



PUBLIC WORKS TRANSPORTATION CAPITAL INFRASTRUCTURE STATUS UPDATE

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April 13, 2023



PRESENTATION OBJECTIVES

- Program overview
- 2022 accomplishments
- 2023 new and continuing projects
- Pre-construction activities

\$3.9B 2023 10-YEAR TRANSPORTATION CAPITAL BUDGET

- Roads
- Bridges
- Intersections
- Maintenance Facilities
- Technology

ROADS
\$2.64B

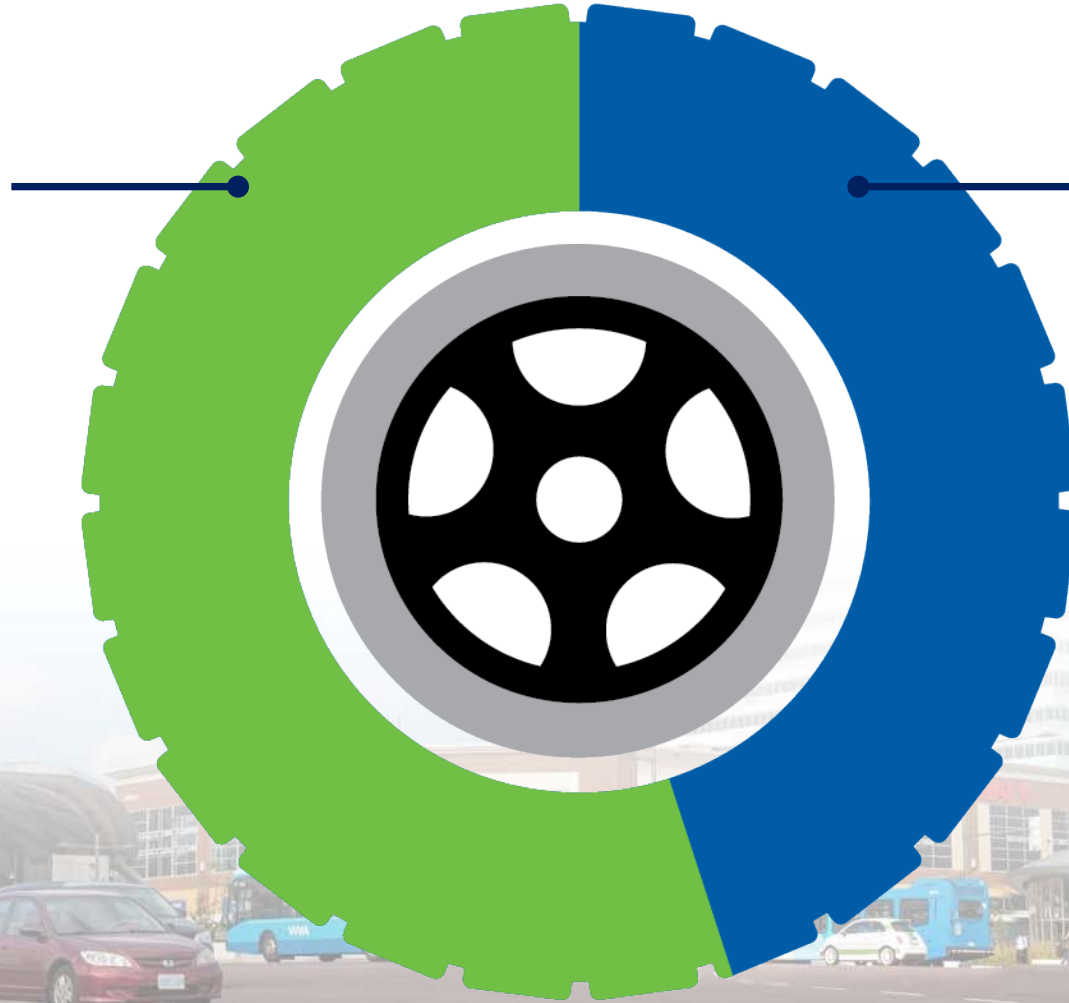


TRANSIT
\$1.26B

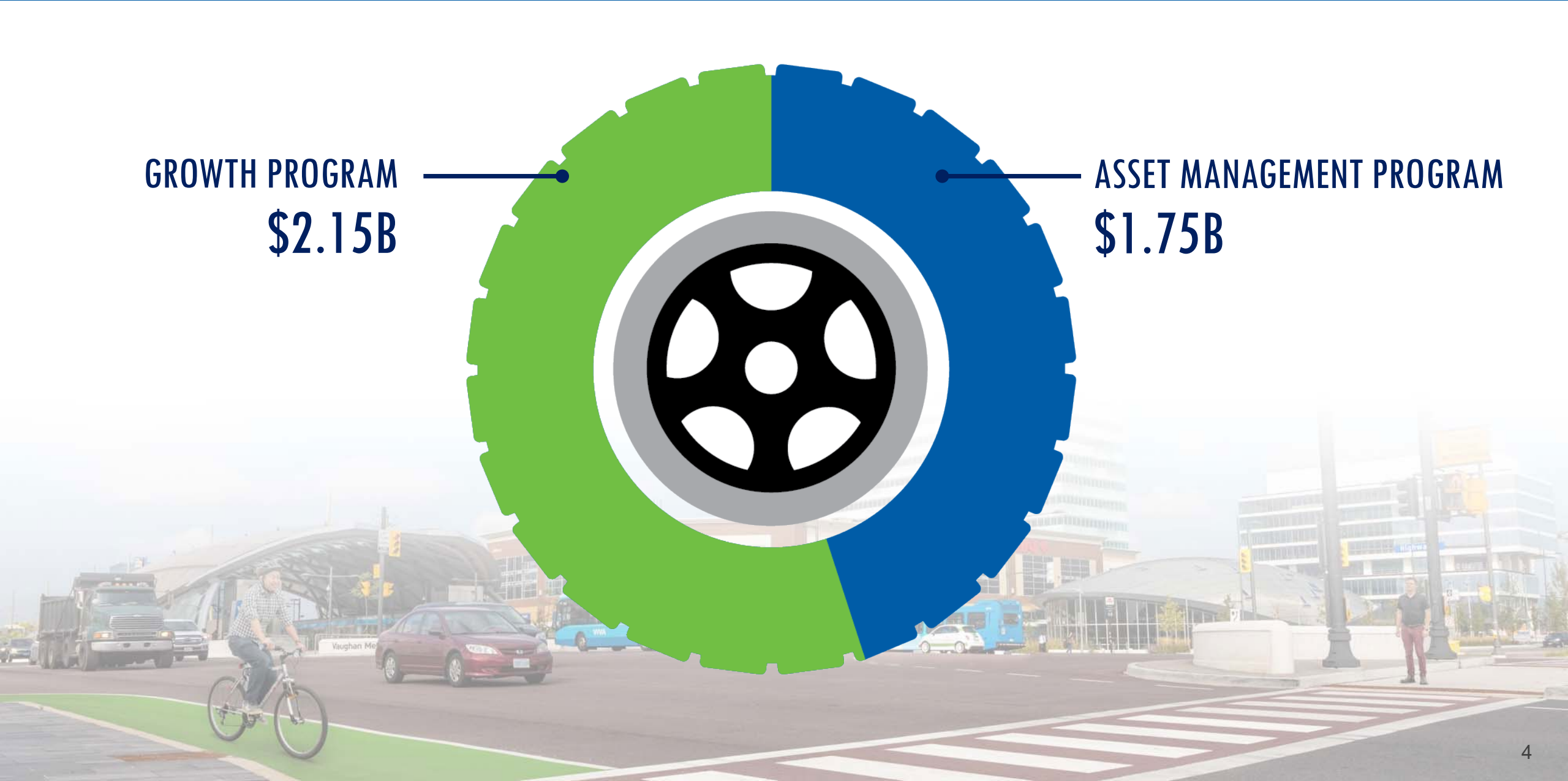
- Fleet
- Garages
- Terminals
- Technology

