



# Building Rapid Transit For Toronto's Future

[www.CodeRedTO.com](http://www.CodeRedTO.com)



# Agenda

1. Who is CodeRedTO?
2. How did we get here?
3. What does light rail look like?

# Who is CodeRedTO?

- Toronto residents advocating for:
  - Transit expansion that helps the most people and happens faster
  - Honest, factual discussions of pros, cons, and costs
  - Increased, stable, predictable, funding to build better transit
- Stay informed!
  - [www.CodeRedTO.com](http://www.CodeRedTO.com)
  - **@CodeRedTO** on Twitter, **CodeRedTO** on Facebook
- Founded by Joe Drew, Cameron MacLeod, Laurence Lui
- All volunteer
- No funds or “talking points” from any group or councillor
- Please donate and take a button! 😊

**HOW DID WE GET HERE?**

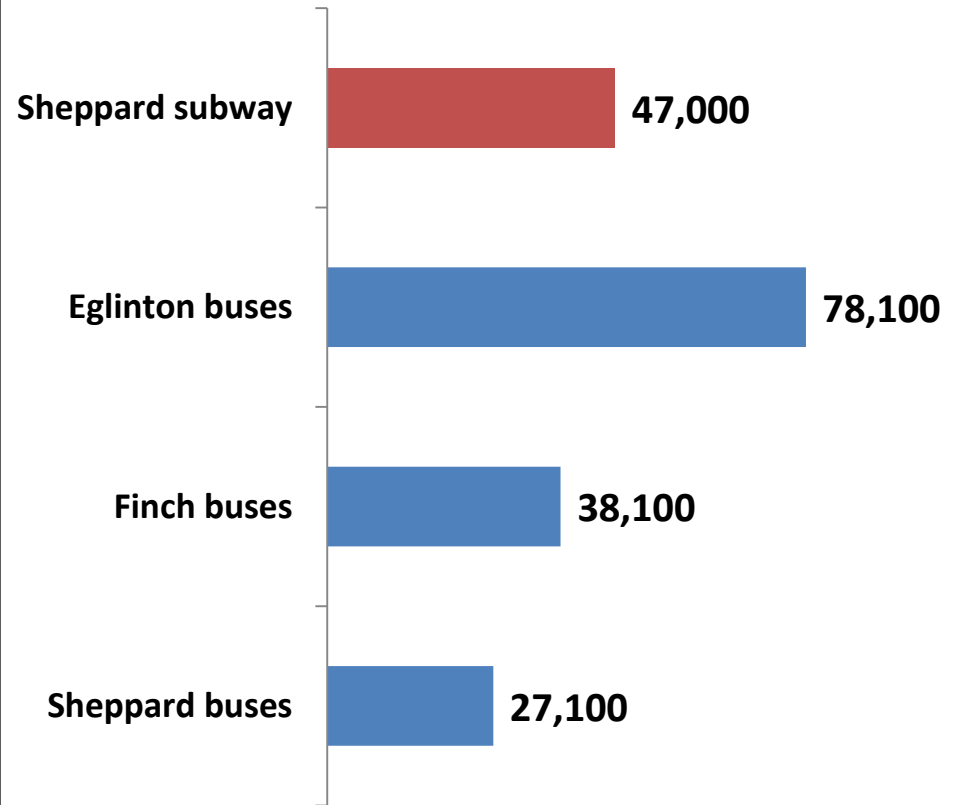
# We have a congestion problem

The problem is growing:

- Average daily Toronto commute is 80 minutes
- Our population is growing
- No room for new roads but we will have more commuters



