



# CONNECTING THE REGION

GERRY CHAPUT - VICE PRESIDENT, RAPID TRANSIT, METROLINX

VALUE ANALYSIS CANADA SUMMIT

KEYNOTE

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# METROLINX

- Metrolinx was created in 2006 by the Province of Ontario to improve the coordination and integration of all modes of transportation in the Greater Toronto and Hamilton Area.
- Guided by its Regional Transportation Plan, Metrolinx has worked to plan, design and build a regional transportation network that aims to enhance the quality of life, the environment and the prosperity of area residents.

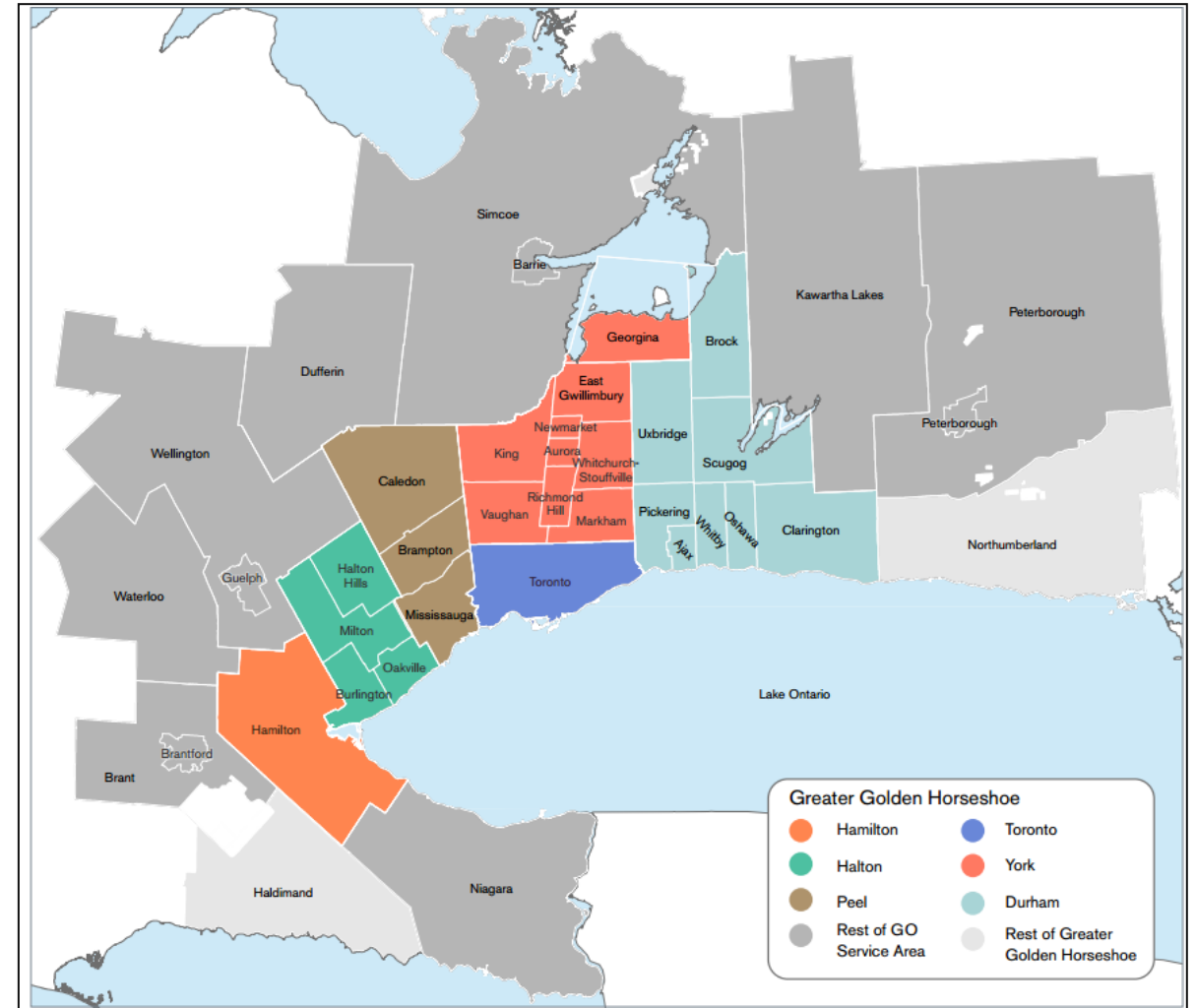
# METROLINX'S GEOGRAPHIC MANDATE: THE GREATER TORONTO AND HAMILTON AREA

## Expansive

8,242 km<sup>2</sup> —urban, suburban and rural land use

## Complex

Working with thirty municipalities, four levels of government and nine transit agencies