\$3.9B 2023 10-YEAR TRANSPORTATION CAPITAL BUDGET

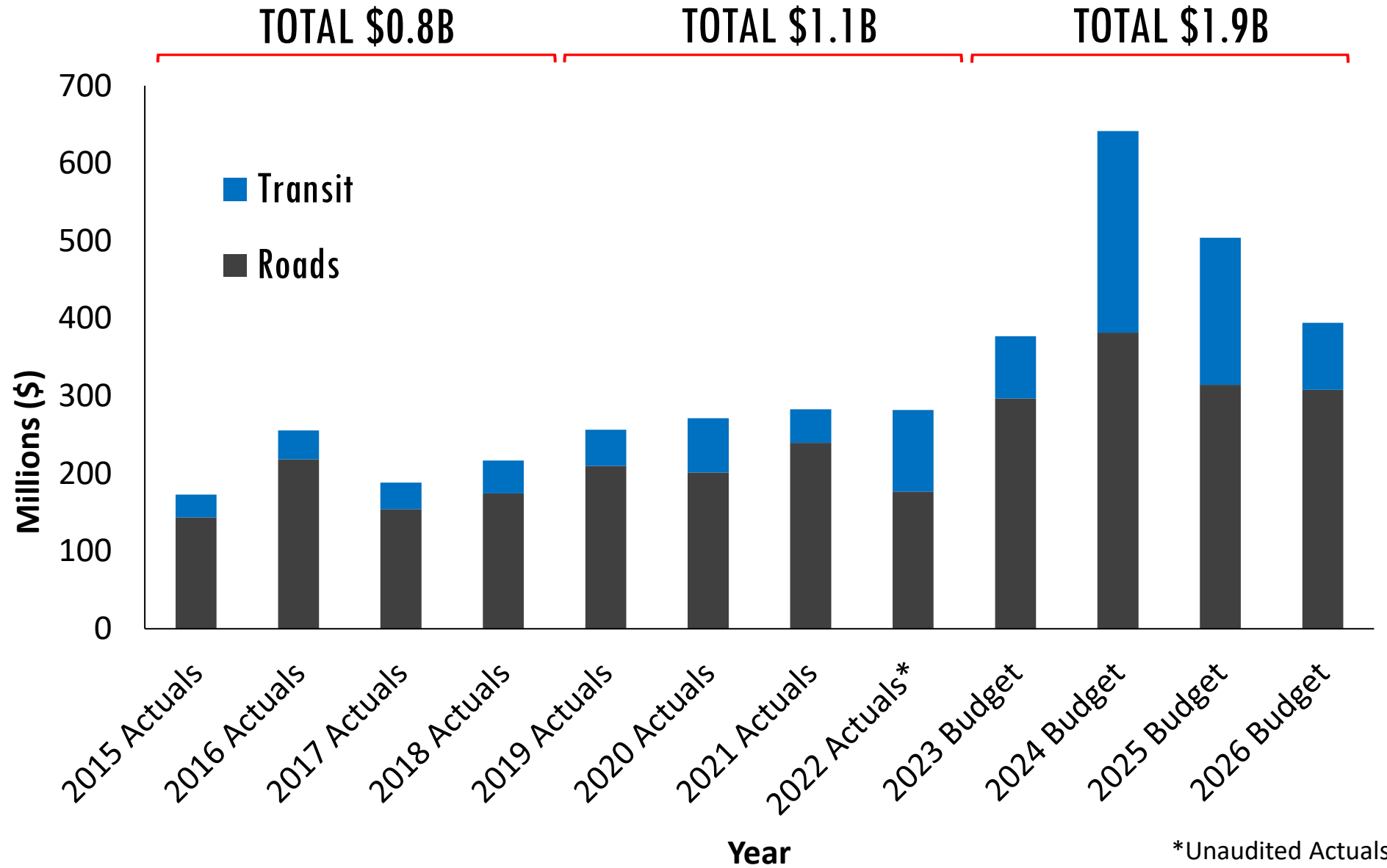
GROWTH PROGRAM
\$2.15B



ASSET MANAGEMENT PROGRAM
\$1.75B

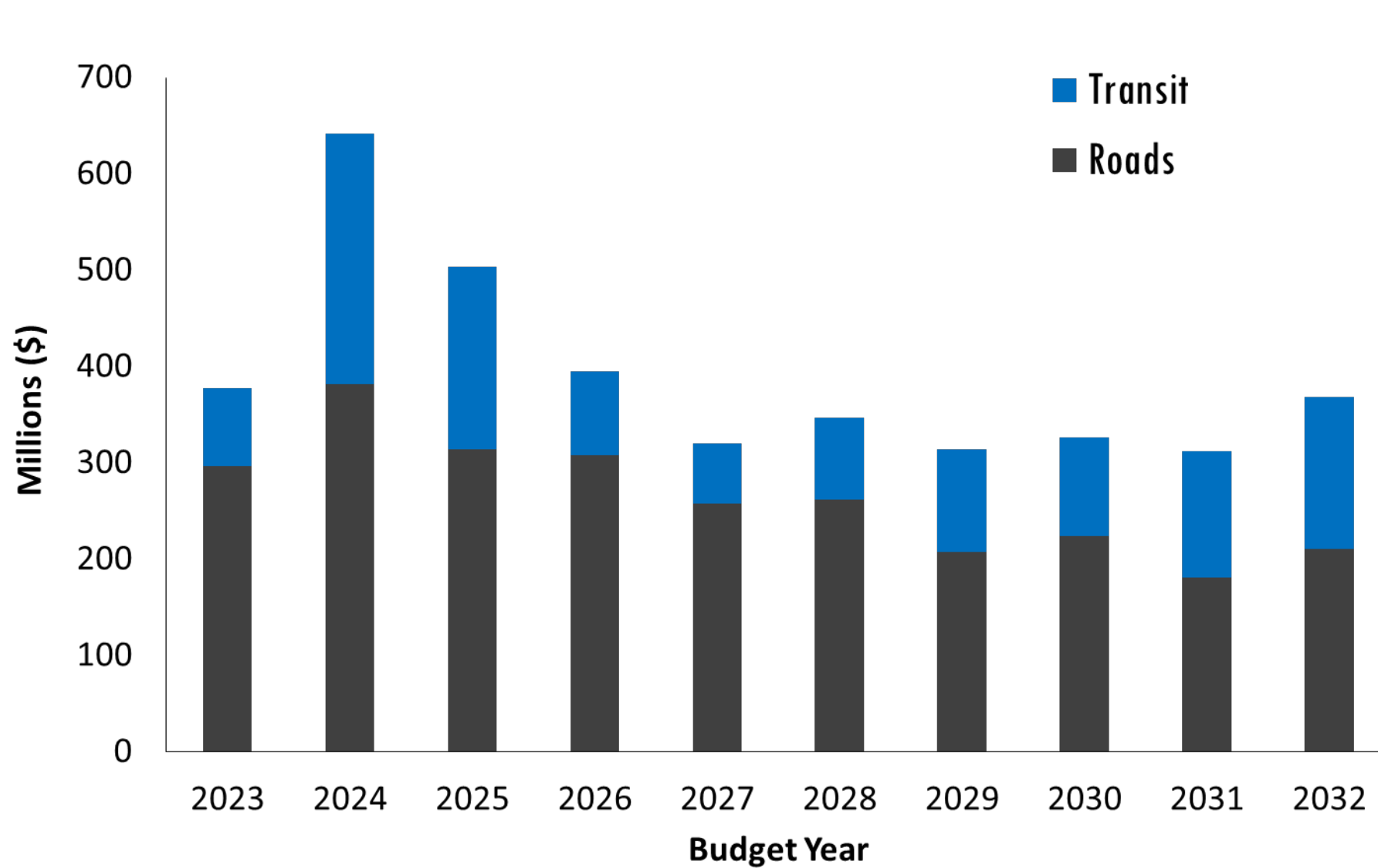


RECORD INVESTMENT IN ROADS AND TRANSIT PROGRAMS



*Unaudited Actuals

2023-2032 TRANSPORTATION SERVICES CAPITAL BUDGET



\$3.9B

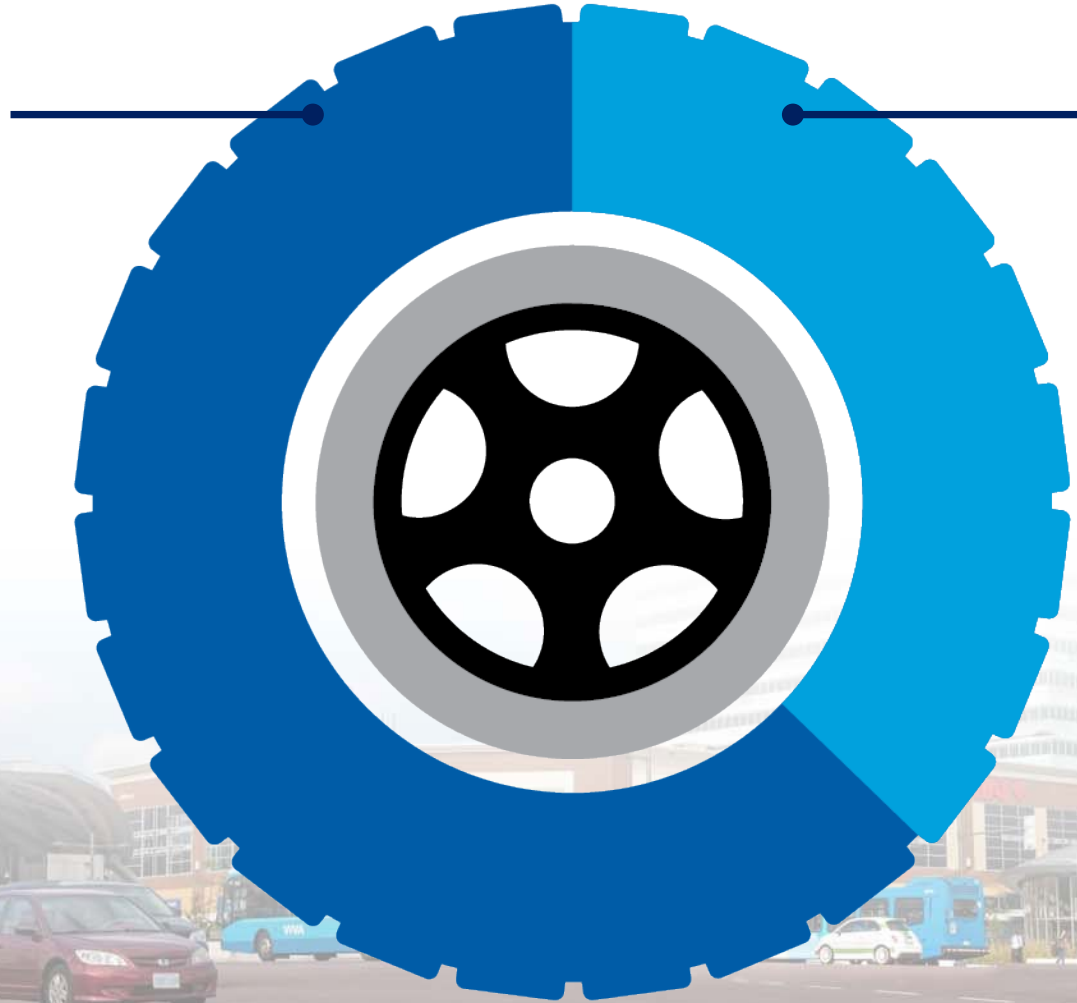


\$282M

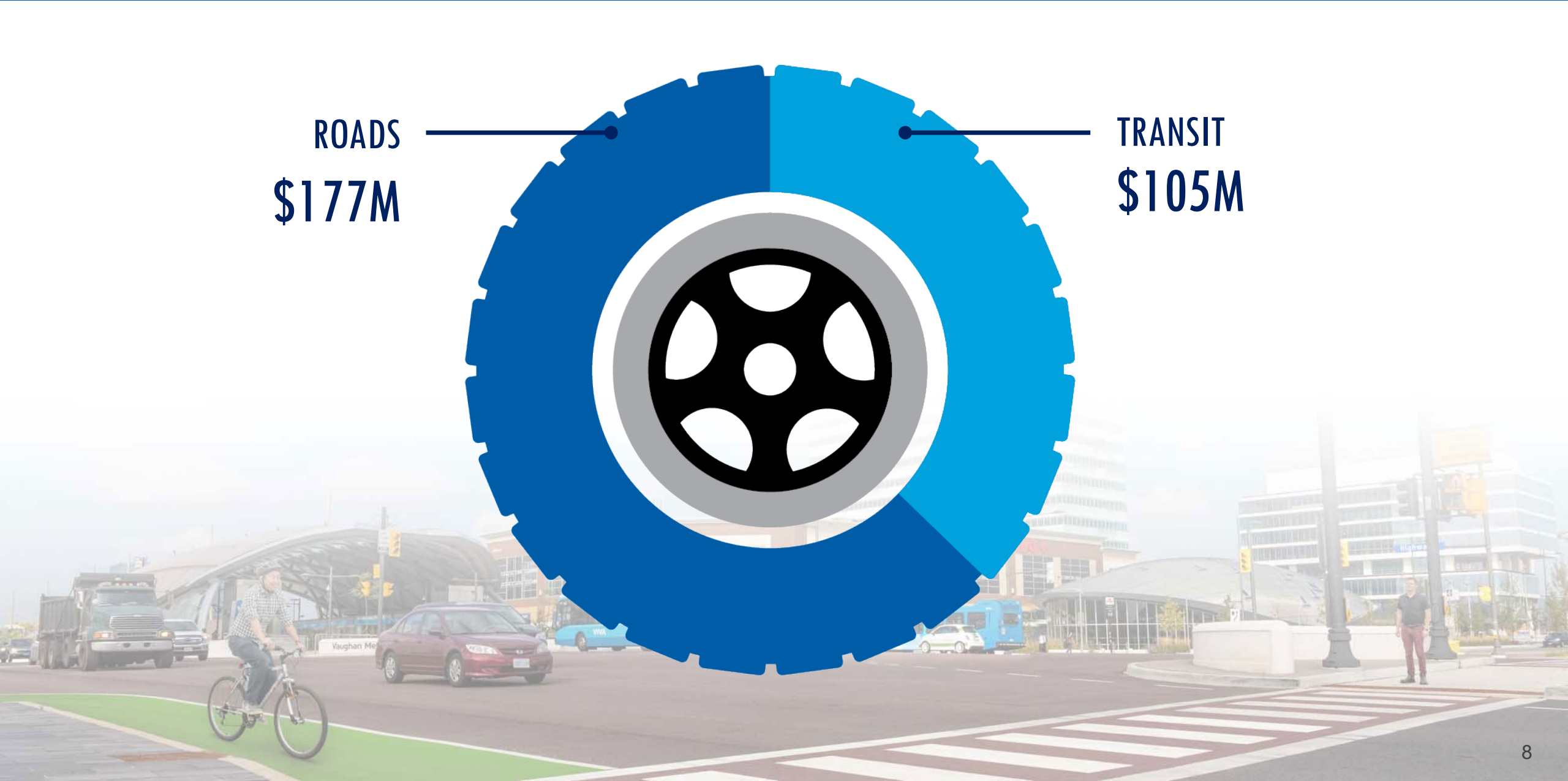
2022 ACCOMPLISHMENTS

2022 ACCOMPLISHMENTS

ROADS
\$177M

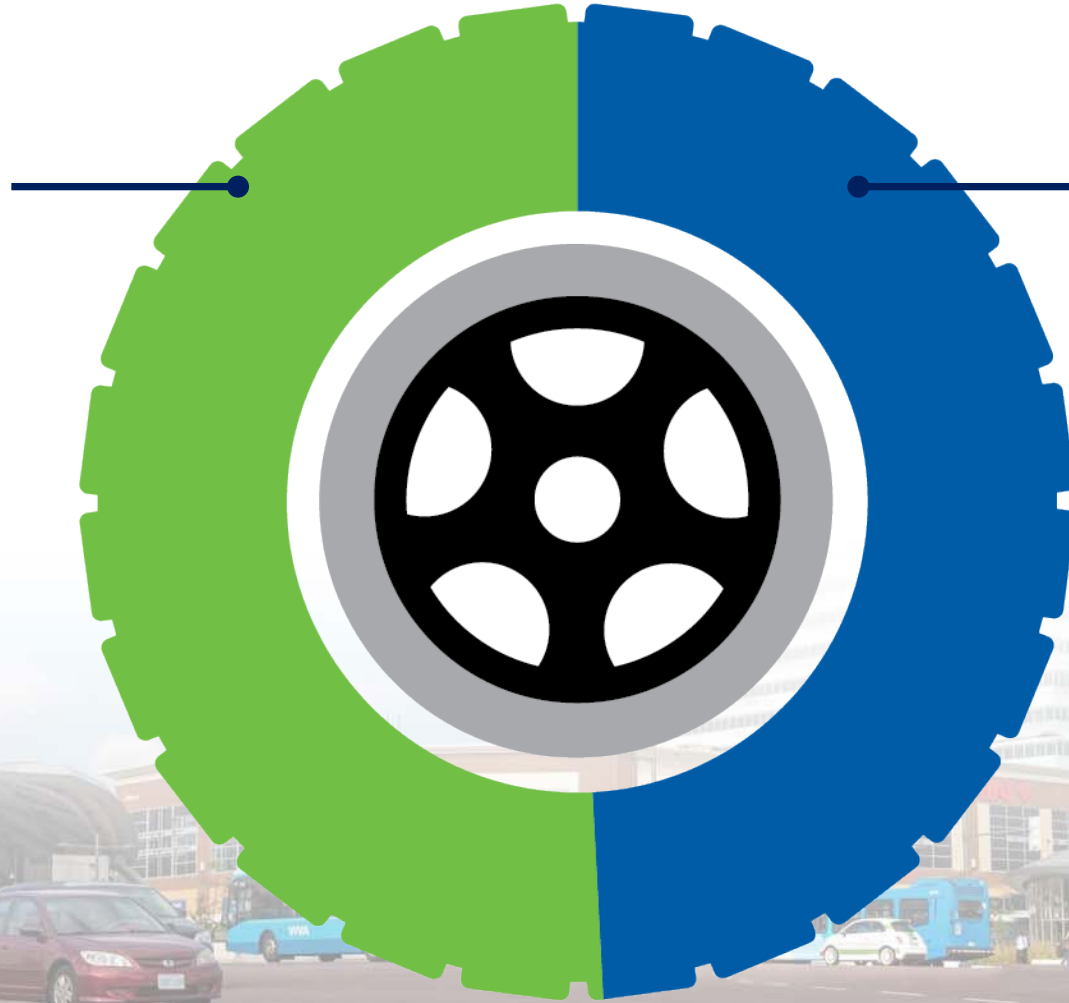


TRANSIT
\$105M

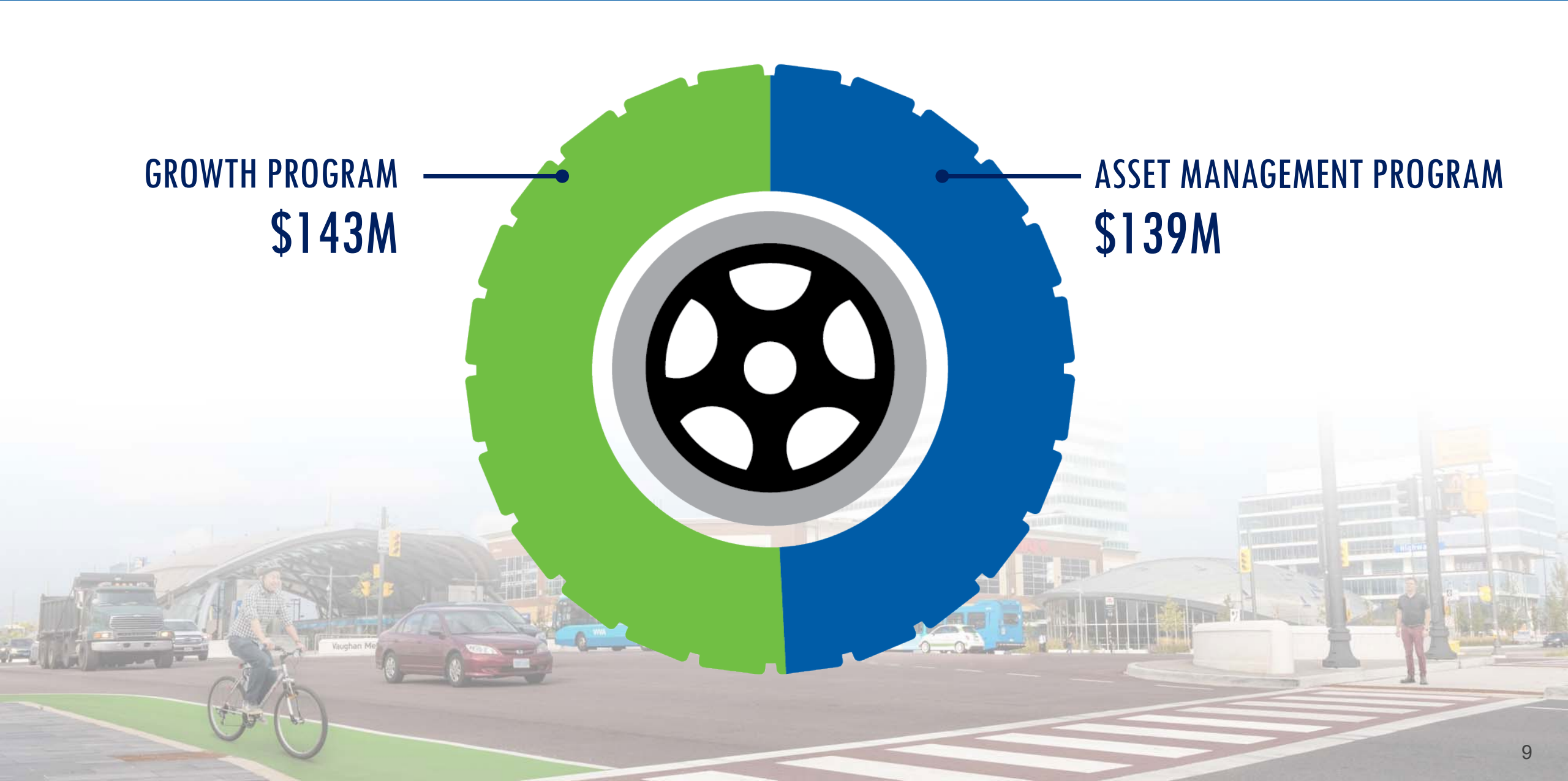


2022 ACCOMPLISHMENTS

GROWTH PROGRAM
\$143M



ASSET MANAGEMENT PROGRAM
\$139M



HIGHWAY 27 CP RAIL BRIDGE REPLACEMENT

\$ \$32.2M

COMPLETE

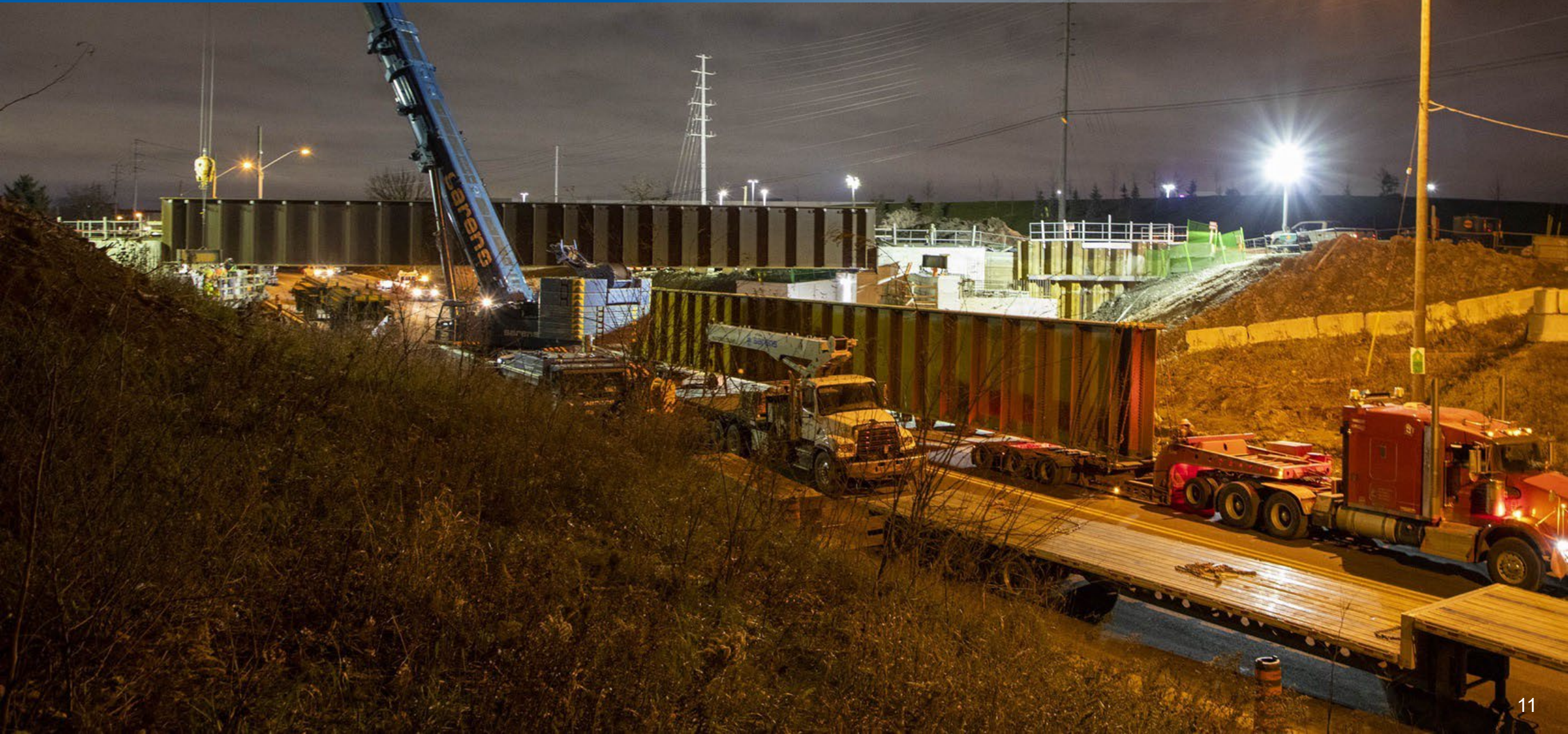
South of Rutherford Road



Original 83-year-old CP Rail Bridge, before construction

DURING CONSTRUCTION