## Overcrowded Bus Routes

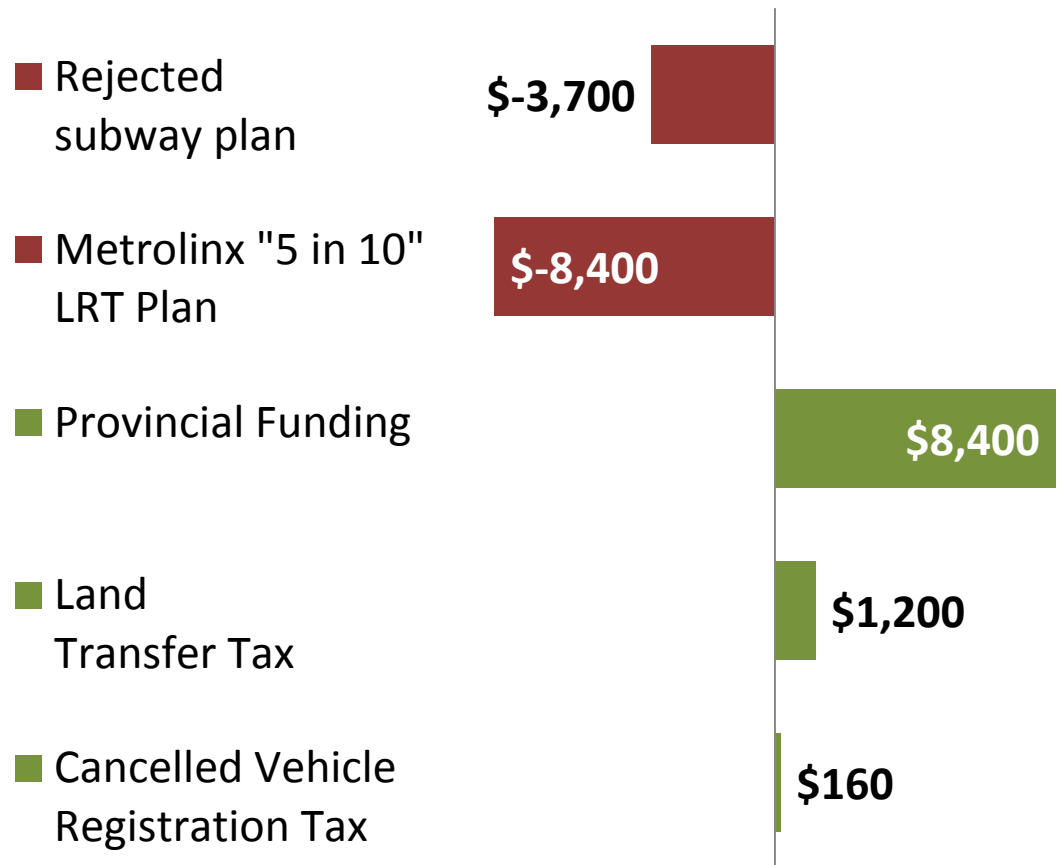


# We have a funding problem

## Our funding is limited:

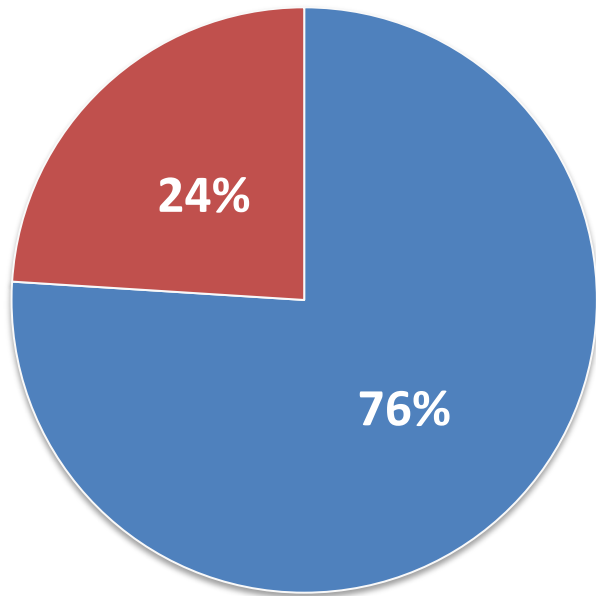
- Province has \$8.4B for expansion
- Old Vehicle Registration Tax raised about \$40+M/year
- Land Transfer Tax raises about \$300M/year
- Subways cost \$350+M/km

