Views and Priority Services**

December 2011

Webinar # 1  
**The ITS Architecture to Support the  
Concept of Operations**

January 2012

Webinar # 2  
**Project Implementation Programming**

February 2012

Final Presentation  
**Vision for the Smart Corridor**



# Workshop # 1

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Jun 20 - 26	Jun 20 Montreal Workshop	21 Sherbrooke Workshop	22 Quebec Workshop	23	24	25	26
Jun 27 - Jul 3	27 Windsor Workshop	28 Toronto Workshop	29 Gatineau Workshop	30	Jul 1	2	3

- First round of User Needs Stakeholder Workshops were conducted in Quebec and Ontario (Jun 20-29)
  - Covered extremities of the Corridor, major metropolitan areas of both provinces and alternate movement paths to the north and south
  - Intro to architecture and vision for the Corridor ConOps
  - Breakout sessions to brainstorm **Strengths, Weaknesses, Opportunities, Threats, Existing Systems and Needs**

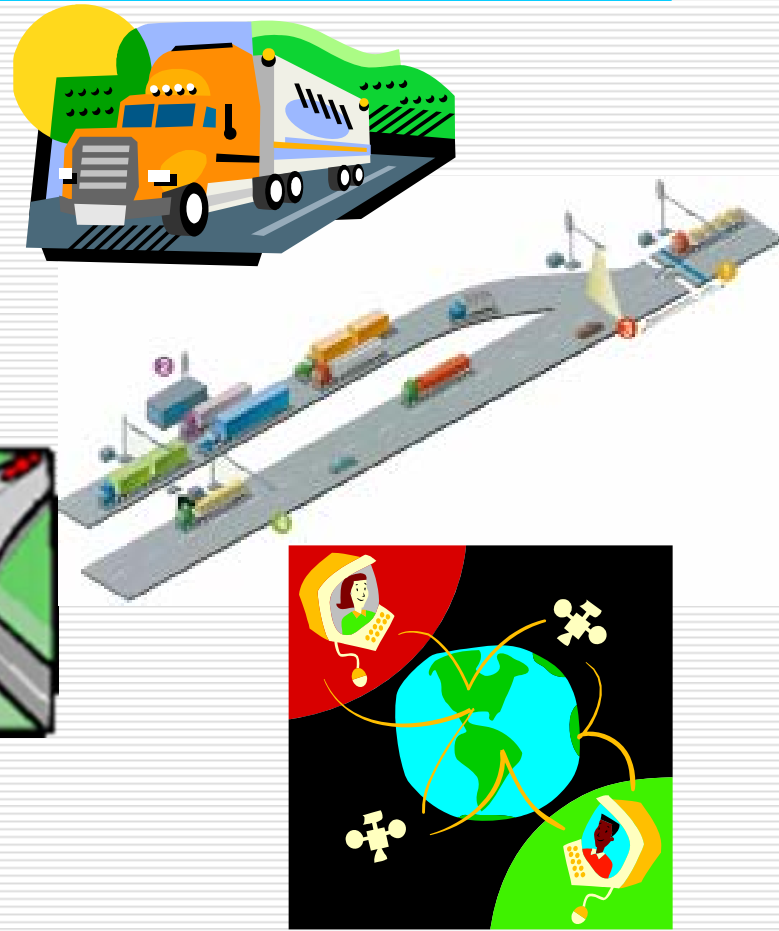
**Workshop # 1**

Map of Eastern Canada showing the Great Lakes region and surrounding areas. The map highlights several cities with blue circles and labels: Québec, Ottawa/Gatineau, Montréal, Sherbrooke, Toronto, and Windsor. The map also shows major highways, lakes, and surrounding provinces and states.



# Overall Priority Service Packages (from Workshop # 1)

- ❑ Fleet and freight management;
- ❑ Expedited inspection and administration for commercial vehicles and goods;
- ❑ Traffic and incident management; and
- ❑ Collection and distribution of real-time traveller information.



# The project website :

<http://onqcsmartcorridor-onqccorridorintelligent.ca/>





## Ontario-Quebec Smart Corridor

[Home](#)[Upcoming Events](#)[Downloads](#)

### Upcoming Stakeholder Events

A key aspect of the development effort is the engagement of, and coalition building among, public and private sector stakeholders such as you. Over the duration of the project, stakeholders will be invited to several 'hands-on' workshops used to present materials and advance the Concept of Operations.

