



CREATING CONNECTIONS IN WATERLOO REGION

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INFRASTRUCTURE

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METROLINX PRESENTATION TO WATERLOO REGION COUNCIL
AUGUST-30-2017



GRIDLOCK COSTS OUR ECONOMY



GO EXPANSION PROGRAM



METROLINX: REGION BUILDER

PLAN



BUILD



OPERATE



KITCHENER LINE OVERVIEW

- 101 km, Union to Kitchener
- 79% Metrolinx owned
- GO Train service began in 1974
- 12 stations, potentially increasing to 16
- Connections with Grand River Transit, Guelph Transit, Brampton Transit, MiWay, TTC & UP Express

TODAY

5 million annual boardings

85 rush hour trips per week

65 midday trips per week; **no** evening or weekend trips

Diesel service

WITH RER*

18 million annual boardings

~4 times the rush hour trips

Hundreds of new midday, evening & weekend trips

Electric or mixed electric & diesel** service

* - Figures subject to refinement as they do not reflect 2016 expansion of scope
** - Electrification of all GO services is target; conditional on completion of freight bypass

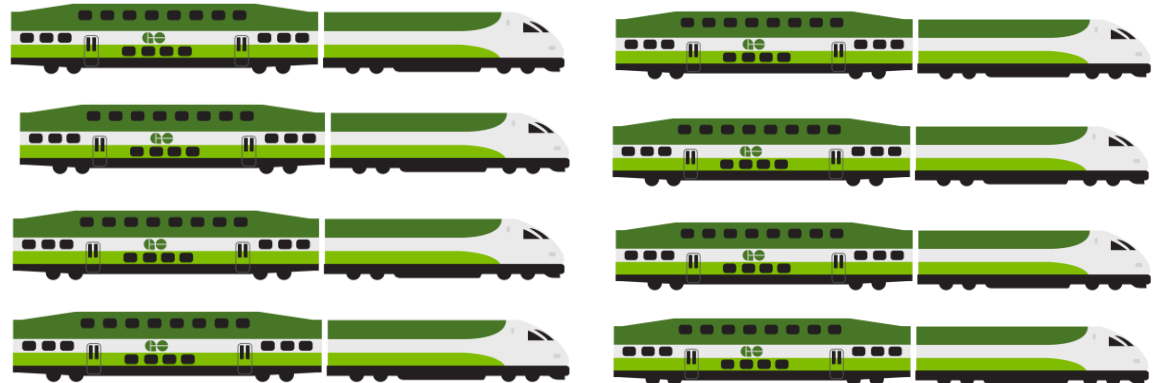
KITCHENER GO RAIL SERVICE

Kitchener GO Train service has doubled

2011



TODAY



KITCHENER GO BUS SERVICE



2016: Three new bus routes including express service from Kitchener with timed connections to and from trains at Bramalea GO station to provide all-day two-way service Monday to Friday.

