

Public Transit and Urban Mobility in Canada

Trends and Developments



TO INSPIRE AND INFLUENCE THE EVOLUTION
OF INTEGRATED URBAN MOBILITY

INSPIRER ET INFLUENCER L'ÉVOLUTION
DE LA MOBILITÉ URBAINE INTÉGRÉE

Regions and Provinces



CANADA – Political

- International boundary
- - - - - Provincial/Territorial boundary
- ★ Provincial/Territorial capital
- ☆ National capital
- ◆ Provincial/Territorial capital

Scale
0 250 500 750 1 000 km

Our History



Who we are

- The “Voice of Public Transit in Canada” since 1904
- National association representing public transit systems, manufacturers, suppliers, consultants, government agencies and affiliates
- Represents all modes – bus, subway, light rail, commuter rail, urban ferry
- With offices in Toronto and Ottawa, CUTA staff include transit professionals with a wide range of backgrounds and experience



Membership

- 125 urban transit systems
- 280 business members (manufacturers and consultants)
- 20 government agencies
- 80 affiliates





VISION|2040

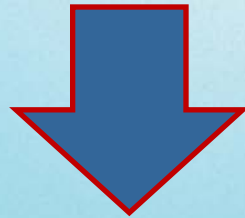
Major Themes

- 1. Putting Transit at the Centre of Communities**
- 2. Revolutionizing Service**
- 3. Focusing on Customers**
- 4. Greening Transit**
- 5. Ensuring Financial Health**
- 6. Strengthening Knowledge and Practice**



Who we are

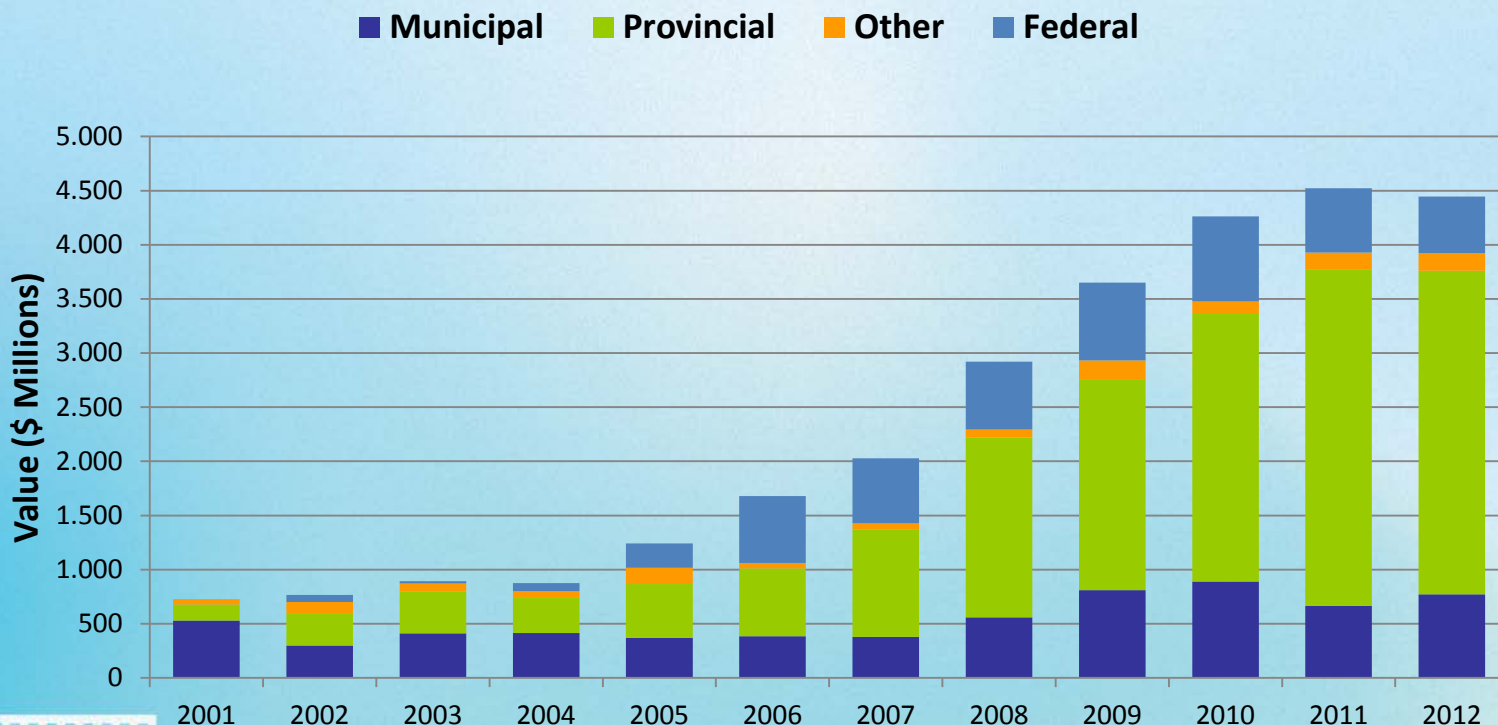
CUTA's mission is to establish public transit as the primary solution to urban mobility in the achievement of sustainable transportation, and to assist its members in the fulfillment of their mandates.