Our second set of workshops, focusing on "User Needs" is scheduled as follows:

**October 3rd, 9:30AM-3:30PM – Windsor, ON**

*Location:* CIBC Building (3rd Floor)

*Address:* 100 Ouellette Avenue

*Room:* Suite 300

**October 4th, 9:30AM-3:30PM – Toronto, ON**

*Location:* The Toronto Airport Hotel

*Address:* 600 Dixon Road

*Room:* Centennial A

**October 12th, 9:30AM-3:30PM – Quebec City, QC**

*Location:* Loews, Hôtel le Concorde, Québec

*Address:* 1225 cours du Général-De Montcalm

*Room:* Jean-Paul Lemieux

**October 13th, 9:30AM-3:30PM – Montreal, QC**

*Location:* Transport Canada

*Address:* 800 René Lévesque Blvd. West

*Room:* 3rd Floor, Meeting Rooms 3 & 4

**October 14th, 9:30AM-3:30PM – Ottawa, ON/Gatineau, QC**

*Location:* l'Édifice Jos Montferrand

*Address:* 170, rue de L'Hôtel-de-Ville (Gatineau, QC)

*Room:* Lobby, 700-A & 700-B

[Agenda](#)

# Agenda

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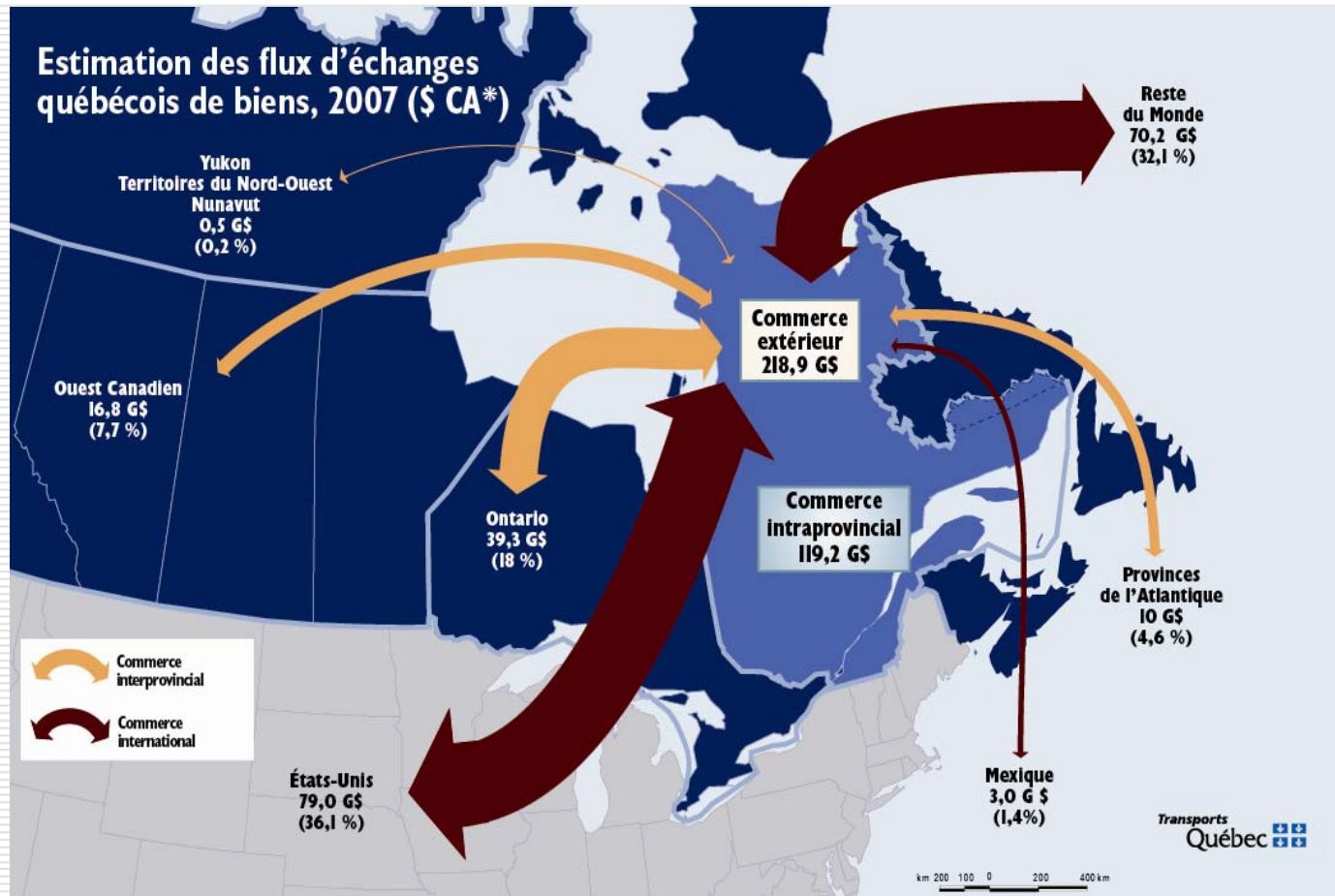
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# Foreign trade is key to Quebec's economy