RAIL INFRASTRUCTURE IN WATERLOO REGION

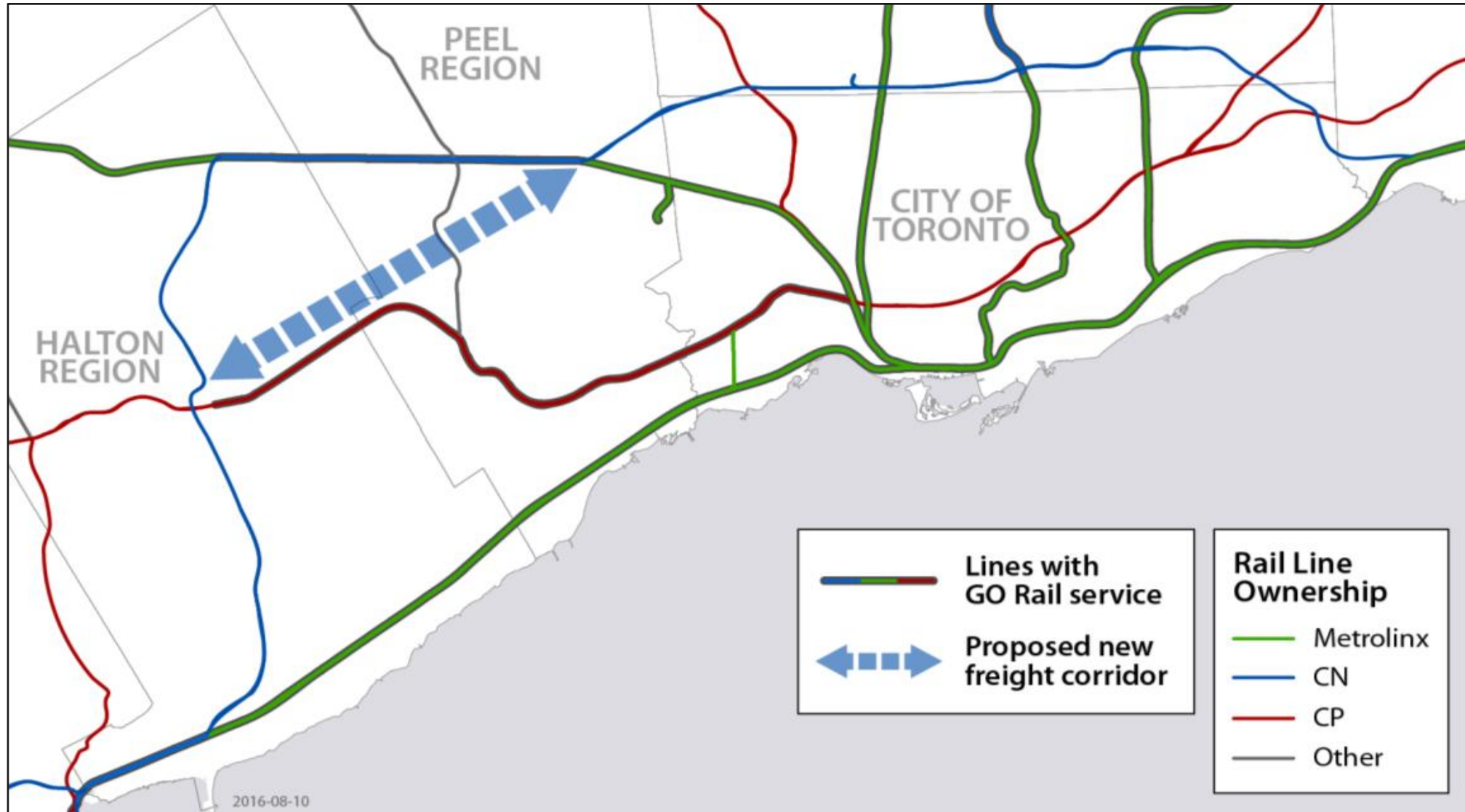
KITCHENER CORRIDOR PROGRAM OVERVIEW

Infrastructure Build:

- Additional track from Union Station to Mt. Pleasant GO Station
- New stations: Liberty Village, St. Clair West, Mount Dennis, and Breslau
- Station modifications/parking expansion
- Hwy 401/409 Rail Tunnel
- Strachan Avenue Grade Separation
- Signal improvements
- Bridge structure modifications
- Layovers at Georgetown, Shirley Avenue, Heritage Road
- Improved rail crossings
- West Toronto Railpath Extension
- Customer experience improvements



NEW FREIGHT BYPASS



BUILDING A NEW CORRIDOR

Building a new corridor is complex and as outlined in initial feasibility work will require:

