



Your community, your say.

Agenda Transportation Master Plan Advisory Task Force

April 13, 2016 9:00 a.m. Committee Room A York Region Administrative Centre

> 17250 Yonge Street Newmarket, Ontario

A. Disclosures of Interest

B. Opening Remarks

Daniel Kostopoulos, Commissioner of Transportation Services

C. Presentations

C.1 Overview of the TMP Phasing and Costs

Stephen Collins, Director, Infrastructure Management and PMO

C.2 Funding Principles

Kelly Strueby, Director, Office of the Budget

C.3 TMP Report Framework

Stephen Collins, Director, Infrastructure Management and PMO

D. Next Steps

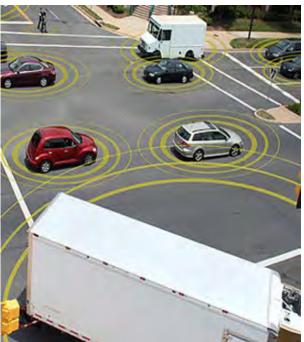
Daniel Kostopoulos, Commissioner of Transportation Services

Transportation Master Plan Advisory Task Force



Your community, your say.







Building an Inter-Connected System of Mobility



Meeting Overview

- What We've Heard
- Overview of Network Phasing and Costs
- Funding Principles
- Introduction to the Draft Transportation Master Plan





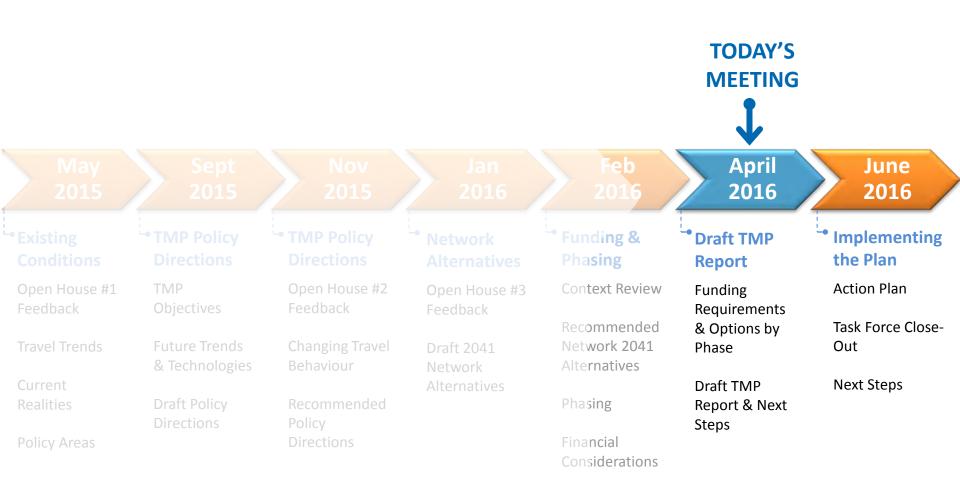








Meeting Purpose







Council Presentations

Municipality	Meeting	Comments Received via
City of Vaughan	Feb 9	Staff Report to Council
Town of Aurora	Feb 23	
Town of Richmond Hill	Feb 29	
City of Markham	March 1	Staff Memo
Town of Whitchurch-Stouffville	March 1	
Township of King	March 7	
Town of Newmarket	April 4	Staff Report to Council
Town of East Gwillimbury	April 5	
Town of Georgina	April 6	

Received as of April 12th 2016







Finer Grid Network

- ✓ Regional funding in eliminating barriers in collector road network supported
- ✓ Mid-block crossings of 400-series highways and ramp extensions supported
- ✓ Grade separations and Langstaff missing link are priorities
- Left turn-restrictions avoid infiltration into stable communities

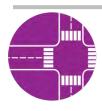












Corridor Evolution

- ✓ Widening to 6-lanes for higher order / HOV supported
- ✓ Principle of moving the most people within the network supported
- Consider traffic volumes and connectivity when planning HOV lanes
- Converting existing 4-lane roads to HOV may be challenged given existing congestion and capacity needs











Commuter Parking Management

- ✓ Commuter Parking Management Strategy supported
- ✓ On-street parking policy on Regional roads supported
- ✓ Transit and ride-sharing should service GO transit stations and commuter parking lots
- Clarify roles and responsibilities with new approach















Goods Movement

- ✓ Regional goods movement hierarchy and policy are supported
- ✓ Consider emerging and demand management approaches to goods movement (off-peak deliveries, etc.)















Boulevard Jurisdiction

- ✓ Regional assumption of responsibility for boulevard elements along Regional streets supported
- ✓ DC Fund to collect monies for boulevard elements is supported
- ✓ Separated bicycle lanes are supported
- ✓ A context sensitive approach is supported
- Maintaining a high level of service is important













What We've Heard: Environics Survey



of residents identify transportation as the single most important issue, far outweighing all other factors, including taxes, housing and health care Transportation has been an increasingly important local issue for



46% ≥

of residents support construction during evenings and weekends, even with incremental costs, in order to minimize traffic impacts



80%

Of residents consider a commute longer than 45 minutes unacceptable



6 58%

Of residents would use commuter parking lots and York Region express shuttles if it reduced travel time

60%

of residents would consider not driving if they were charged \$5 for parking





Upcoming TMP Task Force Meetings

NEXT MEETING June 2016 **Implementing** the Plan **Action Plan** Task Force Close-Out **Next Steps**

2016

2016

2016

Existing **Conditions**

Open House #1 Feedback

Travel Trends

Current Realities

Policy Areas

TMP Policy **Directions**

TMP Objectives

Future Trends & Technologies

Draft Policy Directions

TMP Policy Directions

Open House #2 Feedback

Changing Travel Behaviour

Recommended Policy

Directions

Network Alternatives

Open House #3 Feedback

Draft 2041 Network Alternatives **Funding & Phasing**

Context Review

Recommended Network 2041 Alternatives

Phasing

Financial Considerations

Draft TMP Report

Funding Requirements & Options by Phase

Draft TMP Report & Next Steps



Transportation Master Plan Advisory Task Force



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Network Phasing and Costs



York Region is Growing Up...





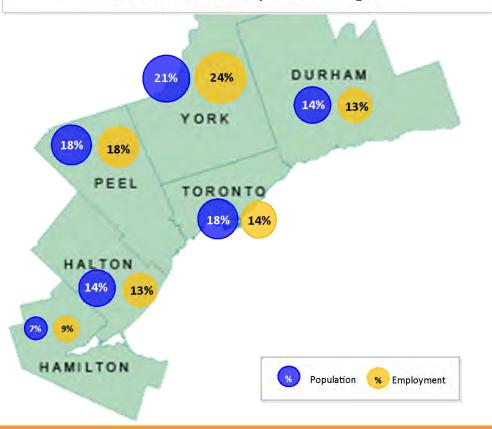
Increased Urbanization, Intensification and Traffic Congestion





York Region is Growing Up

Proportion of Population and Employment Growth accommodated by GTHA Regions



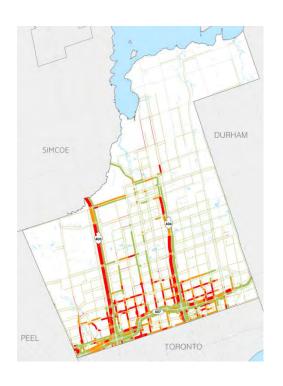
York Region will receive the greatest proportion of growth in the GTHA



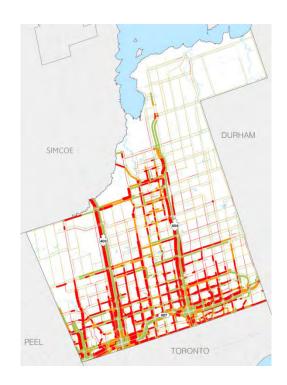


Projected Congestion

Existing Situation 2011 AM Peak Hour



Future Base Case Scenario 2041 AM Peak Hour



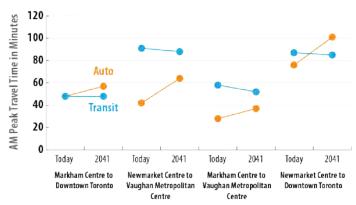
Congestion is a reality now and under any future scenario





Focus on Transit

Despite expanding road capacity, travel times by car will worsen



Source: Google, York Region Travel Demand Model

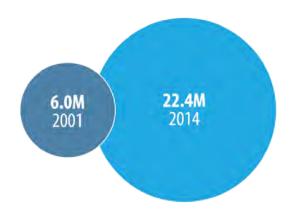
Auto travel times between major centres are projected to increase, even with planned roadway improvements.

Investment in transit, including rapidways and expanded GO Transit service, is projected to either **maintain or improve transit travel times in the future.**

Transit use is increasing

Transit is becoming a more attractive option for York Region residents with annual ridership on YRT/Viva outpacing population growth.

