



Capital Projects Update

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Chief Capital Officer



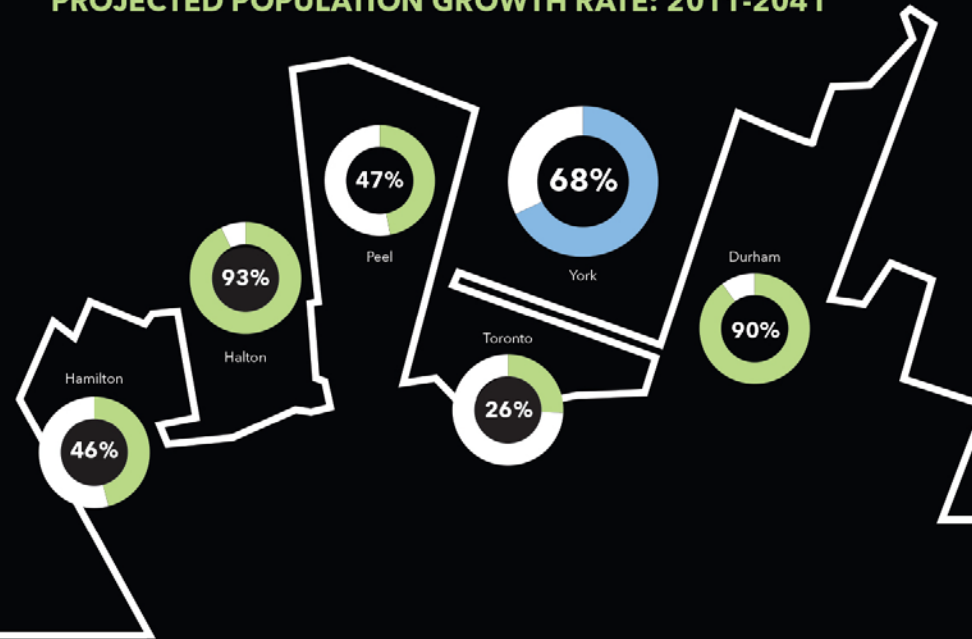
ECLRT Mount Dennis Maintenance and Storage Facility, August 9, 2017.

OUR REGION IS GROWING

The Greater Golden Horseshoe is growing fast, and by 2041, it's estimated that more than nine million residents will call the region home. This increase of almost 30% means even more people on area roads year after year.

Growth in the Greater Golden Horseshoe is a sign of success and opportunity, but our transportation networks are at their limit. That's why Metrolinx is delivering the largest transit infrastructure program in Canadian history to keep our region moving today and tomorrow.