## Funding over 4 years (\$ millions)

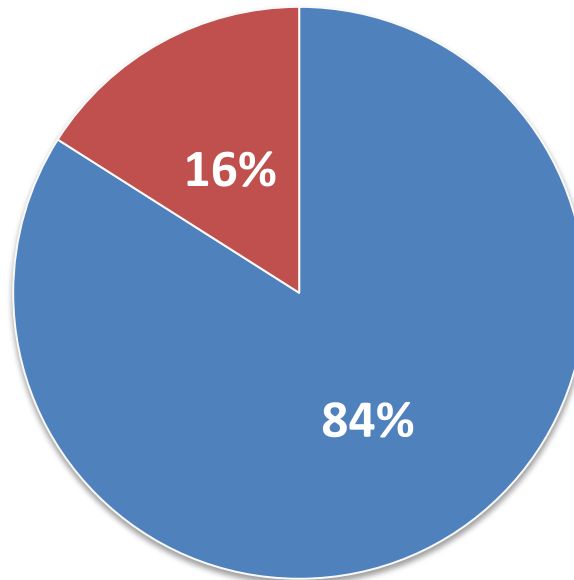


# We have a fairness problem

Population



Rapid Transit Today



■ Rest of Toronto ■ Scarborough

**Scarborough has less rapid transit than it needs.**

# 2007: Transit City



Seven modern light rail lines – over 100km. Public funding not identified yet in 2007. Would reach all corners of Etobicoke, North York, and Scarborough.



# 2010: Ford Mayoral Campaign



East and West extensions of Sheppard Subway, and replacement of SRT, using Provincial Transit City funds. Eglinton Crosstown, Sheppard LRT, Finch LRT cancelled. No other rapid transit anywhere in the city.