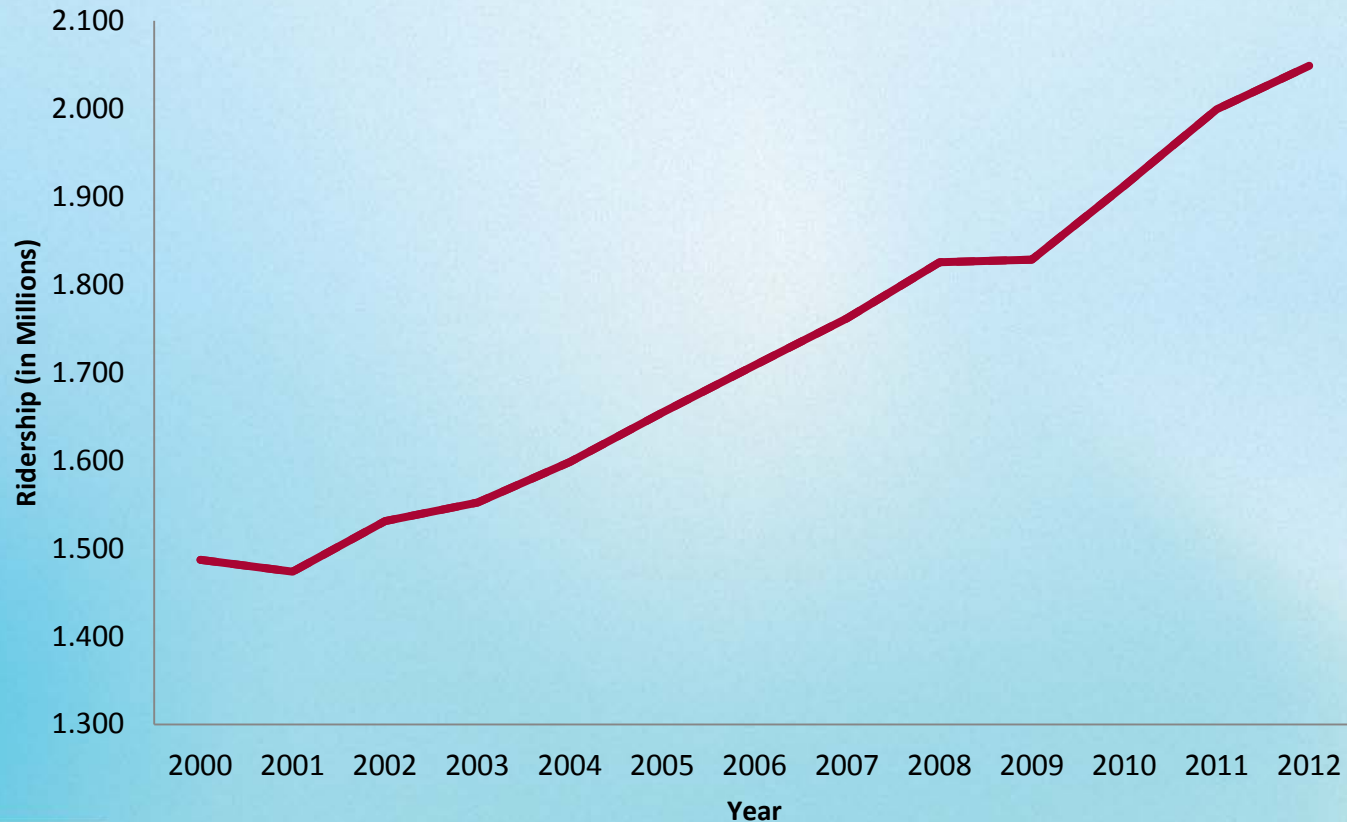
To inspire and influence the evolution of integrated urban mobility.



Transit Capital Investment Sources 2001-2012



Canadian Transit Ridership



15% growth in last 5 years

Metros in Canada

- Toronto - 1954
- Montréal - 1966
- Vancouver - 1986



TORONTO TRANSIT COMMISSION



Light Rail in Canada

- Toronto - 1892
- Edmonton - 1978
- Calgary - 1981
- Ottawa - 2001



TORONTO TRANSIT COMMISSION

ETS

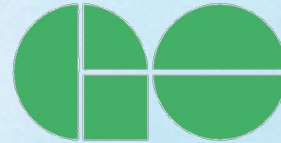
Edmonton Transit System

Calgary Transit

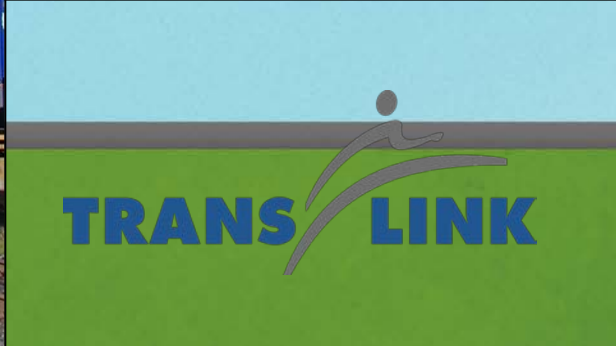
OC Transpo

Modern Commuter Rail in Canada

- Toronto - 1967
- Vancouver - 1995
- Montréal - 1996



Vancouver



Vancouver expansion

Evergreen Line - Construction underway



- 11 km extension of Skytrain
- Cost expected to be around \$1.4 billion.
- To open in summer 2016
- Awarded to SNC / Graham / Jacobs / MMM
- Bombardier Vehicle

Vancouver expansion

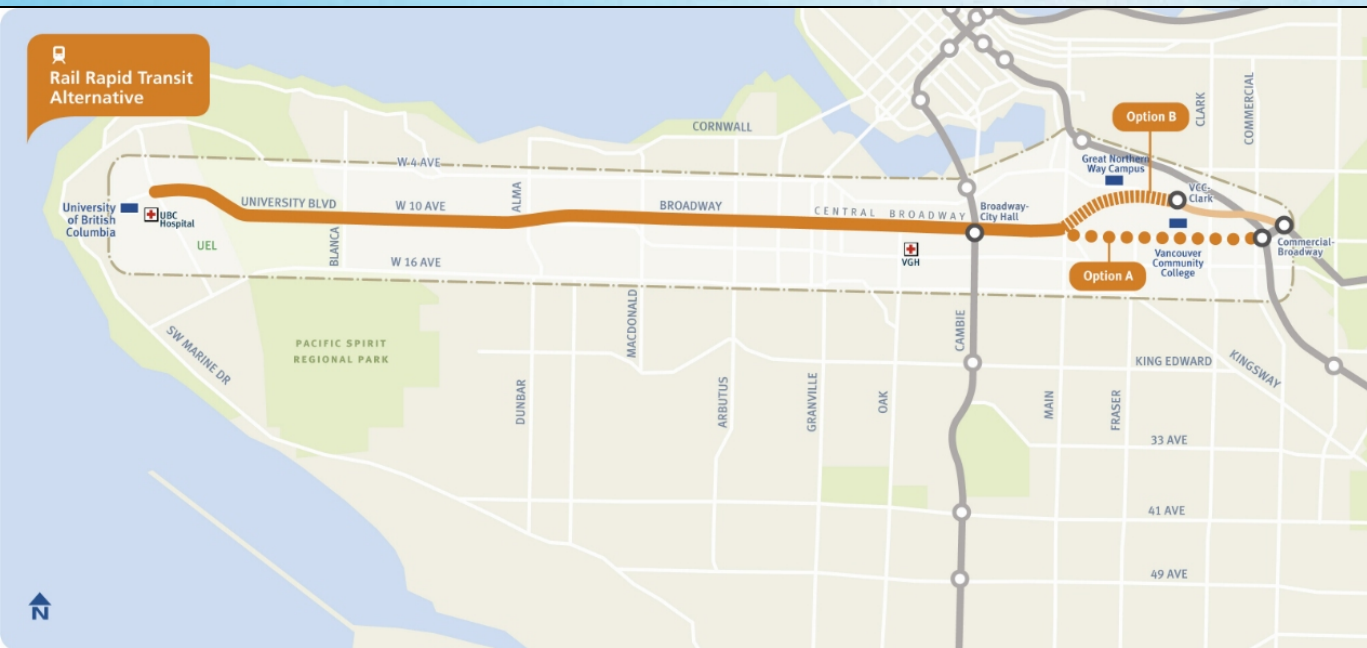


Surrey Lines - Under political debate

- 30.7 km total network
- LRT technology
- 3 lines part of plan
- \$3.1 billion estimated cost

Vancouver expansion

Broadway Line – Under political debate



- 16 km
- 14-16 stations
- Includes operation and maintenance
- \$3.2 billion estimated cost

Legend

- UBC Line Study Area
- Existing Rapid Transit & Commuter Rail
- New Connection to Existing Network

Rail Rapid Transit Alternative

Eastern Section Route Options

- Option A
- Option B
- Existing Millennium Line

About the Route



RRT: Broadway and 10th Avenue between Main Street and UBC. Two options have been identified for the section between Broadway & Main Street and Commercial – Broadway station.