# *Trade and Cooperation Agreement between Québec and Ontario*

- Two aspects for the measures in transport
  - Conciliation (regulatory) (19 measures)
    - Example :
      - Speed Limiters
  - Cooperation (5 measures)
    - Examples :
      - Traveller Information Systems
      - Continental Gateway and Trade Corridor
- New Initiatives : Smart Corridor



# Canada's Gateways

## Aligning Transportation and International Trade



Source : Transport Canada

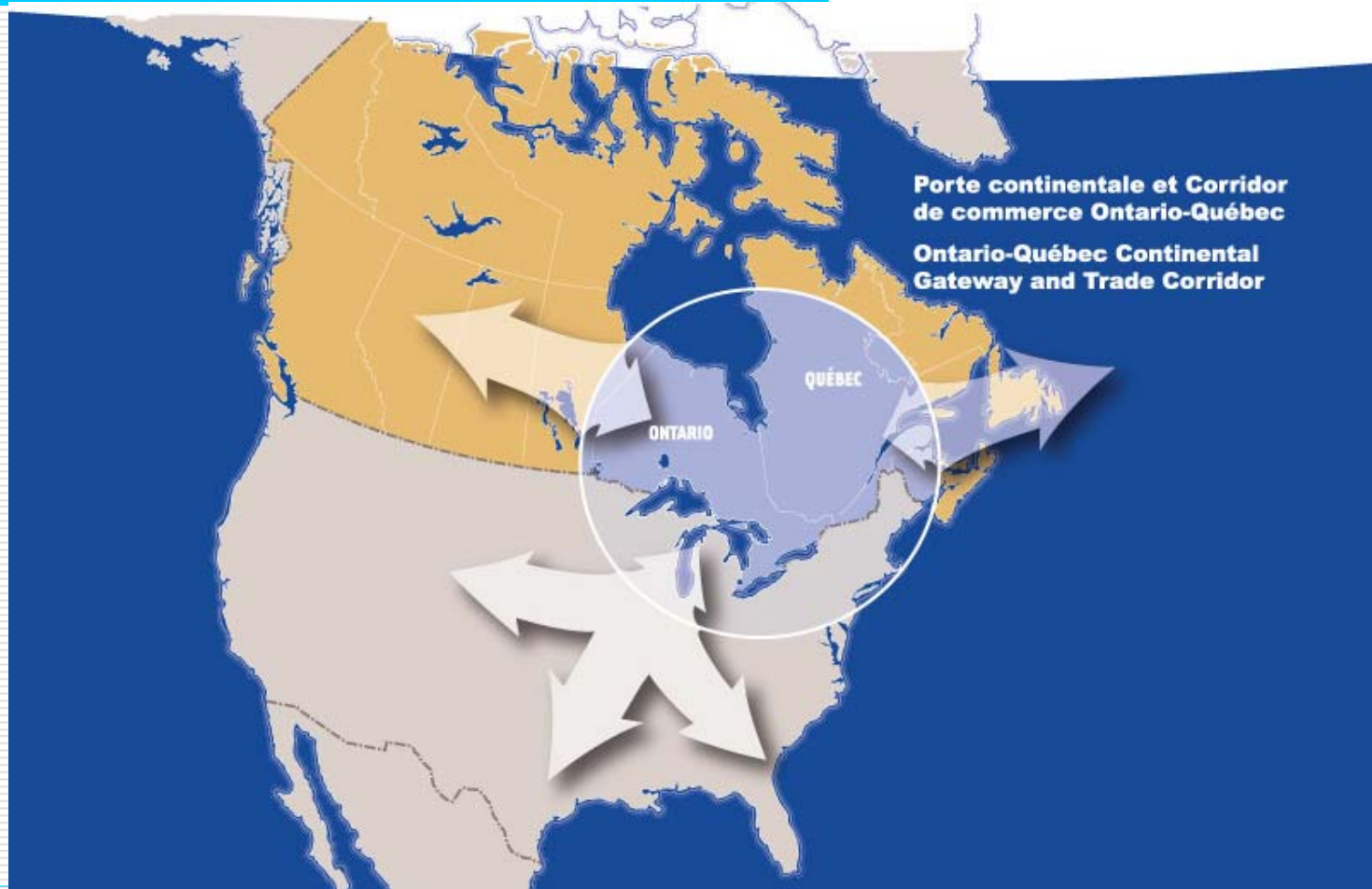


# Ontario-Québec Continental Gateway and Trade Corridor



- <http://www.portecontinentale.ca/>
- Develop a joint strategy for the development of the Continental Gateway as a system of strategic, effective, safe and sustainable in support of the international trade
- Joint strategy endorsed by Quebec and Ontario in the fall of 2009  
Federal approval process completed in February 2011
- Discussions required between the federal and Québec concerning the publication of the strategy and investment needs