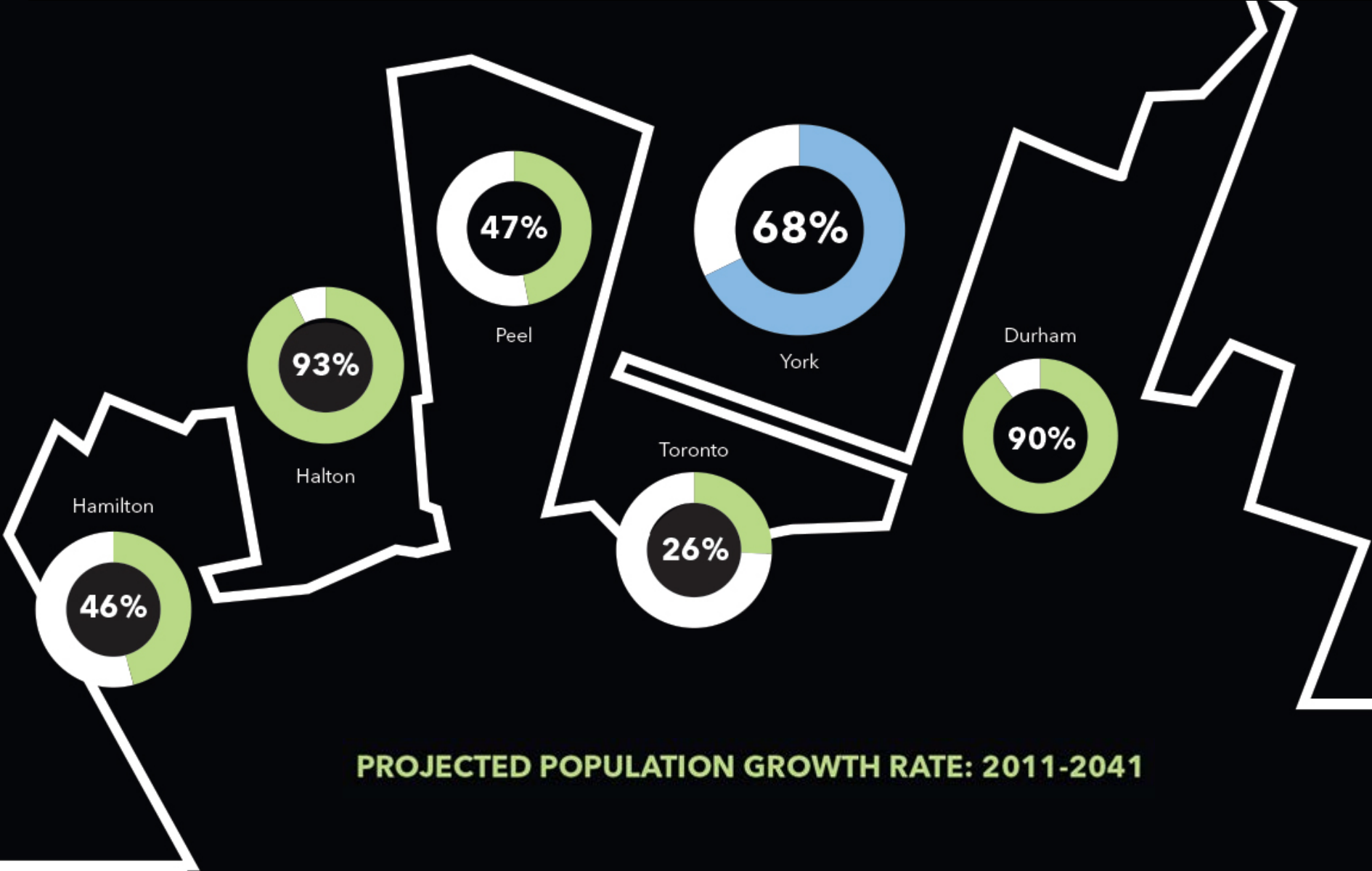




# CONGESTION COSTS OUR ECONOMY



# OUR REGION IS GROWING



PROJECTED POPULATION GROWTH RATE: 2011-2041



# OUR MANDATE

## PLAN



## BUILD



## OPERATE



# THE BIG MOVE

OVER \$30 BILLION  
IN  
INFRASTRUCTURE  
INVESTMENT



GO Regional Express Rail



Toronto-York Spadina Subway Extension



Mississauga Transitway



Eglinton Crosstown LRT



Sheppard East LRT



Finch West LRT



Scarborough Subway



Hamilton B-Line LRT



Highway 7 West BRT



Hurontario LRT



Yonge BRT (North)



Yonge BRT (South)



Bloomington GO Extension



Bowmanville GO Extension



Confederation GO Extension



Niagara GO Service



## THE BIG MOVE

TRANSFORMING TRANSPORTATION IN THE GREATER TORONTO AND HAMILTON AREA

**METROLINX**  
TRANSFORMING TRANSPORTATION IN THE GREATER TORONTO AND HAMILTON AREA  
An agency of the Government of Ontario



# THE BIG MOVE - RECORD INVESTMENT

The Big Move has shaped record investment in new infrastructure and transit services:

Over \$30B in investment in the GTHA's rapid transit network currently being planned, procured and constructed.

- **GO Expansion**
  - Introduction of new service on Barrie, Stouffville, Kitchener, Richmond Hill and Milton lines.
  - 6 New Stations plus planning work underway for an additional 24 stations.
  - Lakeshore Lines – 30 minute service.
  - Over 60% more train trips on multiple lines, including Milton, Lakeshore East/West and Kitchener.
- **Bus Rapid Transit** (partially or fully in service)
  - York Region VIVA BRT, Mississauga Transitway.
- **Light Rail Transit** (under construction or in planning & design)
  - Eglinton Crosstown, Finch West LRT, Sheppard East LRT, Scarborough RT.



**Expanded GO  
train service**



**Bike sharing  
programs**



**Bus rapid  
transit projects**



**Light rail  
projects**

# THE BIG MOVE - UP EXPRESS

*"Establish high-order transit connectivity to the Pearson Airport district from all directions, including a multi-purpose, fast transit link to downtown Toronto..."*

North America's first dedicated airport rail link, connecting Union Station in downtown Toronto to Pearson International Airport.

25 minute journey time with trains departing every 15 minutes from 5:30 am to 1:00 am.

\$9 fare with a PRESTO card.

