Transportation Master Plan
Advisory Task Force

Your community, your say.

Agenda

Transportation Master Plan Advisory Task Force

January 13th 2016

A. Disclosures of Interest

B. Meeting Objectives and Overview – 1:00 p.m.

Daniel Kostopoulos, Commissioner of Transportation Services

C. Integrated Mobility and Technology – 1:10 p.m.

Ann-Marie Carroll, General Manager, York Region Transit

D. Roads and Traffic Management – 1:35 p.m.

Brian Titherington, Director, Roads and Traffic Operations

E. Proposed Networks – 1:50 p.m.

Stephen Collins, Director, Infrastructure Management and PMO

- 2009 TMP versus 2016 TMP Update Proposed Network Alternatives
- Discussion / Questions

F. Next Steps – 3:50 p.m.

Daniel Kostopoulos, Commissioner of Transportation Services

G. Other Business

H. Adjournment

Transportation Master Plan
Advisory Task Force

Your community, your say.

Building an Inter-connected Network for Mobility

Daniel Kostopoulos

Thursday, January 14, 2016

York Region

Meeting Overview

- Public Open House Summary
- Integrated Mobility and Technology
- Roads and Traffic Management
- Draft 2041 Transportation Network
- Next Steps



York Region

Meeting Purpose

We are here

Existing Conditions

Open House #1 Feedback

Travel Trends

Current Realities

Policy Areas

Sept 2015

TMP Policy Directions

TMP Objectives

Future Trends & Technologies

Draft Policy Directions

Nov 2015

TMP Policy Directions

Open House #2 Feedback

Changing Travel Behaviour

Recommended Policy Directions

Jan 2016

Network Alternatives

Open House #3 Feedback

Draft 2041 Network Alternatives

Feb 2016

Funding Strategy

Recommended 2041 Network Alternatives

Phasing Strategy

Alternative Funding Strategies

April 2016

Draft TMP Report

Recommended Funding Strategy

Draft TMP Report & Next Steps

Public Open House #3: Summary

"How are you dealing with RER and its crossing of rapidways and high traffic roads and the issues it will cause?"

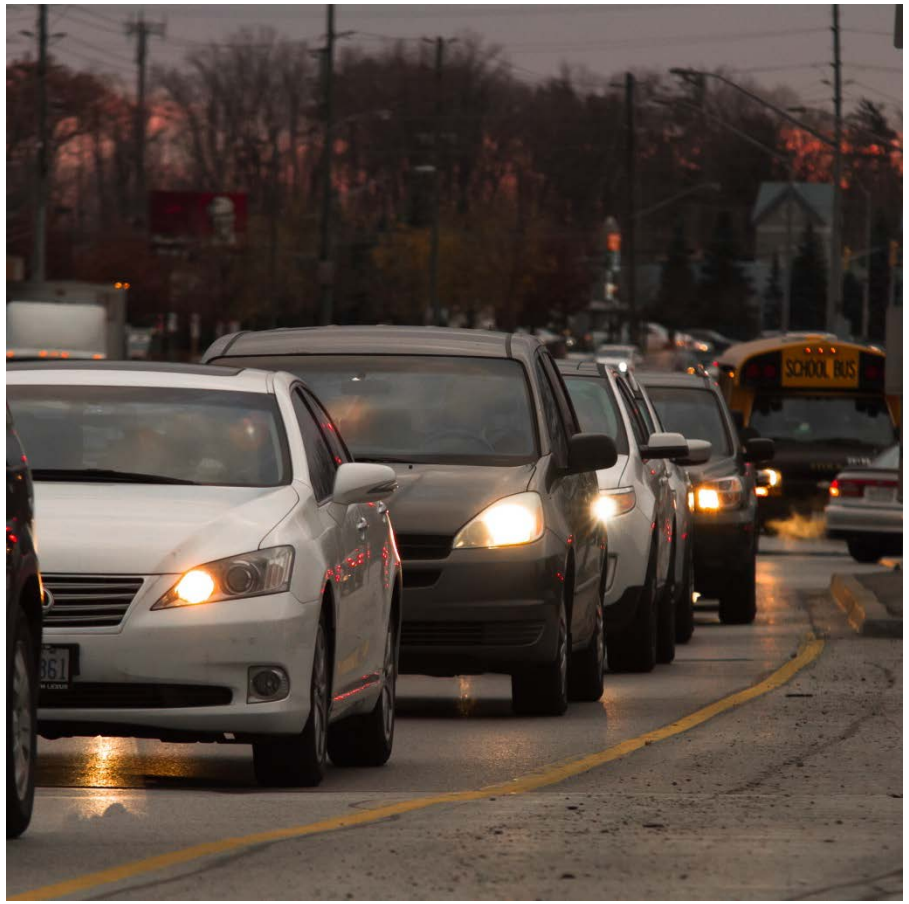
"We need to have smaller shuttle buses to get people to and from the GO station"

"Walking to transit stops takes too long"

"We need to optimize HOV lanes"

Current Reality

- 81% of AM peak work trips made by car
  - 96% of trips less than 5 km are made by car
- 13% of AM peak work trips made by public transit
  - <4 % of trips within York are made using transit
  - few trips less than 15 km are made using GO Rail



Transformative changes are needed to change travel behaviour

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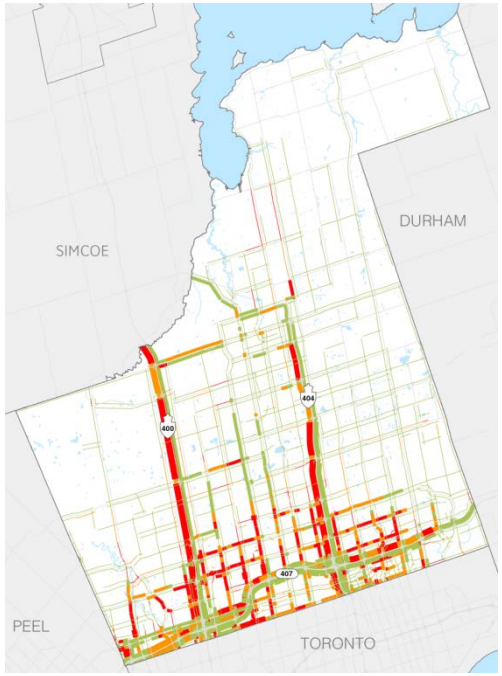
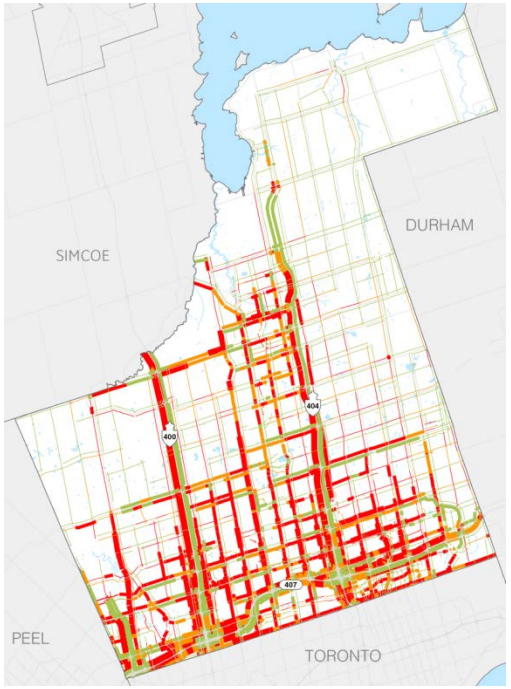
Projected Congestion

Existing Situation
2011 AM Peak Hour



Future Base Case Scenario
2041 AM Peak Hour



Congestion is a reality now and under any future scenario

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TMP Objectives

1. Create a World Class Transit System
2. Develop a Road Network fit for the Future
3. Integrate Active Transportation in Urban Areas
4. Maximize the potential of employment areas
5. Making the “Last Mile” work

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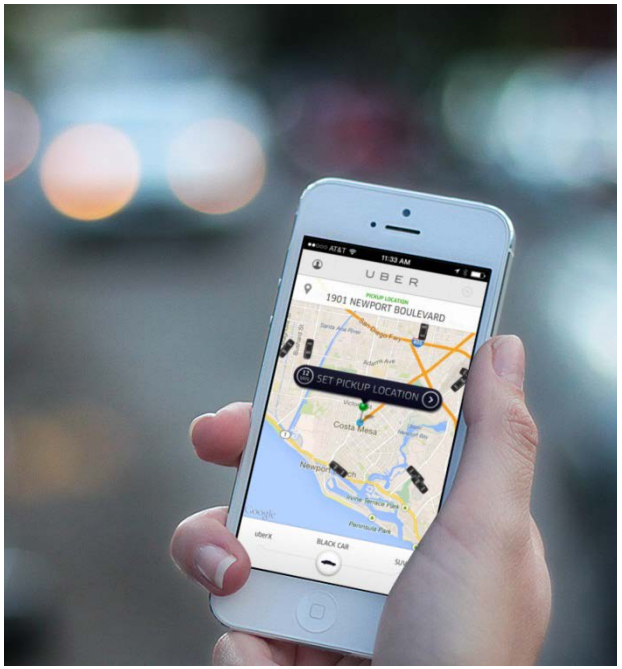
Transportation Master Plan
Advisory Task Force

Your community, your say.