Installation of the new CP Rail bridges on Highway 27



DURING CONSTRUCTION

New twin rail bridges



AFTER

New Highway 27 CP Rail bridges



AFTER

New sidewalk for pedestrian access under Highway 27 CP Rail bridges



AFTER

Artwork featuring poetry by E. Pauline Johnson under the Highway 27 CP Rail bridges



GRADE SEPARATION AT RUTHERFORD ROAD

\$20.2M
*Region's portion

COMPLETE

Westburne Drive and Peter Rupert Avenue
(In partnership with Metrolinx)



Road widening from four to six lanes and new grade separation

AFTER

Grade separation, widened road and new rail and pedestrian bridge on Rutherford Road



ROAD REHABILITATION AND RESURFACING

Rehabilitated and resurfaced **256** lane-kilometres of roads throughout the Region

 \$39.2M



Paving on Islington Avenue between Highway 7 and Langstaff Road, City of Vaughan

STRUCTURE REHABILITATION AND REPLACEMENT

Rehabilitated **six** and replaced **one** structure throughout the Region

\$ \$14.2M



Lloydtown-Aurora Road culvert east of Jane Street, during construction





Before culvert replacement

Lloydtown-Aurora Road culvert east of Jane Street, after construction

INTERSECTION MODERNIZATION

Improved **40** locations throughout the Region

\$ **\$5.0M***

* Does not include the cost of 25 intersections improved in conjunction with road rehabilitation projects



Kennedy Road and The Bridle Trail, City of Markham

TRANSIT TERMINAL, SHELTERS, CONCRETE PLATFORMS AND BUS STOPS

Installed **84** concrete pads, **37** conventional shelters and rehabilitated transit terminals throughout the Region

\$ \$3.5M



Bus shelter on Leslie Street at West Beaver Creek Road, City of Richmond Hill

FLEET REPLACEMENT AND ASSET LIFE EXTENSION

Purchased **61** conventional buses and rehabilitated **40** buses to extend asset life