Option A:
Directly via Broadway.

Option B:
Via Great Northern Way and VCC-Clark station.

Notes

To be determined in Phase 2:

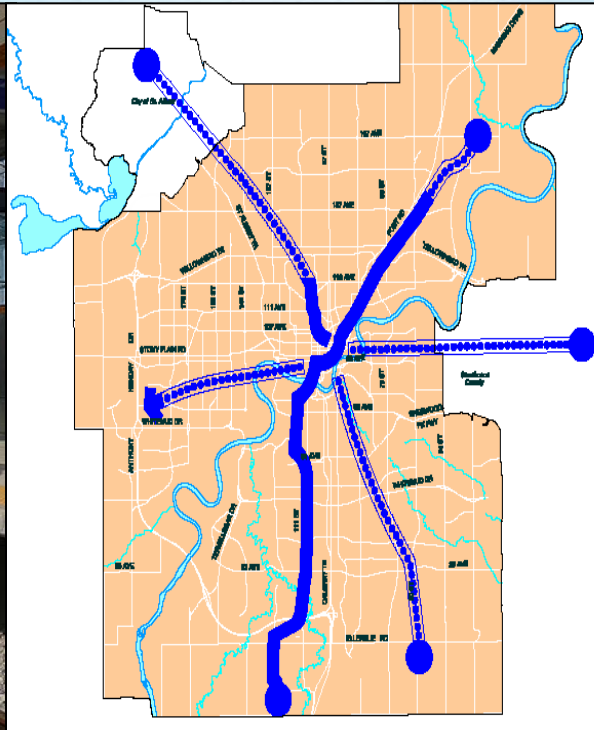
- Alignment (position within the street, or whether it is street-level, elevated or underground)
- Potential station locations

Vancouver expansion

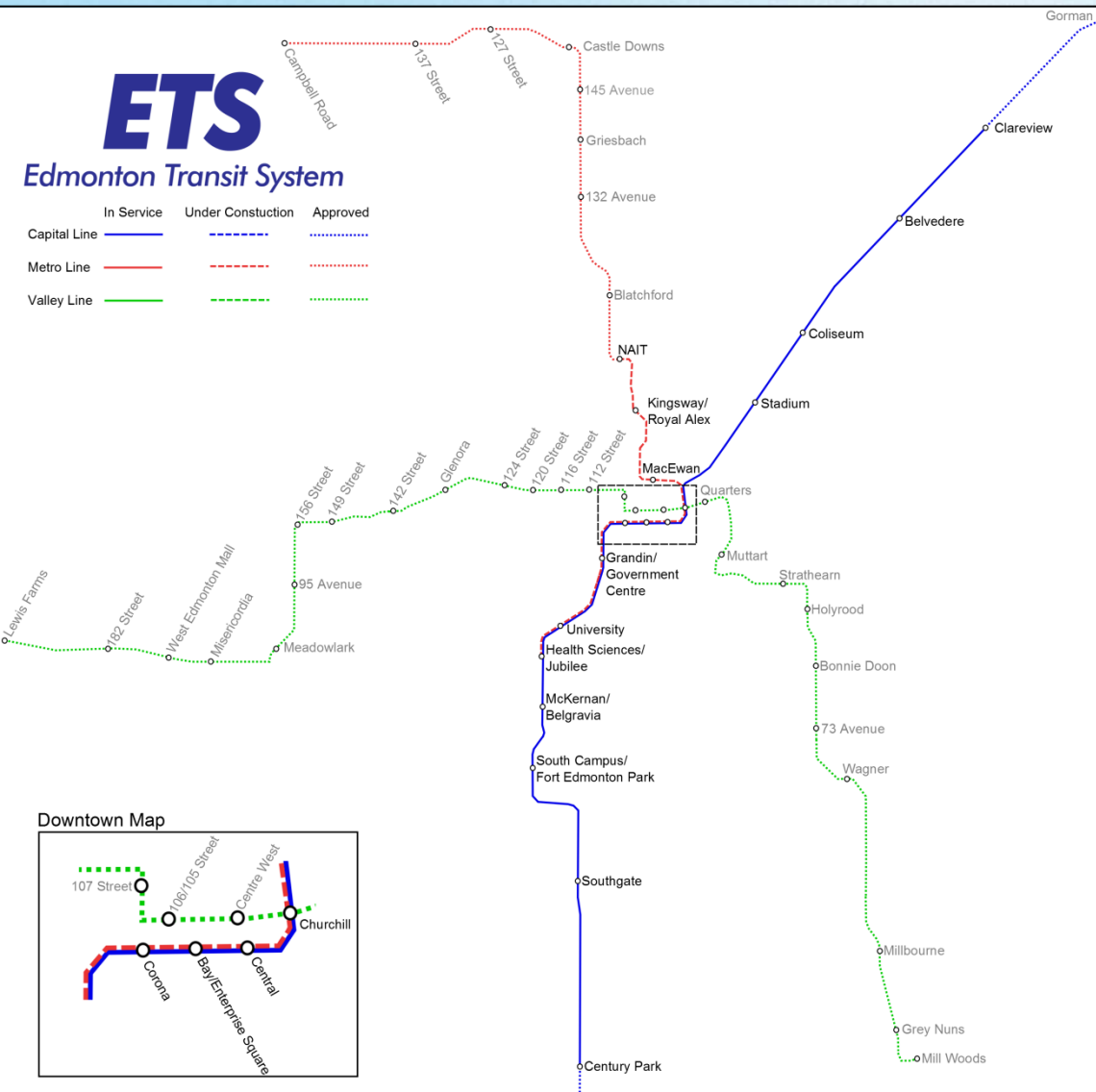
Potential network



Edmonton



Edmonton expansion



Valley Line

- 21 km
- 15 stations
- low floor technology
- \$1.8 billion cost
- PPP procurement
- 75% of funding secured

