Re: EX9.1

SMARTTRACK STATUS UPDATE

Presentation to City of Toronto Executive Committee
October 20, 2015

John Livey, Deputy City Manager, Cluster B, City of Toronto Chris Upfold, Chief Customer Officer & Deputy CEO, Toronto Transit Commission





Outline

Issue Background

Project Status & Updates

Next Steps



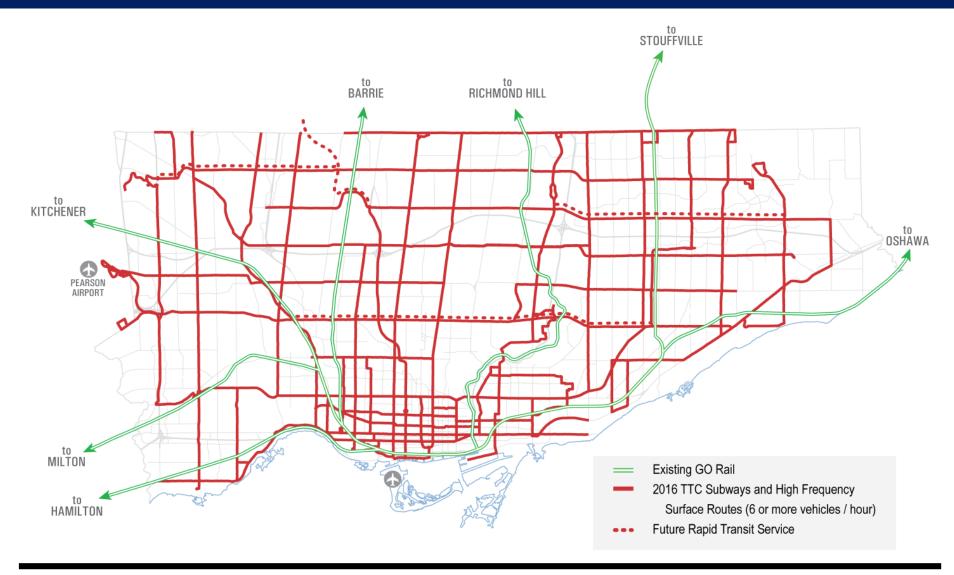


ISSUE BACKGROUND





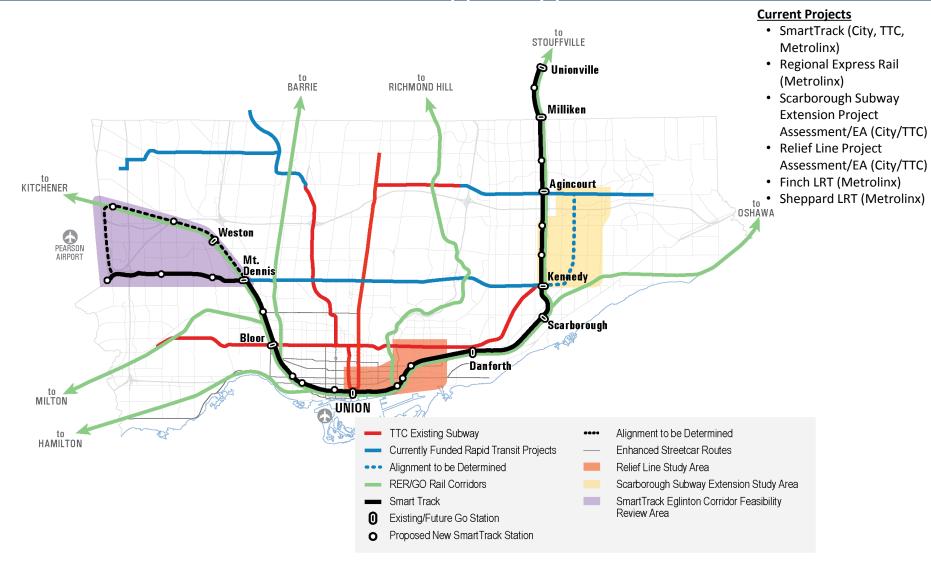
Toronto's Existing High Frequency & High Capacity Transit Network