# 2011: Mayor & Premier Memorandum of Understanding



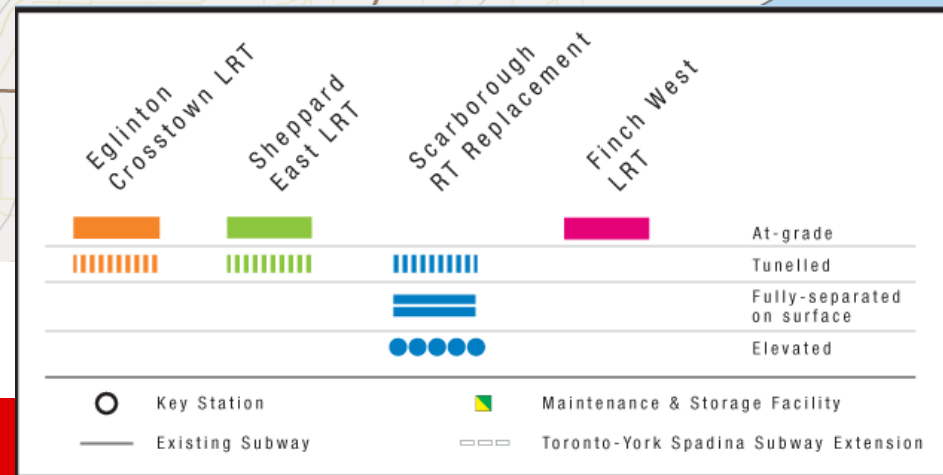
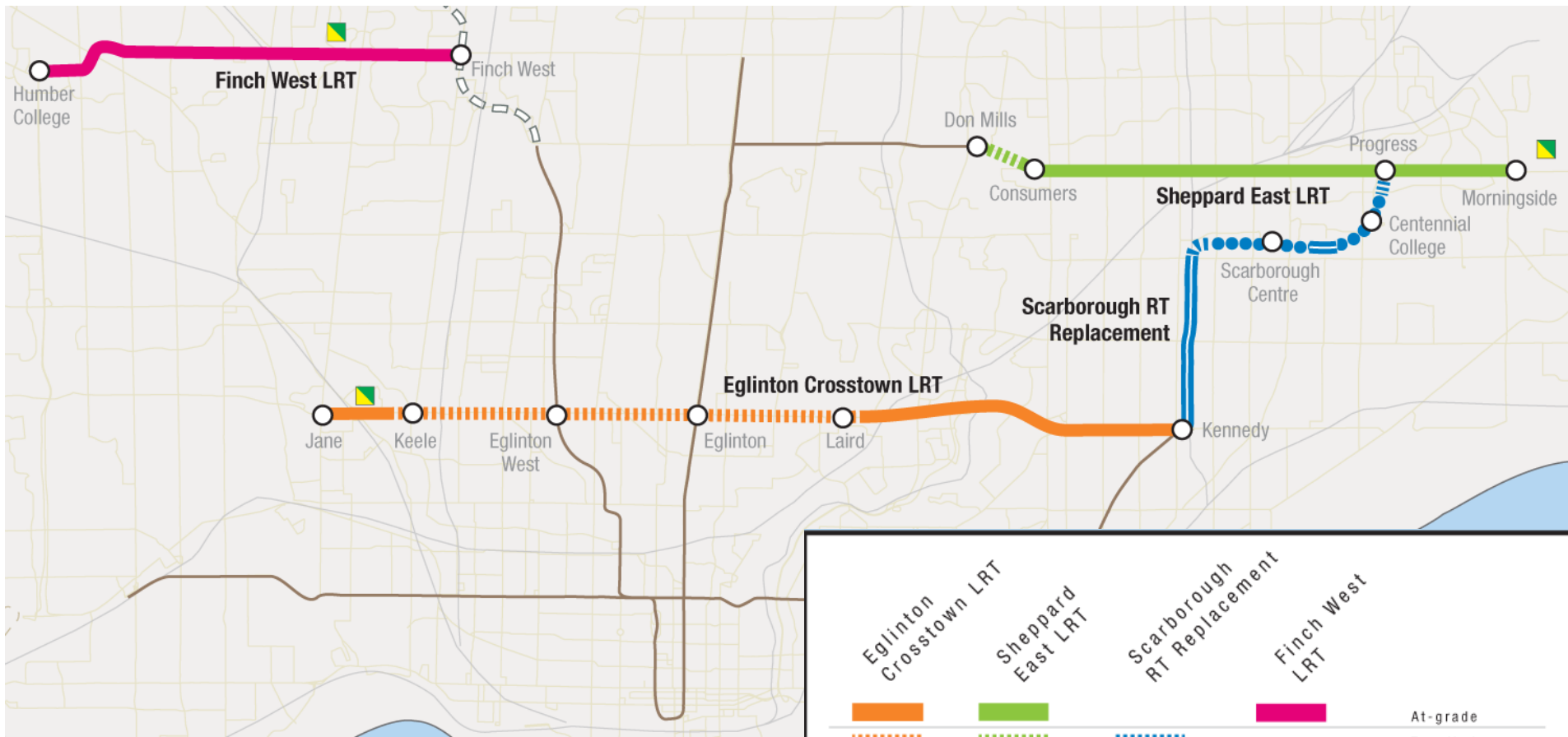
Negotiations between Mayor Ford and Premier Ford led to new plan: Province pays to bury entire Eglinton Crosstown LRT and replace the SRT. Sheppard Subway left up to the city to fund (Mayor Ford says private funds will pay). "Enhanced Bus" service for Finch West unfunded, undesigned.

# 2011: Mayor & Premier Memorandum of Understanding



Eglinton Crosstown LRT line would be buried for its entire length along Eglinton to Kennedy station. This would require over \$2 billion extra in costs, removing all funding for Finch and Sheppard LRT, and Scarborough RT extension to Sheppard.

# 2012: Metrolinx 5 in 10 reaffirmed by City Council and Metrolinx



**WHAT IS LRT?**

# What is LRT?

- Light Rail Transit uses electric vehicles in their own right-of-way to provide speed and capacity that are lower than subways, but much higher than buses and streetcars.
- Due to construction being mostly above-ground, LRT construction costs and timeframes are significantly lower than subways.