Calgary



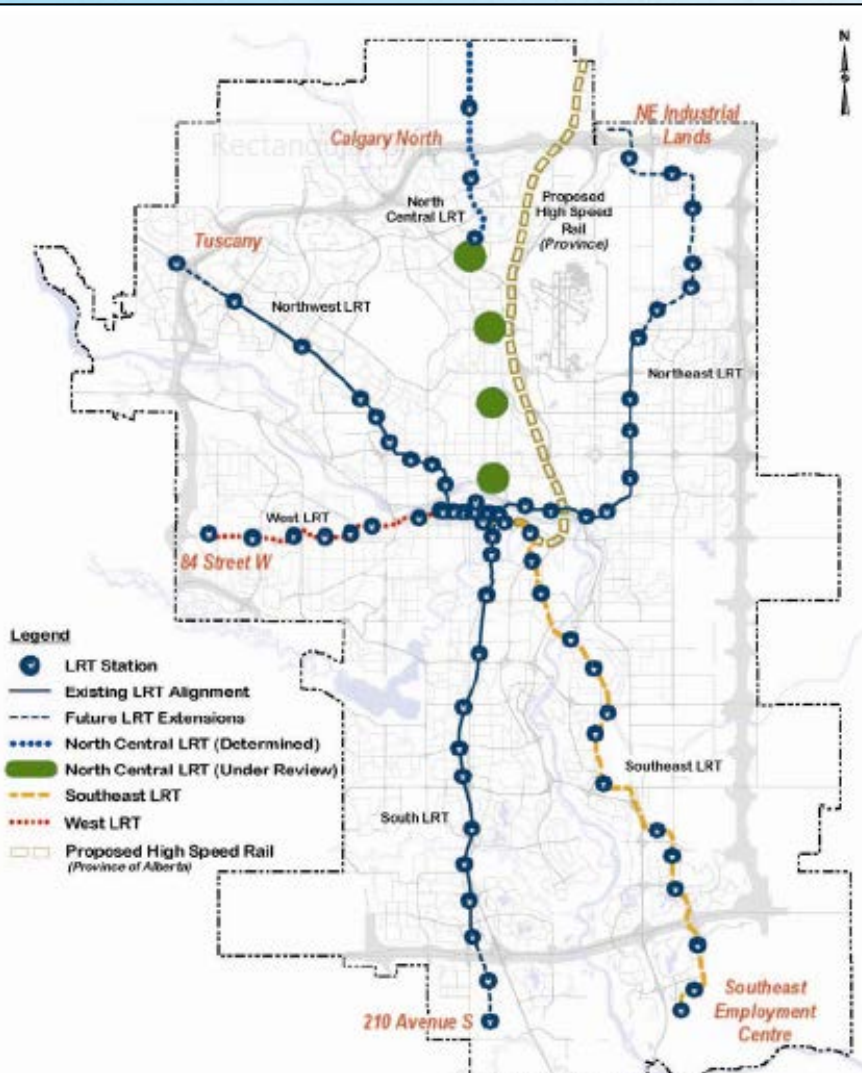
**Busiest light rail
in North America**



Calgary expansion

South East Line

- 26 km
- 14 major stations
- low floor technology
- Pre-engineering underway
- \$2 billion estimated cost
- Unfunded