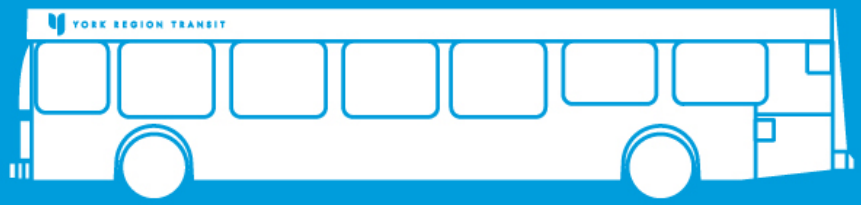


Integrated Mobility and Technology

Ann-Marie Carroll

Thursday, January 14, 2016

York Region



78 per cent of YRT/Viva customers expressed overall satisfaction with the service

- **86 %** are under age 39
- 55 % are female and 45 % male

- 95 % **speak English 65 %** make $25,000 or less annually

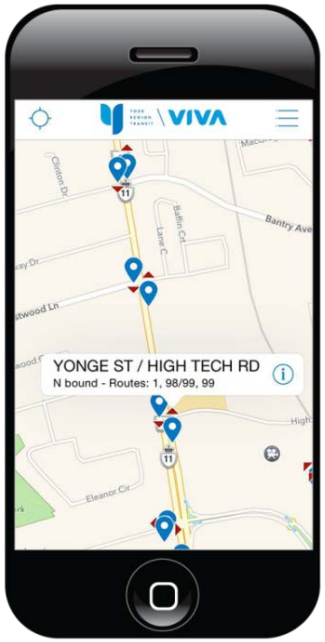
- **85 %** use the service for work or school
- 80 % use the service **3+ times per week**

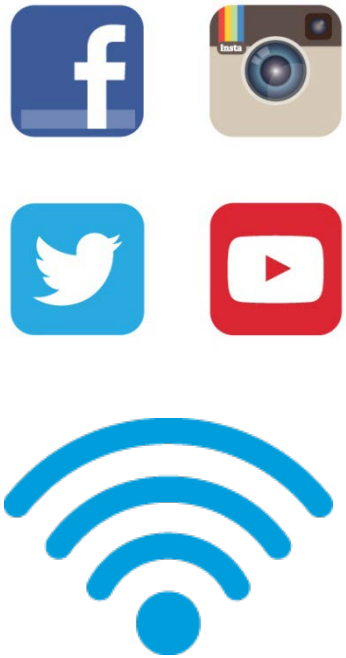
- 65 % **do not have a choice** in whether to use the service or not

- The **top three** preferred methods to receive route information are: YRT/Viva Mobile App, **yrt.ca** and Google Transit

Digital trip planning resources are used by customers more than non-digital resources

YRT/Viva Technology





YRT/Viva is an industry leader in customer service technology

Mobile Payment Options

PRESTO

Mobile Payment

Open Payment

Mobile fare payment options increase customer convenience

First Mile Last Mile

The concept of first mile last mile is gaining ground in the transit industry

Ridesharing

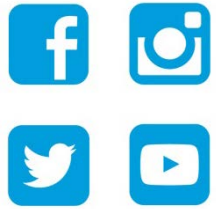
- Ad-hoc ridesharing
- Dynamic carpooling
- Dynamic ridesharing

- Instant ridesharing
- On-demand ridesharing

GPS navigation devices

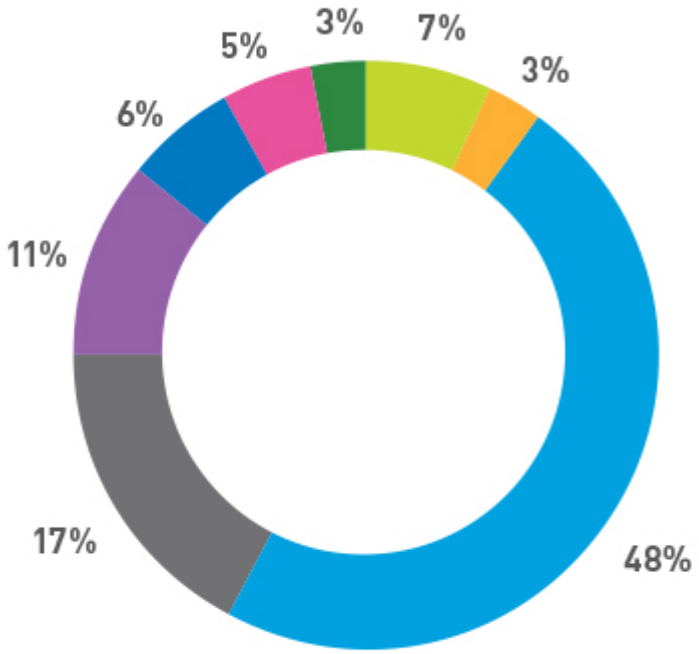
Smartphones

Social networks



Service that arranges one-time shared rides on very short notice

GTHA Transit Service Area Comparison

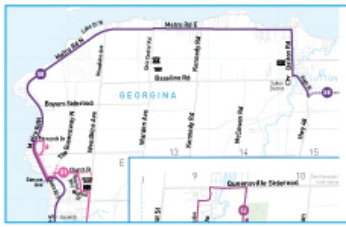


- Brampton Transit
- Durham Region Transit
- Burlington Transit
- Hamilton Street Railway
- YRT/Viva
- Mississauga Transit
- TTC
- Oakville Transit