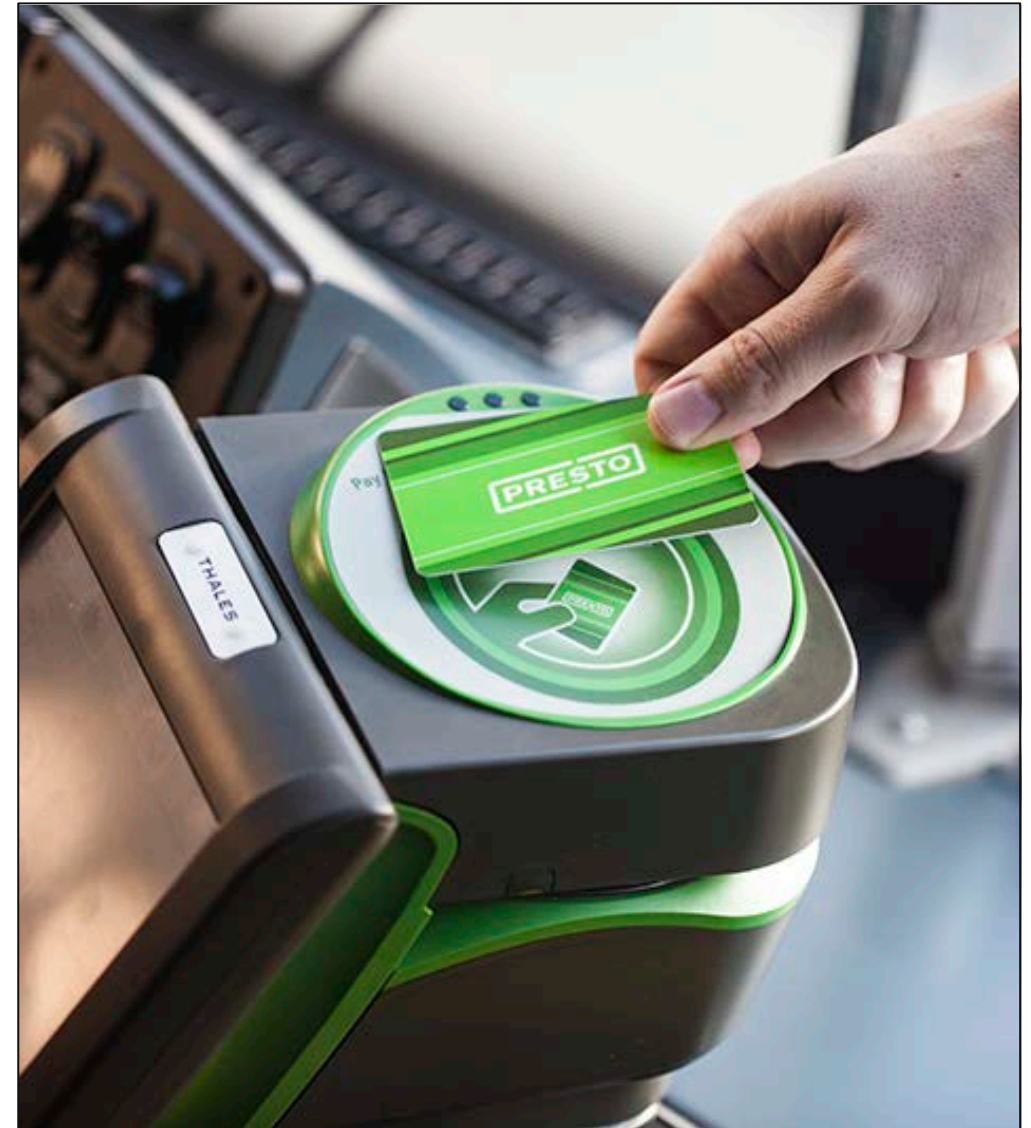


# THE BIG MOVE - ONE CARD CONNECTS US ALL

*"There is a potential to expand Presto to become the premiere payment platform in the GTHA and revolutionize the way that travellers interact with the transportation system."*

The region's integrated fare card system has been implemented.

- Over 2.5 million active Presto cards; system processes over 20 million "taps" a month.
- Originally deployed across GO Transit, UP Express, seven local transit systems in the "905" area, and Ottawa's OC Transpo.
- Now completing introduction on the TTC.



# THE BIG MOVE – ECONOMIC BENEFITS

*“The economic benefits of construction of the Next Wave of projects would be enormous – creating 800,000 – 900,000 construction and long-term jobs and providing an overall infusion to the GTHA economy of \$110-\$130 billion.” Metrolinx Investment Strategy, 2013*



There are numerous projects taking place across the region and each of these projects garner economic benefits for the immediate neighbourhood and greater region.

An example of one of these projects is the Eglinton Crosstown:

- ✓ 92 local Professional, Administrative, Technology jobs.
- ✓ 19 apprenticeships.
- ✓ \$2.6M in local procurement with businesses along the line.
- ✓ \$70K in social procurement.



# **BUILDING A COMPREHENSIVE REGIONAL TRANSIT NETWORK**



**LEGEND**

- GO Rail
- UP Express
- Light Rail Transit (LRT)
- Bus Rapid Transit (BRT)
- Subway