PROJECTED POPULATION GROWTH RATE: 2011-2041



WE ARE INVESTING TO MEET FUTURE NEEDS

METROLINX ASSETS TODAY

\$19.5
Billion*

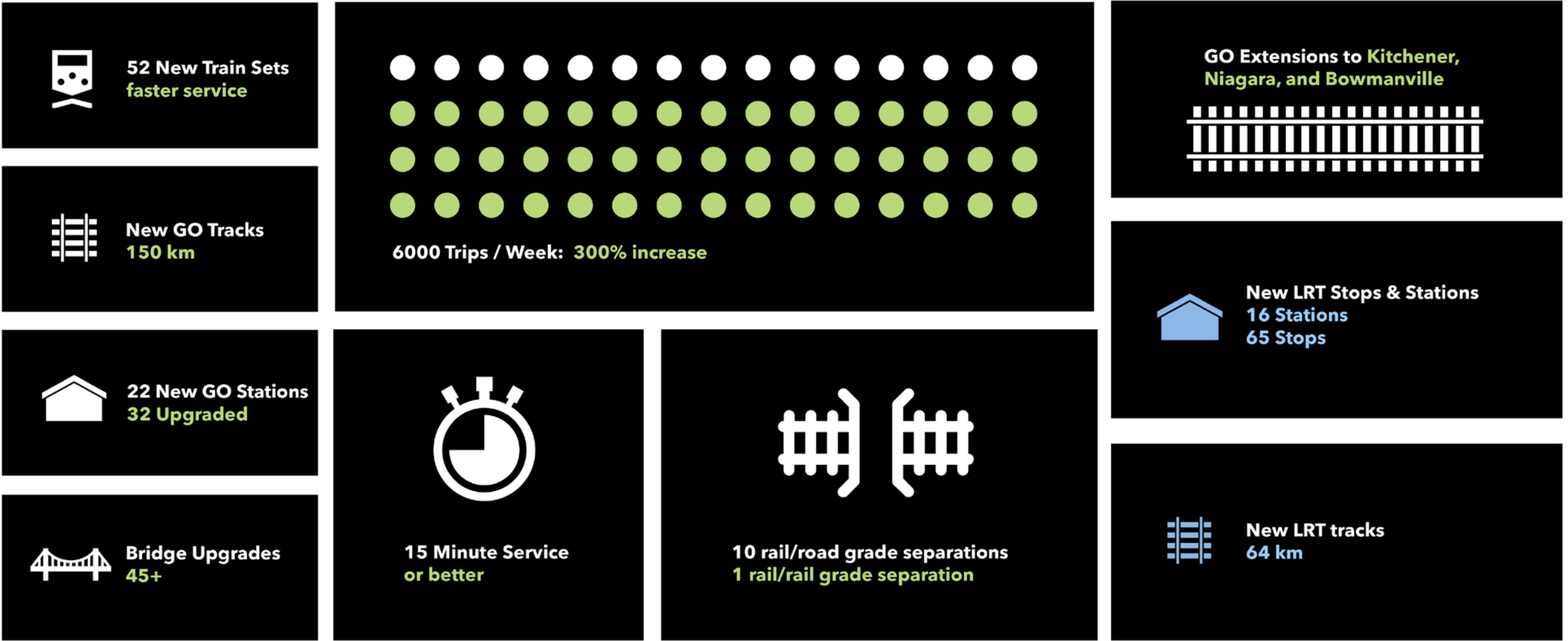
**March 2017, Audited*

PLANNED CAPITAL SPEND OVER 10 YEAR PROGRAM

over
\$43 Billion**

***Metrolinx 17/18 Business Plan*

GO EXPANSION AND LIGHT RAPID TRANSIT BY THE NUMBERS



PROGRESS IS BEING MADE

We are well into our aggressive 10 year long delivery schedule which requires concurrent planning, design and construction. Considerable volumes of work are now well into pre-market, in market, or with contracts awarded.

We continue to advance Rapid Transit with Eglinton Crosstown scheduled to open in September 2021, and the Regional Express Rail and GO Expansion program scheduled to be in service by 2025.

Significant RER program milestones achieved in period:

- RFQ for a new Operator for the GO network on July 24
- RFQ for Early Stations Improvements on July 28



ECLRT Science Center Station, July 26, 2017. Waterproofing/Concreting

RAPID TRANSIT

- Renforth Terminal for GO and Mississauga MiWay buses slated to open in late September 2017
- Hurontario LRT: RFP released August 8, 2017
- Eglinton Crosstown LRT: Continue to prepare the tunnels for track installation
- Eglinton Crosstown LRT: first tracks installed at Mount Dennis Maintenance Storage Facility



Renforth Terminal, August 10, 2017.

DELIVERING THE GO EXPANSION PROGRAM

- The expansion of the GO rail network is making significant progress
- The CPG Quarterly Report filed with the Board includes significant detail on individual projects and corridors
- Significant program elements are moving forward to support the delivery of the Go Expansion Program:
 - Hydrogen
 - Union Station
 - Extensions
 - Environmental Assessments
 - SmartTrack Stations