YRT/VIVA ANNUAL RIDERSHIP



Source: YRT/Viva

Changes in travel behaviour also needed in addition to expanding transportation capacity





TMP Objectives

- Create a World Class Transit System
- Develop a Road Network fit for the Future
- Integrate Active Transportation in Urban Areas
- Maximize the potential of employment areas
- Making the "Last Mile" work





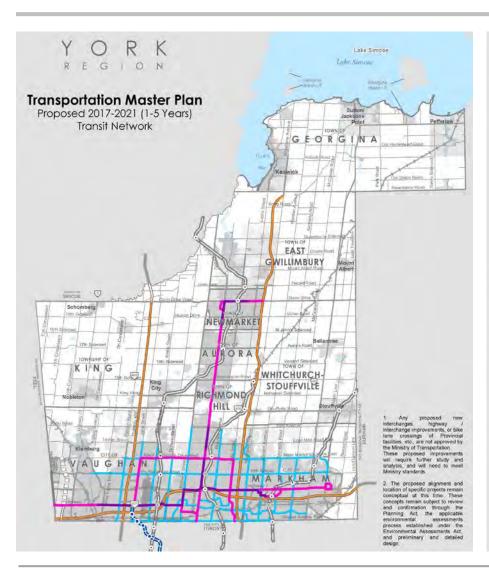


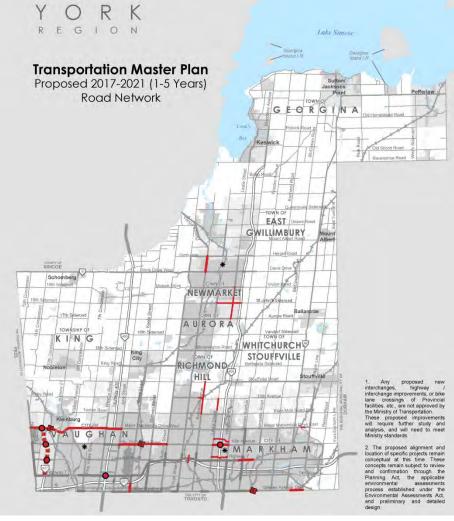






Phasing the Plan: To 2021

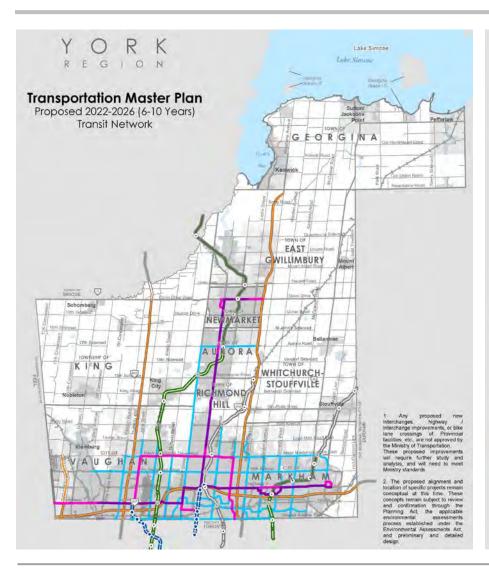


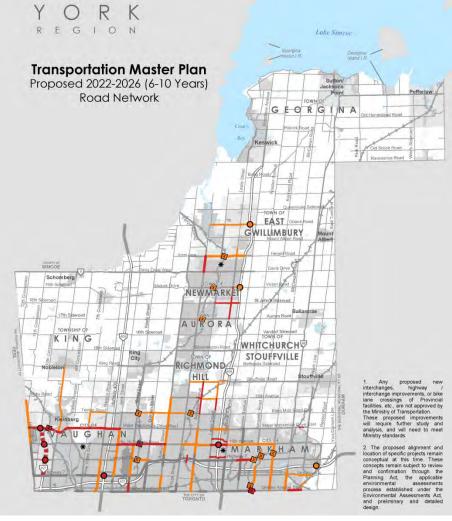






Phasing the Plan: 2022 to 2026

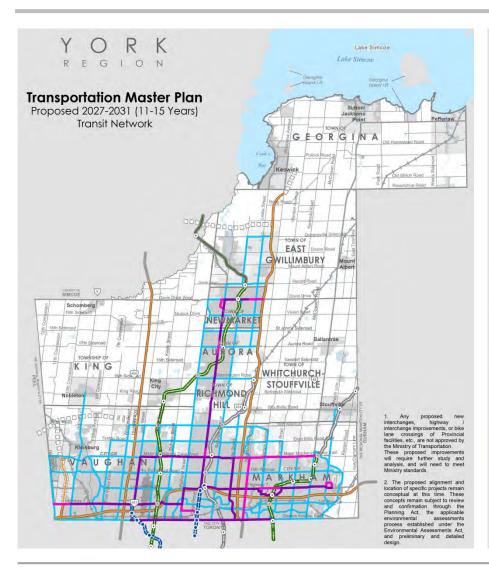


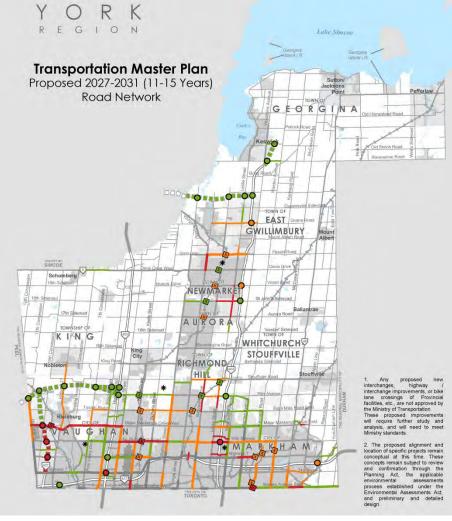






Phasing the Plan: 2027 to 2031

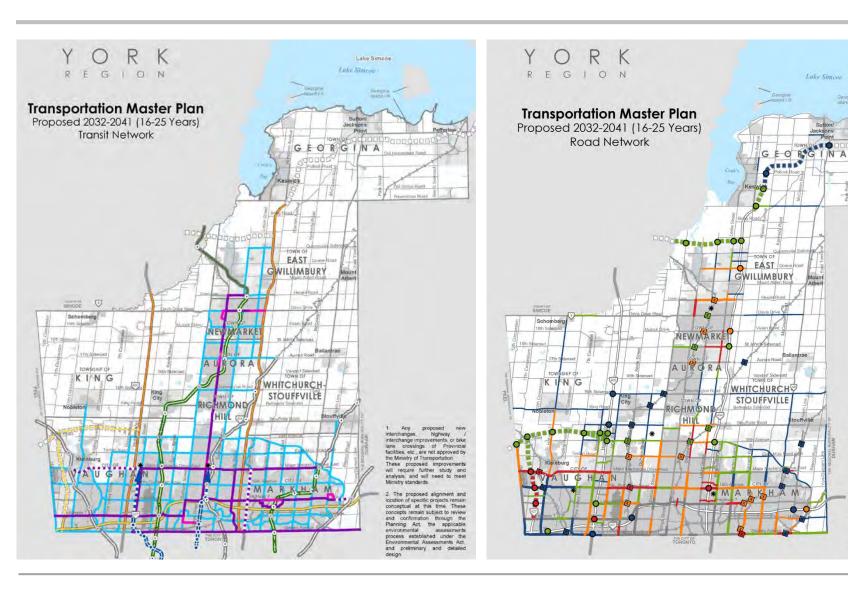








Phasing the Plan: 2032 to 2041





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

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

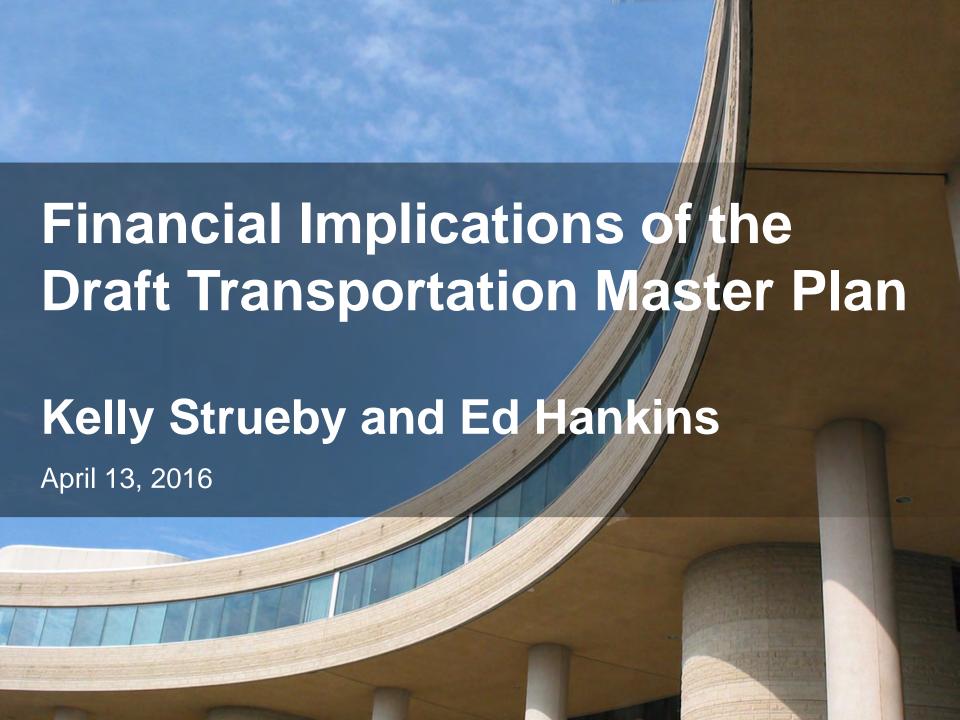
Environmental Assessments Act, and preliminary and detailed design.