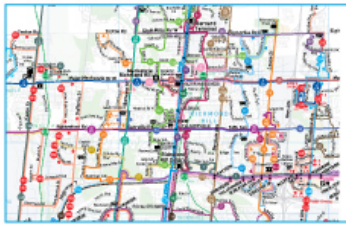
Source: 2013 Canadian Transit Fact Book

YRT/Viva services a very large geographic area

Dial-A-Ride



DIAL A RIDE
North



DIAL A RIDE
Regular Routing

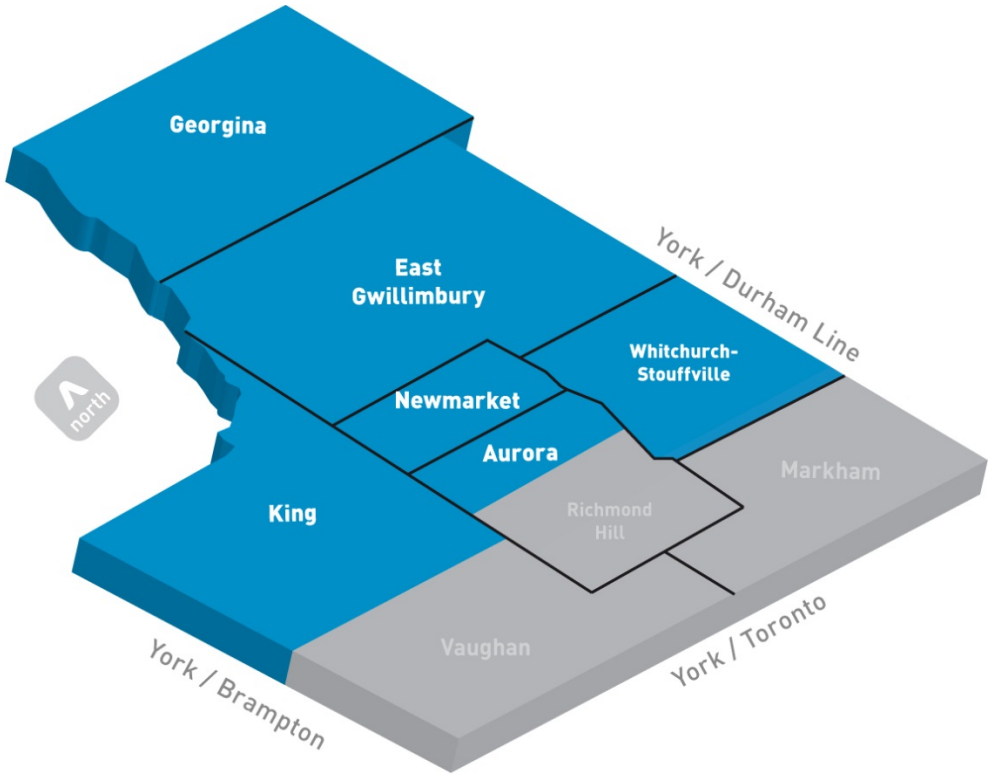
DIAL A RIDE
Aurora South and Oak Ridges

Delivering transit services at a reduced cost and addresses the concern of empty buses

Family of Services

An original multi-modal service option

Dial-A-Ride Service Expansion



Municipality	Dates
Georgina	MTO Pilot 2016-2017
East Gwillimbury	MTO Pilot 2016-2017
Newmarket	2016
Aurora	2015
King	2016
Whitchurch-Stouffville	2016
Richmond Hill	Existing Dial-a-Ride
Vaughan	Existing Dial-a-Ride
Markham	Existing Dial-a-Ride

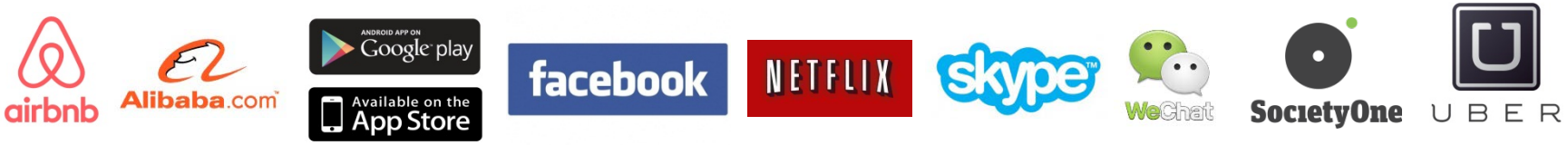
On-demand transit options are being implemented in York Region

Plugging Gaps in the Network

Technology links commuters to common destination

On-demand and Peer-to-peer Technology

Airbnb	Largest accommodation provider owns no real estates
Alibaba	World's most valuable retailer has no inventory
Apple & Google	Largest software vendors don't write the apps
Facebook	Most popular media owner creates no content
Netflix	World's largest movie house owns no cinemas
Skype, WeChat	Largest phone companies own no telco infra
SocietyOne	Fastest growing banks have no actual money
Uber	World's largest taxi company owns no taxis



The digital disruption has already happened

Ridesharing Apps are Everywhere

HAIL
EASY TAXI
lyft
Flywheel
Get Taxi
shuddle
99TAXIS
BLACKLANE LIMOUSINES
OLA
GRABTAXI
UBER
Getaround
Side·car
VIA

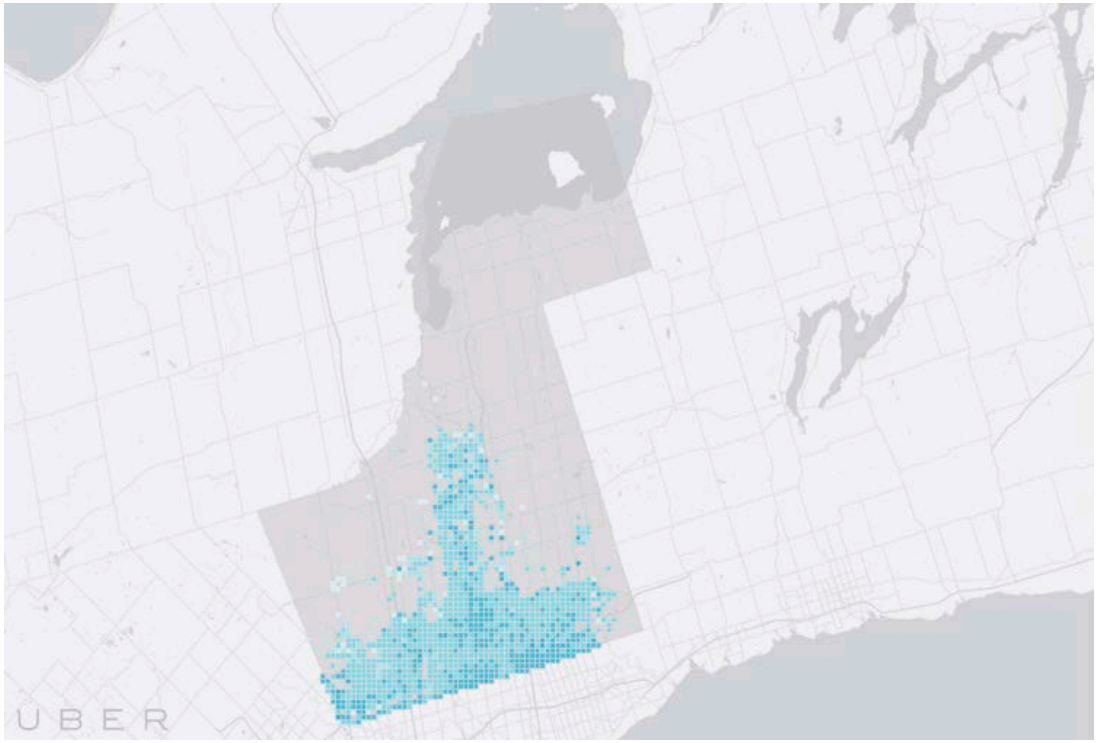
Personalized Transit

Transit services across North America are becoming personalized

Uber in York Region

The colour of each square represents the average wait time for Uber pickups in that area.

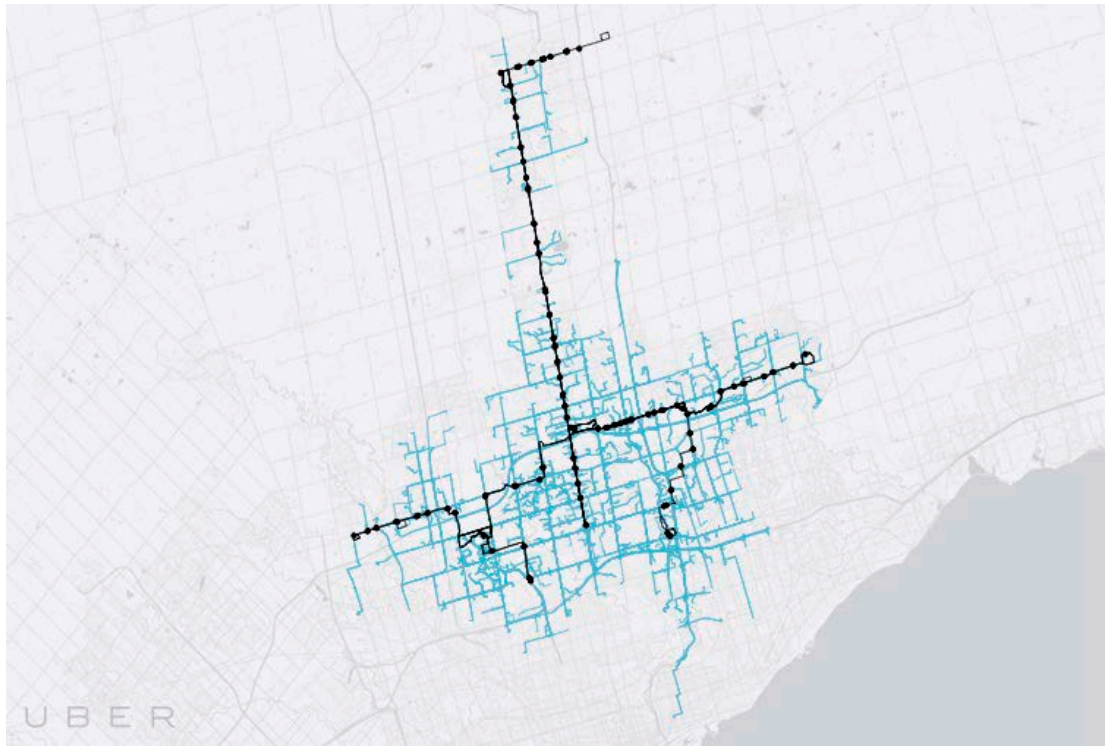
- Under 5 Minutes
- Under 7 Minutes
- Under 10 Minutes
- Under 12 Minutes
- 12 Minutes or More