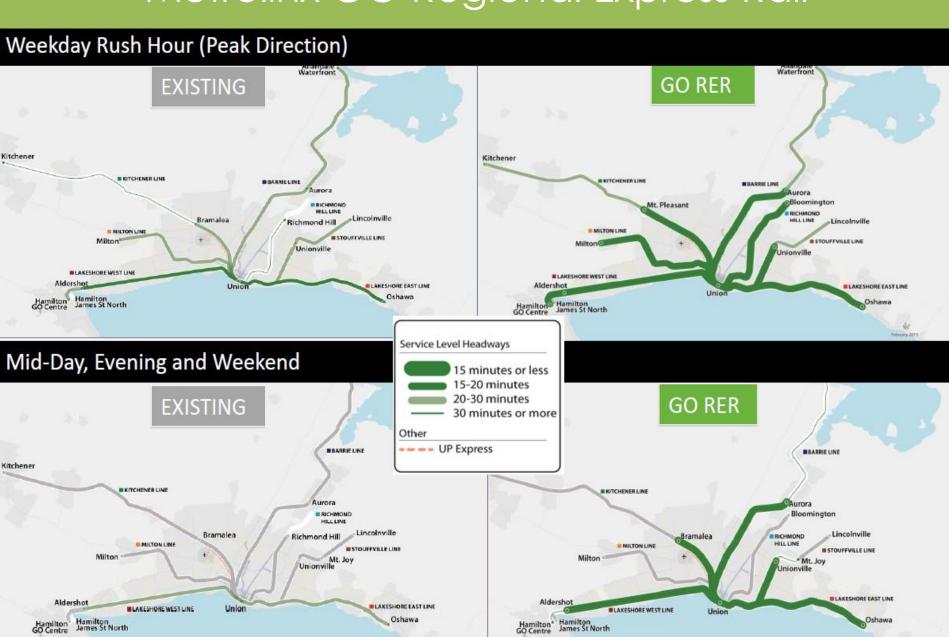
Toronto Transit Expansion Projects Currently in the Planning Stage