# Vehicle Comparison (2012 fleet)



**Bus:** 10 metres, 50 riders



**Streetcar:** 15 metres, 75 riders



**Scarborough RT:** 50 metres, 220 riders  
(must be shut down in 2015)



**Sheppard subway:** 100 metres, 667 riders



**YUS / BD subway:** 150 m, 1000-1100 riders

# Vehicle Comparison (2020 fleet)



**Bus:**

10 metres, 50 riders



**New on-street LRV:**

30 metres, 130-250 riders



**3-vehicle LRT trains:**

90 metres, 390-750 riders



**Sheppard subway:**

100 metres, 667 riders

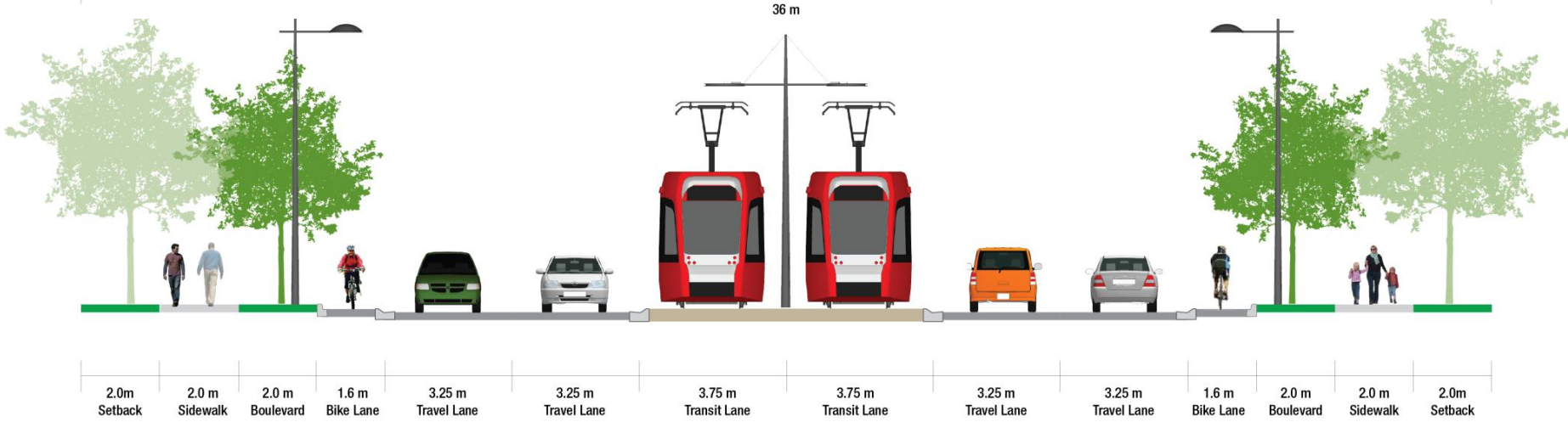
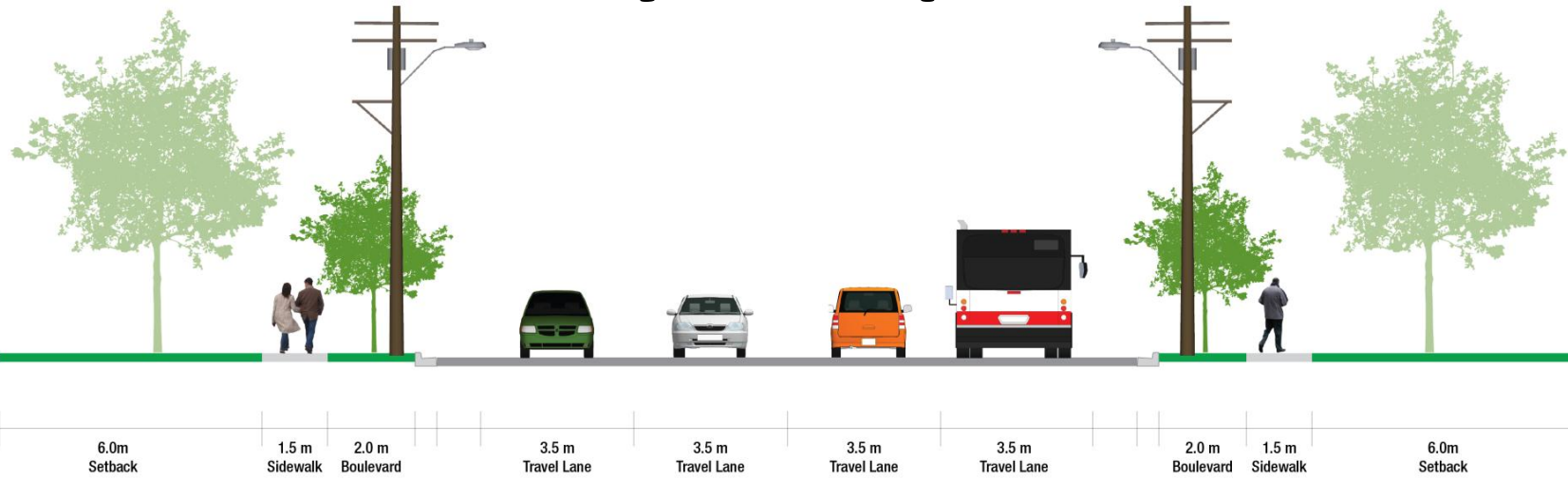