Low wait times are available throughout the Region

Uber and YRT/Viva

Lines represent Uber trips less than nine kilometres in length that begin or end near a vivastation or terminal



Uber in York Region extends north to Newmarket

Uber and GO Transit

Lines represent Uber trips less than nine kilometres in length that begin or end near a GO Station

Uber extends the reach of GO Transit's train service

YRT/Viva Ridesharing App

Ridesharing app to be tested in 2016

- Flexible and convenient
- Improved service frequency
- Improved mobility options
- Personalized service
- Door-to-door
- Reduces private vehicle dependency and cost

More and more people are living car-free or car-light lifestyles

What is needed from the TMP Update

- Park-and-Ride
- Ridership increase
- Higher transit modal split
- Reduced need for parking
- Reduced traffic congestion

Addresses concerns of empty buses and traffic congestion

Transportation Master Plan
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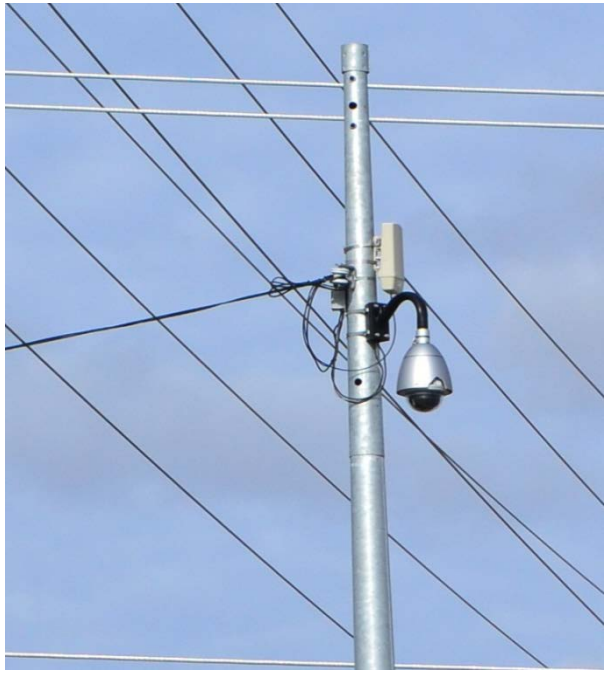
Your community, your say.



What we're doing today towards TMP objectives

Brian Titherington

Thursday, January 14, 2016

York Region

TMP Objectives

1. Create a World Class Transit System
2. Develop a Road Network fit for the Future
3. Integrate Active Transportation in Urban Areas
4. Maximize the potential of employment areas
5. Making the “Last Mile” work

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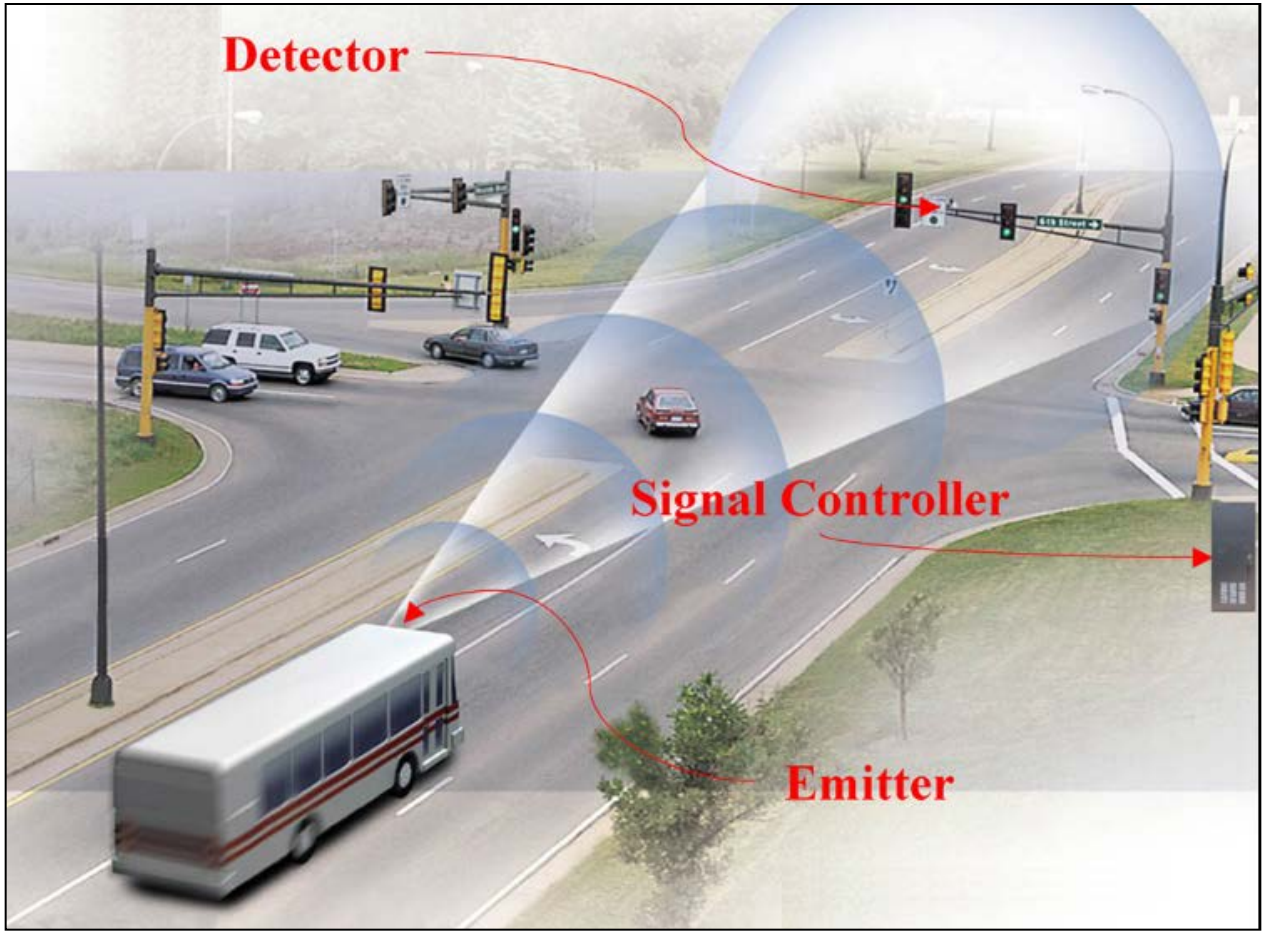
Objective 1: Create a World Class Transit System



Flexible systems to manage congestion and optimize transit

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Objective 2: Develop a Road Network Fit for the Future