Luke Simcoe

Total Capital Costs by Phase

\$M CAPITAL COSTS	To 2021	2022 to 2026	2027 to 2031	2032 to 2041	Total	York Region
Transit	379	4,203	2,588	1,719	8,888	823
Rapid Transit	205	4,048	2,423	1,389	8,065	_
Conventional	174	155	165	329	823	823
Roads	898	1,901	2,213	2,572	7,585	7,112
TOTAL	\$1,277	\$6,105	\$4,801	\$4,291	\$16,474	\$7,935
STATE OF GOOD REPAIR						
Transit				1,154	1,154	
Rapid Transit 735					735	
Roads				3,750	3,750	
TOTAL STATE OF GOOD REPAIR				\$5,639	\$4,904	
TOTAL MASTE	R PLAN CO	STS			\$22,113	\$12,839



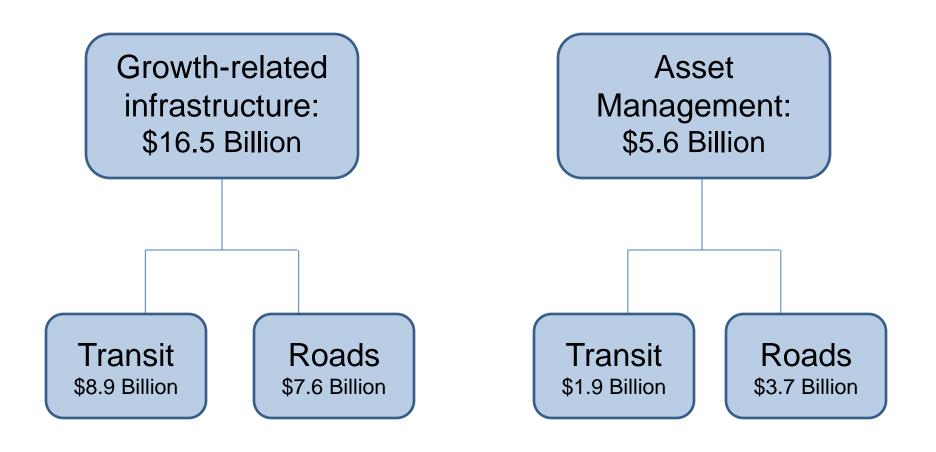


Outline

- Introduction
- The Capital Plan and the Transportation Master Plan
- Funding Transportation Asset Management
- Funding Growth-Related Transportation Investment
- Debt
- Conclusion and Path Forward

Introduction

The draft Transportation Master Plan has an estimated total cost of \$22.1 billion over 25 years



Fiscal Considerations

Capital Plan	 Overall size Priority setting: transportation vs. other infrastructure and within transportation
Development Charges	Future development charge revenue
Debt	Total outstanding debtCost of debt servicingCredit rating
Tax Levy	 Implications for pay-as-you-go capital Tax-levy impact of non-DC-able growth-related infrastructure Operating impact of new assets
Reserves	 Adequacy of capital asset replacement contributions (relates to tax levy)
Other Revenue Sources	 Funding from other levels of government Potential for new revenue sources

Preliminary funding analysis

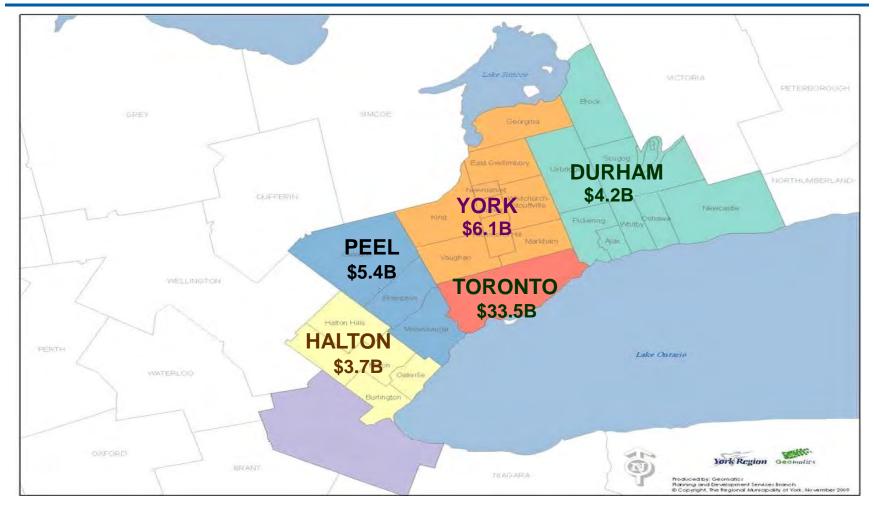
- The financial analysis should be treated as early estimates that will be revised based on:
 - Full use of Finance's forecasting models, which was not possible in the time frame
 - Factoring in the impact of the Environmental Services Master Plan and other long-term capital needs
 - Revised development charge rates and collection forecasts
 - The fiscal impact analysis associated with the Municipal Comprehensive Review
- The financial analysis is expected to be further developed by Fall 2016

Preliminary findings

- Implementation of the draft Transportation Master Plan would require:
 - Large financial commitments from other levels of government
 - An increase in development charge rates
 - Property tax increases
 - Entirely new revenue sources
- Implications of draft Master Plan for debt:
 - Peak outstanding debt would continue to increase until at least
 2030
 - Tax levy debt would have to be issued

The Capital Plan and the Transportation Master Plan

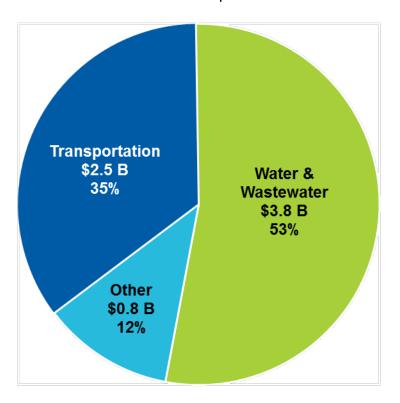
York's current ten-year capital plan is the largest in the 905



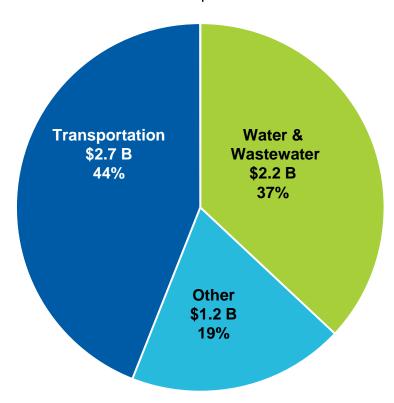
Figures reflect Ten-Year Capital Plans approved in 2016.

Increasing emphasis on transportation investment in the capital plan

Capital Expenditure 2006-2015 - \$7.1 Billion



Ten-Year Capital Plan 2016-2025 - \$6.1 Billion



Key assumptions on cost-sharing for this analysis

Infrastructure	Region's Contribution (%)	Description
Yonge subway	0	
VivaNext rapidways	0	
Grade separations	15 to 85	4 are assumed to be funded by Metrolinx at 85% with the remaining likely to be funded by York at 85%
Transit facilities and fleet expansion	45	
Road widening/new roads	99	
Steeles Avenue	50	Widening and future rapid transit

- Remaining infrastructure, which includes new interchanges, mid-block crossings and intersections are assumed to be 100% funded by the Region
- Cost-sharing assumptions will be revised as more information becomes available

Draft Transportation Master Plan would require major spending increases

 The Region's annual transportation capital spending would need to almost double compared to the last ten years

Transportation Capital	Average Annual Spending (\$M)		
	2006-2015	Regionally-funded portion of TMP	
Average Annual Spend	250	494	

Funding Asset Management in the Transportation Master Plan

Budgeting for asset management

Asset Management

Pay-as-you-go capital

- Repairs and routine rehabilitation (not maintenance)
- Growth capital not covered by DCs

Reserves (non-DC)

- Major life-cycle rehabilitation
- Asset replacement

Asset management plan for transportation is under development

- Transportation Services is working on an asset management plan, expected to be completed by the end of 2016
- Excluding rapidways, the draft Transportation Master
 Plan estimates \$4.9 billion over 25 years, which is approximately 3.1 times the current annual spend

Average Annual Spending
Transportation Asset Management
(\$ millions)

Ten-year Capital Plan	63.8
Draft Master Plan	196.2

Approach to pay-as-you-go capital

- The level of pay-as-you-go capital funding for roads will be re-assessed:
 - The appropriate amount of pay-as-you-go capital will be determined through the asset management planning process and associated financial analysis
 - An increase could be included in the 2019-2022 multi-year budget for Council's consideration

Approach to asset replacement funding

- Asset replacement reserve contributions are rising in line with Council's approved policy
- Approximately half is intended for transportation
- The adequacy of the contributions will be evaluated when the asset management plans are developed

Asset Replacement Reserve Contributions All Sectors (\$ millions)

2015	2016	2017	2018
75	92	112	117

Key messages

- Higher levels of investment in pay-as-you-go capital are likely needed
- Additional contributions to asset replacement reserves may also be needed
- A request for additional tax-levy funding could be included in the next multi-year budget process (2019)

Funding Growth-Related Infrastructure

Timing and amount of growth-related infrastructure contingent on factors beyond Regional Control