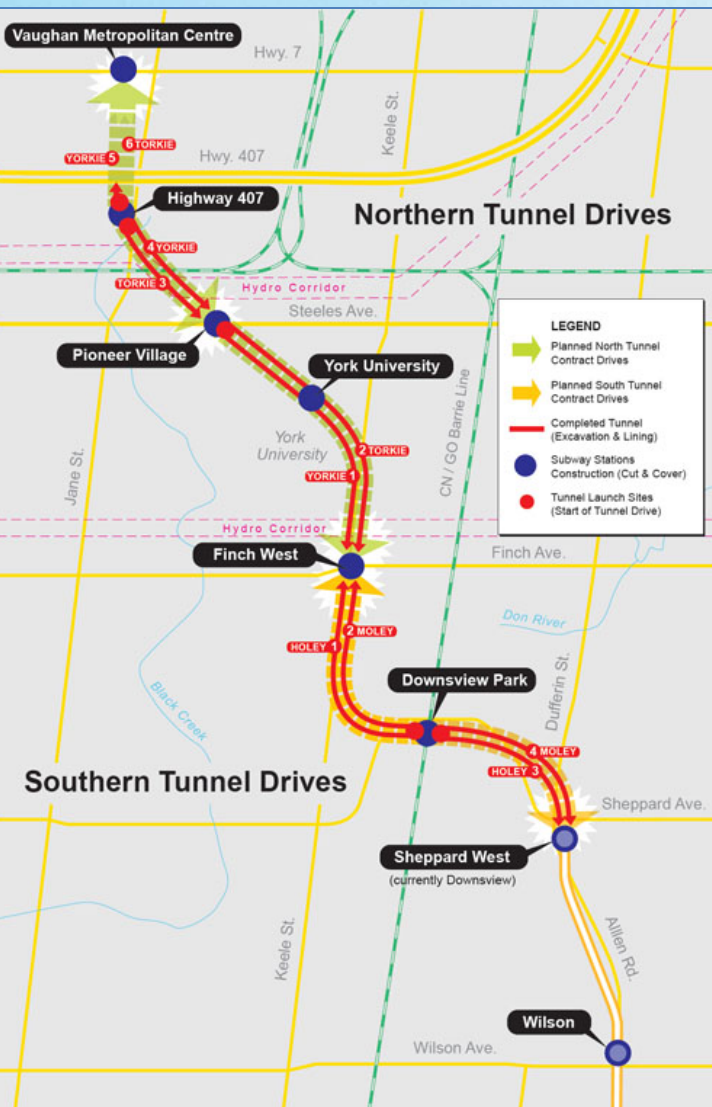
Toronto



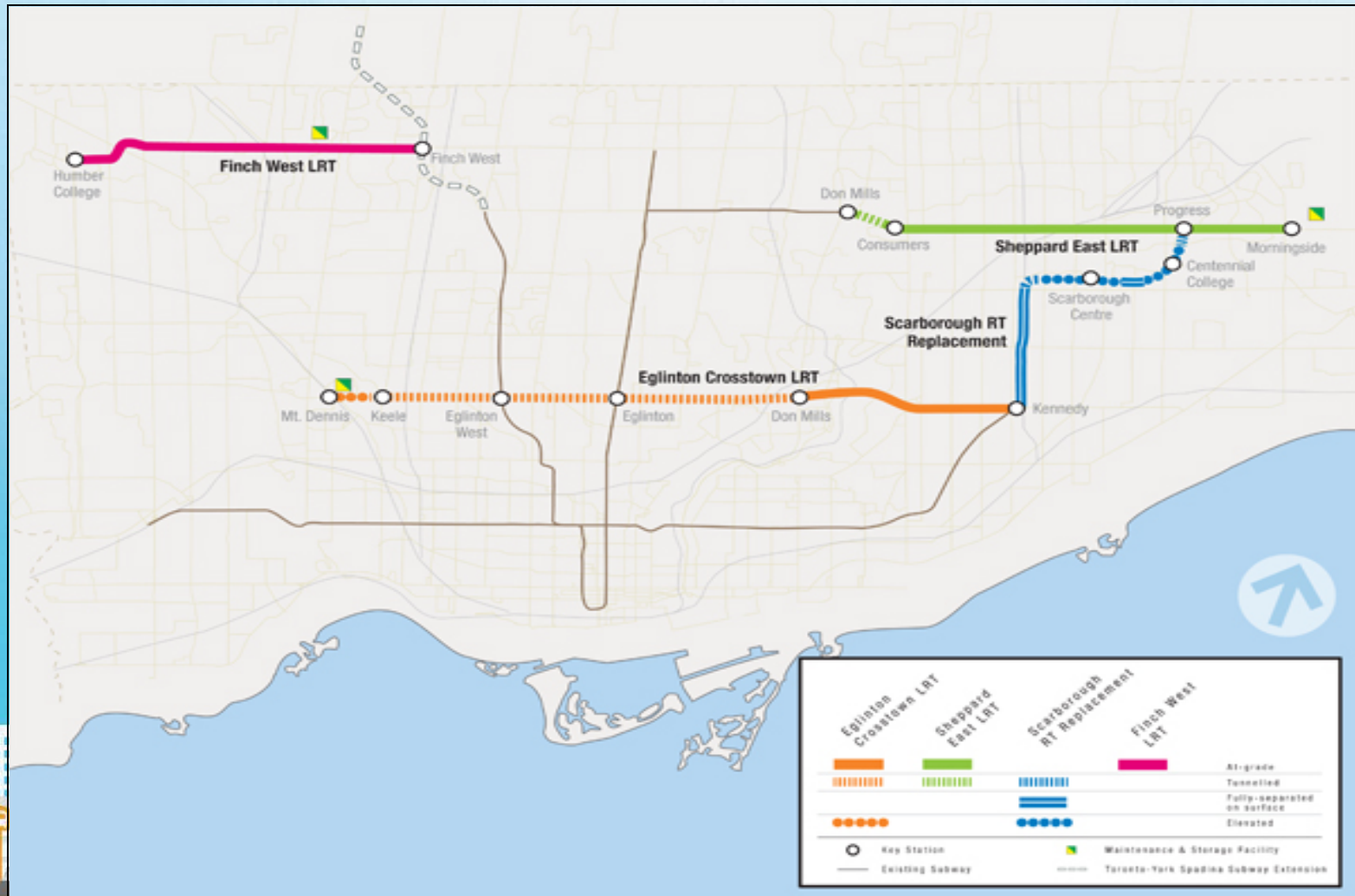
Toronto expansion

Vaughan York Subway Extension – Under construction

- 8.6 km extension of existing system:
- 2016 completion
- 4 Tunnel boring machines
- First subway to go beyond city boundaries