# TRANSFORMING THE GO TRAIN NETWORK




**52 New Train Sets**  
faster service



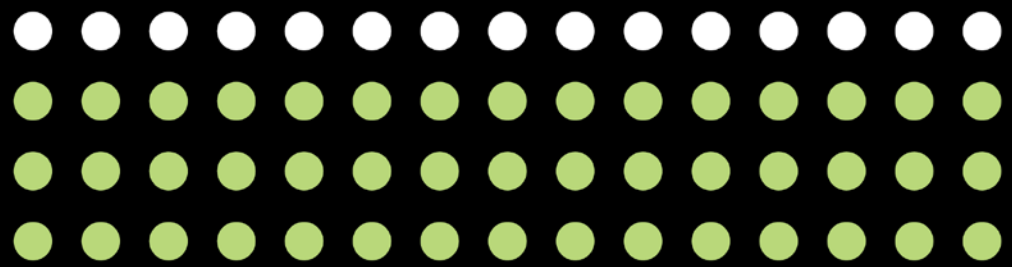
**New GO Tracks**  
150 km




**22 New Stations**  
32 upgraded




**Bridge Upgrades**  
45+




**6000 Trips / Day; 300% increase**



**15 Minute Service**  
or better

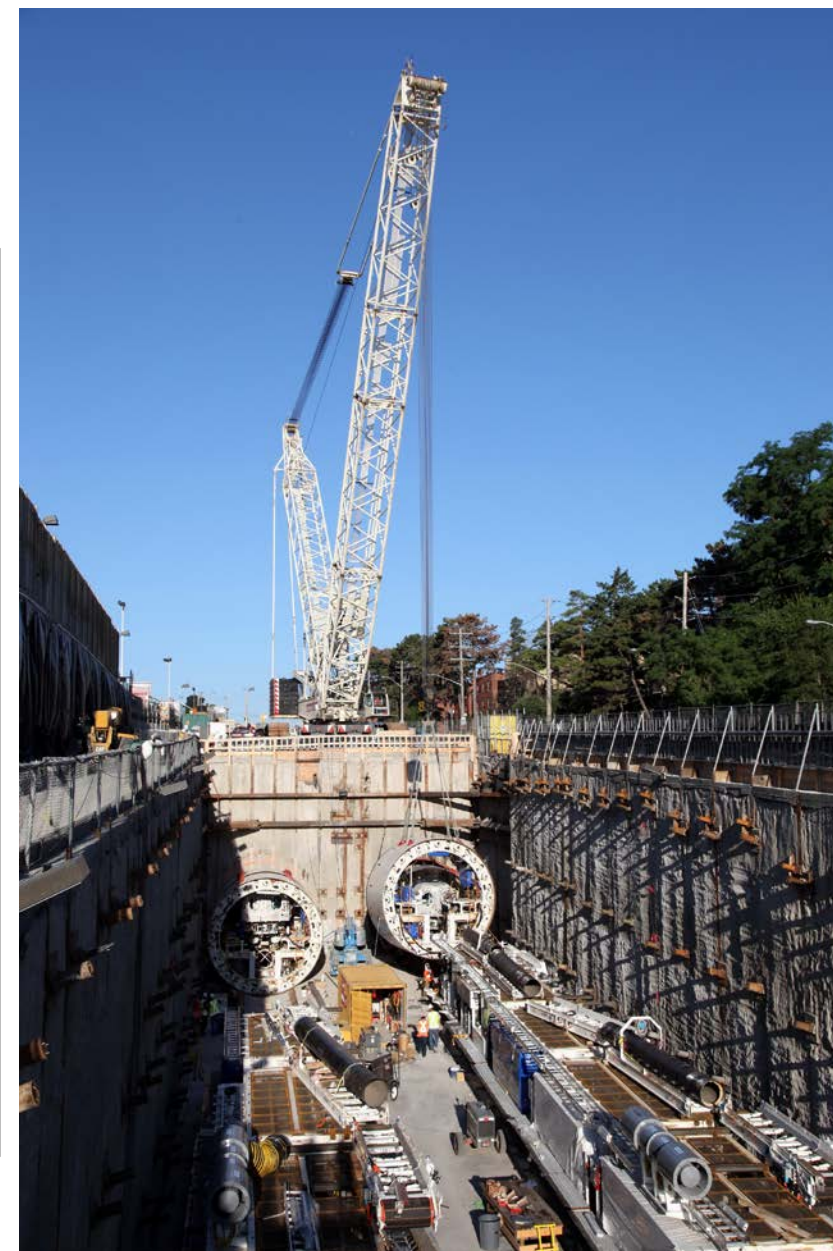


**10 rail/road grade separations**  
1 rail/rail grade separation

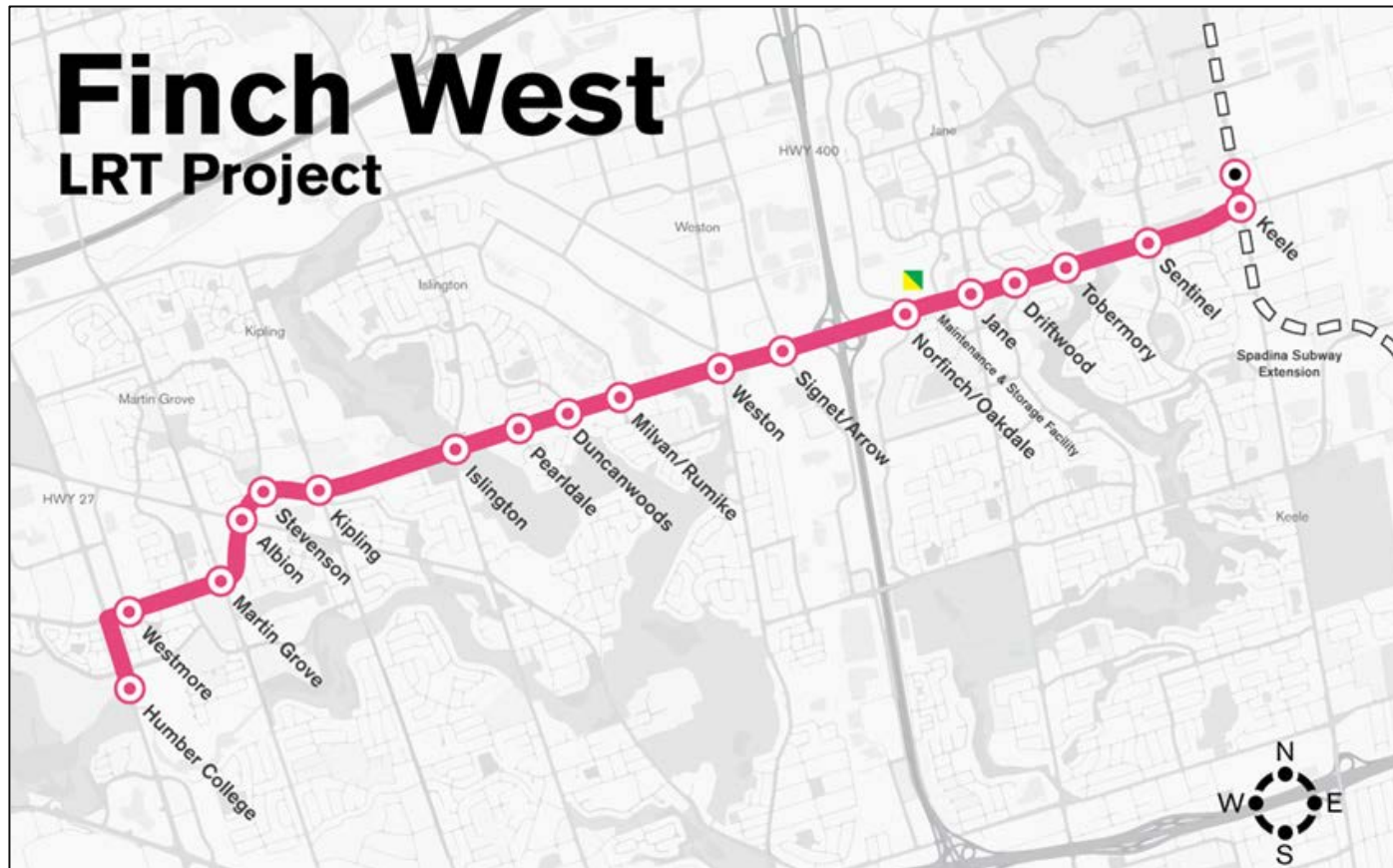


**263 km**  
of electrified service  
or signal enhancements

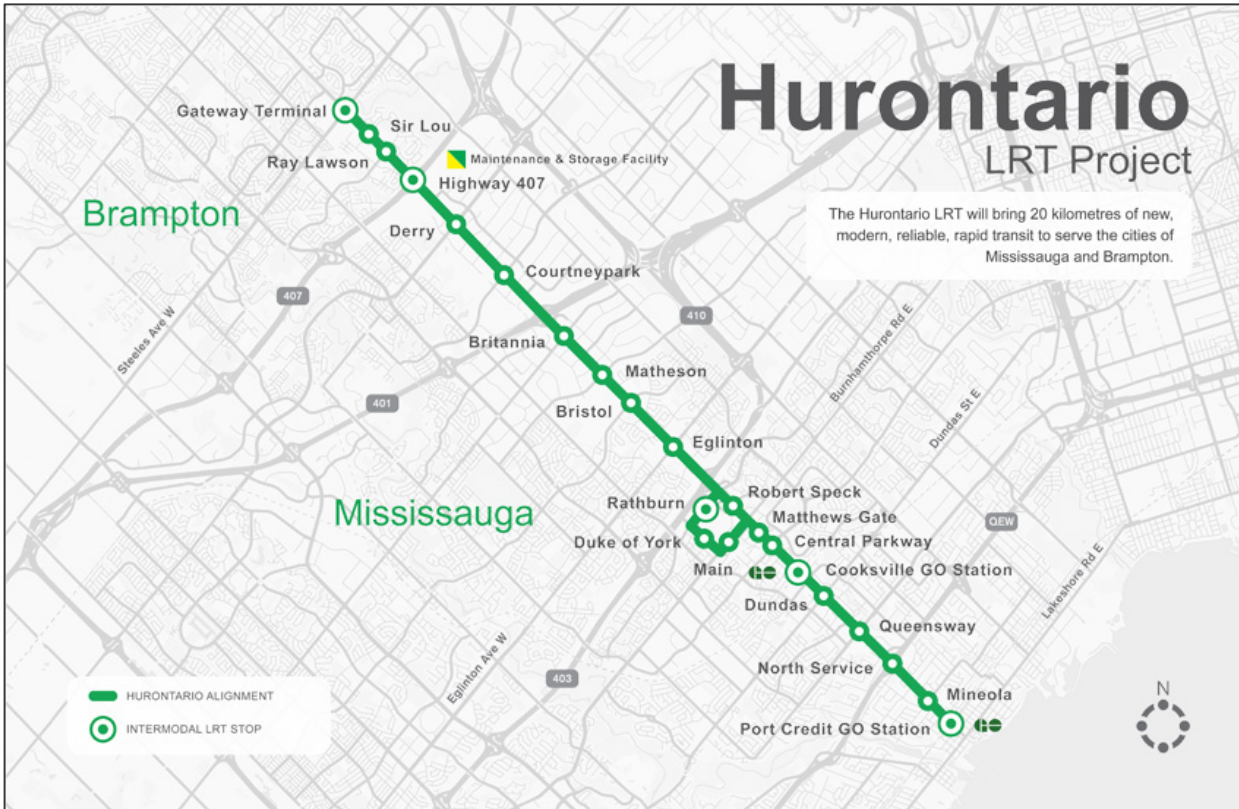