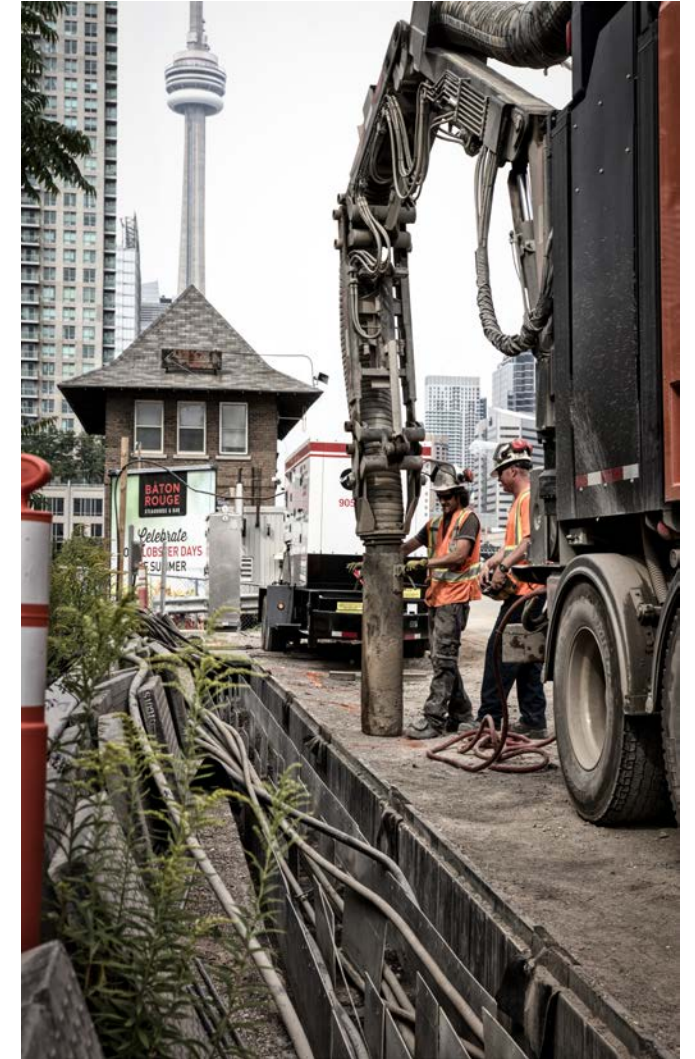
DELIVERING THE GO EXPANSION PROGRAM: HYDROGEN

- A feasibility study on the use of hydrogen fuel cells as an alternative technology for electrifying GO rail service and the UP Express is underway
- Ontario is committed to running electrified trains on the GO rail network by 2025. Studying the feasibility of hydrogen rail technology is part of our due diligence to ensure that we choose the appropriate technology.
- Metrolinx has had discussions with the Germany-based National Organization Hydrogen and Fuel Cell Technology (NOW) to learn directly about early experience
- Metrolinx is committed to bringing industry leaders together for a symposium later this year to explore the potential application of hydrogen fuel cell technology



DELIVERING THE GO EXPANSION PROGRAM: UNION STATION

- Signalling upgrade works are well underway in the Union Station Rail Corridor. Parts of the signalling system date to the 1920s, and upgrades will improve reliability and allow trains to move faster in and around Union Station.
- Contracts were awarded which will support a better experience at Union. These are the first of many investments to be made over the coming years to handle increased traffic at Union from the GO Expansion Program.
- We are in the process of an unconstrained review of Union Station Options and “futureproofing”.



Cable containment installation, Union Station (East)

DELIVERING THE GO EXPANSION PROGRAM: EXTENSIONS

- We are attending municipal councils to inform elected officials and residents about the projects and next steps
- We are actively negotiating with rail partners to understand Environmental Assessment needs
- A new Oshawa GO/VIA station building is nearing completion, slated for opening in fall 2017



Pictured: Oshawa Station Rendering, MDRP reviewed June 13, 2013.

DELIVERING THE GO EXPANSION PROGRAM: ENVIRONMENTAL ASSESSMENTS (EA)

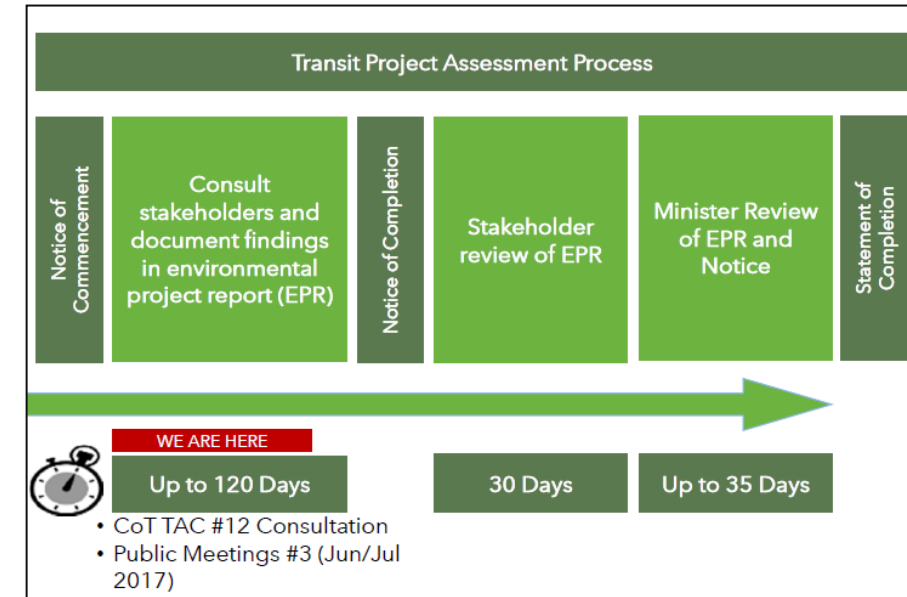
Big and critically important EAs are making significant progress:

- Electrification Transit Project Assessment Process (TPAP)
- Lakeshore East, Segment 1
- Union Station Rail Corridor East

These assessments are critical to delivering the GO Expansion Program and the City of Toronto's SmartTrack.

Noise mitigation:

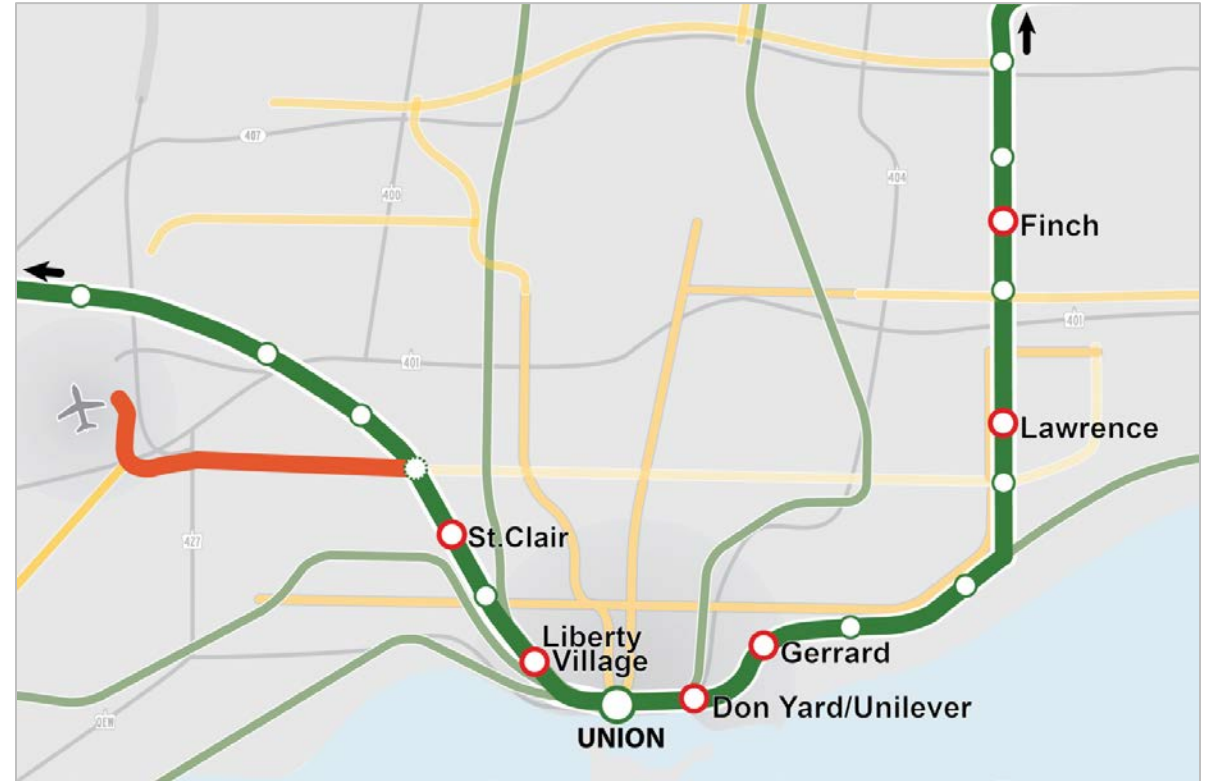
- Metrolinx will meet all EA requirements for noise mitigation and in some cases may go beyond what is required



The Electrification TPAP Timeline, August 2017.