**YUS / BD subway:**

150 m, 1000-1100 riders



# Roadway Comparison



# Overall Travel Time Comparison

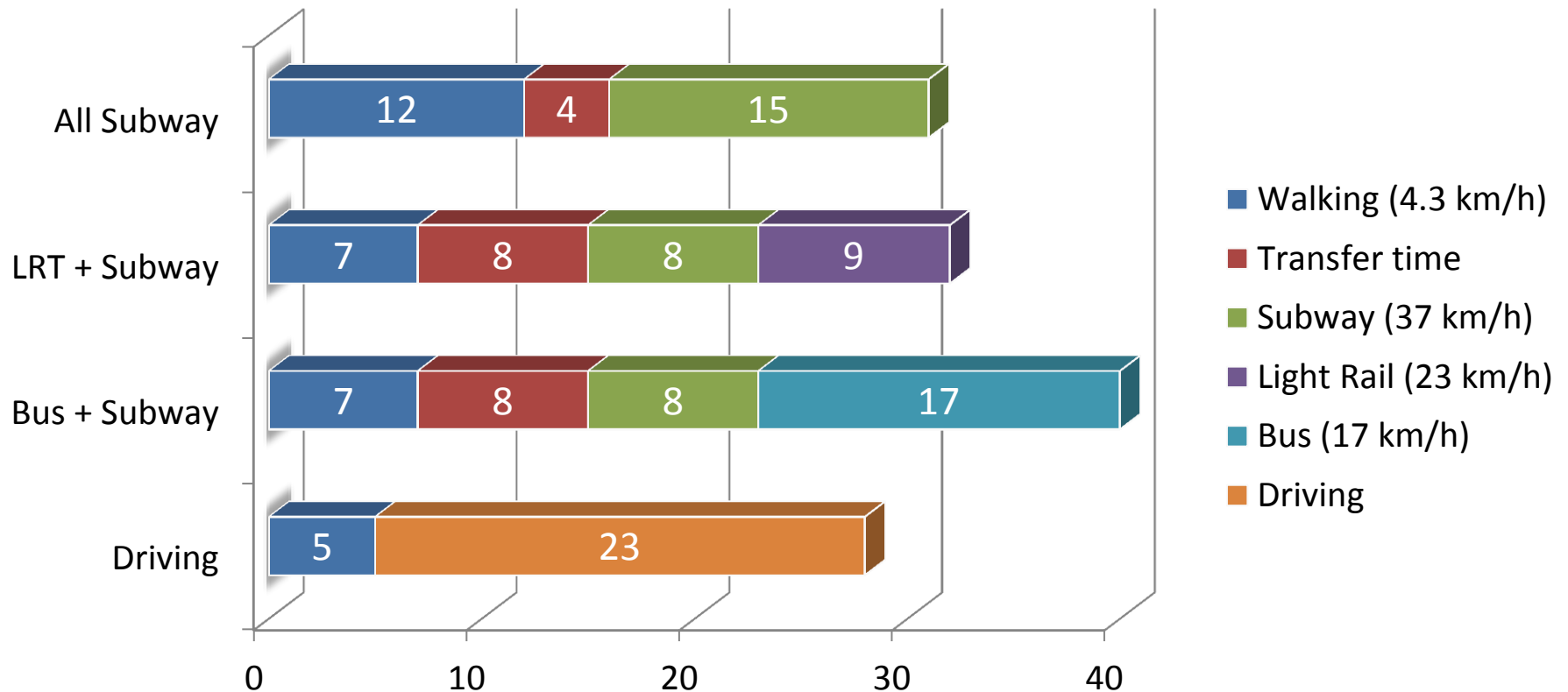
<u>Transit Mode:</u>	<u>Speed:</u>	<u>Stop spacing:</u>	<u>Walking time:</u>
Sheppard East bus	17 km/h	325 m	2:15
St. Clair streetcar	14 km/h	300 m	2:05
LRT (surface)	22-25 km/h	458 m	3:10
(underground)	30 km/h	833 m	5:45
Sheppard Subway (Yonge-Don Mills 5.5km)	35+ km/h	1.36 km	9:30