Regionally Funded

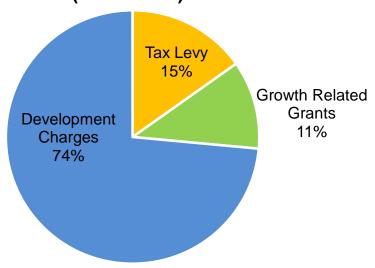
Other
Levels of
Government

New Revenue Sources

DCs are the key for Regionally-funded growth-related infrastructure

 In York Region, transportation DCs cover significantly less than the full cost of growth

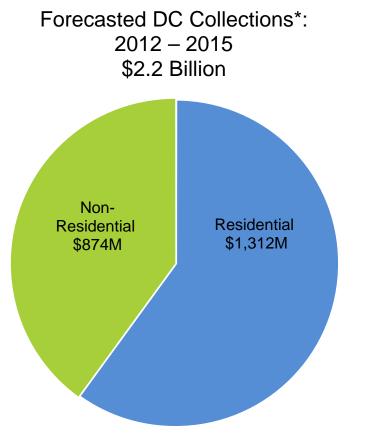
> Draft Transportation Master Plan Funding Sources, Regionally Funded Projects (2016 - 2041)



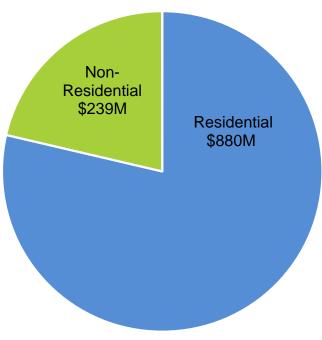
Note:

- Tax levy funding could be partially replaced by new revenue sources, if available
- Figures exclude Yonge North Subway and Rapidways since they are assumed to be fully funded by other levels of government.

DC collections have been well below forecast

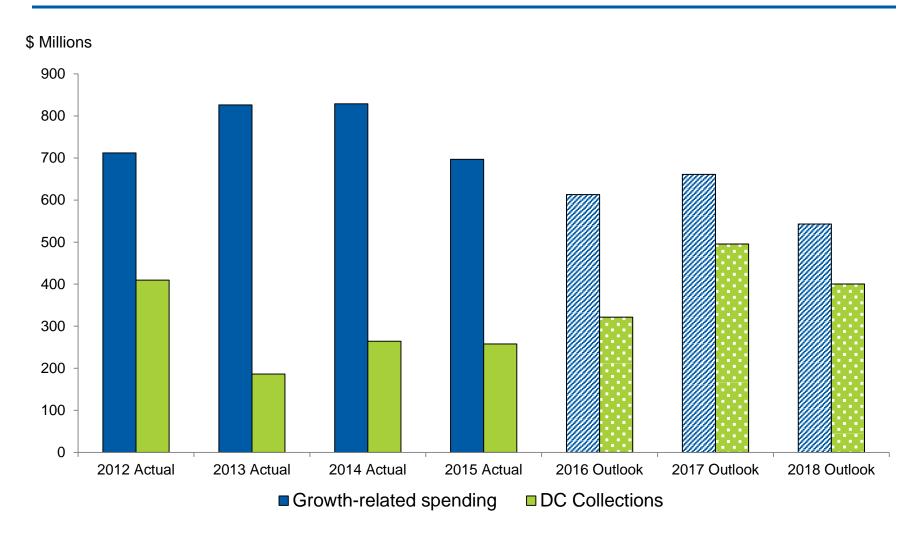






^{*} Based on 2012 DC Background Study

DC collections need to rise to fund growthrelated spending in the existing capital plan



Two potential scenarios for DC collections to be above budget forecast

- Higher than expected population and employment growth rates
- 2017 DC bylaw update increases DC rates above the assumptions used in the current forecast

Beyond Regional funding

- The analysis presented here assumes that other levels of government will provide \$9.0 billion in funding for the draft Transportation Master Plan:
 - Including full funding for the Yonge North Subway extension and vivaNext Rapidways
- In addition, new sources of revenue would be required to sustainably deliver the draft plan
- If the province provides new revenue sources to municipalities, the new revenue could be used for a variety of Regional priorities

Key messages

- Higher development charge revenues are needed just to pay for the existing approved ten-year capital plan
- Even higher development charge revenues would be needed to pay for the additional growth-related projects in the draft Master Plan
- Development charge revenues do not cover the full cost of growth
- The remainder must be covered through tax levy, subsidies or entirely new revenues
- The need to divert tax levy funding to pay for growth-related infrastructure potentially compromises funding for asset management

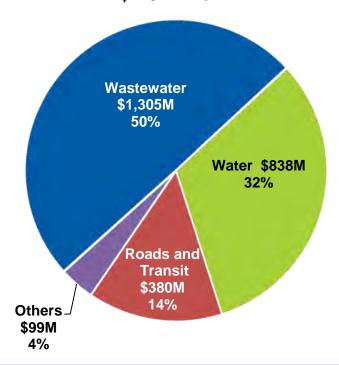
Debt

Debt is necessary when infrastructure has to be built ahead of growth

- Economies of scale and long lead times mean that major infrastructure is mostly constructed in advance of growth
- Debt is often required to finance growth-related infrastructure and this debt is repaid when DCs are collected
- This is especially true of water and wastewater infrastructure because growth simply cannot happen without it
- The price of delayed investment in transportation infrastructure is congestion and its related impacts

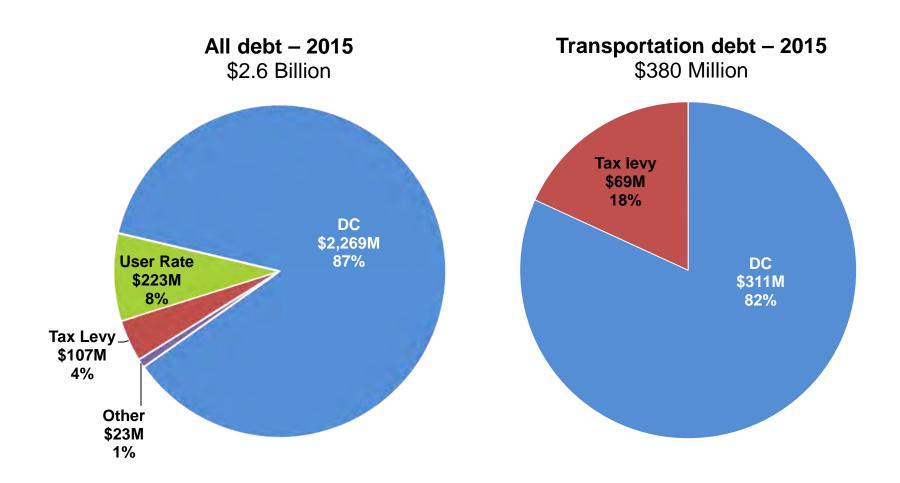
Debt has been used to finance past infrastructure projects