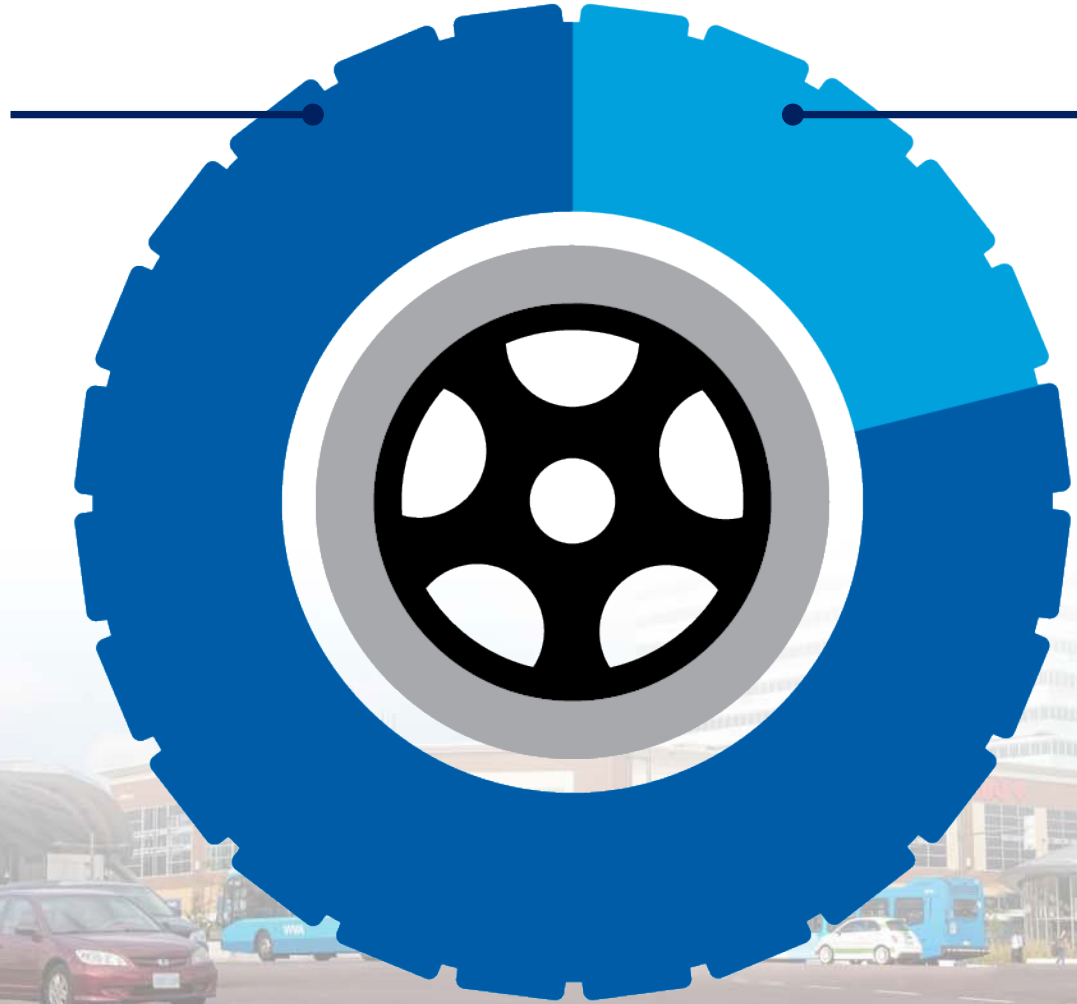
\$ \$67.5M



2023 NEW AND CONTINUING PROJECTS

\$377 MILLION TO BE INVESTED IN ROADS AND TRANSIT IN 2023

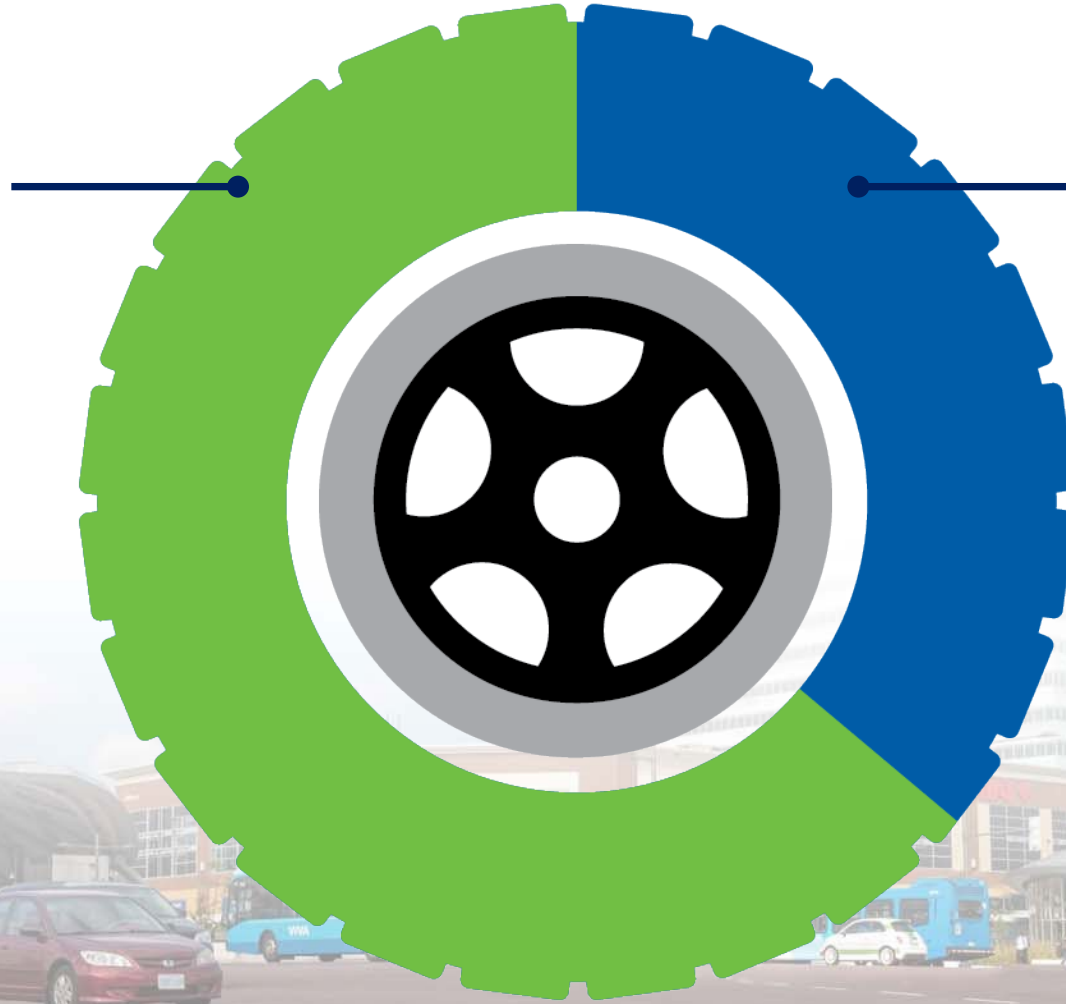
ROADS
\$297M



TRANSIT
\$80M

\$377 MILLION TO BE INVESTED IN ROADS AND TRANSIT IN 2023

GROWTH PROGRAM
\$241M





ASSET MANAGEMENT PROGRAM
\$136M






2023 TRANSPORTATION SERVICES CONSTRUCTION MAP

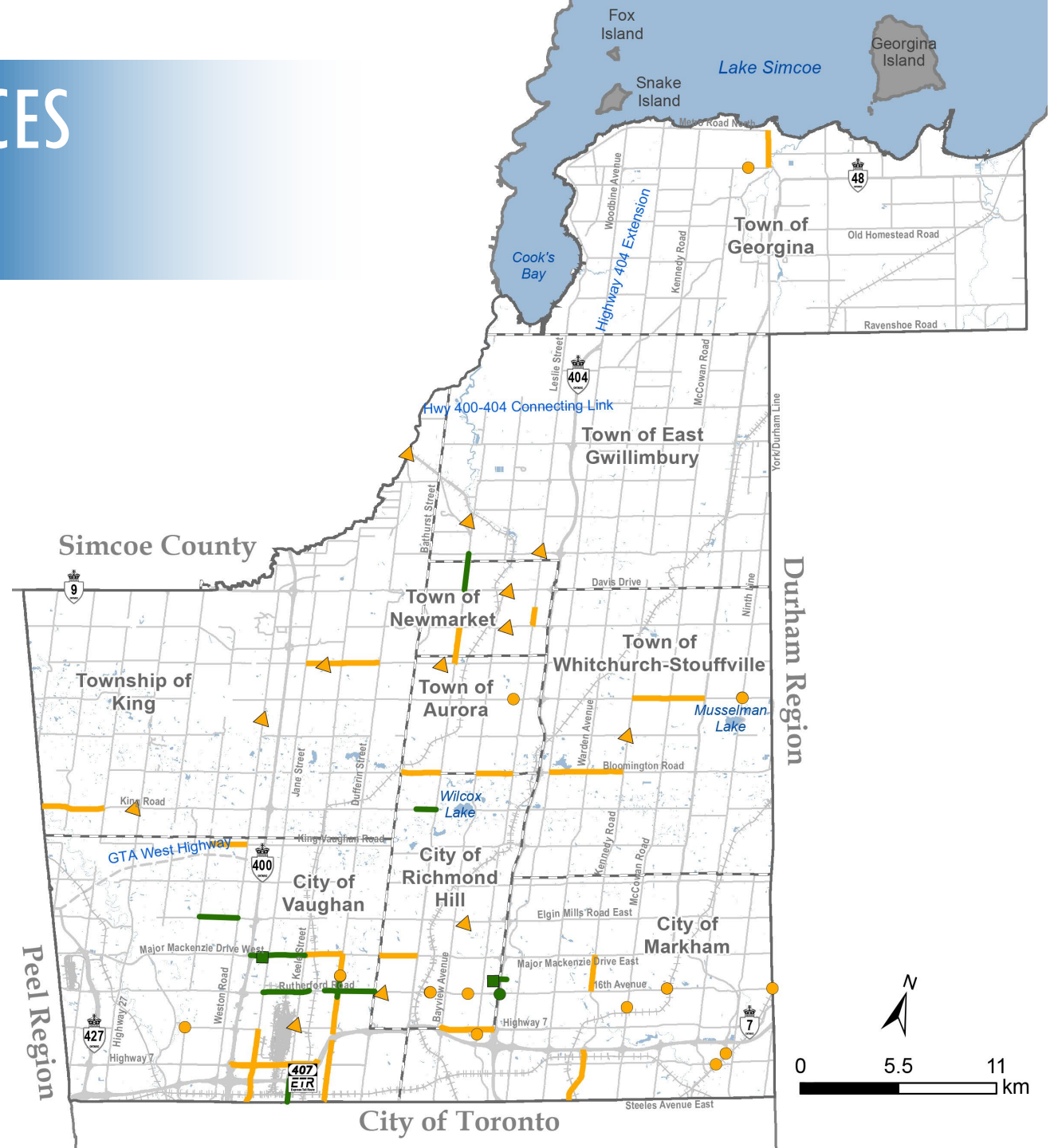
Road Project Category

-  Construction (Growth)
-  Construction (Asset Management)

Project Type

-  Bridge/Culvert/Retaining Wall
-  Interchange/Intersection*
-  Transit Facility

* Intersection improvements completed in conjunction with road rehabilitation are not shown



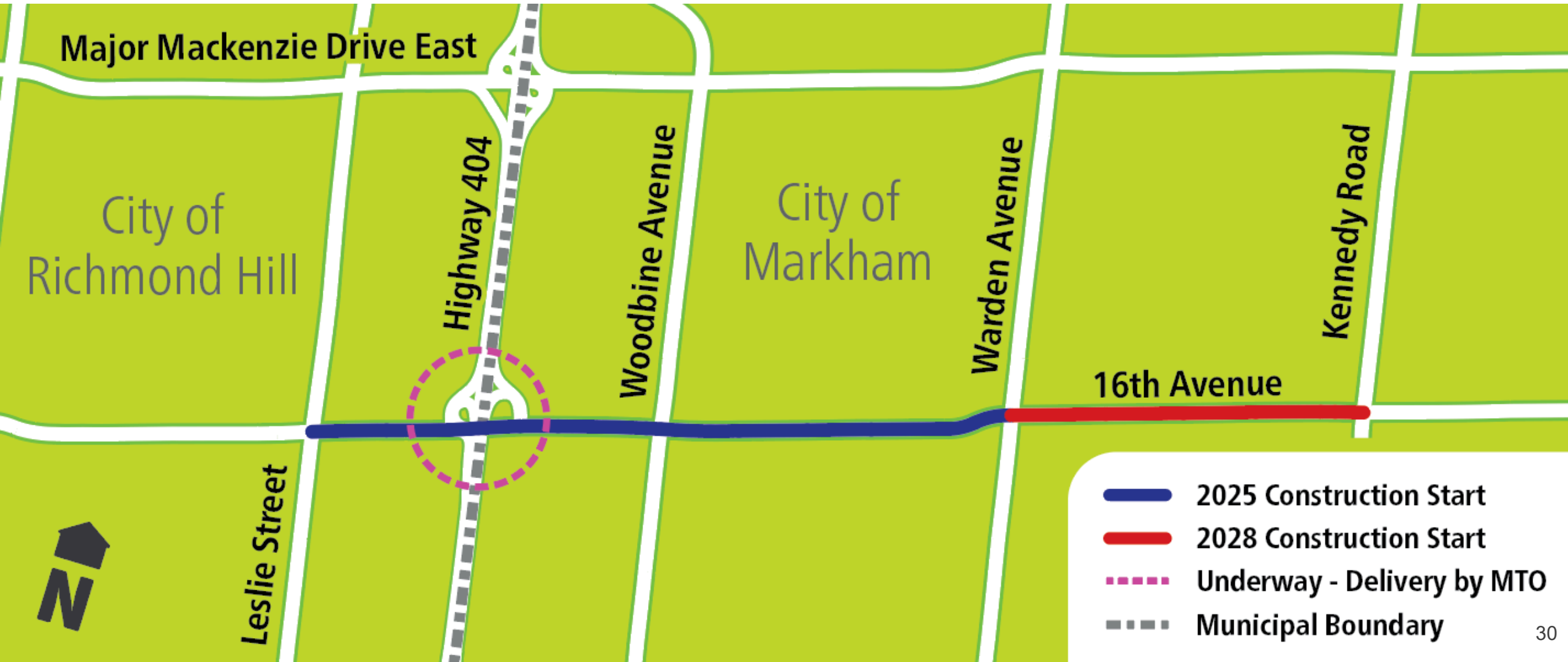






\$241M

CONSTRUCTION

2023 GROWTH PROGRAM

16TH AVENUE



-  2025 Construction Start
-  2028 Construction Start
-  Underway - Delivery by MTO
-  Municipal Boundary

16TH AVENUE, HIGHWAY 404 INTERCHANGE

COMPLETION
2023

Delivered by the Ministry of Transportation (MTO)



16th Avenue, Highway 404 interchange, looking north-east from Leslie Street



Construction of new, widened Highway 404 bridges over 16th Avenue

KEELE STREET



\$43.6M



COMPLETION
2024

Steeles Avenue to Snidercroft Road/Great Gulf Drive (south of Highway 407 ETR)