- “Stop spacing” is the average spacing in the approved Environmental Assessment design maps
- (Underground from Eglinton EA, surface from Sheppard EA, both still subject to change)
- “Walking time” =  $\frac{1}{2}$  average stop spacing x 1.2 metres per second walking speed

# Real Travel Time Example

(estimated using Google Maps and proposed travel times)

From apartment building at 50 Carabob Ct. (near Sheppard/Kennedy) to Yonge, by car, by bus + subway, by subway only, or by the planned LRT + subway, in rush hour.



# When will it be built?

- Delay from December 2010 to April 2012 due to Mayor's preference and lack of council vote caused schedule delays.
- Metrolinx has recommended new accelerated schedule to complete all lines by 2020, which Ontario government must confirm. (likely in Summer 2012)

Line:	Cost:	Planned Construction Dates:
Sheppard East LRT	\$1.0b	2014-2018
Etobicoke Finch West LRT	\$0.94b	2015-2019
Scarborough old RT → LRT replacement and extension	\$1.8b	2015-2019
Eglinton-Crosstown LRT	\$5.0b	2010-2020



# Thank you!

**More questions?**

[www.ttc.ca](http://www.ttc.ca)

[www.metrolinx.ca](http://www.metrolinx.ca)

[www.coderedTO.com](http://www.coderedTO.com)

# Resources

St. Clair project review: <http://stevemunro.ca/?p=3191>

[www.ttc.ca](http://www.ttc.ca), <http://lrv.ttc.ca>, <http://spadina.ttc.ca>, [www.metrolinx.ca](http://www.metrolinx.ca), [www.thecrosstown.ca](http://www.thecrosstown.ca)

<http://www.urbanrail.net>, <http://lrt.daxack.ca>, <http://transit.toronto.on.ca>

Sheppard Expert Advisory Panel Report (March 2012):

<http://www.toronto.ca/legdocs/mmis/2012/cc/bgrd/backgroundfile-45908.pdf>

Eglinton-Crosstown LRT EA and documentation:

[http://www.toronto.ca/involved/projects/eglinton\\_crosstown\\_lrt](http://www.toronto.ca/involved/projects/eglinton_crosstown_lrt)

Sheppard East LRT EA and documentation: [http://www.toronto.ca/involved/projects/sheppard\\_east\\_lrt](http://www.toronto.ca/involved/projects/sheppard_east_lrt)

Finch West LRT EA and documentation: [http://www.toronto.ca/involved/projects/etobicoke\\_finch\\_w\\_lrt/](http://www.toronto.ca/involved/projects/etobicoke_finch_w_lrt/)

Scarborough LRT EA and documentation:

[http://www.toronto.ca/involved/projects/scarborough\\_rapid\\_transit/index.htm](http://www.toronto.ca/involved/projects/scarborough_rapid_transit/index.htm)

Metrolinx Board Presentation (April 2012);

[http://www.metrolinx.com/en/docs/pdf/board\\_agenda/20120425/TorontoTransitPlan\\_BoardPresentation\\_25April2012.pdf](http://www.metrolinx.com/en/docs/pdf/board_agenda/20120425/TorontoTransitPlan_BoardPresentation_25April2012.pdf)

LRT Videos to see it in action: <http://www.youtube.com/watch?v=9k86lBV5824> and

<http://www.streetfilms.org/phoenixs-metro-light-rail-takes-flight/>