Debt outstanding as at December 31, 2015 \$2.6 Billion

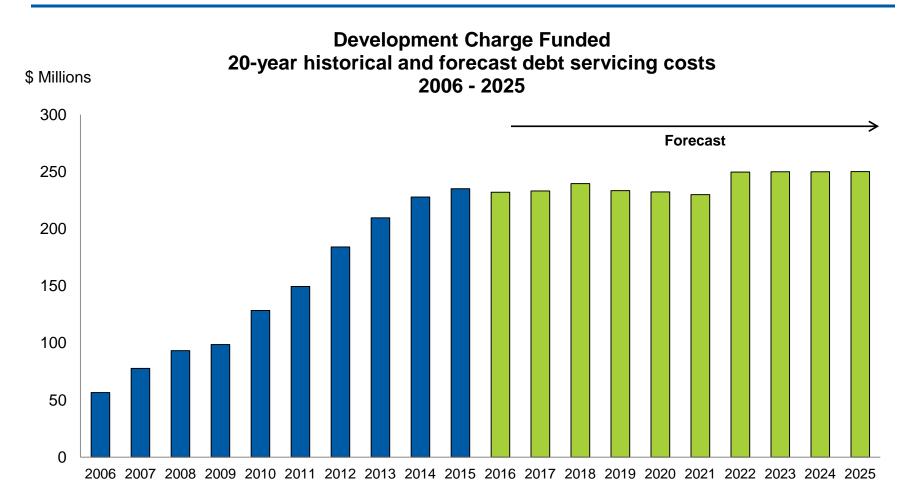


14% of the current debt is related to roads and transit projects

Most of the debt will be repaid with DCs

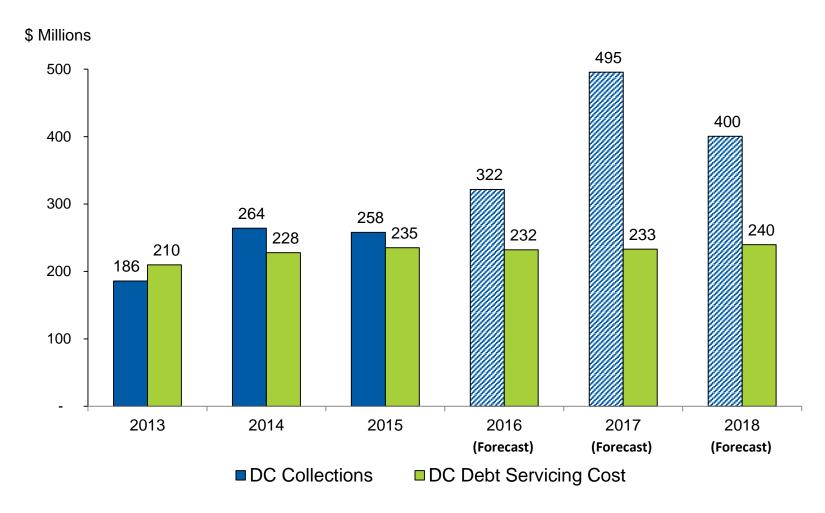


The Region has significant growth-related debt servicing costs



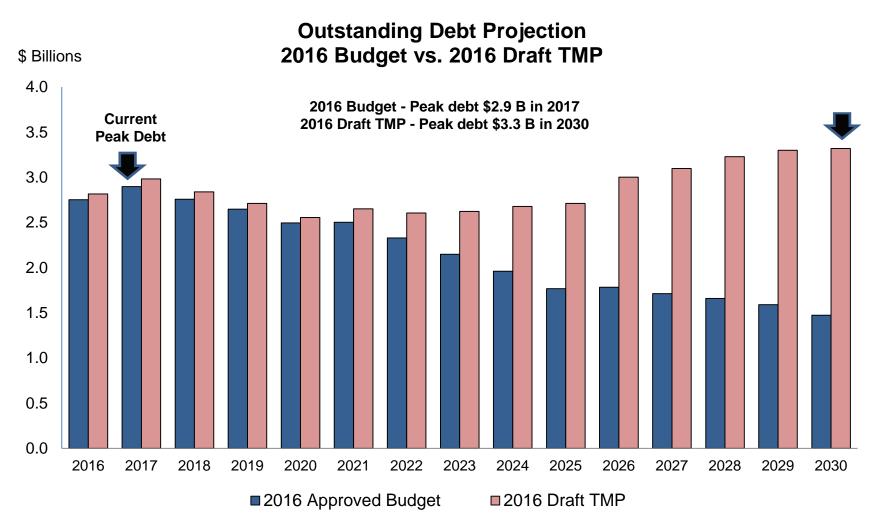
Note: Forecast based on 2016 ten-year capital plan

DC collections service existing debt and help avoid future growth-related debt



Note: Forecast based on 2016 budget

Fiscal strategy reduces debt levels



Estimated impact of draft Transportation Master Plan on debt over the next 15 years

Peak outstanding debt:

\$3.3B in 2030

Total debt issuance

Up \$2.3B to \$3.9B

New tax levy debt

\$250M

Key messages

- Implementation of the draft Transportation Master Plan would result in rising debt until at least 2030
- Significant increases in development charge revenues are necessary to fund the existing ten-year capital plan
- Further increases would be needed for the level of investment in the Transportation Master Plan
- Tax increases or other new revenues would be required to fund the portion of growth-related infrastructure investment that cannot be recovered through development charges

Conclusion and Path Forward

Factors that will influence implementation of the draft Transportation Master Plan

- Development charge revenue:
 - Actual pace of growth will affect forecast of collections (up or down)
 - □ Increase in DC rates through the 2017 update
- Funding from other levels of government, especially for transit
- Legislative changes that would provide entirely new revenue streams
- □ Financial policy choices related to tax levels, debt levels, tax levy debt, and new revenue sources (if available)

Potential tax implications

- The draft Transportation Master Plan contains five potential sources of tax levy pressure:
 - Need for higher contributions to pay-as-you-go capital and future asset replacement
 - 2. The cost of growth-related infrastructure that cannot be recovered from development charges
 - 3. The operating impact of new capital assets
 - Operating impact of enhanced levels of transit service
 - 5. Policy changes, primarily the assumption of boulevard maintenance responsibilities from local municipalities
- These tax levy pressures could be offset if new revenue sources materialize

Implementing the Transportation Master Plan

- Implementation of the Transportation Master Plan will need to consider:
 - 1. The timing and feasibility of funding from other levels of government and access to new revenue sources
 - Trade-offs in the capital plan between transportation and other priorities
- The extent to which the Master Plan can be funded will be determined through the budget process

Next Steps

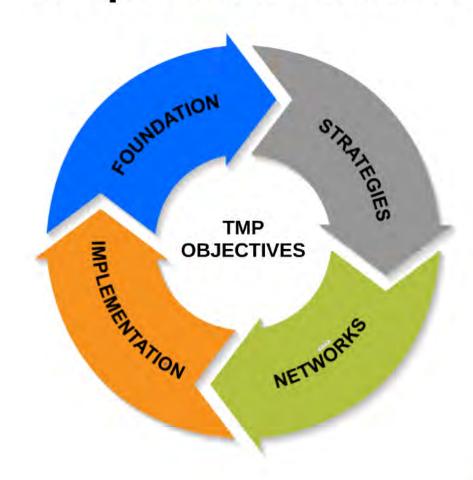
- A more developed financial analysis of the Master Plan will be available in the Fall
- Finance will revise the DC forecast in conjunction with the preparation of the Background Study for the 2017 bylaw update
- The financial approvals for the implementation of the Master Plan will take place as part of the 2018 budget process

Transportation Master Plan Advisory Task Force

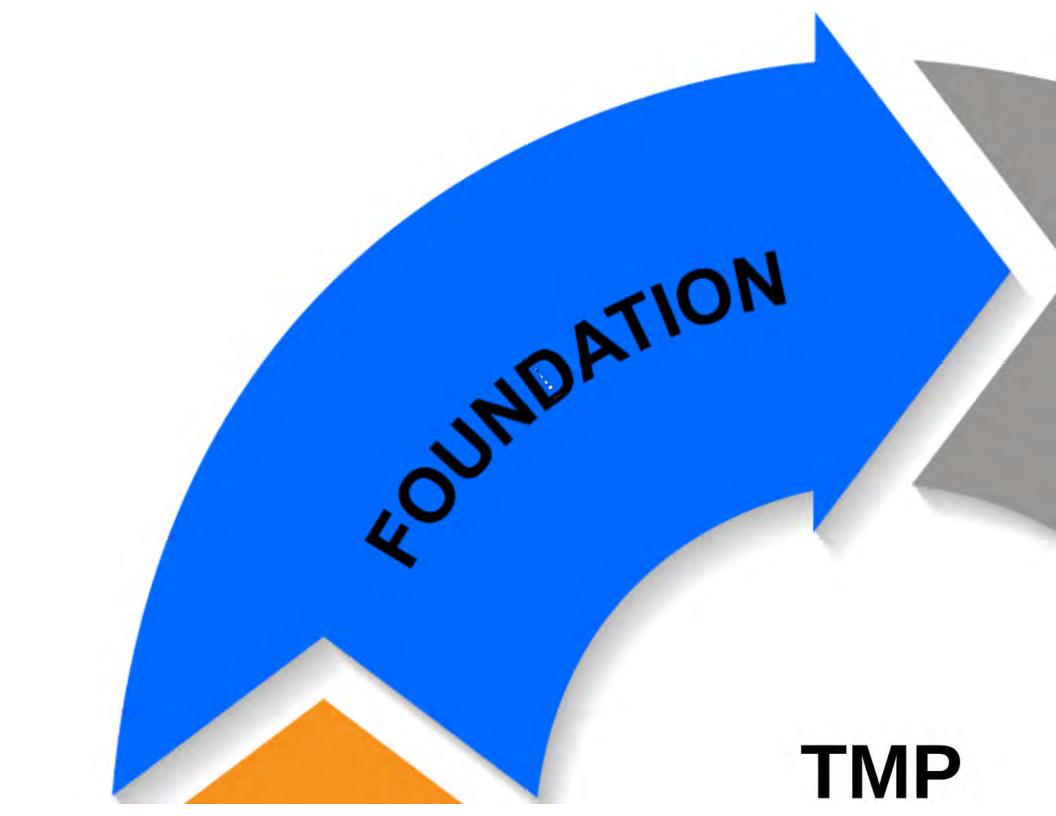


Your community, your say.

2016 Transportation Master Plan

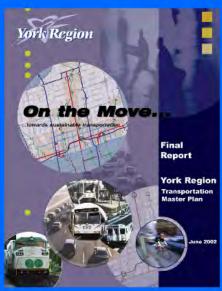






2002 Transportation Master Plan

- Transit Priority Network
- Dedicated Rapid Transit Corridors
- North-South Connections to Subway Extensions
- Walking/Cycling Supportive Policies and Programs



2009 Transportation Master Plan Update

- Built on "Pedestrian and Transit-First" Approach
- Spadina and Yonge Subway Extensions
- Extending Dedicated Rapid Transit Corridors
- Special Study Areas
- VivaNext Bus Rapid Transit Implementation

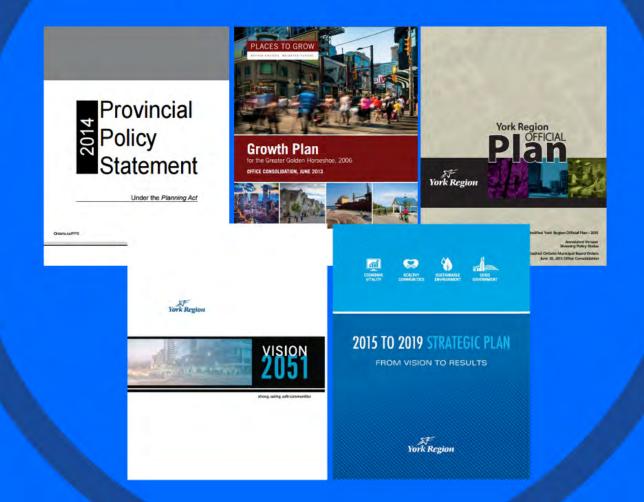


2008 Pedestrian and Cycling Master Plan

- Continuous network of sidewalks
- Region-wide cycling network
- Partnership Program and initiatives