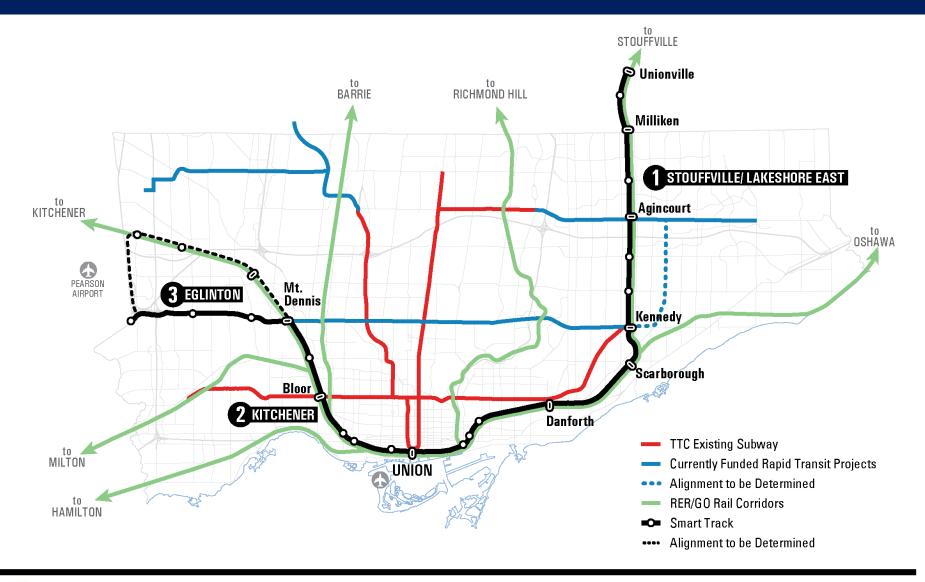




Metrolinx GO Regional Express Rail



SmartTrack Study Areas







SmartTrack and GO RER

Regional Express Rail (RER)	SmartTrack		
General	Sinarcinack		
 Service frequency of 15 minutes or better Fare policy to be determined. Union Station key destination Electrification 	 Service frequency of 15 minutes or better All stop service in both directions TTC fare option included in study Union Station, Mississauga Airport Corporate Centre/Pearson are key destinations Electrification Local Service Integration 		
Corridor #1- Stouffville/Lakeshore East GO (Unionville to Union Station)			
 6 existing GO stations Consideration of new stations undergoing analysis and consultation 	6 existing GO stations (1 in Markham)7 new stations (1 in Markham)		
Corridor #2- Kitchener GO (Mt. Dennis to Union Station)			
 1 existing GO station (Bloor) 1 future GO station (Mt. Dennis) Consideration of new stations undergoing analysis and consultation 	 1 existing GO station (Bloor) 1 future GO station (Mt. Dennis) 4 new stations 		
Corridor #3- Eglinton West (Mt. Dennis to Airport Corporate Centre)			
 Not in RER plan. Extension of Eglinton Crosstown LRT to Pearson Airport is an unfunded project in The Big Move Plan. 	 New heavy rail corridor to Mississauga Airport Corporate Centre 3 new stations (1 in Mississauga) 		



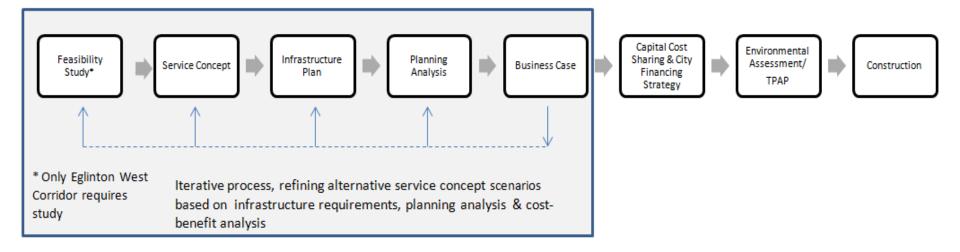


PROJECT STATUS & UPDATES





SmartTrack/RER Review Process







Developing the SmartTrack Service Concept & Infrastructure Plan

SmartTrack Components Under Review:

- Service Concept Options:
 - Service Frequency (4 to 12 trains an hour)
- Fare Options:
 - (TTC fare or GO fare)
- Infrastructure Options:
 - New Stations (14+ new stations)
 - Western Heavy Rail Corridor (8 Corridors, 11 alignments).





SmartTrack Infrastructure Plan Development: New Stations

- SmartTrack proposes approximately 14 new stations
 - Stouffville/Lakeshore East Corridor: 7 new stations
 - Kitchener GO Corridor: 4 new stations
 - Western Heavy Rail Corridor: 3-4 new stations
 - See Table 2 p. 13-14 of staff report contains full list of stations
- City preliminary assessment focuses on new stations within Toronto.
 - Appendix 2 of report contains City Planning assessment. Appendix 2A contains profiles of each station.
- GO RER as announced does not include new stations.
- Metrolinx has a process currently underway to assess potential new stations across the GO network.
 - List of 50+ stations (includes proposed SmartTrack stations) being considered by Metrolinx for further analysis and an initial business case.
- Additional analysis is required and public consultation