# TORONTO: 19KM EGLINTON CROSSTOWN LRT



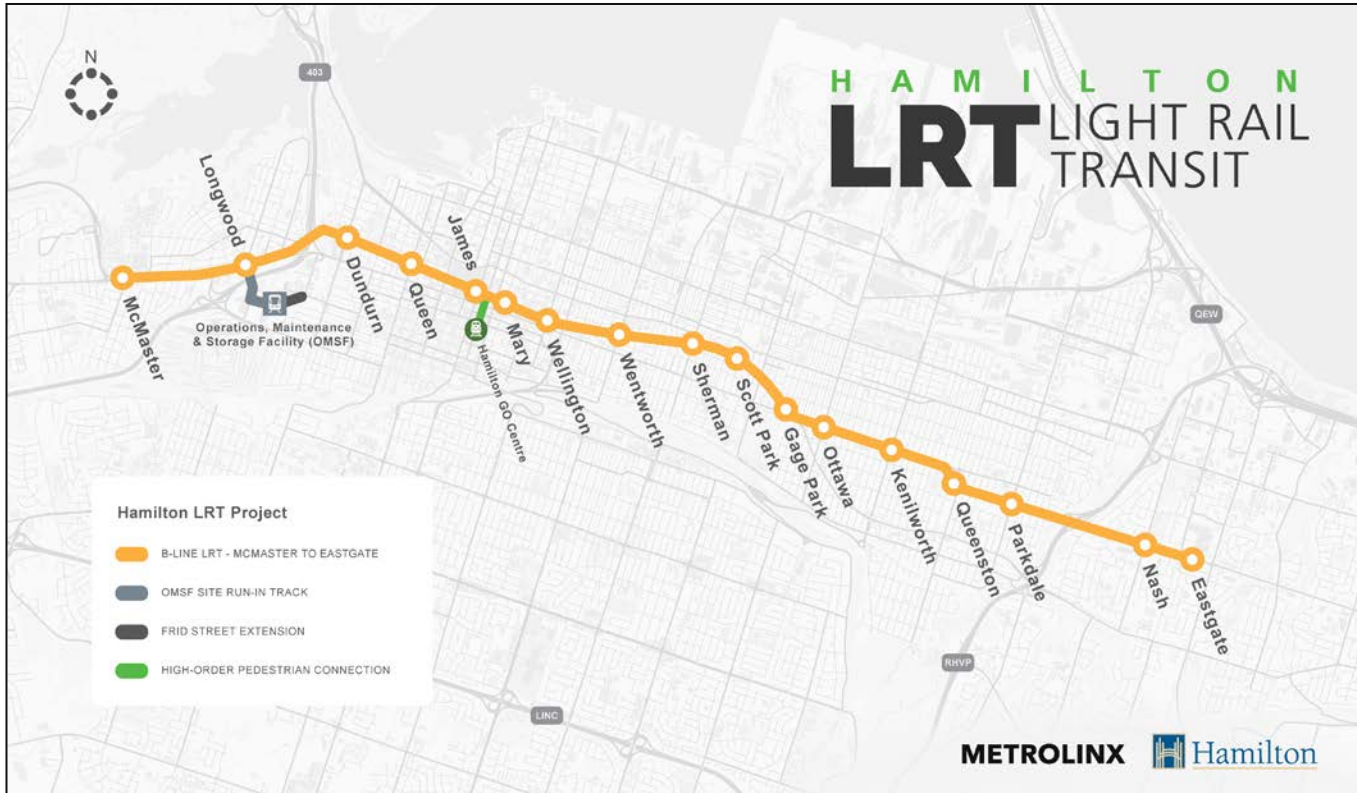
# TORONTO: 11KM FINCH WEST LRT



# MISSISSAUGA: 20KM HURONTARIO LRT



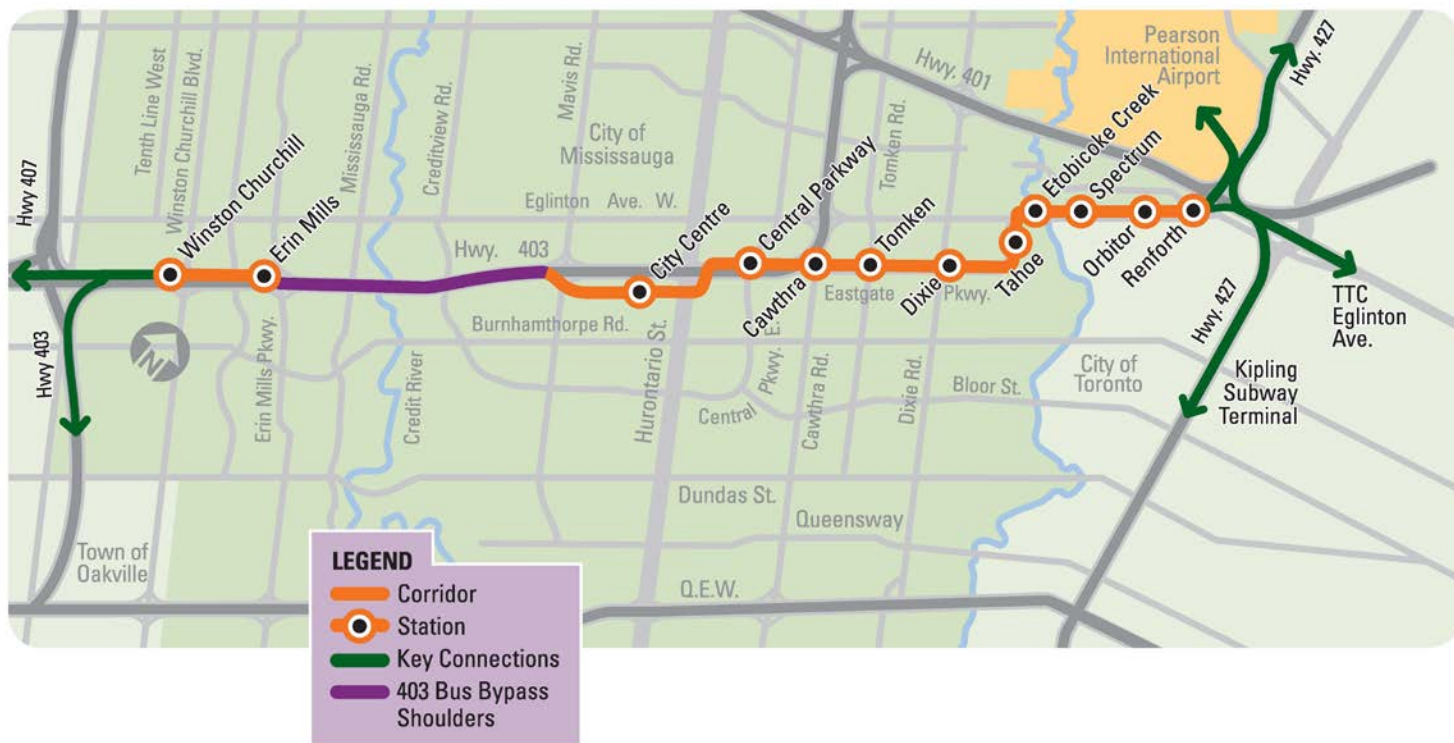
# HAMILTON: 14KM LRT



# YORK REGION: BUILT 11KM IN OPERATION WITH 23KM TO COME



# MISSISSAUGA: BUILT 18KM OF BUS