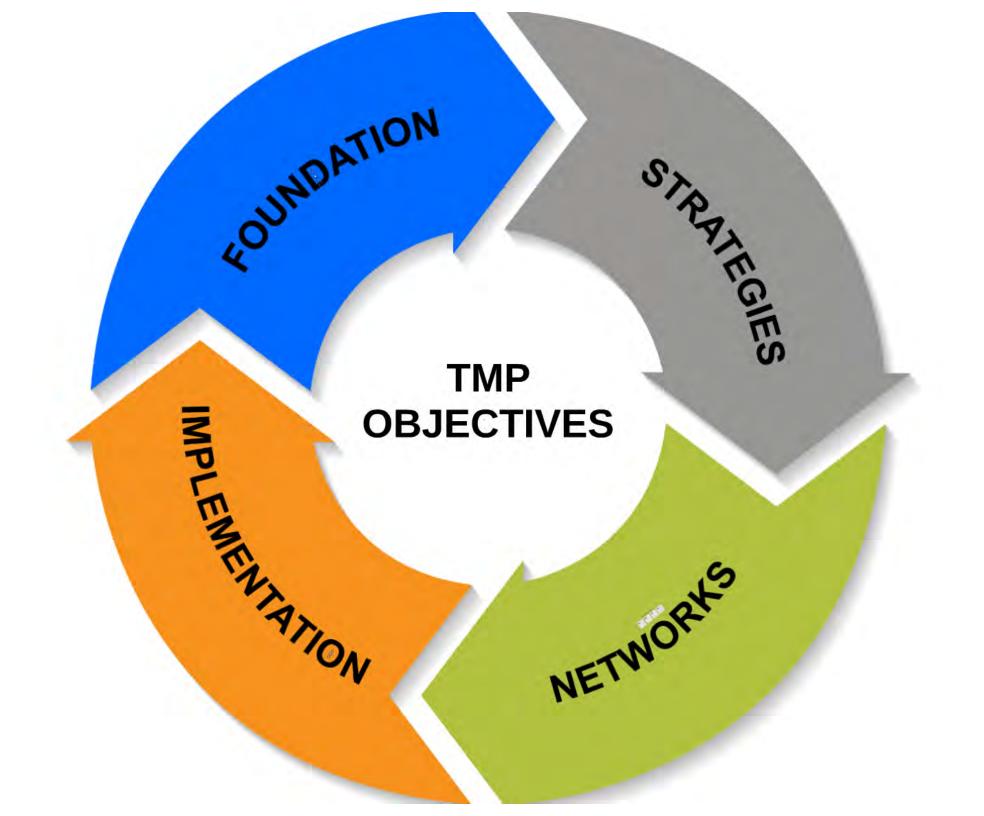


The Foundation...

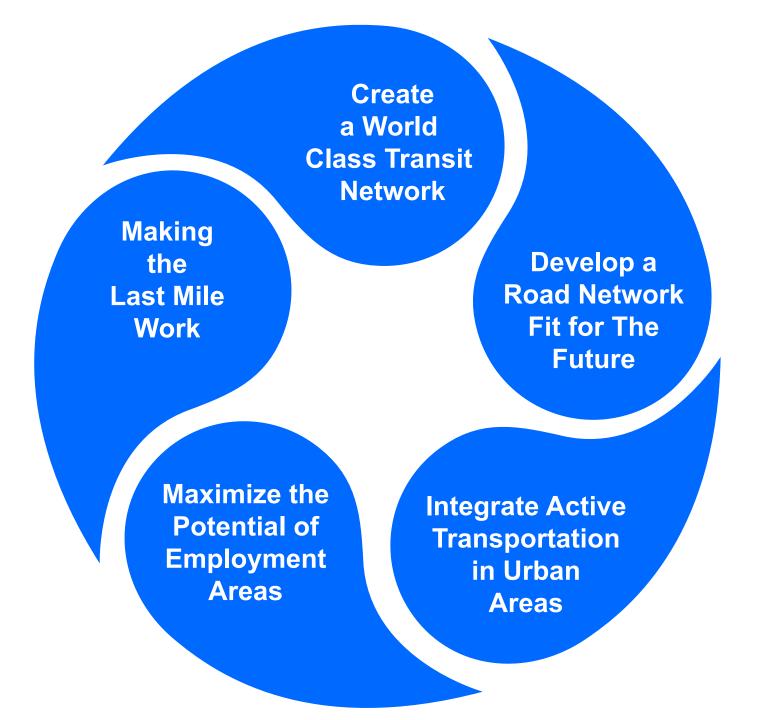


The TMP will respond to this challenge...

To create an advanced interconnected system of mobility in the GTHA in order to give York Region residents and businesses a competitive advantage, making York Region an attractive place to live, work and play.