SMARTTRACK STATIONS

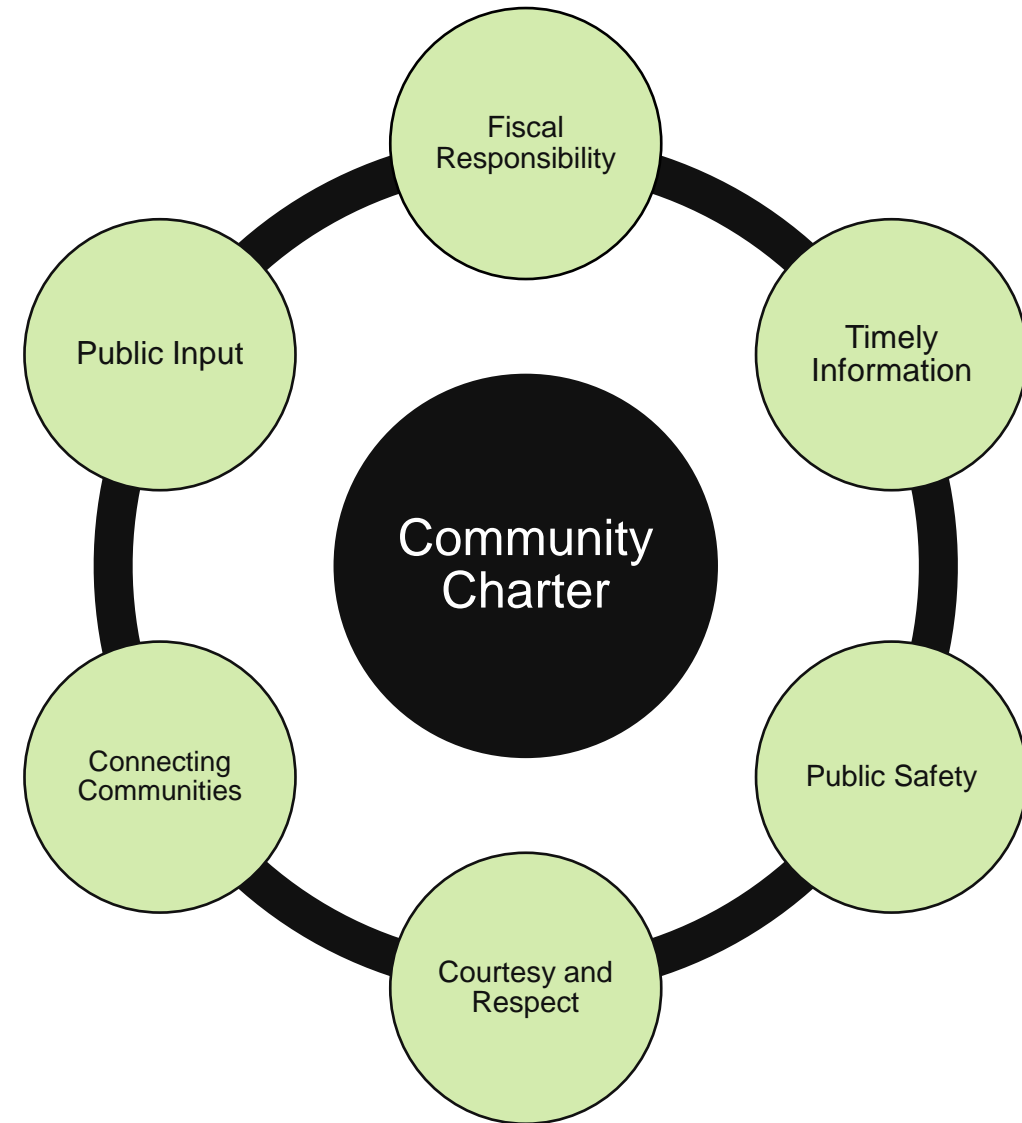
- Public consultation on station concepts is scheduled to begin in September 2017
- “Stage gate” process provides the City of Toronto with opportunities to review progress of the program at critical milestones
- Approval of Stage Gate 4 in process and is expected to be debated by Toronto City Council in Fall 2017
- Council is expected to consider final approval of the program in late Spring 2018



SmartTrack Station locations (red dots). Final station names subject to Metrolinx's Naming Approach

COMMUNITY IMPACTS

- Metrolinx recognizes that with new infrastructure and construction comes impacts to the community.
- Metrolinx is 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, and
 - will define Metrolinx's relationship with residents and communities through a series of promises and service standards.
- Municipal input, advice and support in managing these impacts will be of critical importance.



OUTLOOK

- CPG continues to advance the Go Expansion Program and Rapid Transit Program, important prerequisites to enable the vision of Metrolinx's Regional Transportation Plan *The Big Move*



Eglinton Crosstown Tunnel, Segment 6, Concrete poured, and ready for track installation, July 27, 2017.