RAPID TRANSIT WITH ONE STATION TO GO



Separate corridor for buses

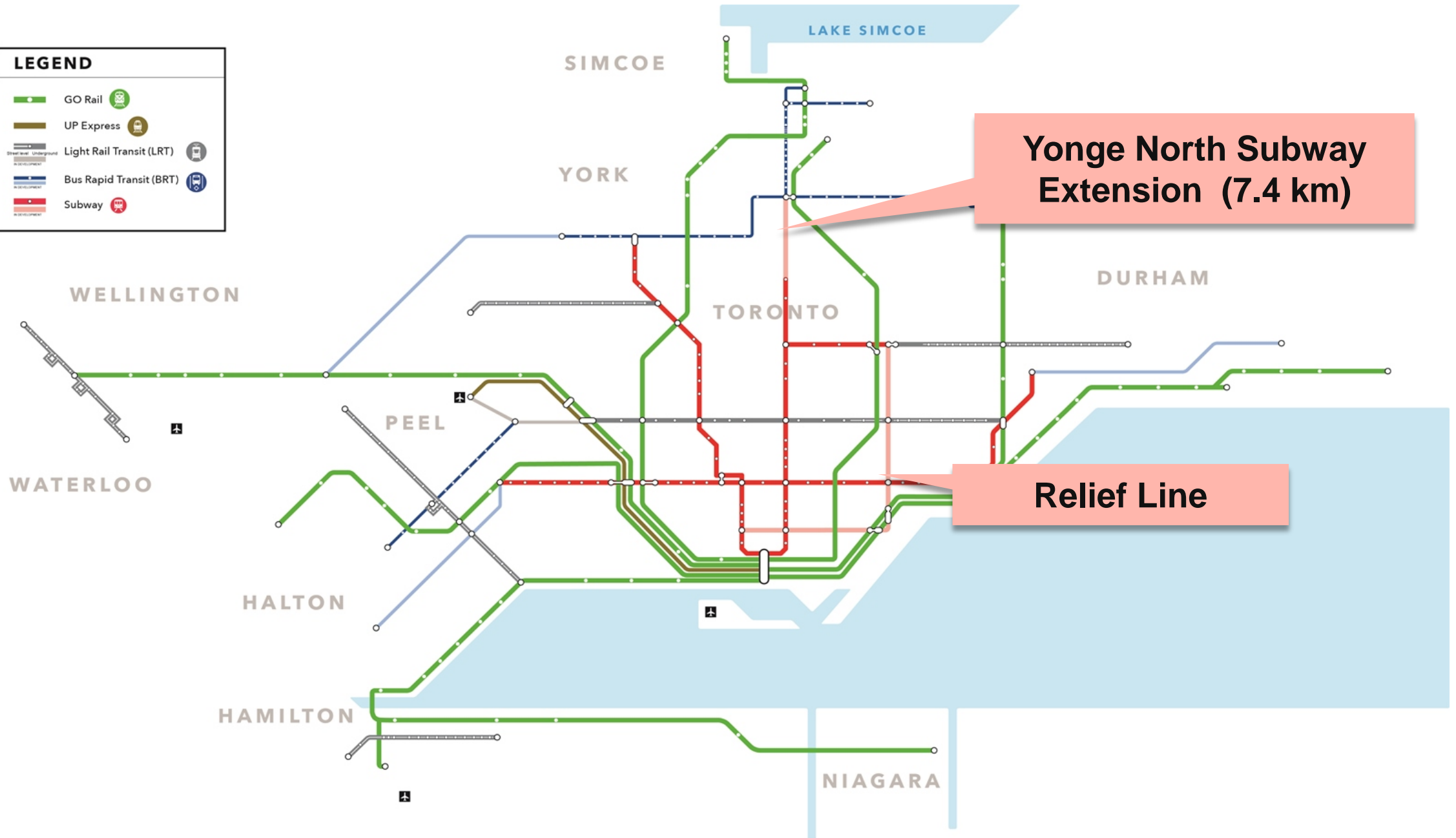


# **EXPANDING THE REGION'S TRANSPORTATION NETWORK**

# FUTURE SUBWAY EXPANSION

**LEGEND**

- GO Rail
- UP Express
- Light Rail Transit (LRT)
- Bus Rapid Transit (BRT)
- Subway