TMP OBJECTIVES

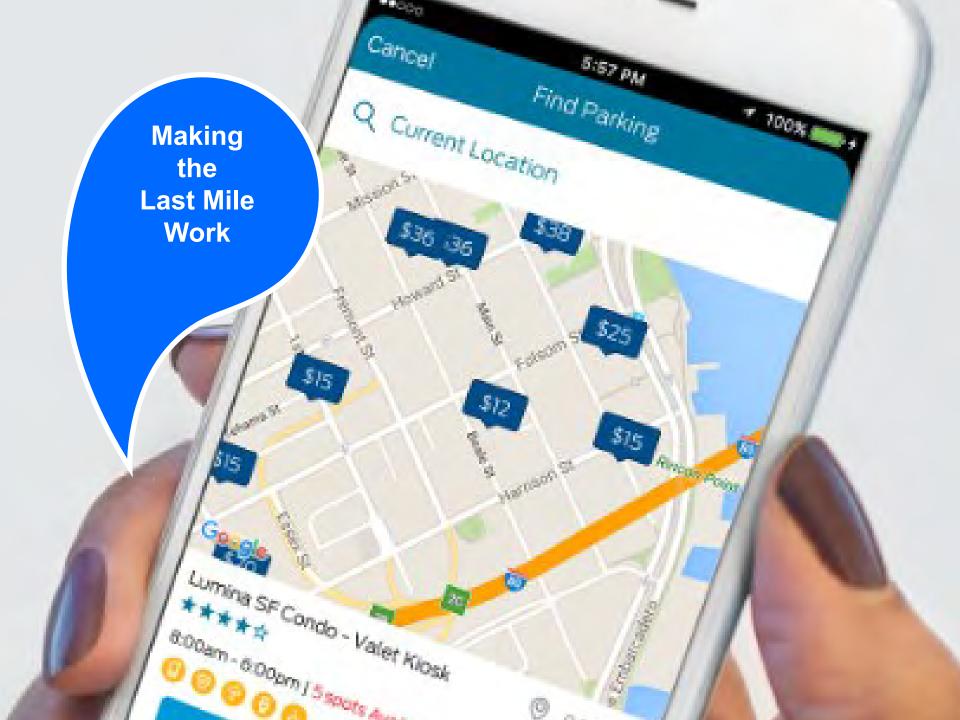




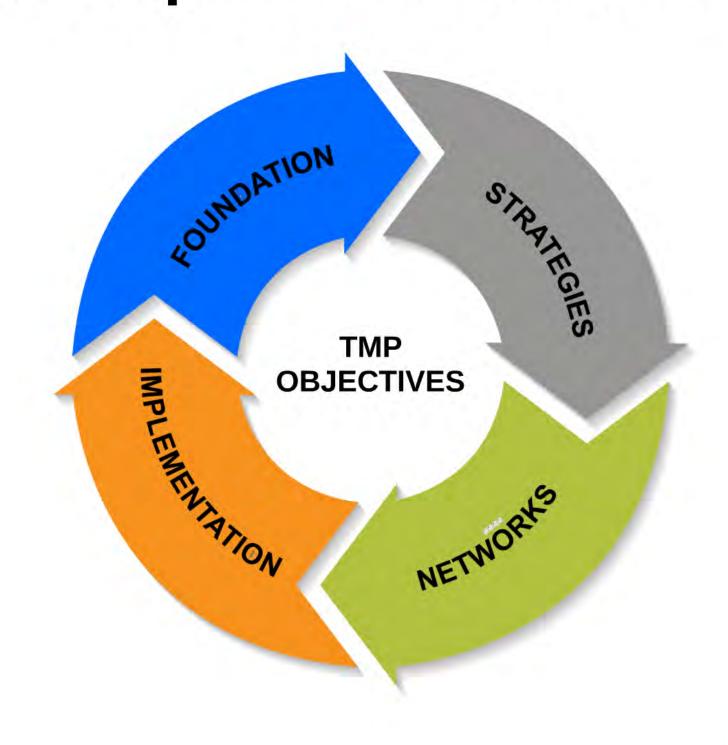




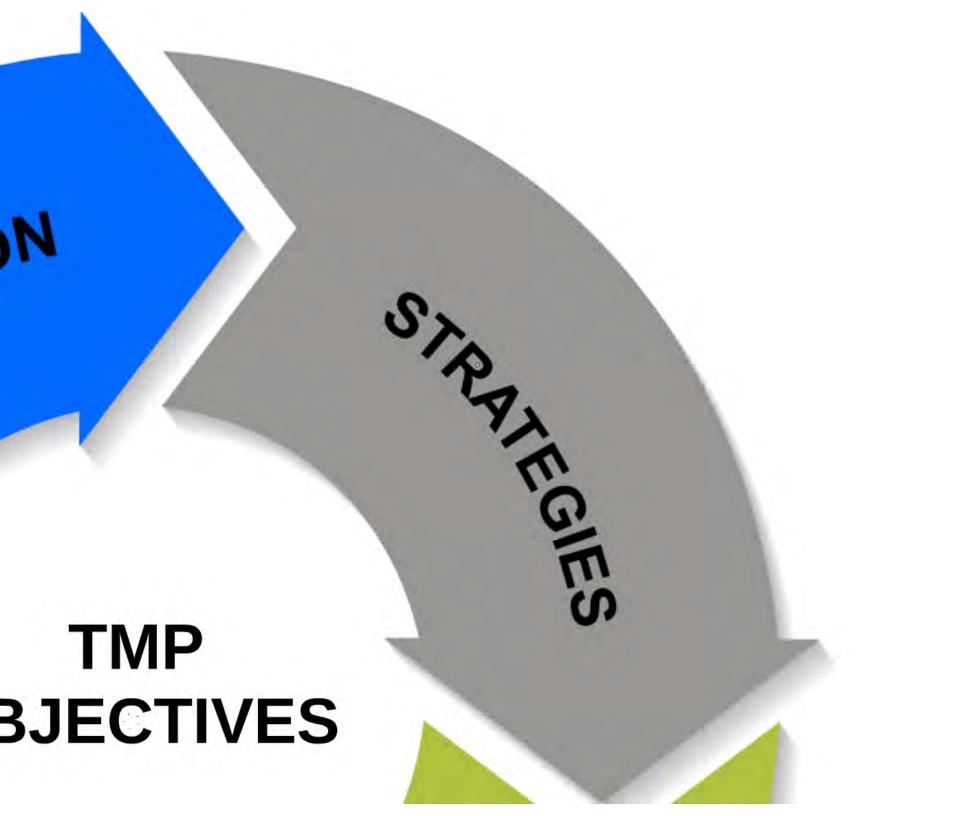




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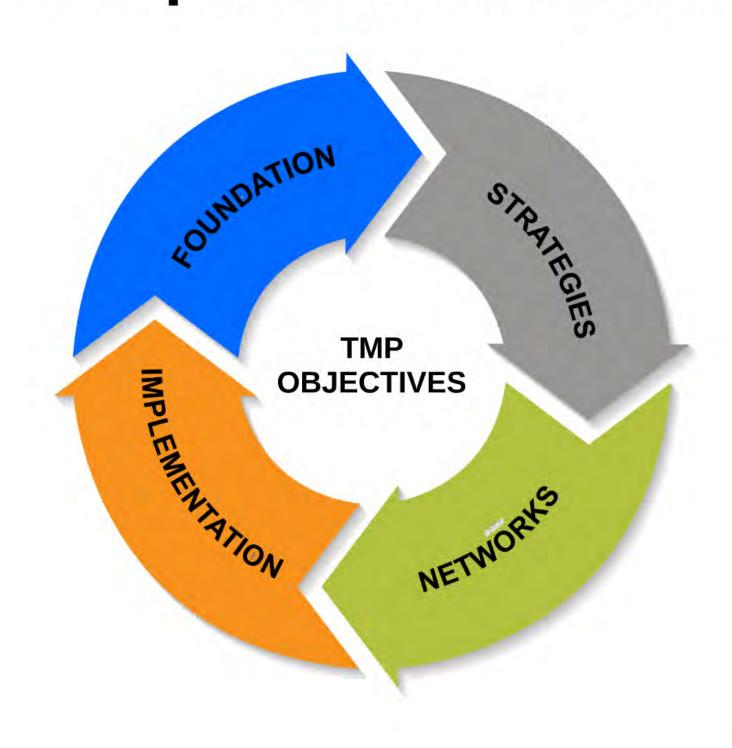


The Strategies

- Transit Growth Strategy
- Finer Grid Network
- Boulevard Jurisdiction
- Commuter Parking Strategy
- Technology
- Transportation Demand Management
- Transit On-Demand
- Goods Movement Corridors
- Traffic Management Plan
- Context Sensitive Solutions

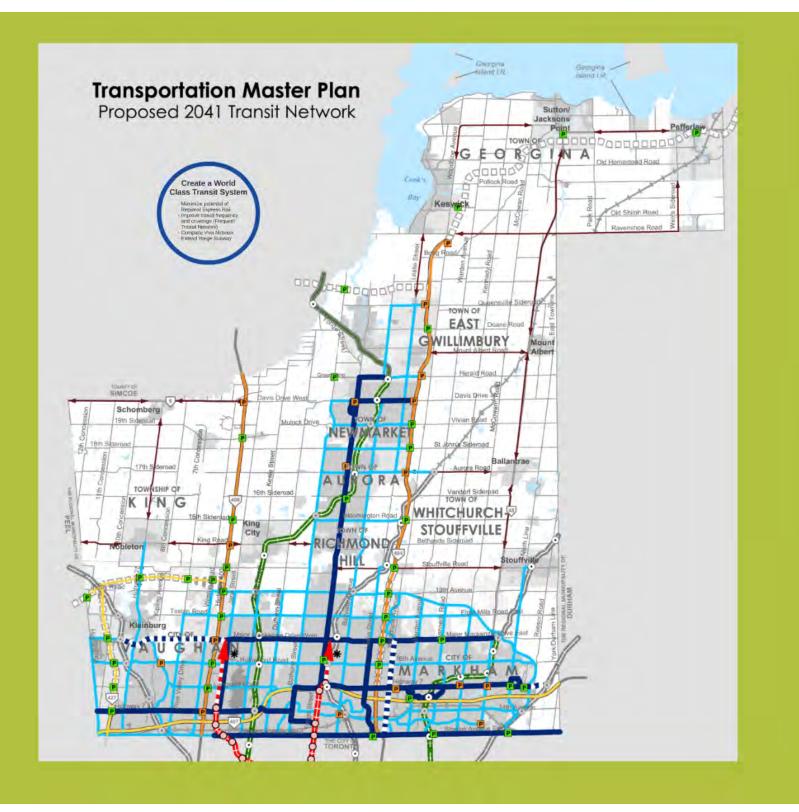


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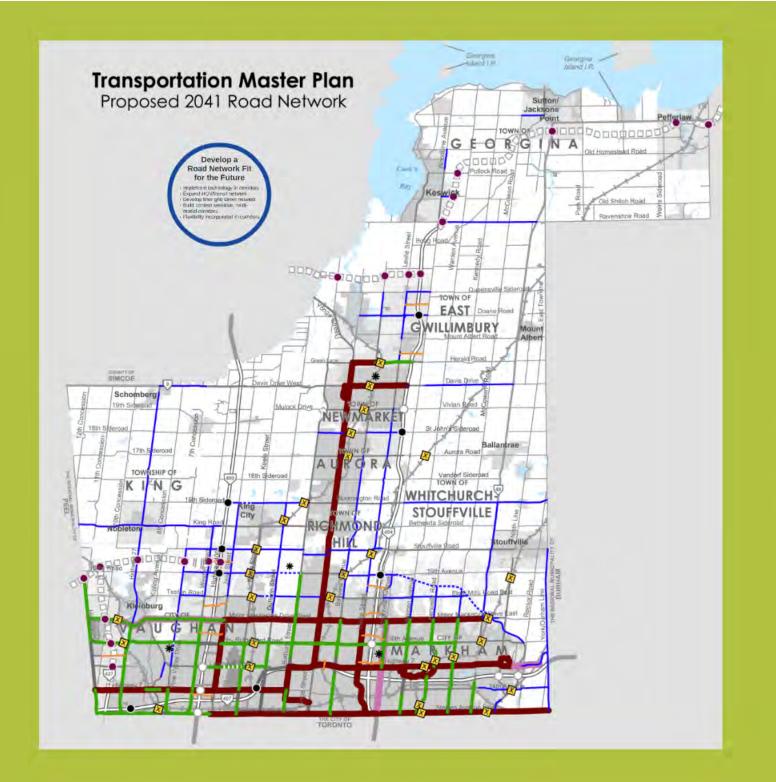
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Create a World Class Transit System

- Maximize potential of Regional Express Rail
- Improve transit frequency and coverage (Frequent Transit Network)
- Complete Viva Network
- Extend Yonge Subway