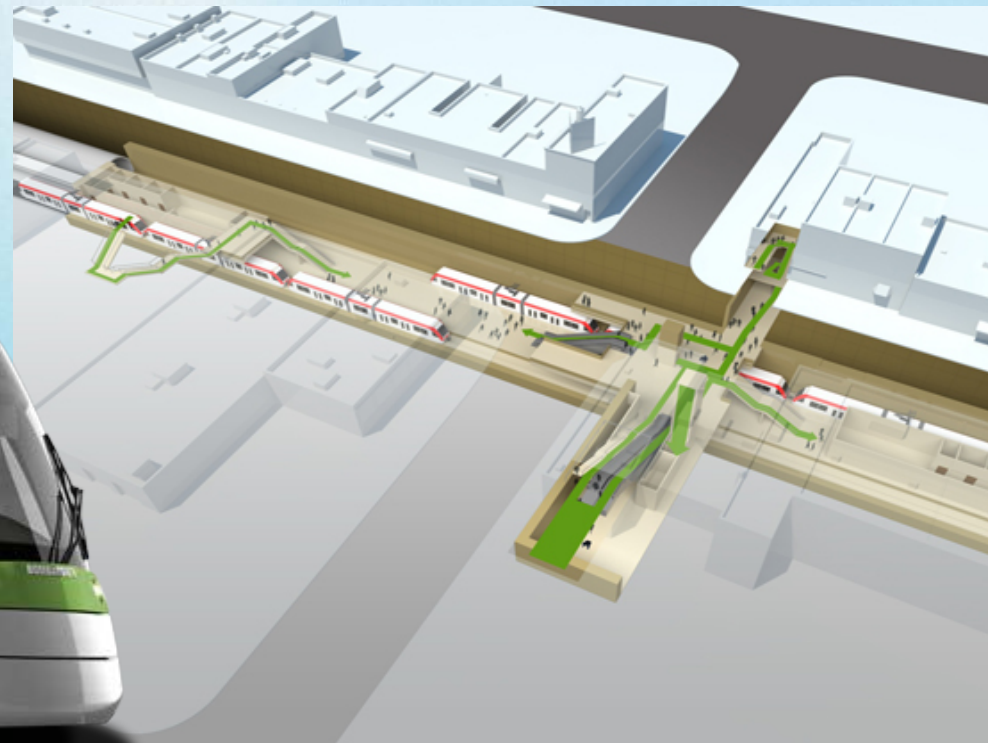
Toronto expansion



Four New Lines = 52 kilometres of New Transit

Toronto expansion

EGLINTON CROSSTOWN



Toronto expansion

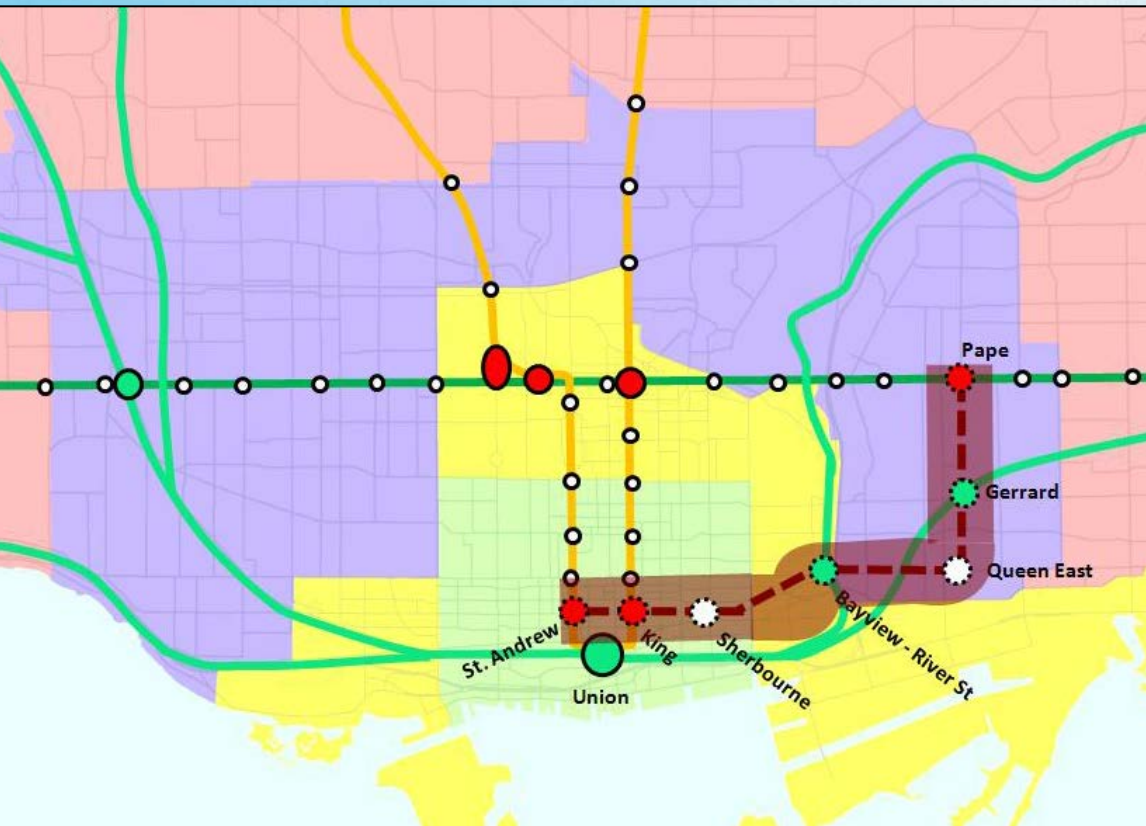
Yonge Subway Extension to Richmond Hill - unfunded

- 6.8 km
- 6 station extension of the Yonge Subway from its terminus at Finch Station to a proposed terminus at Richmond Hill Centre
- Capacity concerns for inner portion of line



Toronto expansion

Downtown Relief Subway



- Several alignment options
- Required to provide alternative entry to city centre and relieve overcrowding on Yonge line
- Prerequisite to northern extension of Yonge line
- Unfunded

Toronto expansion

Union Pearson Express – construction underway

- 3 km spur on 25 –km line from Toronto Pearson Airport to Union Station
- At highest elevation will be 28 metres above ground
- Manually operated DMU trains from Sumitomo



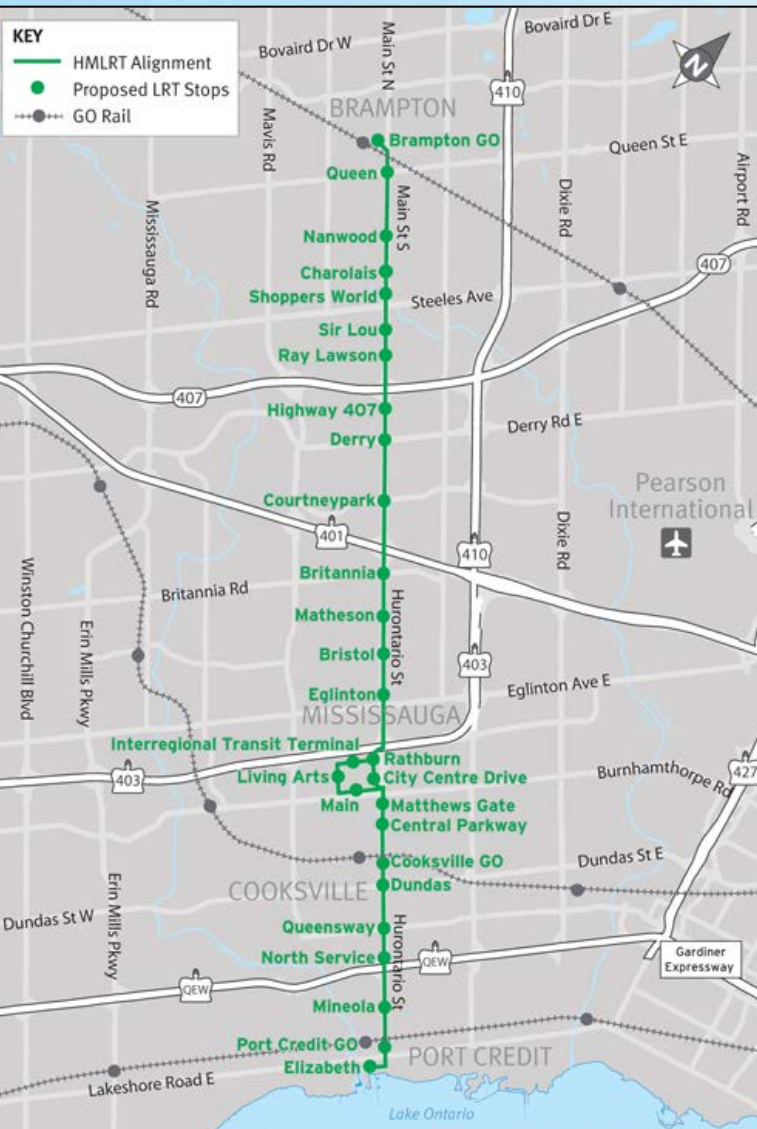
Toronto expansion

Union Station revitalisation –underway



- Currently handles 70 million passengers per year
- Platform rebuild
- Glass atrium
- New underground concourse
- Additional subway platform

Mississauga Brampton LRT



**Preliminary design underway
– political debate**

- 23 km and 28 stations
- Busy north-south corridor
- \$1.6 billion estimated cost

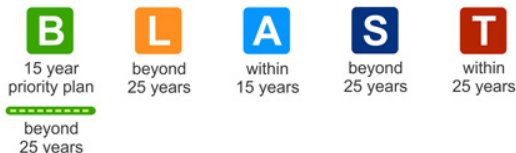


Hamilton LRT

Feasibility study underway – political debate



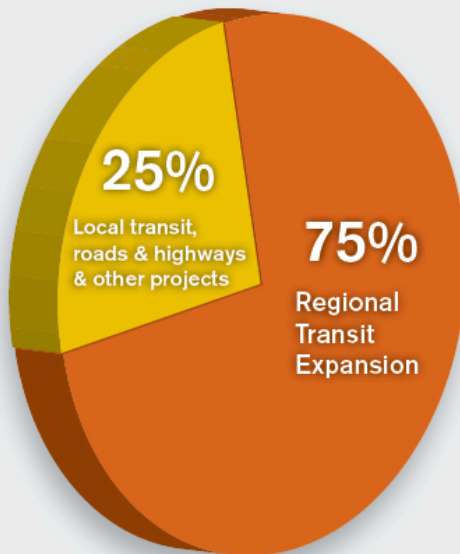
- 14-km B Line first priority
- 18 stations
- Key east-west link through city centre to McMaster University
- \$1 billion estimated cost



Hamilton Long Term Rapid Transit System "B.L.A.S.T." (Conceptual Only)



NEXT WAVE PROJECTS



We all know that every trip begins and ends on a local road or on local transit. With the next wave of projects in *The Big Move*, we plan to allocate the remaining 25 per cent of resources for other means of travel including local transit projects, as well as roads and highways, active transportation.