# FUTURE LRT AND BRT

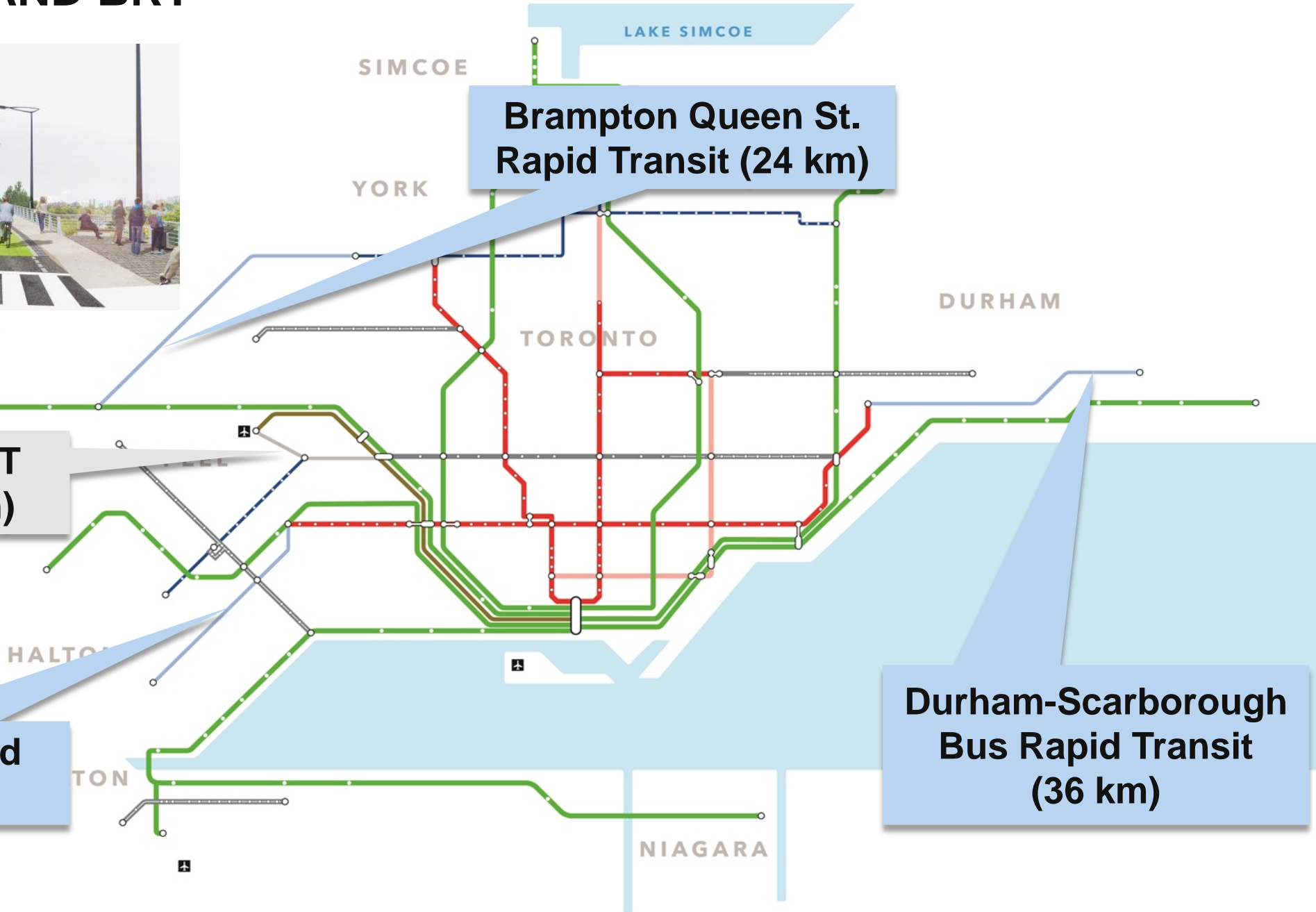


**Eglinton West LRT Extension (14 km)**

**Dundas Bus Rapid Transit (40 km)**

**Brampton Queen St. Rapid Transit (24 km)**

**Durham-Scarborough Bus Rapid Transit (36 km)**





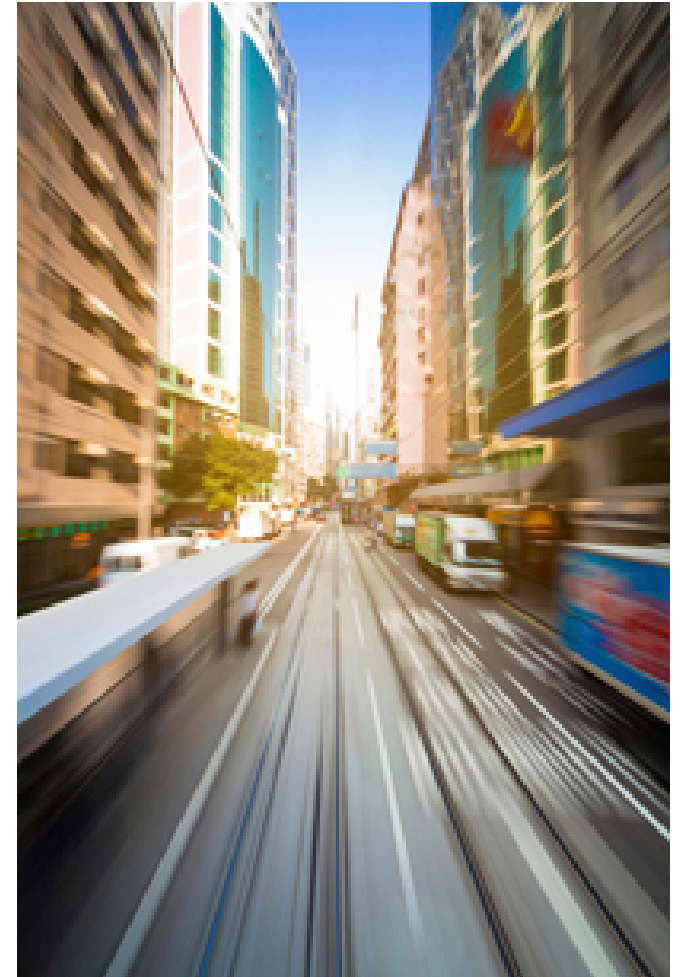
# MAXIMIZING VALUE

# BENEFITS OF VALUE ANALYSIS

Value Analysis recognizes that good value is achieved when the necessary performance can be accurately defined and delivered at the lowest life cycle cost. The Value Methodologies result in benefits to both the individual and the organization.

The benefits to the individual of Value Analysis/Value Engineering include:

- A systematic approach to solving problems.
- Self-satisfaction from contribution their ideas to solution and in participating in an energetic workshop.
- Improvements in their knowledge and abilities because workshop team members with different backgrounds share their expertise during the VA workshop.
- Participation in a transparent process that results in more informative decisions.



# VALUE ANALYSIS IN THE LIFECYCLE OF METROLINX PROJECTS

- We use a business case approach to ensure we select the right projects at the outset.
- We employ an end-to-end, integrated design process that includes:
  - ✓ Cross functional scope development,
  - ✓ Design excellence panel review based on the principle that good design leads to long-term durability over short-term expediency, reducing whole over short-term expediency, reducing whole life costs, and;
  - ✓ Detail design technical review that considers alternate and new ways to drive value into the project.
- We consider sustainability standards and principles that protect environmental, economic, and social development, as well as reduce long-term development, as well as reduce long-term operations costs.
- We follow procurement strategy that ensures market opportunity, industry leaders, and appropriate resources have the opportunity to propose resources have the opportunity to propose innovative solutions that support delivering a project at best value.
- We conduct a risk management process to be able to mitigate issues before they arise, and to have a plan for corrective action when they do.
- We have a focused program and project management approach that is consistent, agile, and efficient.



# LEARN MORE, GET INVOLVED

Metrolinx has just released its Draft 2041 Regional Plan which outlines how people and goods will move across our great region.

Curious about what's in the Draft 2041 Plan?

You can review and comment on the plan at [metrolinx.com/theplan](https://www.metrolinx.com/theplan) and join us for one of our roundtable discussions, where you can share your views on the future of regional mobility.