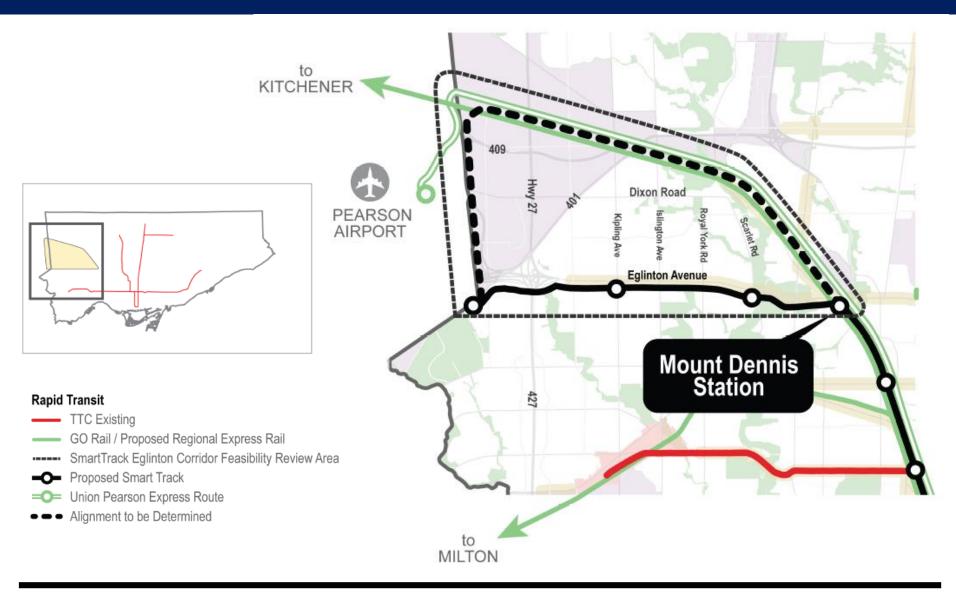




GO RER Electrification Plan



Western Heavy Rail Corridor Feasibility Review







Western Heavy Rail Corridor Feasibility Review

- 8 corridors and 11alignment options were assessed for heavy rail
- Base case is the unfunded EA-approved Eglinton LRT extension
 - Metrolinx has recently started to develop optimized options for Eglinton LRT extension. City staff will be consulted.
- The review has identified a number of technical areas requiring additional analysis:
 - Integration with the Kitchener GO Corridor and additional infrastructure requirements
 - Operations management with the Kitchener Corridor (including RER, UPX, VIA Rail and freight)
 - Impacts on existing development adjacent to the corridor
- Additional analysis is required, including inputs from ridership model prior to recommendations being brought forward in Q1 2016
- See Appendix 3 of the staff report for details





Western Heavy Rail Corridor Review: Preliminary Options Screening Results

Corridor Option	Preliminary Screening – Carried forward?	Number of Alignment Options Carried Forward for Further Study
Eglinton Corridor 1A	Yes	2
Eglinton Corridor 1B	Yes	1
Eglinton Corridor 1C	Yes	1
Eglinton Corridor 1D	Introduced after primary screening	Alignment to be developed
Woodbine/Airport Corridor 2A	No	N/A
Woodbine/Airport Corridor 2B	Yes	1
Woodbine/Airport Corridor 2C	Yes	2
Stand-alone Eglinton Corridor 3	No	N/A