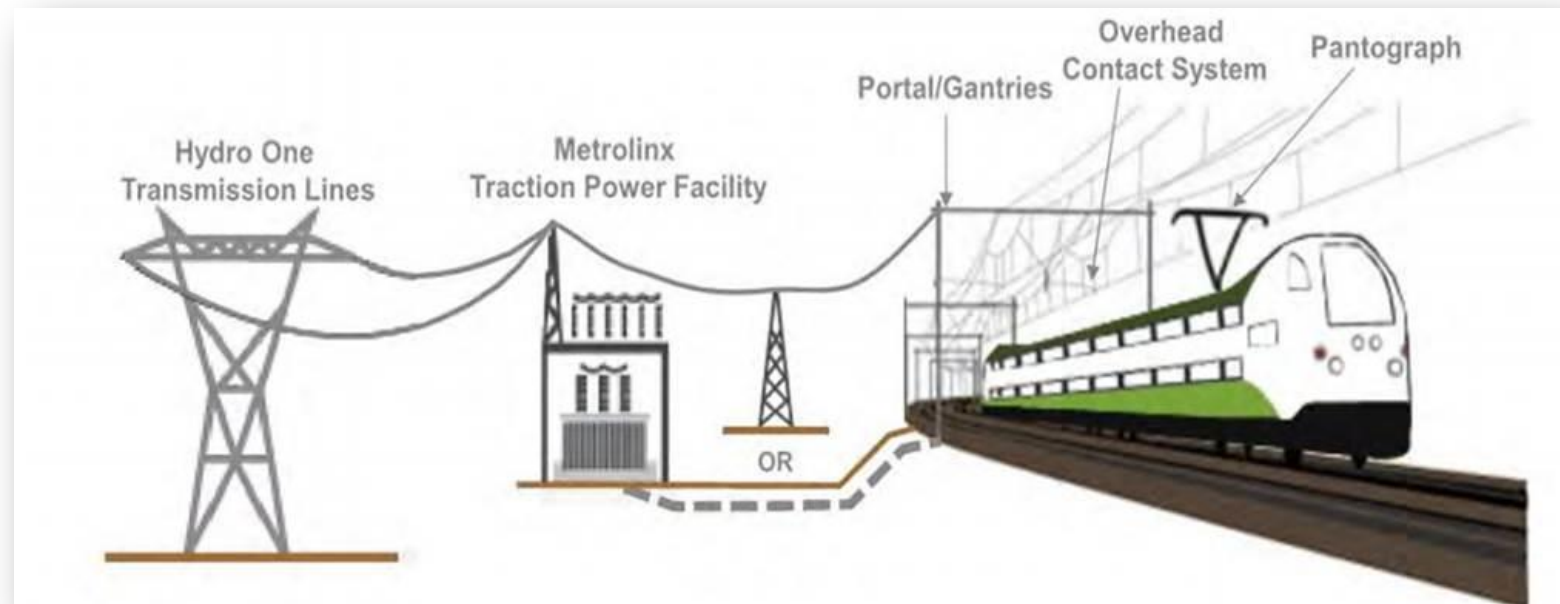
- Up to 35 new bridges for road and water crossings including significant crossings of 401, 410
- Modification and/or relocation of up to 17 hydro towers and as much as 3.4 km of major gas line relocations
- Construction of 20 km of new track, new train signal system
- Construction of a new rail/rail grade separation where Kitchener line will cross the bypass corridor
- Noise and vibration mitigation as required for adjacent properties
- Property impacts

Next Steps:

- Continue negotiations with CN, to progress from the Agreement in Principle (AiP) to a full agreement
- Initiate an Environmental Assessment (EA), including public and stakeholder engagement
- Continue planning and design to identify route alignment and address potential concerns.

ELECTRIFICATION

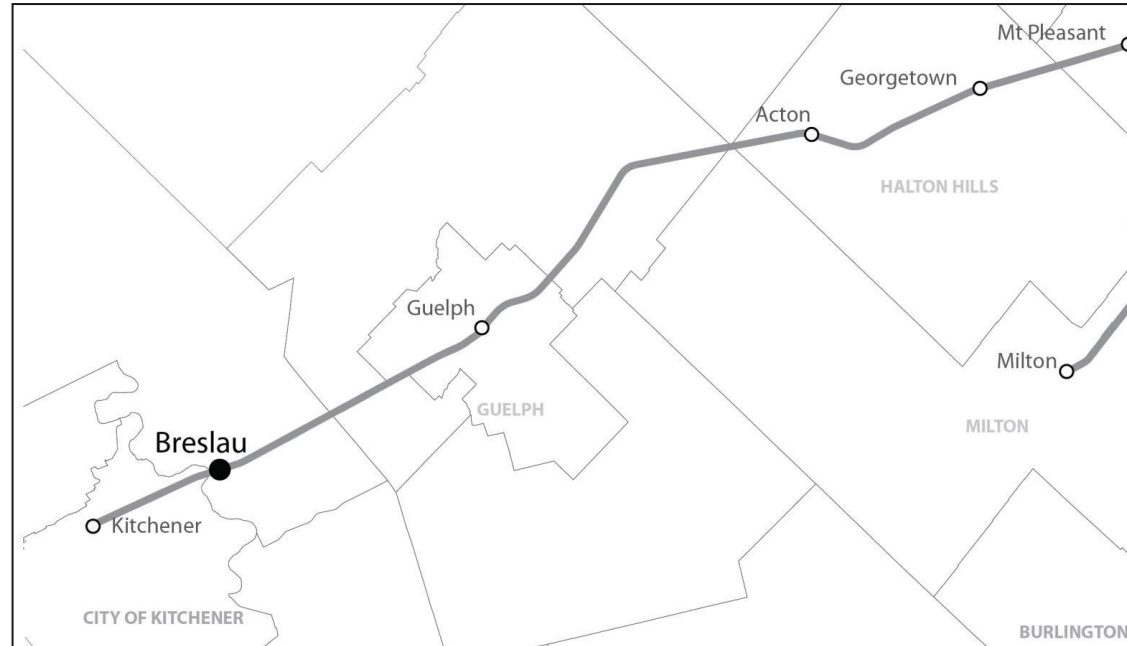
- Metrolinx can only proceed with electrification on owned corridors
- Electrification requires traction power substations, switching stations, paralleling stations, overhead contact systems, and various safety modifications
- EA underway now to plan and design the required infrastructure for electric service on the Kitchener line between Bramalea and Highway 427 in Toronto. This EA is on track to be complete by the end of 2017
- The Kitchener line west of Bramalea can be electrified only once the new freight bypass is built



