

# **TORONTO REGION BOARD OF TRADE**

Movement of Goods Initiative Update

November 27, 2018

### **Toronto Region Board of Trade – Transportation Summit 4.0**

PRESENTED BY

SNC · LAVALIN

# 4th Transportation Summit: UPLOADING OPPORTUNITIES



TORONTO

REGION

BOARD OF TRADE

KEYNOTE SPEAKER

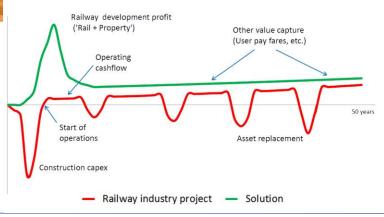
LINCOLN LEONG CEO MTR Corporation Ltd. Leading global cities have world-class transportation systems that unlock their potential. Ours has failed to keep up. The result is congestion that keeps people and goods on roads too long, slowing prosperity and costing the region billions.

Inspired by these cities, and the Board's *Superlinx* proposal, our annual day of discussion and advocacy will bring together international and local experts to help share the Ontario Government's transit uploading agenda.



### Railway Funding – Applying MTR's Solution

#### **Project Net Cashflow**











Region of Pee working with you



### **Toronto Region Board of Trade – Transportation Summit 4.0**

## THE REGION WEIGHS IN ON UPLOADING TRANSIT





### **SUPERLINX**

The idea of putting a regional transit agency in charge of overseeing, planning, building and operating local and regional transit services.

#### **RESPONSES BY REGION**

	WATERLOO	HAMILTON	HALTON	PEEL	TORONTO	YORK	DURHAM
Satisfaction with the local transit system	63%	67%	66%	71%	59%	55%	67%
Believe commute has worsened in the past 12 months	31%	32%	36%	26%	28%	40%	41%
Agree regional transportation systems require a significant overhaul	81%	83%	88%	76%	91%	87%	82%
Support the Superlinx proposal	67%	65%	88%	87%	74%	89%	78%

### WHO TOOK THE SURVEY





RESEARCH

SUPPORT



 INCOME BY HOUSEHOLD

 18%
 Under \$40K

 16%
 \$40K - \$60K

 16%
 \$60K - \$80K

 17%
 \$80K - \$100K

 22%
 \$100K - \$150K

 10%
 More than \$150K

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EMPLOYMENT BREAKDOWN 49% Full-time 13% Part-time 20% Retired 2% Student



6 Work from home Full-time

4% Unemployed

-//Purolator



HOW MANY HAVE A CAR: 43% 1 car 35% 2 cars 10% 3+ vehicles 13% No car

Region of Peel

vorking with you



Teronto

Board

**Real Estate** 

Toronto Region Board of Trade acts as a catalyst for, and why the region biases community. One of the fastest grooking metros in North America, Toronto is a vibrant, global city, consistently ranking among the world's top cities for quality of like. Howeve, once deemed an envible strength, the region's transt system has become a significant weakness. Congestion a getting worse a more readent commute regionally across multiple lines. We require a neglonal transit agency with the authority to integrate the one million reaidents who have moved into the region over the past 10 years, and the millions more animing in the coming decisio. Learn more about the Board's transit policies at bot com and join the conversation by following our Onitient (@ToronteBOI) and LineAn.

HAMILTON

ENVIRONICS



# **Movement of Goods**

- The Board is leading 1<sup>st</sup> of its kind study to fill information gap on the challenges facing the Toronto-Waterloo Corridor's (the Region) businesses relying on goods movement.
- This work complements people movement.
- The Region is Canada's largest multimodal goods transportation hub: 1M tonnes/\$3B moves through the Region daily. GDP Impact 34% of Region/ 8% of Canada = \$171B. Jobs: 1.4M













-//Purolato



### **Toronto Region Board of Trade – Movement of Goods Series**

The challenge of getting around the congested transportation network of the Toronto-Waterloo Corridor is well known to both businesses, residents and visitors

The Movement of Goods series reports take a multimodal perspective, describing how air, marine, pipeline, rail and trucking interact in moving goods across the Corridor:























### **Three Bold Solutions for the Toronto – Waterloo Corridor**

The fifth report in the Movement of Goods series addresses the most pressing challenges in the Corridor

AIR CANADA 🏶



Purolator

HAMILTON

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# Infrastructure Options to Improve the Movement of Goods in Canada's Innovation Corridor













HAMILTON

### 6<sup>th</sup> Report Profiles Infrastructure Options to Improve the Movement of Goods in Canada's Innovation Corridor

**Objectives:** 

- ✓ A list that represents the top priorities of stakeholders across the modes to speak with "one voice"
- ✓ Infrastructure projects that will "move the needle" on goods movement
- Use the list to leverage funding and other support

The Corridor is Canada's pre-eminent transportation hub. A coordinated approach is needed to ensure its continued growth.