Reconstructing and widening to six lanes, including a new, wider bridge over CN Rail tracks



Watermain installation on Keele Street



New wider bridge under construction over CN Rail tracks



Preparation for concrete pour on east section of bridge



Demolition of west section of bridge



Traffic moved to new bridge deck on the east side of the road to allow for construction on the new bridge deck on the west side

KING ROAD

\$ \$32.2M

TENDERED
Q1 2023

Bathurst Street to Yonge Street



Reconstruction of existing four-lane road, replacing and adding sidewalks, watermain and culvert replacement



King Road, looking west from Yonge Street, City of Richmond Hill



Culvert in need of replacement on King Road west of Yonge Street, City of Richmond Hill

MAJOR MACKENZIE DRIVE

Highway 400 to Keele Street



MAJOR MACKENZIE DRIVE

\$37.6M



COMPLETION
2023

Highway 400 to Jane Street



Road widening from four to six lanes, reconfiguring Highway 400 interchange, including adjusting and reconfiguring the on/off ramps and installing a new multi-use path



Widening of the bridge on Major Mackenzie Drive over Highway 400 to accommodate a new multi-use path



Widening of Major Mackenzie Drive over Highway 400 interchange under construction



Pedestrian underpass from YRT Terminal to elevator pavilion and Cortellucci Vaughan Hospital

MAJOR MACKENZIE DRIVE WEST TERMINAL

\$ \$17.3M



COMPLETION
2023

Opposite Cortellucci Vaughan Hospital



MAJOR MACKENZIE DRIVE

\$12.2M



COMPLETION
2024

Jane Street to Keele Street



Road improvements, including the installation of a centre turn-lane and multi-use path

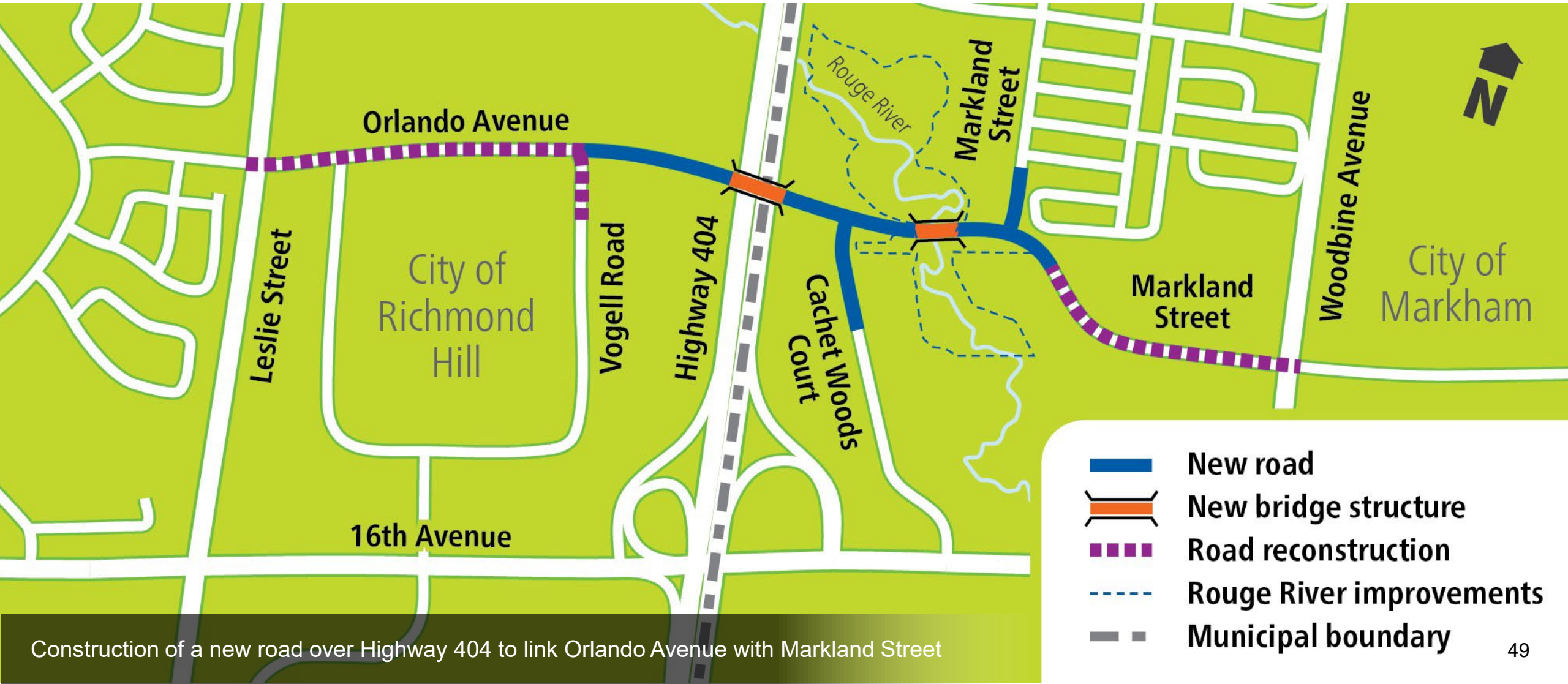
HIGHWAY 404 ROAD CROSSING

\$ \$119.7M



TENDERING
Q2 2023

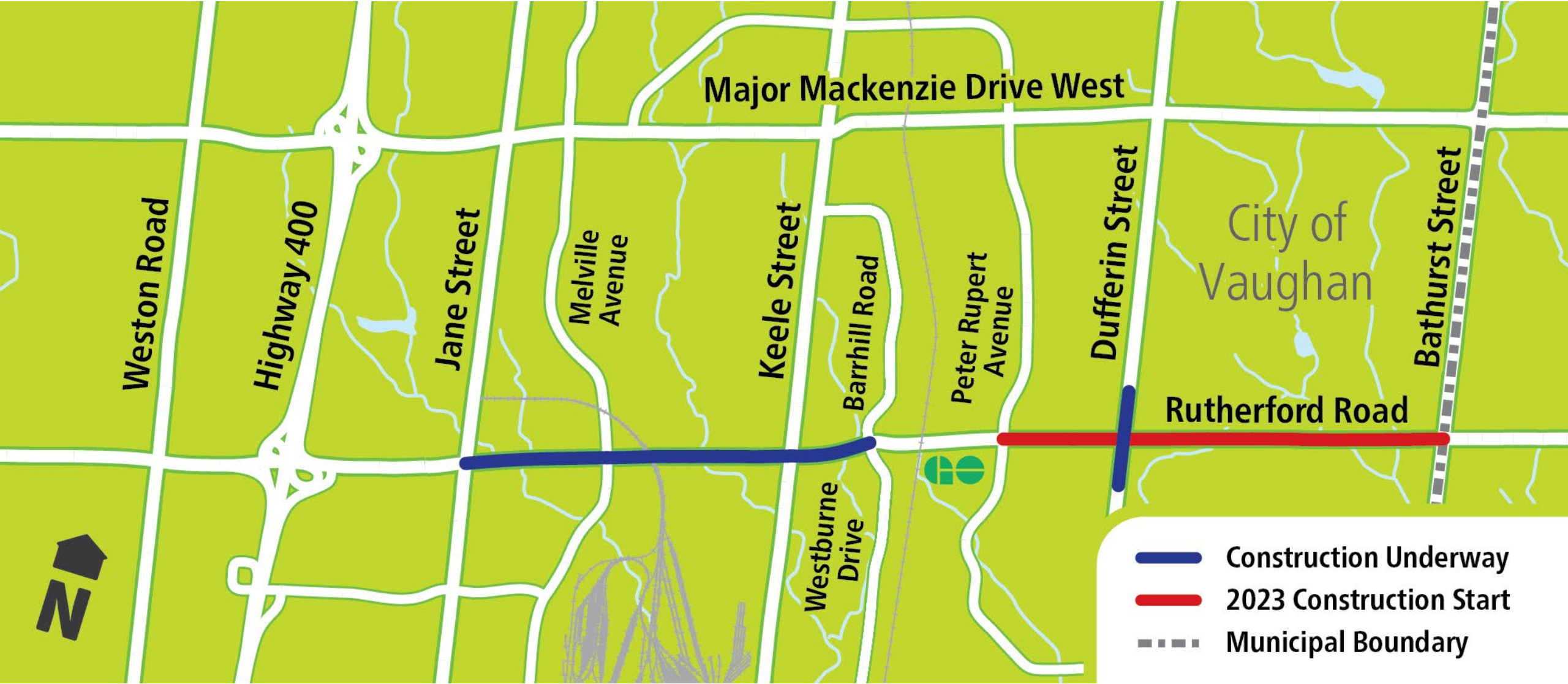
North of 16th Avenue






Construction of a new road over Highway 404 to link Orlando Avenue with Markland Street