NEW TRACK & NEW STATIONS

NEW TRACK AND NEW STATIONS

- New Track – Kitchener Corridor
 - An additional track from Union Station to Mt. Pleasant GO Station to support 15-minute service between Union and Bramalea GO Station
 - 30 km freight bypass between Bramalea and Milton (30 km x 2 tracks)
 - 2nd 52 km track between Georgetown and Kitchener
- New Stations
 - Liberty Village
 - St. Clair West
 - Mount Dennis
 - Breslau



BRESLAU GO STATION

- Plans for a new station at Breslau near Greenhouse Rd.
- Identified in a previous EA.
- Good opportunity to attract new riders from a wide catchment
- Will support adjacent transit-oriented development Will provide limited impact to existing passengers
- Township of Woolwich plans an EA for a grade separation.
- Working with Waterloo Region staff and Township staff as we advance the station design



Breslau Station

Initial Business Case Report
Site Context

Legend

- Potential Station Location
- Kitchener GO Line



KING-VICTORIA TRANSIT HUB



- Working with the Region on its King-Victoria Transit Hub project
- Kitchener GO station will shift west to co-locate with the ION LRT, Grand River Transit, and VIA services
- Details of GO Bus and Rail facilities are in development with the Region

SHIRLEY AVENUE TRAIN LAYOVER



- Shirley Avenue Train Layover complete and fully operational
- Used to store trains overnight for efficient deployment during morning commute

KITCHENER GO BUS FACILITY



Scope

- Indoor storage for 20 buses
- Can accommodate both single- and double-decker buses
- Indoor fuelling lane and equipment, underground tank system
- Indoor bus wash bay
- Admin and staff support areas



Milestone Schedule

Design Completion	October 2015
Procurement	November 2015-March 2016
Construction	April 2016-February 2018
In-Service	February 2018

NOISE

- Noise is a key concern among residents in communities throughout the network
- Metrolinx will work with Waterloo Region and the local municipalities on modelling proposed areas of noise mitigation
- That work will commence during the EA for the freight bypass

COMMUNITY ENGAGEMENT

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- 2015: community notices to mark start of construction of Shirley Avenue Layover/Kitchener GO Bus facility
- April 6 2017: MPP Daiene Vernile's transit townhall update on RER projects in KW
- April 24 2017: Mx Board Member Carl Zehr presentation to Rotary Club of Kitchener
- Moving forward: planning on-the-ground engagement in post-secondary institutions in Waterloo Region
- Community Relations Specialist for Kitchener corridor:
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416-202-3467

HOW WE ARE GOING TO WORK WITH YOU

- Metrolinx recognizes that with new infrastructure and construction comes impacts to the community that must be worked through with residents and their elected officials.
- A regional Municipal and Community regional tour is currently underway that creates an annual schedule for getting to every municipal council and for providing a comprehensive narrative for residents of each municipality that details what this program will look like locally.
- We are working with municipal partners to schedule local consultations on new stations
- We are developing a community charter which will commit the organization to building the regional transportation system in a way that is respectful of the communities it touches.
- This is in addition to the standard community relations support that we have traditionally provided on the ground on projects like Georgetown South and the Eglinton Crosstown.

COMMUNITY ENGAGEMENT: PROJECT CYCLE