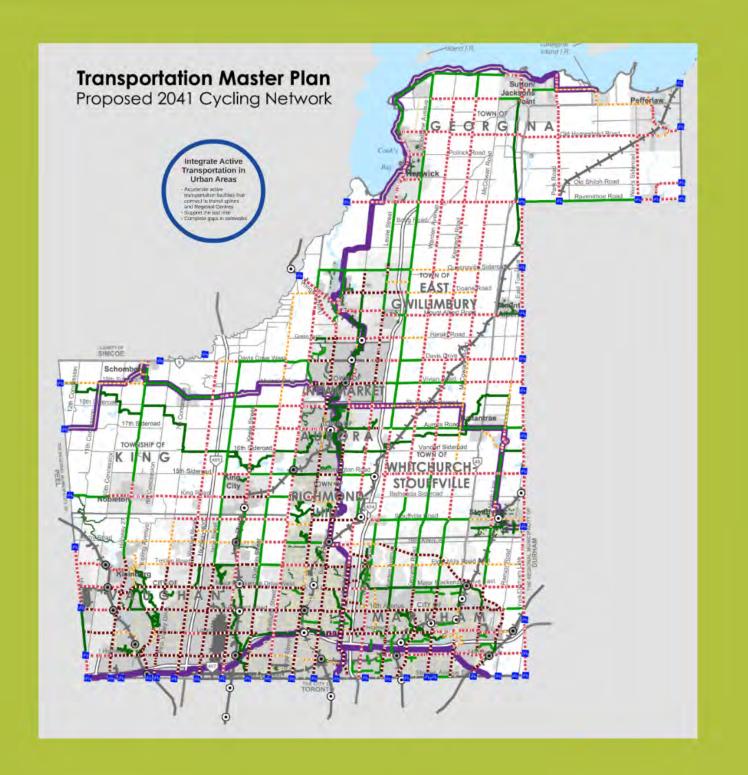
Transp Propose



Develop a Road Network Fit for the Future

- Implement technology in corridors
- Expand HOV/transit network
- Develop finer grid street network
- Build context sensitive, multimodal corridors
- Flexibility incorporated in corridors





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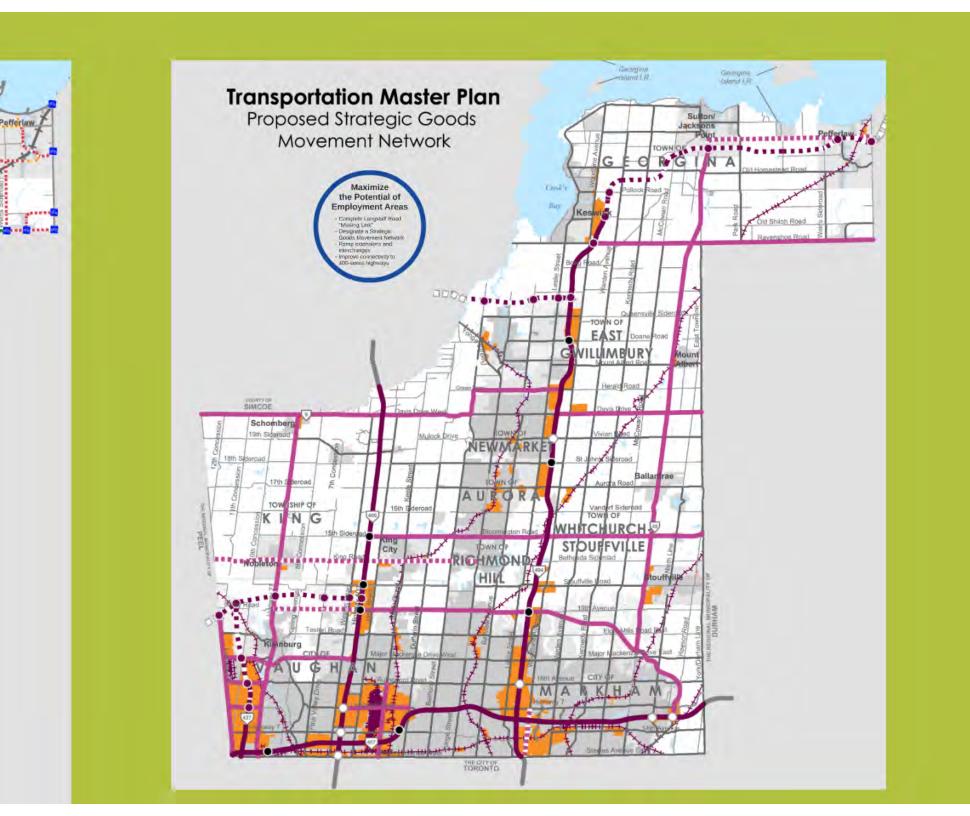
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Integrate Active Transportation in Urban Areas

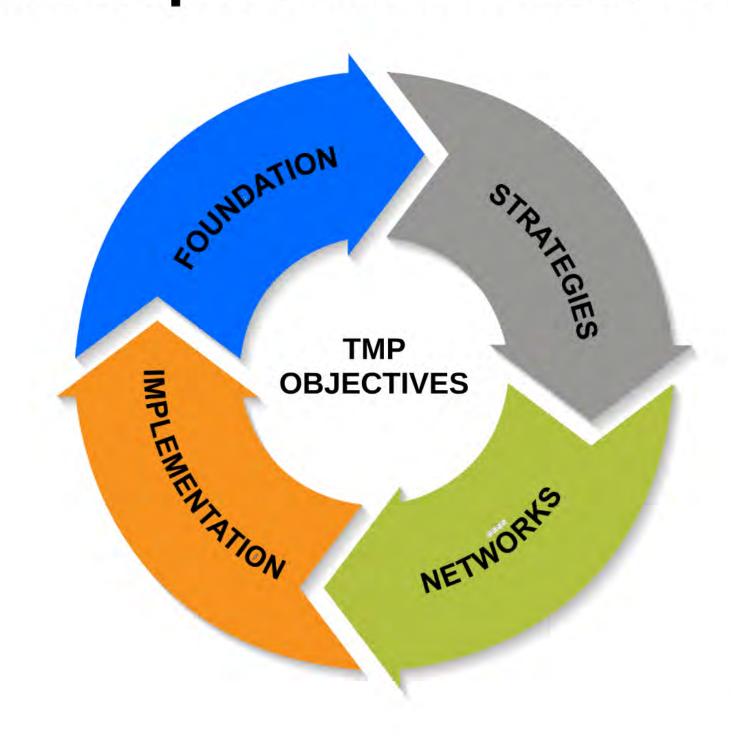
- Accelerate active transportation facilities that connect to transit spines and Regional Centres
- Support the last mile
- Complete gaps in sidewalks



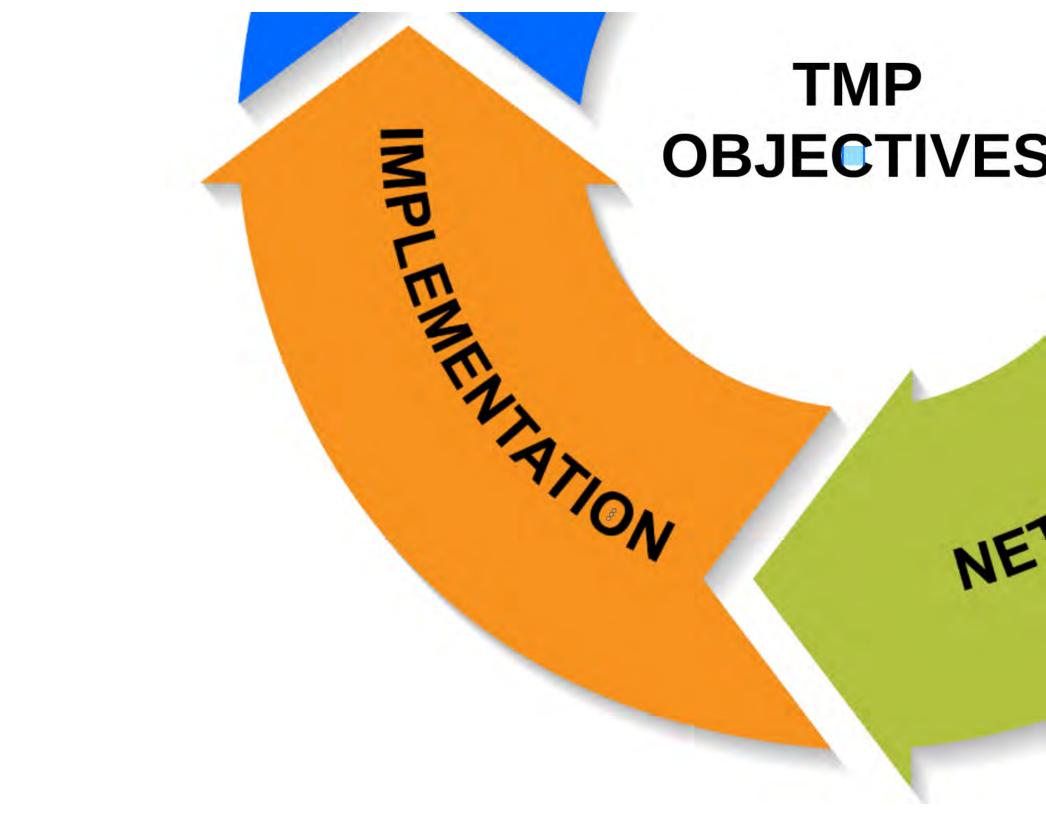
Maximize the Potential of Employment Areas

- Complete Langstaff Road "Missing Link"
- Designate a Strategic
 Goods Movement Network
- Ramp extensions and interchanges
- Improve connectivity to 400-series highways

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Implementation

- Phasing Strategy
- Action Plan
- Funding
- Monitoring and Reporting
- Communication Strategy

Key Performance Indicators (KPI's)

- Innovative KPI's to measure the progress and success of the TMP Update
- Foster partnerships for data collection and sharing
- Report on progress annually

Funding the Plan

- Cost of the Plan by Phase
- Recommended Funding Sources (Regional/other)

Total investment required to meet needs:

\$22.1B

to 2041