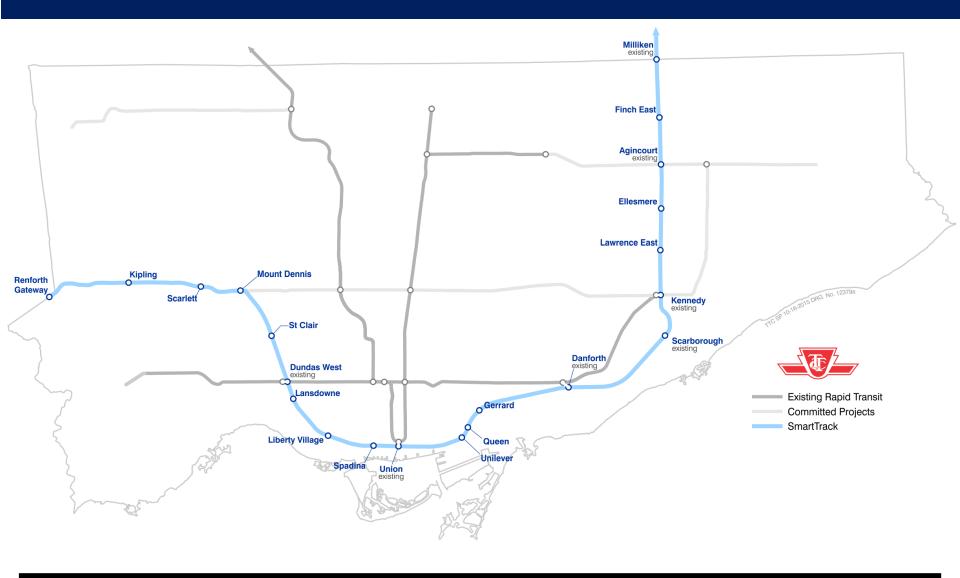






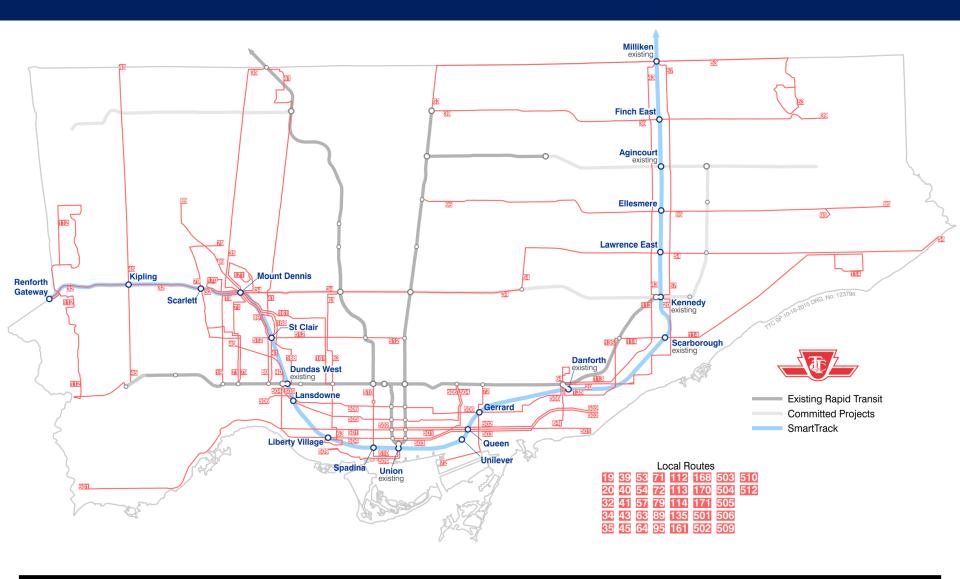






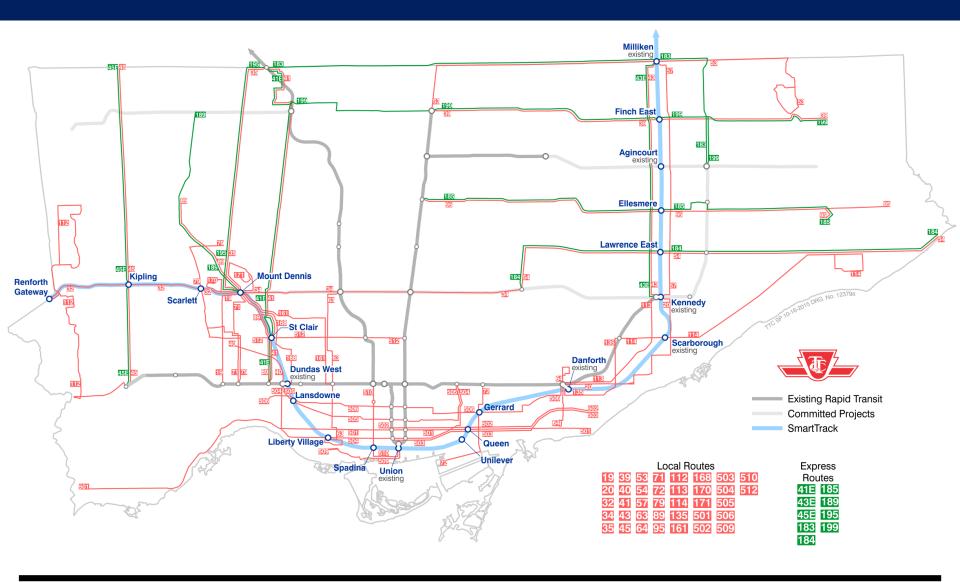








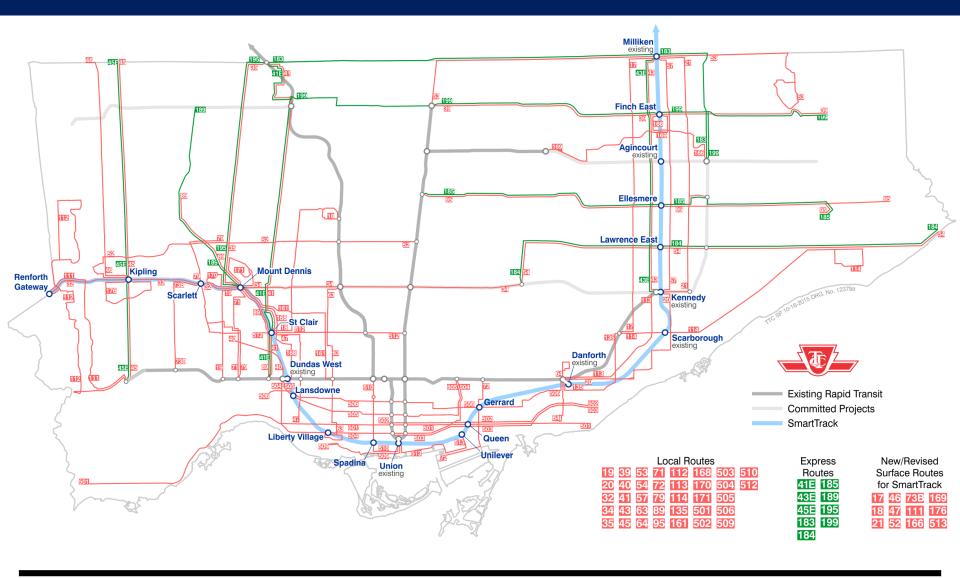








TTC Service Integration with SmartTrack







TTC Service Integration – Preliminary Findings

- 75 transfers: TTC routes @ 21 SmartTrack stations
- 9: off-route diversions
 - done by exception only at TTC
 - must satisfy criterion of net benefit to users
- use in ridership modelling, forecasting:
 - project customers transferring to ST
- use for ST station planning and assessment
- iterative process overall ST planning