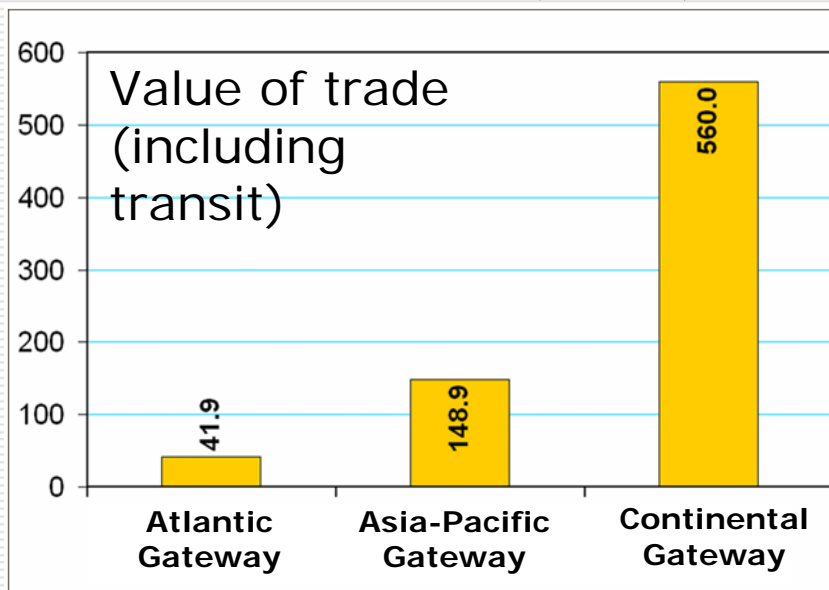
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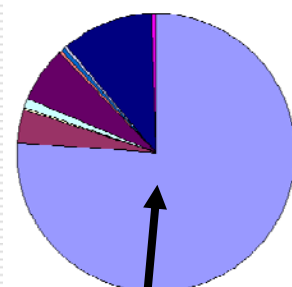
## Main corridor of Canada

*Continental Gateway*: almost **three times (560B\$)** the value of the exchanges for the doors Asia Pacific and Atlantic combined (2007)



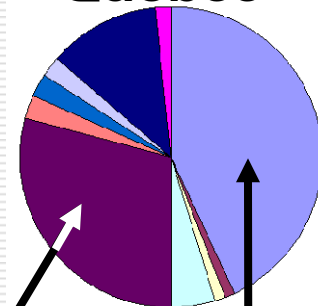
### Total exchanges (2007)

#### Ontario



United States  
333,4 B\$  
76,2 %

#### Québec



Western Europe  
34,6 B\$  
29,0 %

United States  
51,5 B\$  
43,0 %

- Ontario relies on its trade with the United States
- Québec trading partners are more diverse



# Continental Gateway and Trade Corridor

## Access to markets



- ❑ Located in the northeast of the continent, opened on Atlantic
- ❑ Shortest distance between Europe and the heart of the North America by the St. Lawrence / Great Lakes system
- ❑ Within a radius of 1000 kilometers away : direct access to over 135 million consumers
- ❑ NAFTA markets : Canada, United States, Mexico with 450 million consumers

# Challenges to be addressed

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- ❑ 1.The transportation system must operate efficiently to remain competitive
- ❑ 2.The four modes (marine, rail, road and air) must be integrated to improve the fluidity and the interconnection between them
- ❑ 3.The transport system must have the capacity to meet current and future needs
- ❑ 4.The transportation system must be sustainable
- ❑ 5.The safety and security measures should make the system stronger without however slow trade

The evolution of global realities require that the transportation system be modified

# Thank you !

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- ❑ Lise Fillion
- ❑ ITS Coordinator
- ❑ Transports Québec
- ❑ Office of External Affairs
- ❑ 35, rue de Port-Royal Est,  
Montréal (Québec) Canada
- ❑ (514) 873-2163, ext. 5091
- ❑ lise.fillion@mtq.gouv.qc.ca



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