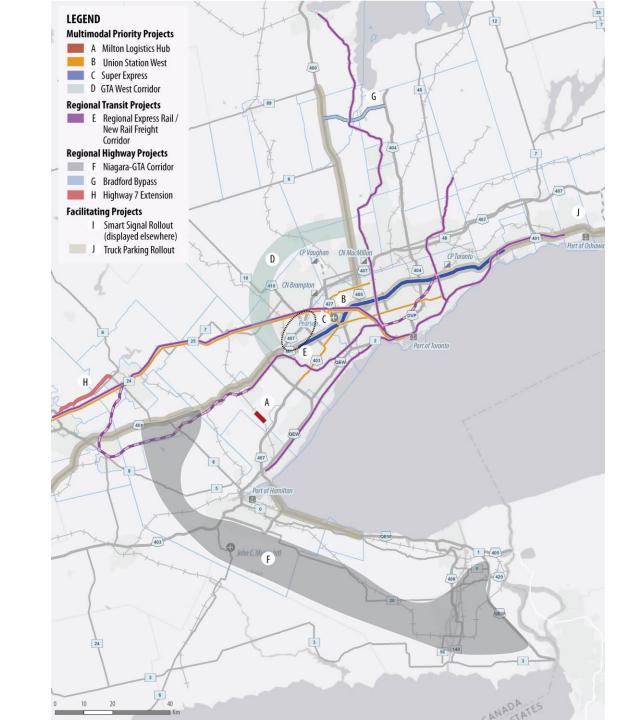
Projects to be included are ones that are:

- In the Corridor
- Large, big-impact projects
  - $\ensuremath{\circ}$  Infrastructure, not operations or policy
  - High-impact projects (not regular highway widening)
  - o Significant freight angle
- Public, or private with meaningful public role
- Not yet underway
- Actionable right away or in short term









### **Priority Multi-Modal Projects**

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Project	Location	Mode	Cost	Benefit
Milton Log. Hub	Halton	Intermodal (Rail)	\$250 m.	Address shortage of intermodal capacity Approve project that is privately funded
Union Station West	Near Pearson	Transit, Air	\$11-12 b.	Relieve congestion at largest freight hub Shift auto commuters to transit
Super Express	Peel / Toronto	Highway (8 km+)	\$2 b.	Address most severe freight bottleneck Complete express lane network
GTA West Corridor	York to Halton	Highway (50 km)	\$5 b.	Expand EW capacity at critical juncture Serve large goods movement hubs

# **Regional Transit Projects**

KITCHENER	BRAMPTON	
in church	FUTURE	
	Hurontario	
MILT FUTURE GO	Mississauga	
EXTENSION to CAMBRIDGE	Transitway	LAKE ONTARIO
-	GO Freight Train Lines Corridors	Map not to scale

Project	Location	Mode	Cost	Benefit
Regional Express Rail / New Rail	Region- wide	Transit	\$13.5 b for RER;	Enable high frequency use of GO lines
Freight Corridor			New Rail Freight Corridor: \$2B to complete the link; and \$3B to expand the wide corridor	Shift auto commuters to transit



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# **Regional Highway Projects**



Project	Location	Mode	Cost	Benefit
Niagara- GTA Corridor	Niagara/ Hamilton +	Highway (up to 100 km)	\$10 b.	Relieve congestion on QEW Provide alternate route to border
Bradford	York/	Highway	\$1-2 b.	Provide redundancy and connectivity
Bypass	Simcoe	(16 km)		Divert trucks from arterial roads
Highway 7	Waterloo/	Highway	\$1-2 b.	Connect two growing hubs/cities
Extension	Wellington	(19 km)		Provide alternative to congested 401

### Facilitating Projects = Low Hanging Fruit



Project	Location	Mode	Cost	Benefit
Smart Signals Rollout	Region- wide	Arterial Roads	\$500 m- \$1 b.	Improve flow on arterial road network Make signals adaptive in real-time
Truck Parking	Region- wide	Truck Support	<\$50M	Provide sufficient parking to meet rest requirements; Enable staging for city deliveries

### **Top 4 Projects Selected at Transportation Summit 4.0**

### MILTON LOGISTICS HUB

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CN is proposing to build and operate an intermodal hub on CN-owned land in Halton Region that will add 450,000 container units of annual capacity to supplement its existing intermodal terminal in Brampton. This project is driven by the growing demand for containerted goods in the Condor and across Canada. With the federal government investing heavily in coastal ports, there is an equally important need to increase inland capacity.