Intersection designs that evolve with community needs

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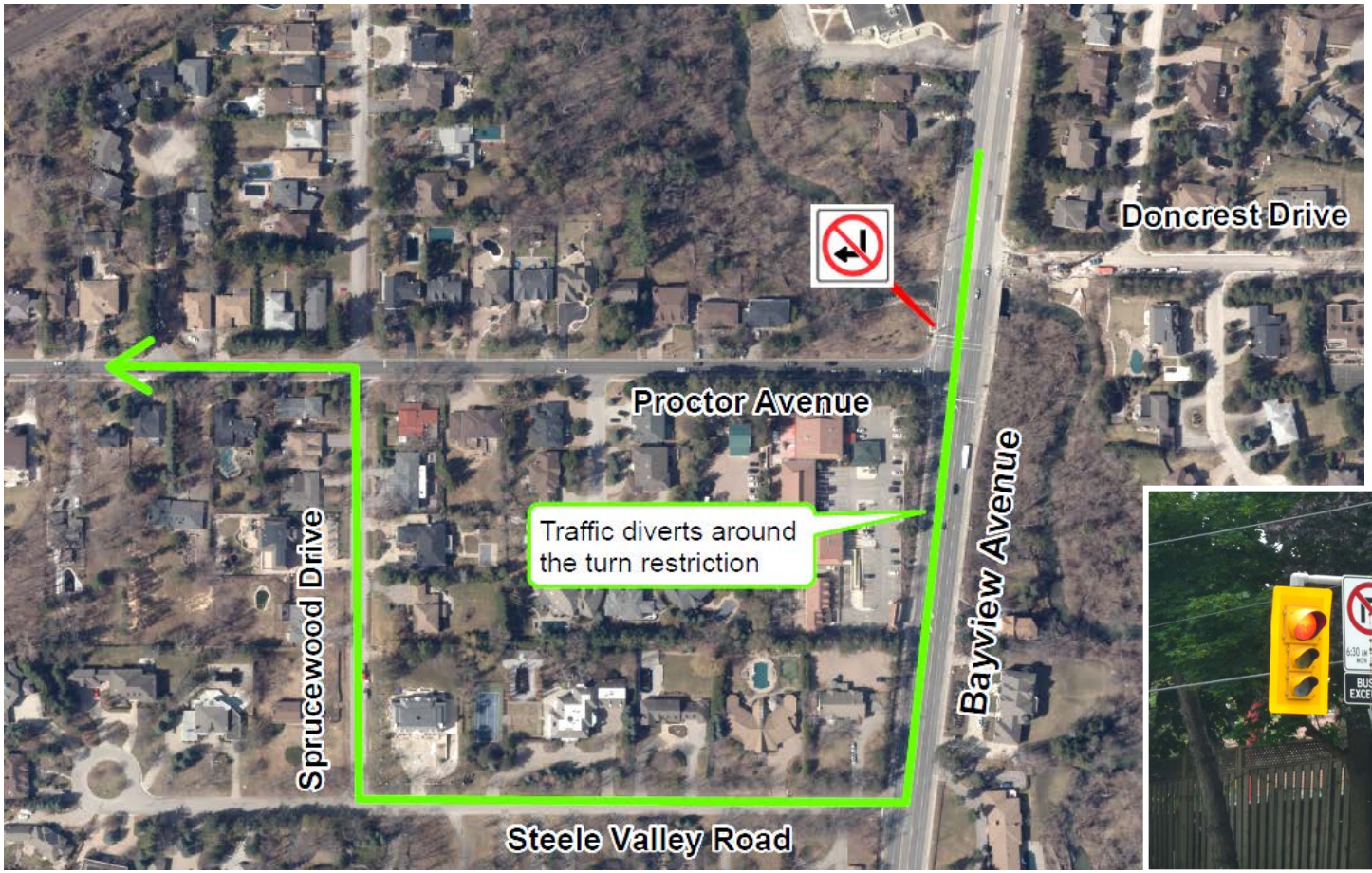
Objective 2: Develop a Road Network Fit for the Future



Making full use of the transportation network

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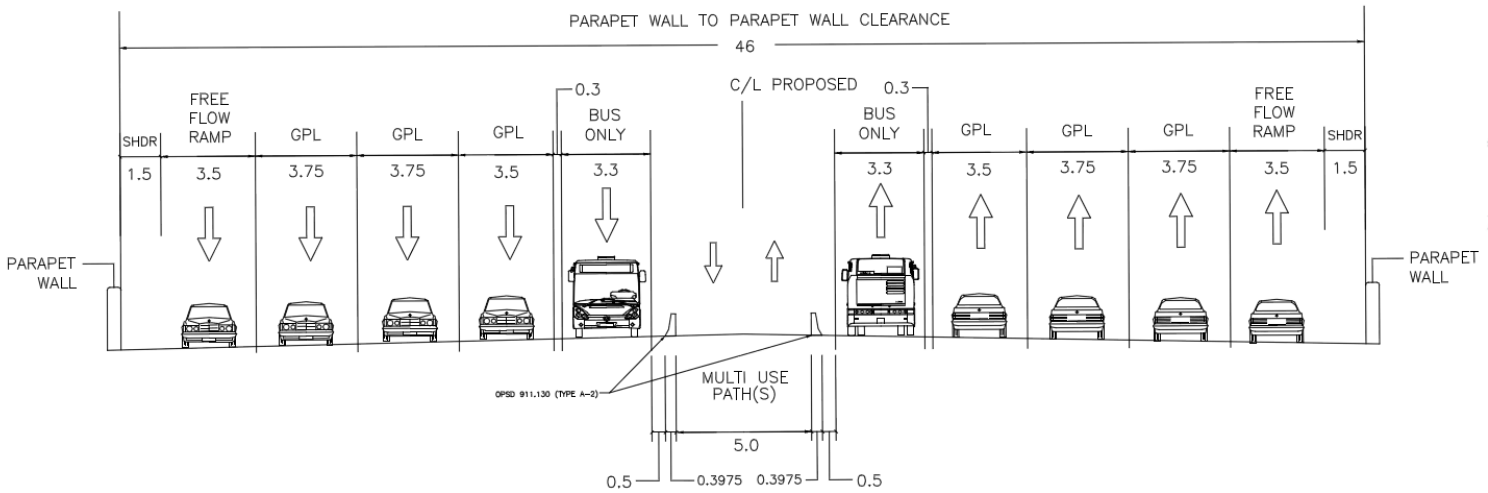
Objective 3: Integrate Active Transportation in Urban Areas



Solving operational and maintenance challenges of boulevard cycling facilities

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Objective 4: Maximize the Potential of Employment Areas

Ensuring all Regional roads support all modes of travel including trucks

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Objective 5: Make the Last Mile Work

Traffic Cameras

Portable Variable Message Signs


Traffic Cameras


Traffic Management Centre (TMC)

Gathering and sharing data to support optimization of the network

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What is needed from the TMP Update

- Finer grid street network
  - Turn restrictions
- Boulevard Jurisdiction
  - Operating and maintenance level of service
- Strategic Goods Movement Network
  - Efficient movement of all modes
- Making the Last Mile Work
  - Technology and data

Flexible systems and strategies needed to adapt to changing technology and expectations

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Transportation Master Plan
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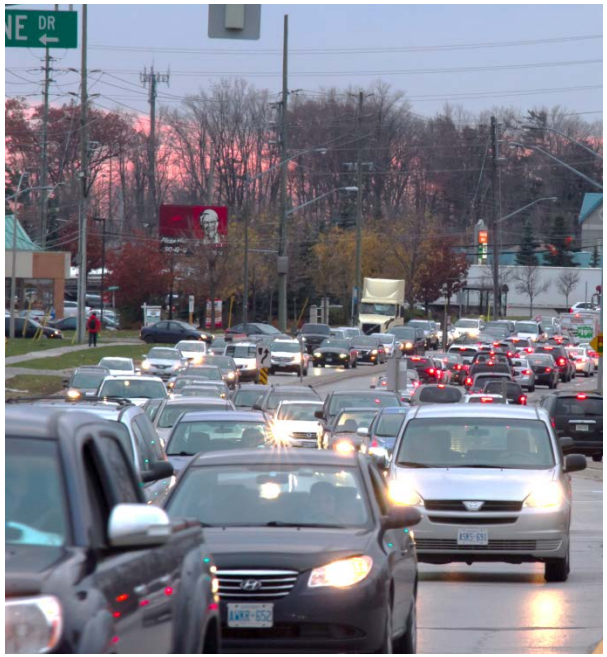