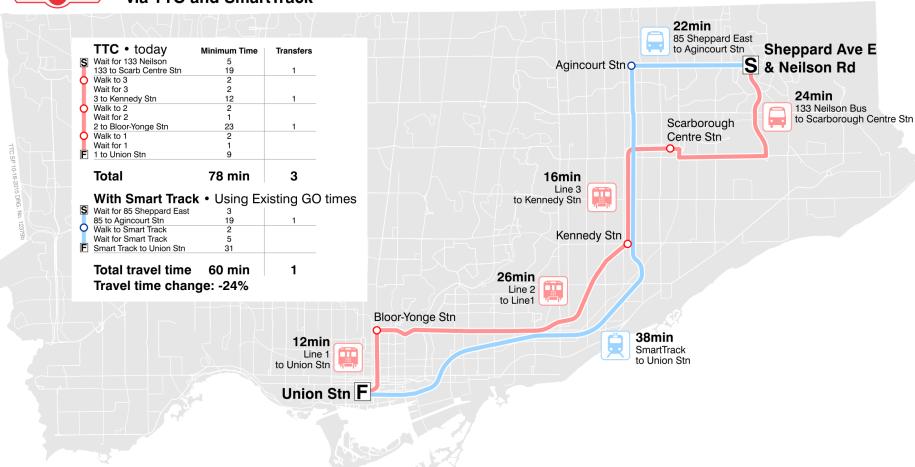






Sheppard & Neilson to Union Station

via TTC and SmartTrack



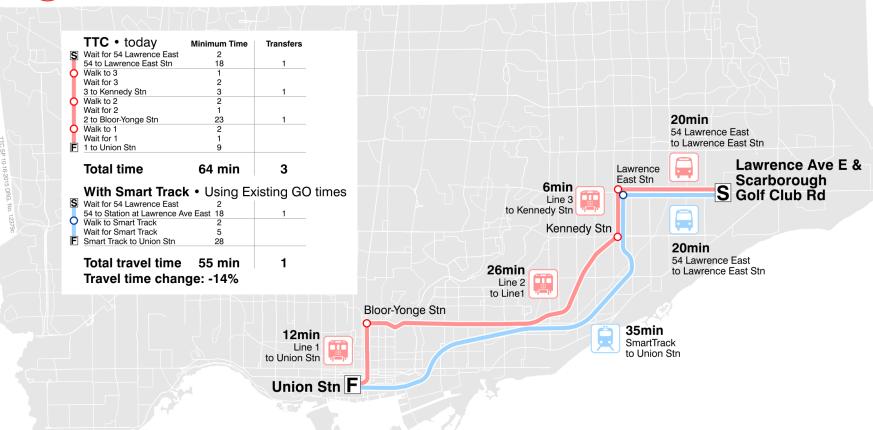






Lawrence & Scarborough Golf Club Rd to Union Station

via TTC and SmartTrack







Preliminary SmartTrack Planning Analysis

- SmartTrack will be evaluated in context of transit network using the Rapid Transit Evaluation Framework (RTEF) from the Official Plan Review Feeling Congested?
- RTEF contains 3 policy principles; 8 evaluation criteria; 20+ measures
- U of T is developing a new ridership model (GTHA Model V4)
 - provides important improvements over current models used to estimate ridership demand (incl. different network scenarios and off-peak demand)
 - Many RTEF measures require ridership outputs
 - Model is delayed; currently being calibrated and validated;
 - Ridership results are expected Q4 2015
- Preliminary assessment of SmartTrack included in Appendix 6
 - Assessment will be refined as optimal SmartTrack scenario developed, and all required inputs to the RTEF are available.





Capital Funding and Financing Strategy

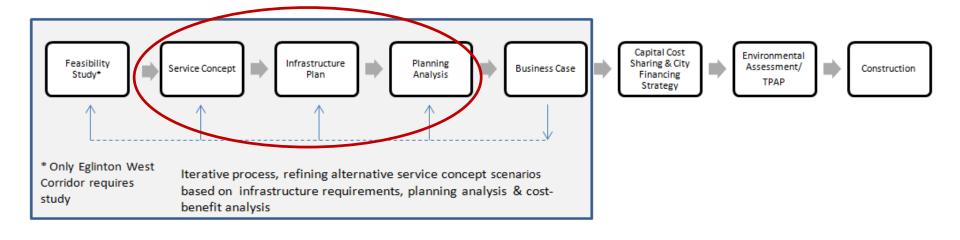
- Ontario 2015 Budget committed \$13.5 billion to implement GO RER. GO infrastructure improvements support and enable SmartTrack.
- Federal government commitment of up to \$2.6 Billion (one-third of the costs) for SmartTrack, under new Public Transit Fund.
- City Capital Funding and Financing review examining feasibility of various financing options, including:
 - Property Taxes
 - o Tax Increment Financing
 - Development Charges
 - Sale of development rights on City owned lands along SmartTrack corridor
- Capital and Operating costs for SmartTrack are currently undefined as the optimal SmartTrack scenario is still being developed.





Next Steps

- November Consultations on SmartTrack, Scarborough Subway Extension, and Relief Line.
- Ridership modelling data will be available in late 2015.
- Report to Executive Committee in Q1 2016 with comprehensive update and findings to optimize SmartTrack plan.







QUESTIONS AND DISCUSSION