RUTHERFORD ROAD

Jane Street to Bathurst Street



-  Construction Underway
-  2023 Construction Start
-  Municipal Boundary

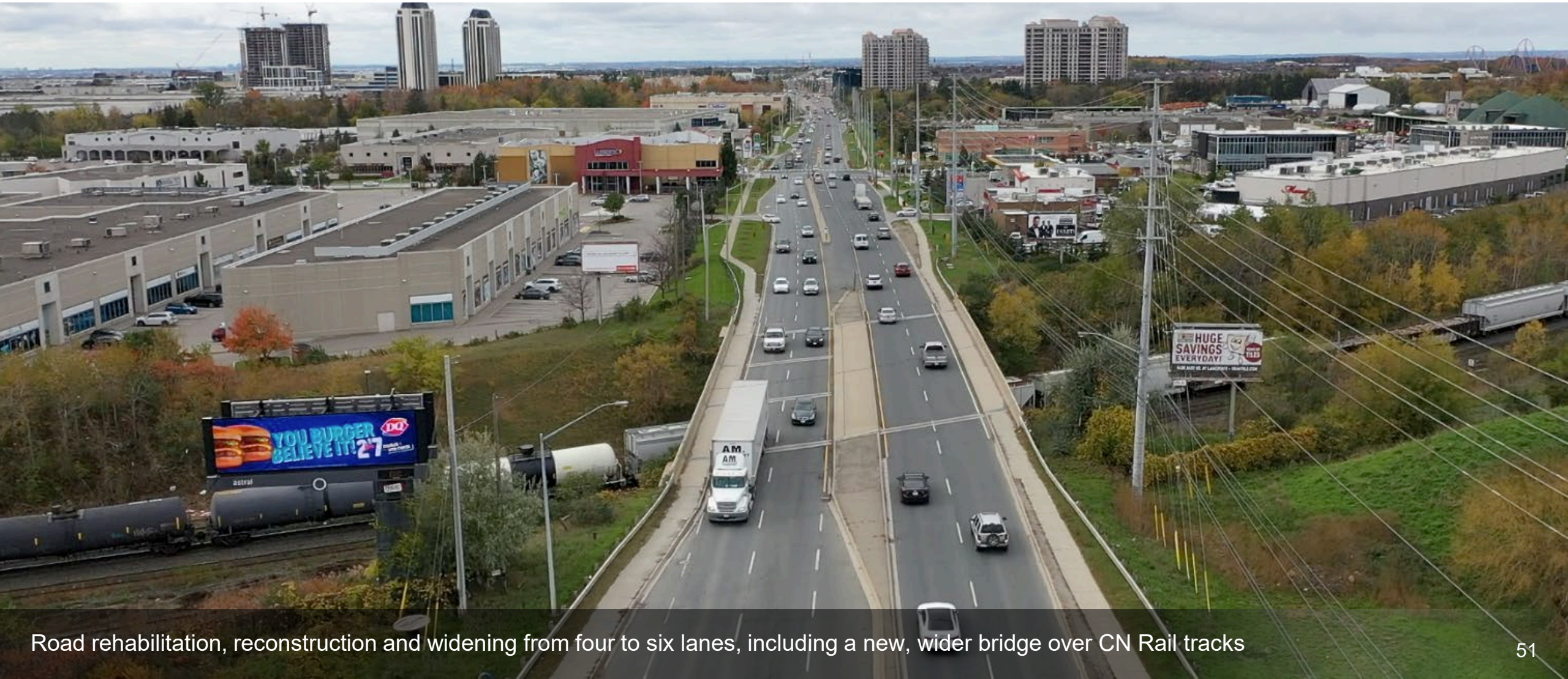
RUTHERFORD ROAD

\$67.3M



COMPLETION
2024

Highway 400 to Westburne Drive



Road rehabilitation, reconstruction and widening from four to six lanes, including a new, wider bridge over CN Rail tracks



New larger culverts being installed on Rutherford Road, east of Jane Street





New larger culverts installed on Rutherford Road, east of Jane Street



Widening the existing bridge over CN Rail tracks into the CN MacMillan yard



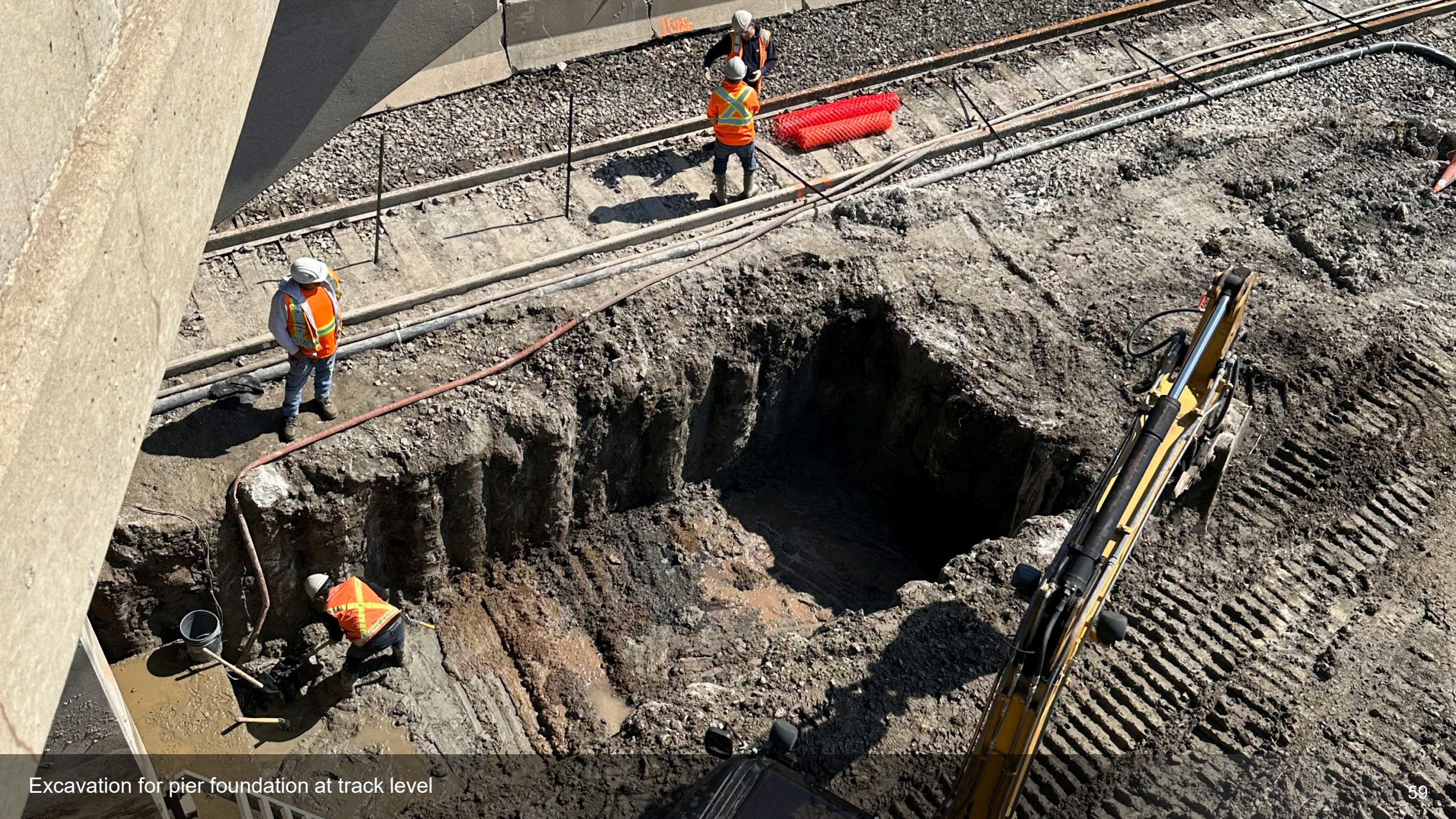
CN track realignment to allow for bridge widening on Rutherford Road



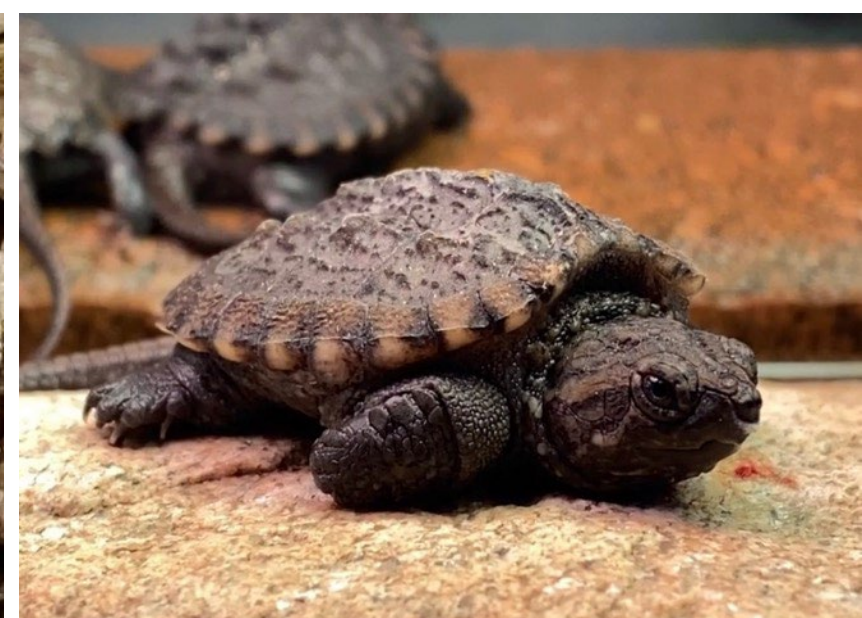
Working at track level to install caissons



Working at track level to install caissons



Excavation for pier foundation at track level



Protection and rescue of snapping turtle eggs on active construction site and hatching at Ontario Turtle Conservation Centre, Peterborough



DUFFERIN STREET AND RUTHERFORD ROAD

\$64.5M



COMPLETION
2025

Dufferin Street, Apple Blossom Drive to Marc Santi Boulevard
Rutherford Road, Peter Rupert Avenue to Bathurst Street



Road widening from four to six lanes, including installing a multi-use path, sidewalk, illumination and streetscaping



Preparing for paving on Dufferin Street, north of Rutherford Road, City of Vaughan

TESTON ROAD

\$ \$49.3M

COMPLETION
2024

Pine Valley Drive to Weston Road





Road widening from two to four lanes, including a jog elimination and new traffic signals at Pine Valley Drive



Existing culvert at Purpleville Creek



A 45-metre span bridge will be constructed over Purpleville Creek

YONGE STREET



\$94.2M



TENDERED
Q1 2023

Davis Drive to Green Lane



Before



After - Rendering

55 ORLANDO AVENUE

\$ \$66.2M

COMPLETION
2023

Bus Operations, Maintenance and Storage Facility Expansion



Expansion of facility to accommodate an additional 125 buses

ELECTRIC BUS INFRASTRUCTURE



\$3.8M



COMPLETION
2023



Zero Emission Transit Fund

Canada



Infrastructure
Canada

CIB  BIC



\$137M

CONSTRUCTION

2023 ASSET MANAGEMENT PROGRAM

ROAD REHABILITATION AND RESURFACING

Rehabilitate and resurface **275** lane-kilometres throughout the Region

\$ \$45.2M



Paving on Ninth Line between Highway 407 ETR and 16th Avenue, City of Markham

STRUCTURE REHABILITATION AND REPLACEMENT

Rehabilitate three structures and replace six structures throughout the Region

\$ \$19.8M



Keele Street culvert replacement, north of Langstaff Road, City of Vaughan



Yonge Street retaining wall installation, south of Holland Landing Road, Town of East Gwillimbury



Yonge Street retaining wall installation, south of Holland Landing Road, Town of East Gwillimbury