Building an Inter-Connected System of Mobility

Stephen Collins

Thursday, January 14th, 2016

York Region

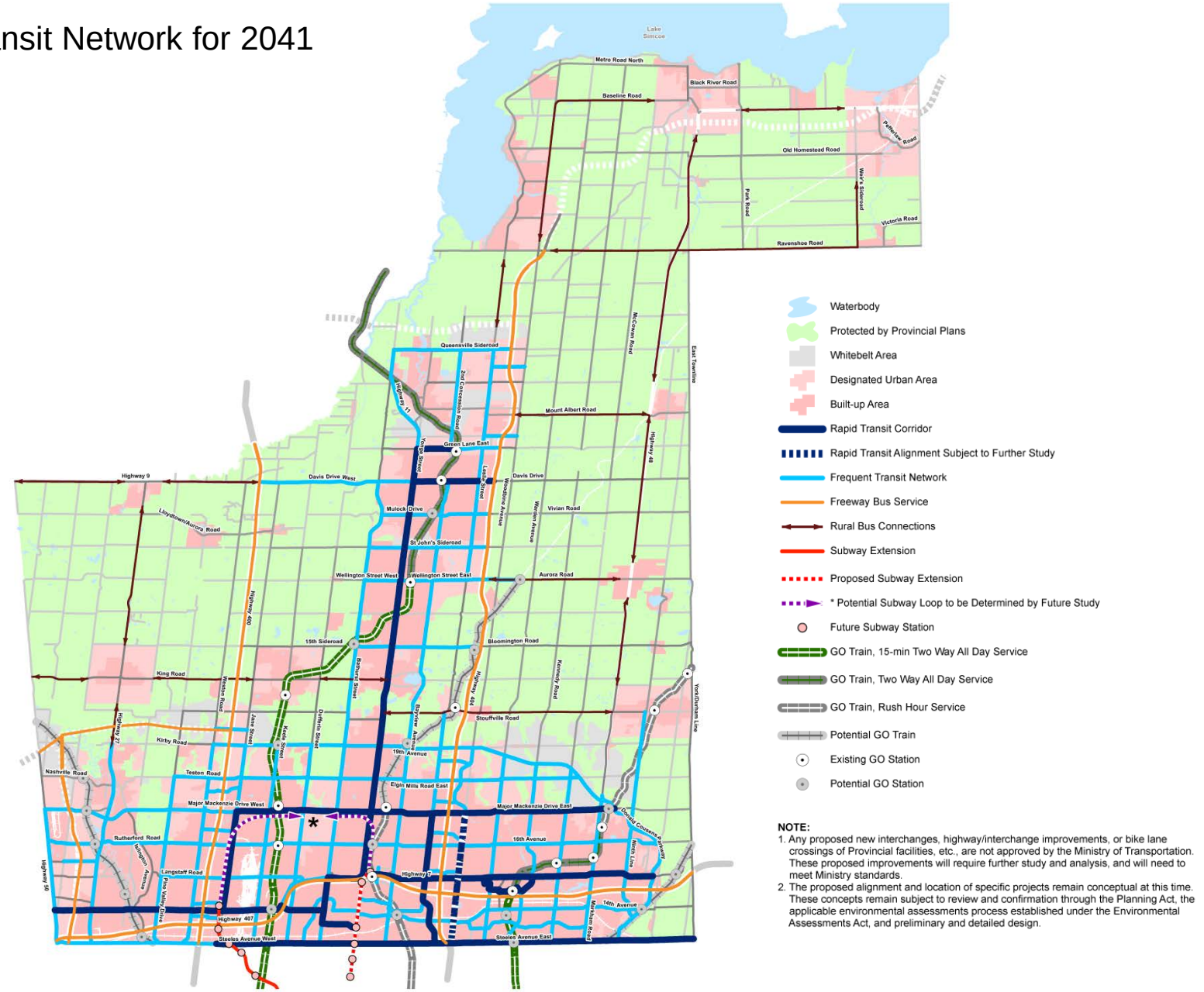
How the Plan Meets our Vision

Objectives	Vision 2051	Major Initiatives
1 Create a World Class Transit System	• Livable Cities and Complete Communities • Living Sustainably	• Extend Yonge Subway to Richmond Hill • Complete Viva Network • Maximize potential of Regional Express Rail • Improve transit frequency and coverage (frequent transit network)
2 Develop a Road Network fit for the Future	• An Innovation Economy • Interconnected System for Mobility	• Implement smart corridors • Expand HOV network • Develop a finer grid street network (mid-block crossings) • Build context sensitive multi-modal corridors
3 Integrate Active Transportation in Urban Areas	• Interconnected System for Mobility • Living Sustainably	• Accelerate cycling and sidewalk projects that connect communities to transit corridors and Regional Centres • Complete Lake to Lake Cycling Route and Walking Trail
4 Maximize the Potential of Employment Areas	• A Place Where Everyone Can Thrive • An Innovation Economy	• Complete Langstaff Road “Missing Link” • Designate a strategic goods movement network
5 Making the Last Mile Work	• Interconnected System for Mobility • Livable and Complete Communities	• Provide safe and convenient walking/cycling opportunities to mobility hubs • Manage parking supply and demand with innovation, pricing and technology • Support transit-oriented development • Embrace emerging technologies and the sharing economy to improve convenience and mobility

Objective 1:

Create a World Class Transit Network

Proposed Transit Network for 2041



NOTE:

1. Any proposed new interchanges, highway/interchange improvements, or bike lane crossings of Provincial facilities, etc., are not approved by the Ministry of Transportation. These proposed improvements will require further study and analysis, and will need to meet Ministry standards.
2. The proposed alignment and location of specific projects remain conceptual at this time. These concepts remain subject to review and confirmation through the Planning Act, the applicable environmental assessments process established under the Environmental Assessments Act, and preliminary and detailed design.

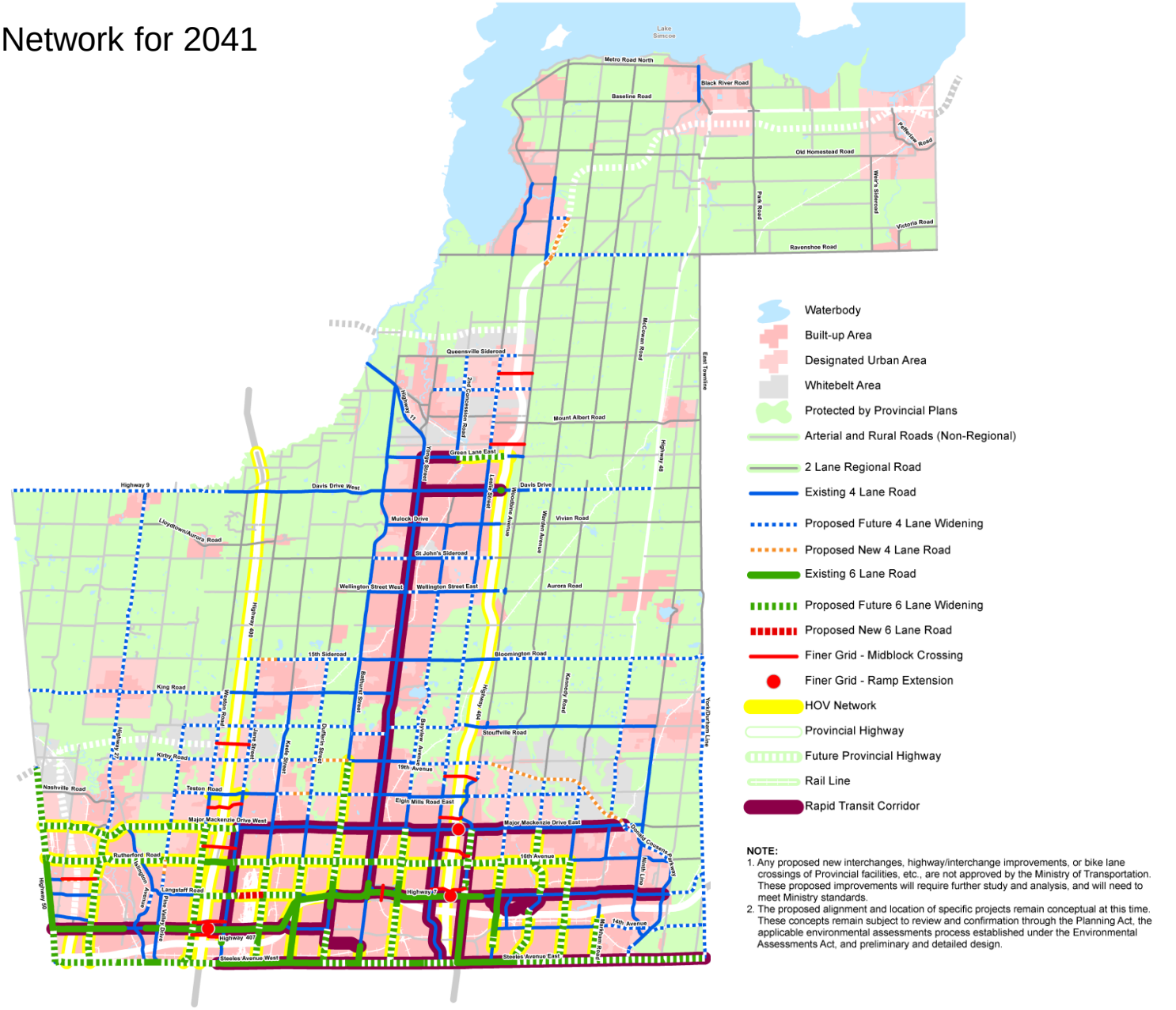
Recommended Transit Network: The Big Moves