#### COST

\$250 million - entirely private funds.

#### TIMELINE

Short-term project. Currently in approvals stage.

#### IMPACT

Without this additional infrastructure, the Corridor risks becoming the bottleneck of key Canadian trade corridors. Moving goods by rail rather than highways is also environmentally friendly and reduces traffic congestion. Freight rail is on average four times as fuel efficient as trucking, and CN's intermodal network removes approximately 2 million long-haul trucks off Canadian highways annually.

MORE INFO: www.cn.ca/en/about-cn/milton-logistics-hub

### UNION STATION WEST



Toronto Pearson's operator, the Greater Toronto Alrports Authority (GTAA), has proposed a multi-modal transit and mobility hub at the alrport to serve as a second major ground mobility hub in the Corridor next to Union Station. The alrport area, with its central location, existing employment base and global air connectivity, is well-situated as a second hub to expand the capacity, reach and frequency of the regional transit network. Pearson already provides direct access to 70% of the world's economies through daily direct flights.

#### COST

~\$11-12 billion – Including extensions of possible transit lines.

TIMELINE Long-term project. Currently in an early design stage.

#### IMPACT

This area is the central freight duster and most congested part of the Corridor. A multi-modal transit and mobility hub will benefit the movement of goods by shifting single-occupancy automobile commuters off congested highways onto transit and by supporting Pearson's growth as a global hub, benefiting shippers across the Corridor through more direct flights to cities around the world. MORE INFO: www.torontopearson.com/regionalgrowth

#### NEW RAIL FREIGHT CORRIDOR & EXPANSION OF RER





Under Metrolinx's Regional Express Rail (RER) plan, the GO train network will be transformed with train electrification and 15-min two-way, all-day service, although not on the Milton, Kitchener (past Bramalea station) and Richmond Hill condors. The proposed new 15-km freight rail link in Halton Region would enable CN and/or CP freight trains to re-route away from in-demand passenger lines and thereby provide improved opportunities to implement RER on the Milton and Kitchener contdors, while supporting or improving freight capacity.

#### OST

 $\sim$  \$2 billion for completing the 'missing link' between the Milton and Kitchener lines, and an additional \$3 billion for expanding the CP mainline for a potential new alignment.

#### TIMELINE

Long-term project. Currently conceptual.

#### IMPACT

New and expanded highways alone are not enough to meet the demands of a rapidly growing region. Continuing to segregate freight and passenger trains will help increase the capacity to absorb growing demand for both passengers and freight.

MORE INFO: "The Missing Link - Final Report," Town of Milton, September 14, 2015.

### SMART SIGNALS ROLLOUT



A large-scale rollout of smart traffic lights across the arterial and collector road network throughout municipalities in the Corridor. Modern smart signals use video technology and machine learning to communicate with each other and optimize traffic flow in real-time. Video technology can also produce much richer traffic insights to support long-term planning. The City of Toronto has launched a smart signal pilot at 10 intersections on Yonge St in Midtown and 12 intersections on Sheppard Ave in Scarborough, testing two different technologies.

#### COS

~\$500 million for the Comdor's 7,000 traffic signals.

#### TIMELINE

Medium-term project. Currently at pilot stage with the City of Toronto.

#### IMPACT

Pilot projects of modern adaptive traffic signals elsewhere (e.g. Pittsburgh) have found reductions in travel time by 25%, braking by 30% and waiting time by more than 40%. Assuming at least 25% time savings, cars and trucks would save 15 minutes for every hour in traffic.





- Consult with Transportation Summit Attendees on Top 3 Projects
- Announce Chair and Vice-Chair of Movement of Goods Council at the Transportation Summit
- Release MOG #6 Report in Mid-January advancing Top 3 Projects for the Corridor
- Begin E-Commerce Study

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