INTERSECTION MODERNIZATION

Improve 42 intersections throughout the Region

\$ \$5.0M

STREET LIGHTS

TRAFFIC CAMERA



PEDESTRIAN
PUSH BUTTON



CROSSRIDES
PAVEMENT
MARKINGS
FOR CYCLISTS



OPTICOM



POWER
SUPPLY



TRAFFIC
CONTROL
SIGNALS



MAST ARM
STREET
NAME SIGN



PEDESTRIAN
SIGNAL



LADDER
CROSSWALK
MARKINGS



DUAL MODE
ANTENNA



MEDIAN AND
LEFT-TURN
LANE



VEHICLE DETECTOR
LOOPS (NOT VISIBLE)



CONTROLLER
CABINET



TACTILE
PLATES



TRANSIT TERMINAL, SHELTERS, CONCRETE PLATFORMS AND BUS STOPS

Install **84** concrete pads, **34** conventional shelters throughout the Region and rehabilitate **2** YRT transit terminals

\$ \$4.8M



Bus Shelter on Teston Road at Jane Street, City of Vaughan

FLEET REPLACEMENT AND ASSET LIFE EXTENSION

Purchase of **38** buses

Rehabilitate **33** buses to extend asset life through mechanical refreshes and midlife overhauls

 \$35.9M



Rehabilitation of a Viva and Conventional Bus

PRE-CONSTRUCTION






2023-2032 CAPITAL PROGRAM

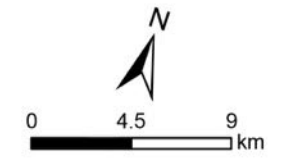
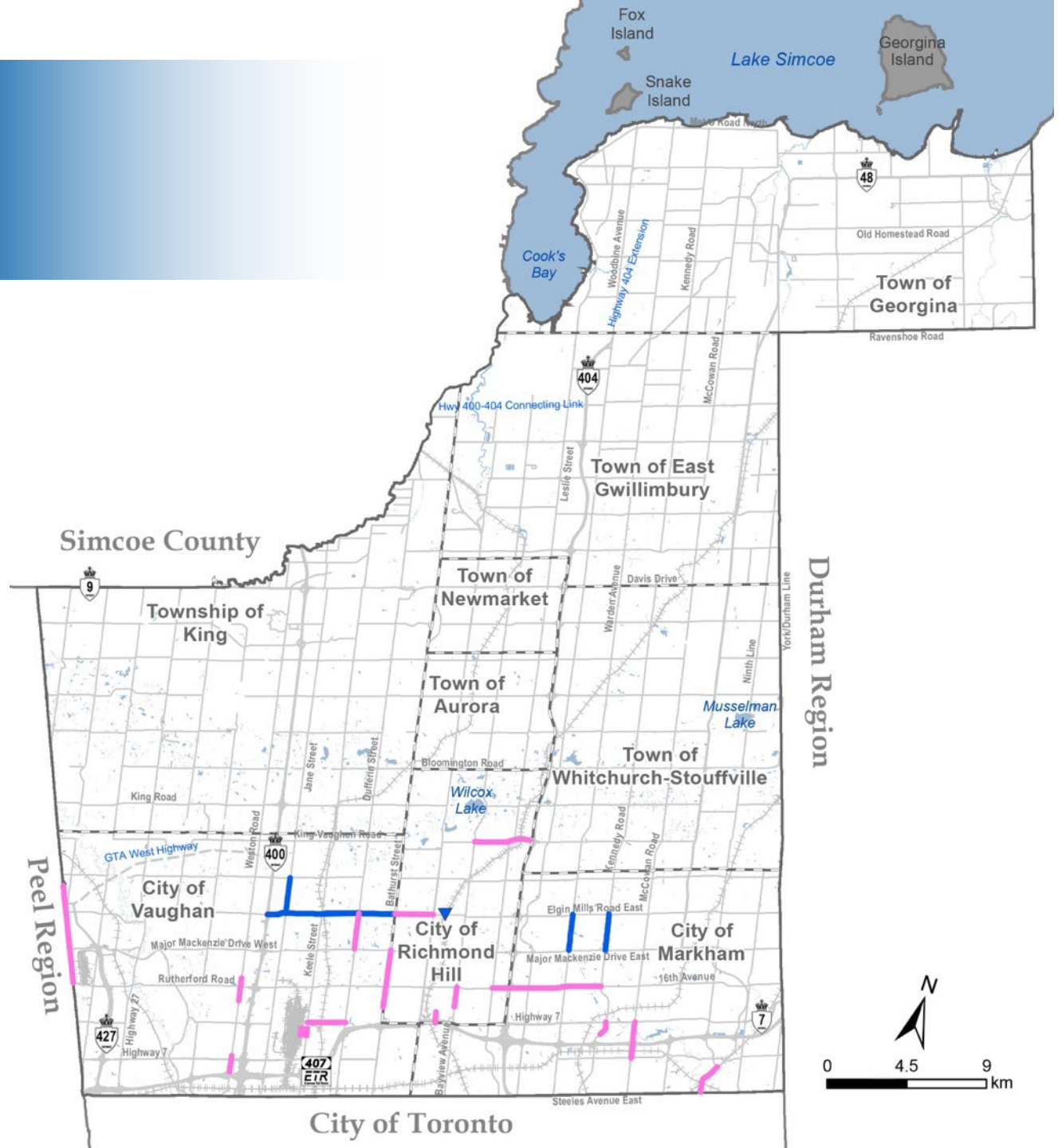
GROWTH PROJECT PHASES AND TIMELINES



Growth projects on average take eight to 10 years from start to finish

2023 GROWTH PROGRAM PRE-CONSTRUCTION MAP

Road Project Category	
	Detailed Design
	Environmental Assessment Study
Project Type	
	Bridge/Structure/Retaining Wall
	Intersection
	Facility



2023 5-YEAR ASSET MANAGEMENT PROGRAM

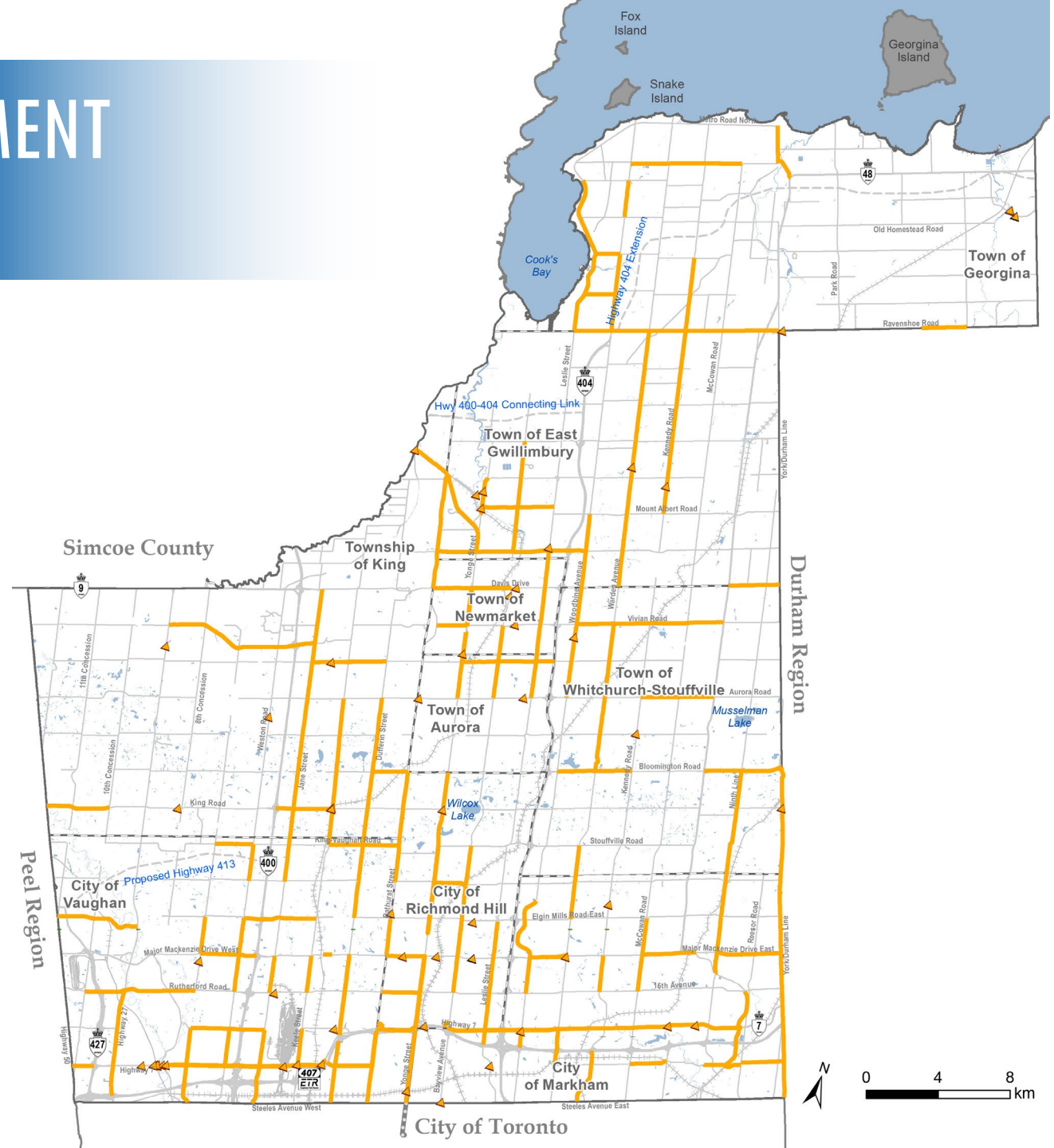
Program Type



Asset Management (2023-2027)

BASE MAP INFORMATION

- | | |
|--|---|
| Structure | Regional Road |
| Interchange/Intersection | Railway |
| Yonge Street North Subway Extension (YNSE) | Chippewas of Georgina Island First Nation |
| Provincial Freeway | Water Bodies |
| Provincial Highway | |



PLANNING FOR ALL MODES OF TRAVEL



Bike lanes on Prospect Street, Town of Newmarket

KEY MESSAGES

1. Record investment in Transportation Services during this term of Council
2. Council-endorsed Capital Program that balances growth and asset management needs
3. Construction planned at over 90 locations this year
4. Actively preparing projects for future construction
5. Building a network to service the needs of York Region's 1.2 million residents and businesses



Major Mackenzie Drive and Highway 27, City of Vaughan

QUESTIONS/DISCUSSION

FOR MORE INFORMATION

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