- Extend the Yonge Subway
- Complete the Viva Rapid Transit network
- Maximize investment in Regional Express Rail and subways
- Improve Frequent Transit Network

Objective 2:

Develop a Road Network Fit for the Future

Proposed Road Network for 2041



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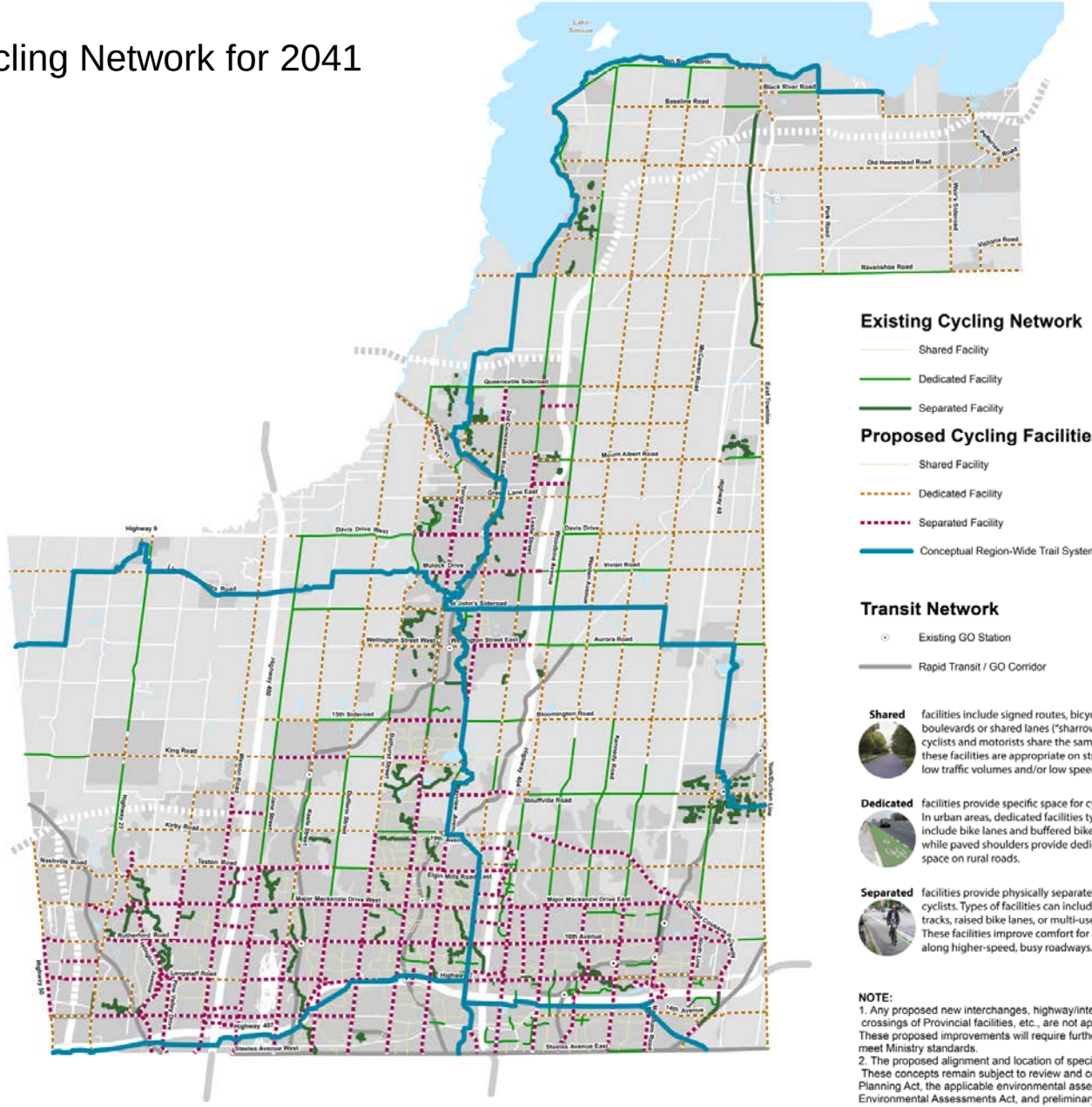
Recommended Road Network: The Big Moves

- Complete Langstaff missing link
- Expand HOV Network
- Expand 4 Lane Road Network
- Build mid-block collector roads

Objective 3:

Integrate Active Transportation in Urban Areas

Proposed Cycling Network for 2041



Recommended Active Transportation Network: The Big Moves

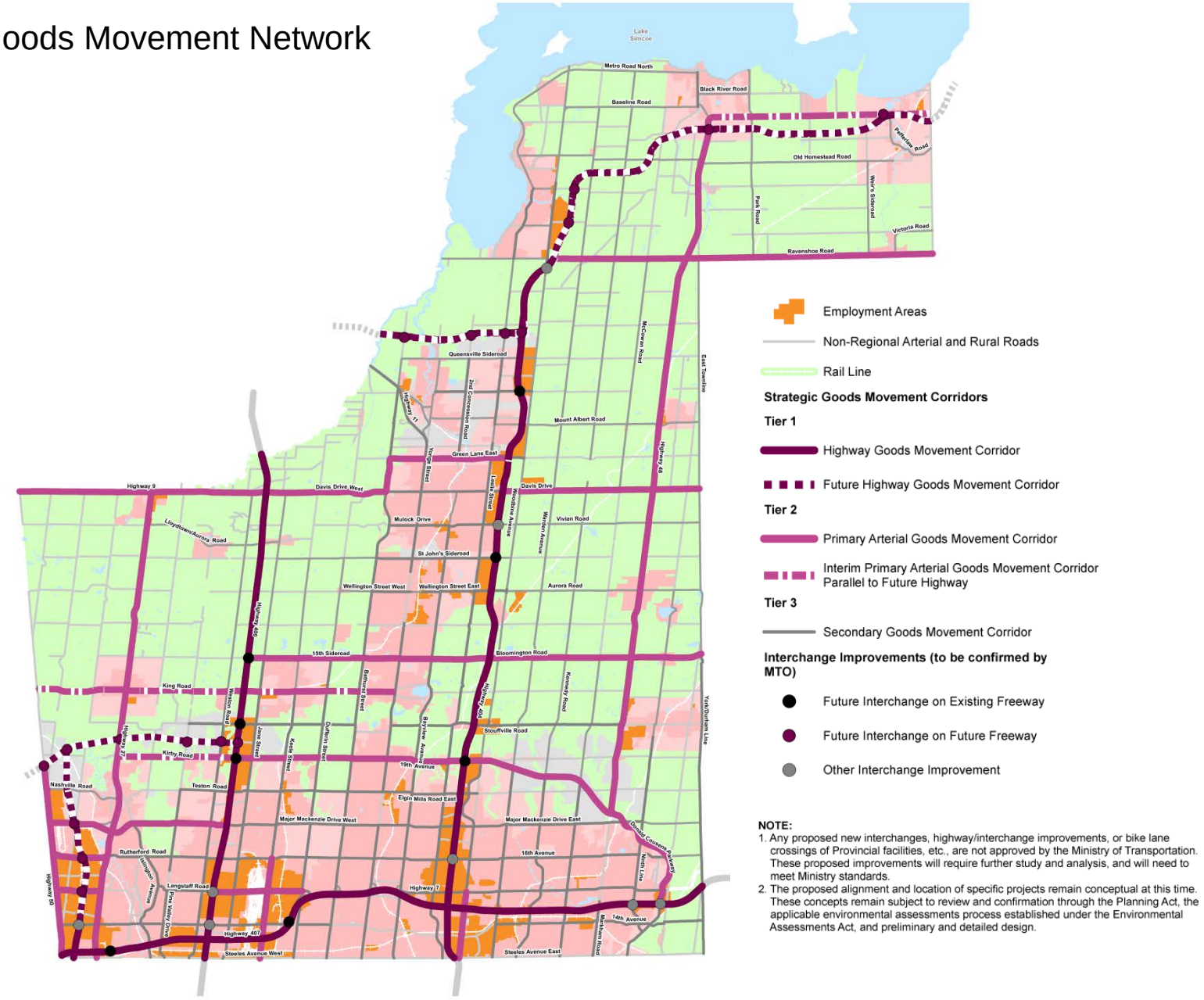
Complete Lake-To-Lake Cycling Route and Walking Trail