- Municipal transit support (15%)
- Improvements to regional highways (5%)
- Other smaller projects that support larger transportation initiatives (5%)

- Brampton Queen Street Rapid Transit
- Downtown Relief Line
- Dundas Street Bus Rapid Transit (BRT)
- Durham-Scarborough Bus Rapid Transit
- GO Rail Expansion: More Two-Way All-Day & Rush Hour Service
- Electrification of GO Kitchener line and Union Pearson Express
- GO Lakeshore Express Rail Service - Phase 1 (Including Electrification)
- Hamilton Rapid Transit (RT)
- Hurontario-Main Light Rail Transit (LRT)
- Yonge North Subway Extension

THE BIG MOVE

TRANSFORMING TRANSPORTATION IN THE GREATER TORONTO AND HAMILTON AREA



METROLINX
LINKING PEOPLE TO PLACES • ON Y VA
An agency of the Government of Ontario

1 percentage point **HST**



\$1.3 billion annually

5¢ Fuel & Gasoline Tax



\$330 million annually

Business Parking Levy



\$350 million annually

15% Development Charges



\$100 million annually

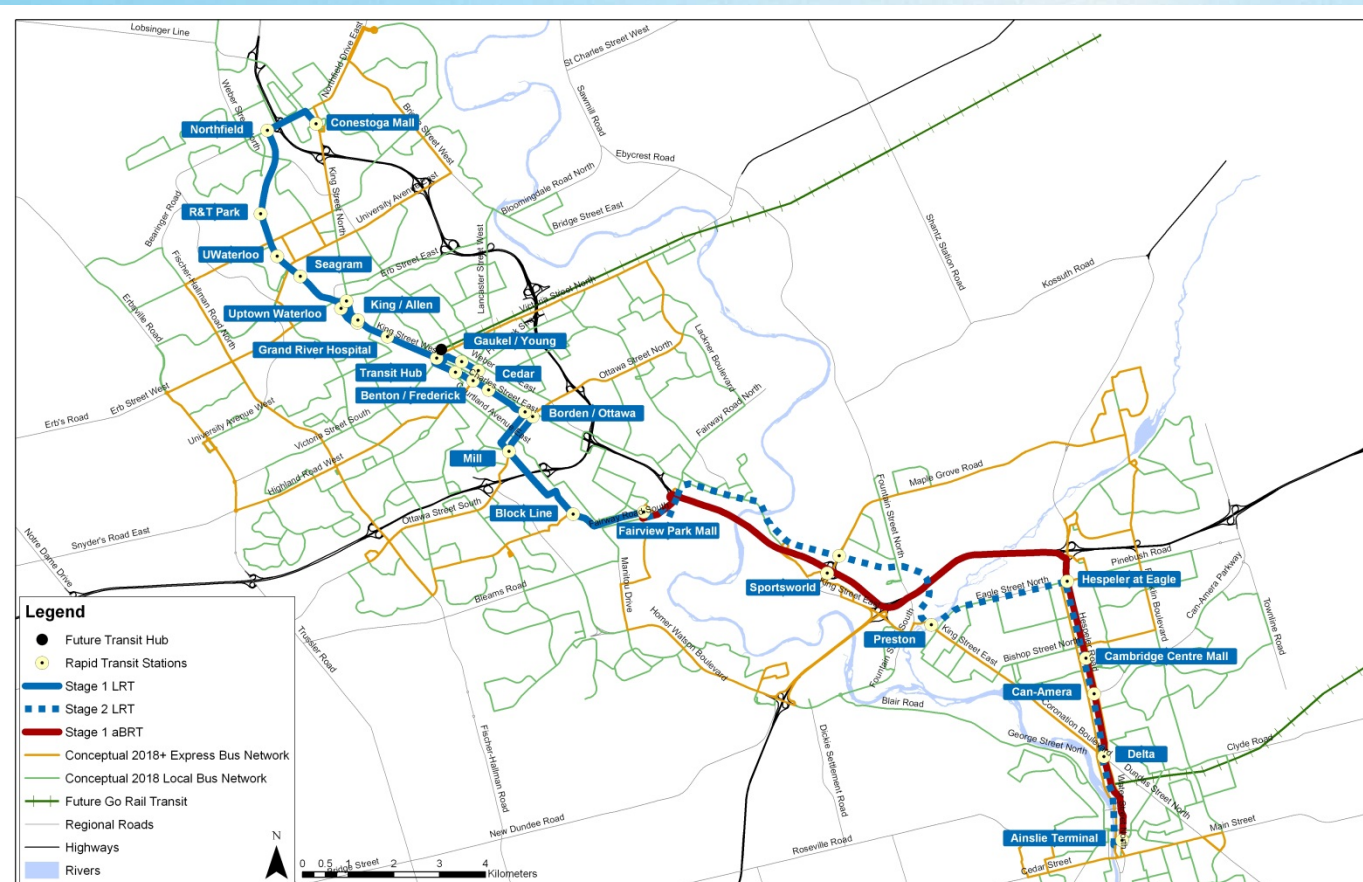
\$2 billion annually

Kitchener Waterloo “Ion” LRT



Construction to
begin in 2014

- 36 km
- 22 stations
- \$818 million cost
- DBFOM
- Fully funded
- 14 Flexity vehicles from Bombardier



Ottawa



CONFEDERATION LINE



Ottawa

Confederation Line



- 13 km
- \$2.1 billion
- Fully funded
- DBFM
- Awarded to Rideau Transit Group: ACS, Dragados, EllisDon, SNC, Veolia, Adamson, Alstom, HMM, MMM, IBI



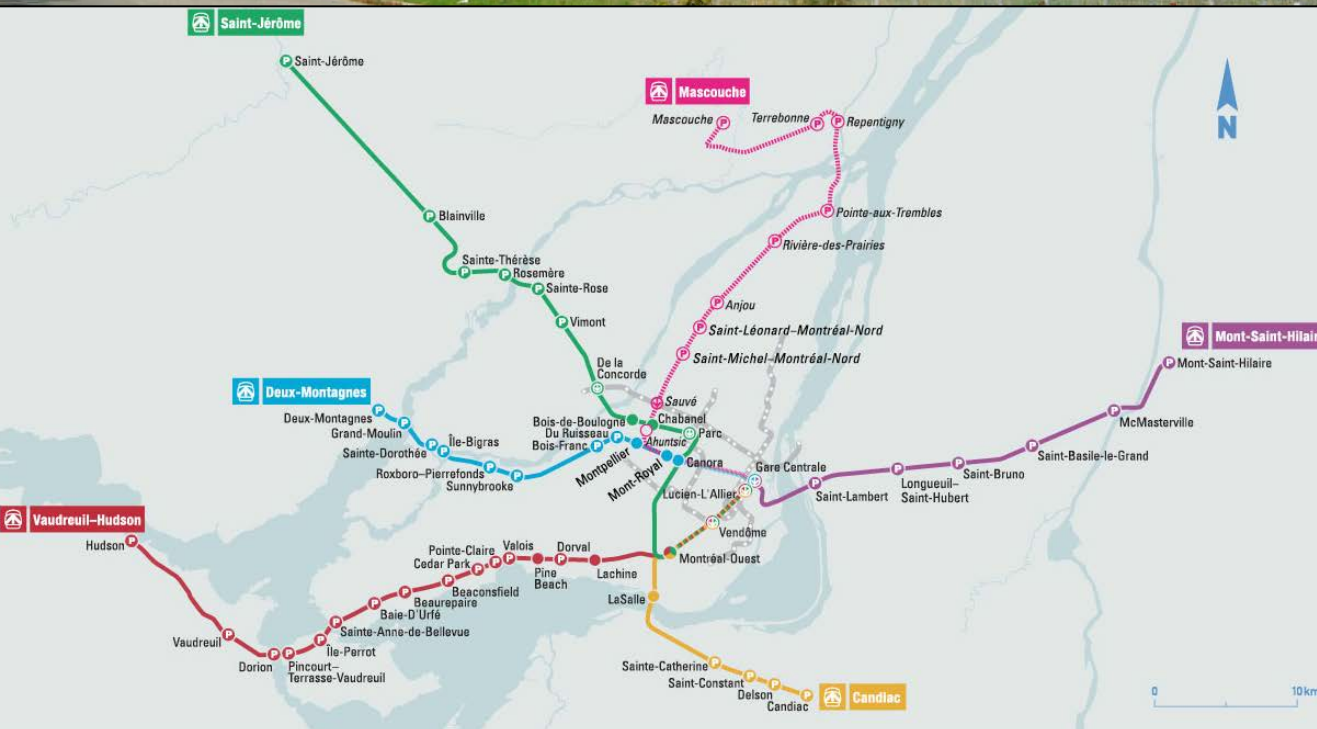
Montréal



Montréal expansion

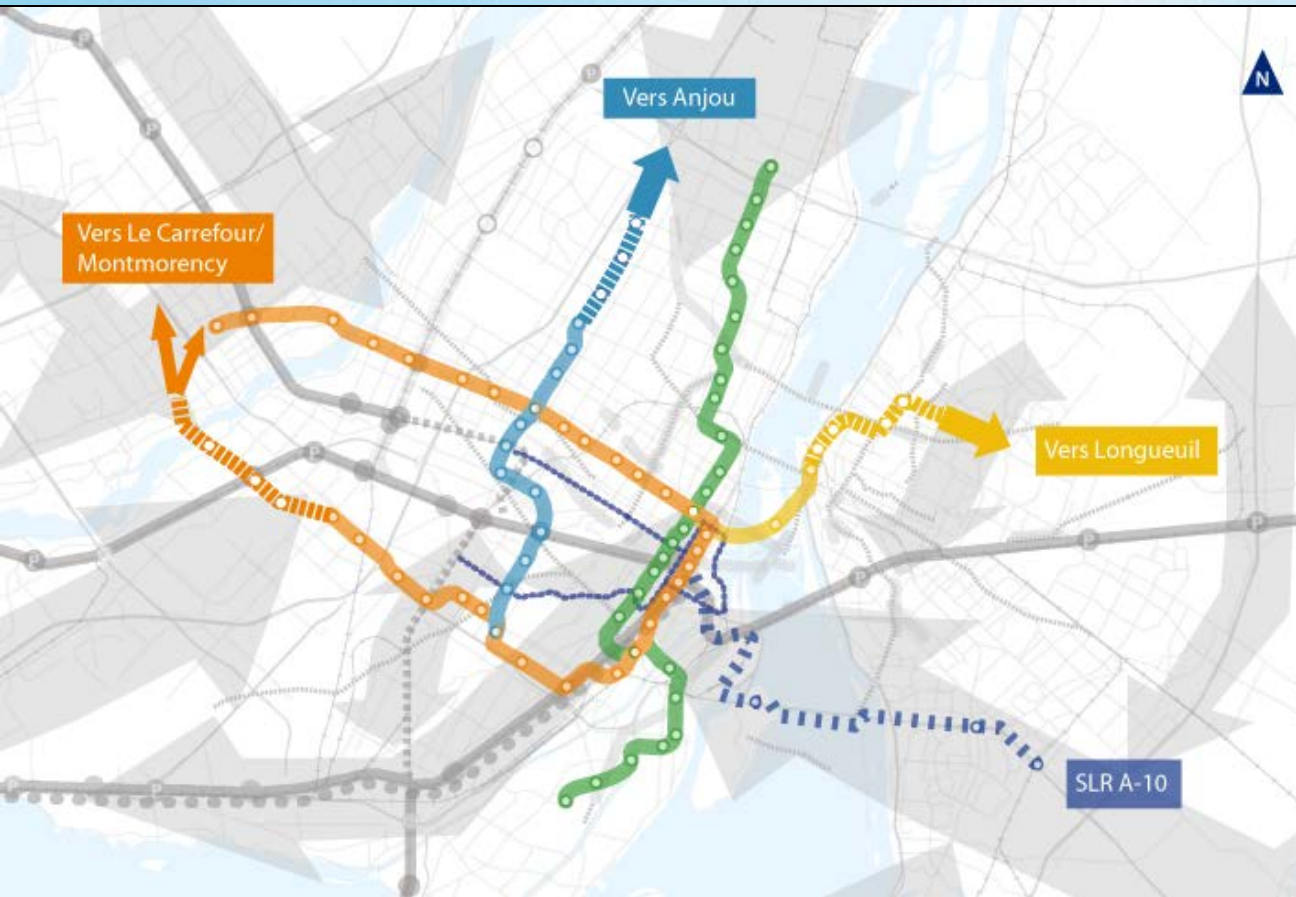
Suburban rail

- Electrification
- Train De l'Ouest
- New Maintenance Facilities Lachine and Point Saint Charles
- \$7.2 billion over next 10 years
- Dual mode locomotives



Montréal expansion

Métro extensions and light rail



- 3 line extensions under consideration
- Political debate
- Unfunded
- South Shore light rail proposed for Champlain Bridge

Montréal expansion

City Centre Tramway



- 32 stop,
13-km line
- Proposed
by City of
Montreal
- Unfunded

CUTA Member Transit Systems



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