Construct walking and cycling facilities to connect key corridors, Regional Centres and transit facilities

Objective 4:

Maximize the Potential in Employment Areas

Strategic Goods Movement Network



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Recommended Goods Movement Network: Big Moves

Complete Langstaff missing link

Designate hierarchy of goods movement corridors

Complete Priority Goods Movement Corridors

Objective 5:

Make the Last Mile Work


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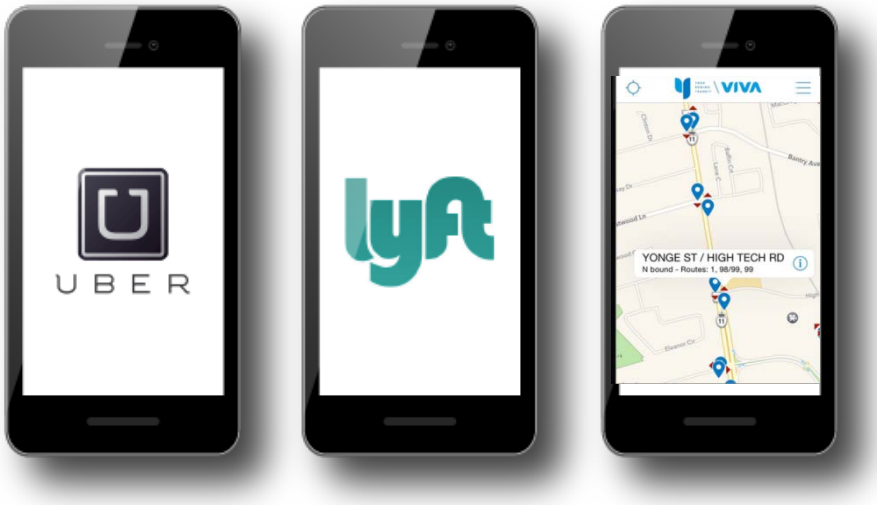
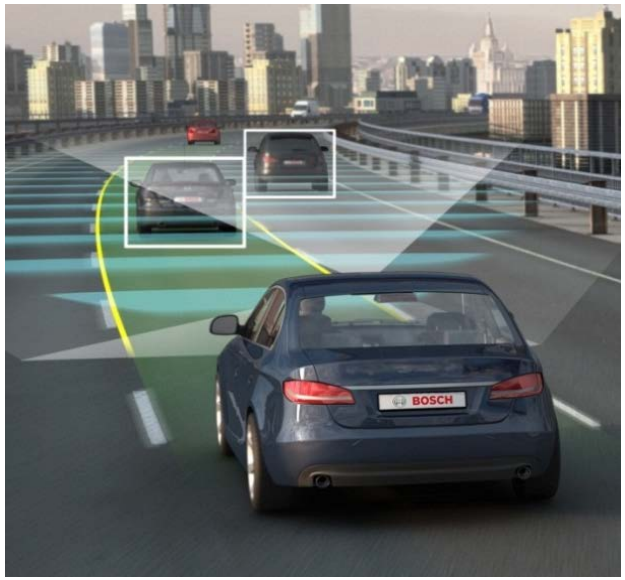

UBER
lyft
VIVA
YONGE ST / HIGH TECH RD
N bound - Routes: 1, 98/99, 99


BOSCH

Making the Last Mile Work: The Big Moves

- Provide walking and cycling connections to mobility hubs
- Greater role in parking management
- Support transit-oriented development
- Improve mobility through technology and sharing economy

Ultimate 2041 Transportation Network

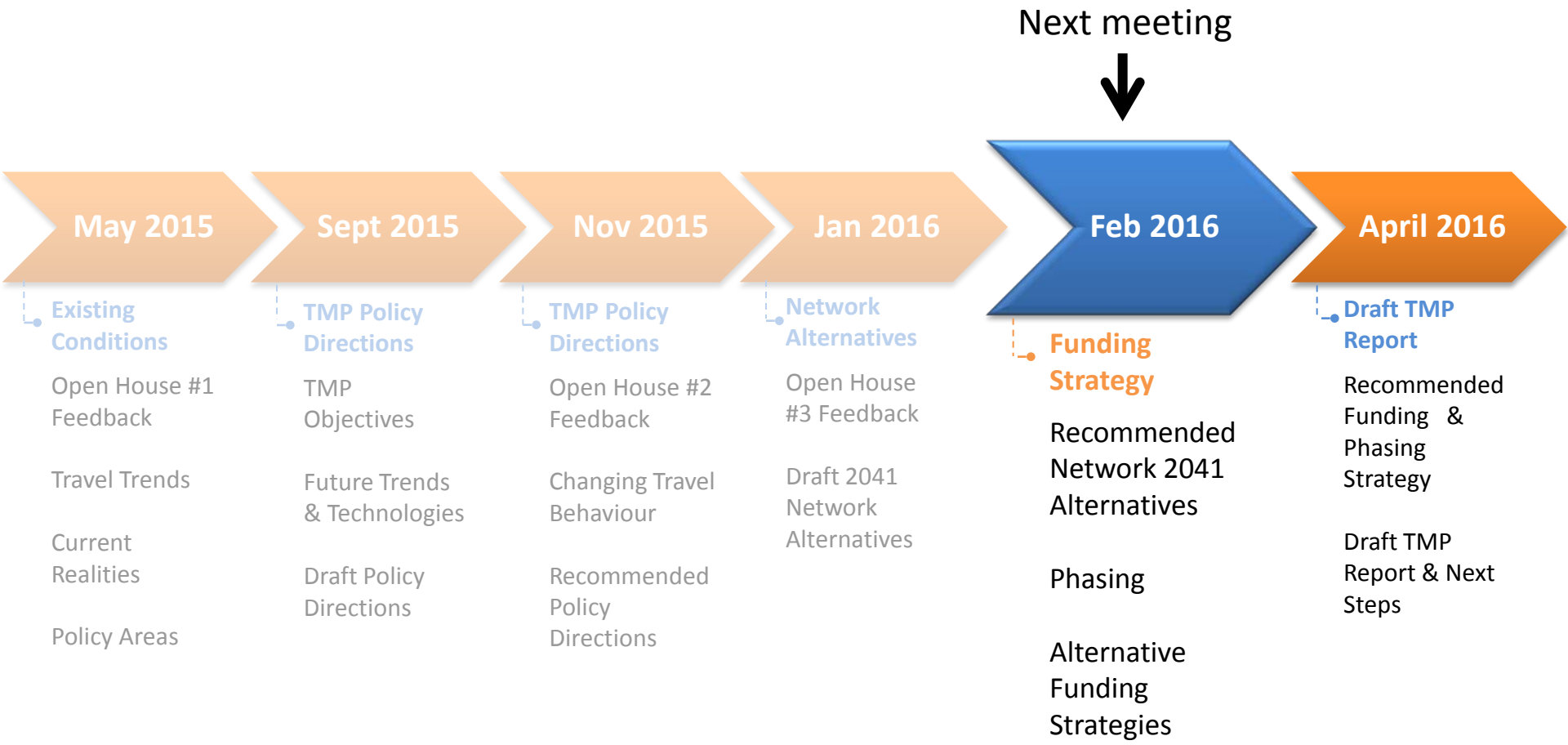
Optimize

Expand

Transform

Questions and Comments

TMP Advisory Task Force Meetings



York Region

Thank you!