



YORK REGION VISION ZERO TRAVELLER SAFETY PLAN

Presented to
Markham Development
Services Committee

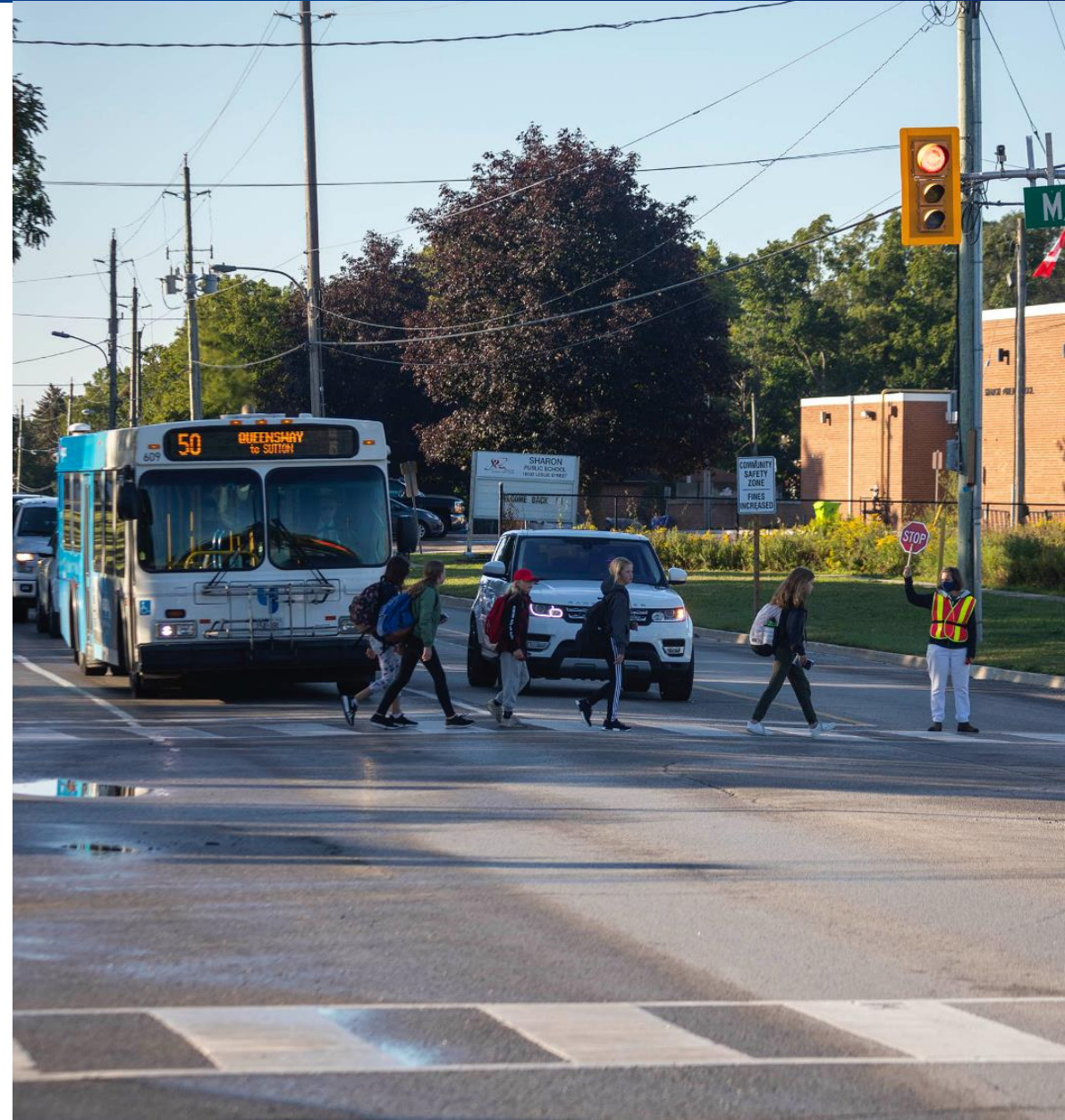
Presented on
April 9, 2024

Presented by
Joseph Petrungaro, Director, Roads, Traffic and Fleet
Nelson Costa, Manager, Traffic Safety and Signal Operations



Agenda

1. Vision Zero and Safe System Approach
2. York Regional Police Road Safety Strategy
3. Current Safety Performance
4. Emphasis Areas and Countermeasure
5. Financial Implications



Ambitious Target Requires Commitment From Partners And All Travellers

- 94% of all collisions are a result of driver error in actions and decisions
- Collisions are increasing and about one in four are severe; more needs to be done
- Plan identifies emphasis areas and recommends countermeasures to help reduce risk



**Aspirational
Vision**

An end to severe collisions
in York Region



Target

Reduce severe collisions by
10% within five years

Vision Zero Experience Around The World

Reduction in traffic deaths since implemented in Sweden in the 1990s



Sweden

70%

Since 1994



New York City

30%

Since 2014



City of Edmonton

50%

Since 2015

Safe System Approach Provides Comprehensive Framework

- Framework for achieving Vision Zero
- Aims to transform traditional road safety plans to proactively focus on preventing and eliminating severe collisions
- Special regard for the most vulnerable road users



Project Steering Committee



- York Region Accessible Advisory Committee
- Cycling and Pedestrian Advisory Committee
- Cycle Newmarket
- Neighbouring regions

York Regional Police Road Safety Strategy

- Alignment with York Region Vision Zero Traveller Safety Plan
- Road safety strategy goal is to reduce severe collisions
- Top five road safety priorities
 - Speeding
 - Aggressive Driving
 - Distracted Driving
 - Impaired Driving
 - Pedestrian Safety



18,245
Speeding



1,885
Impaired Driving



1,087
Stunt Driving
(Over 40km/h)



729
Distracted Driving

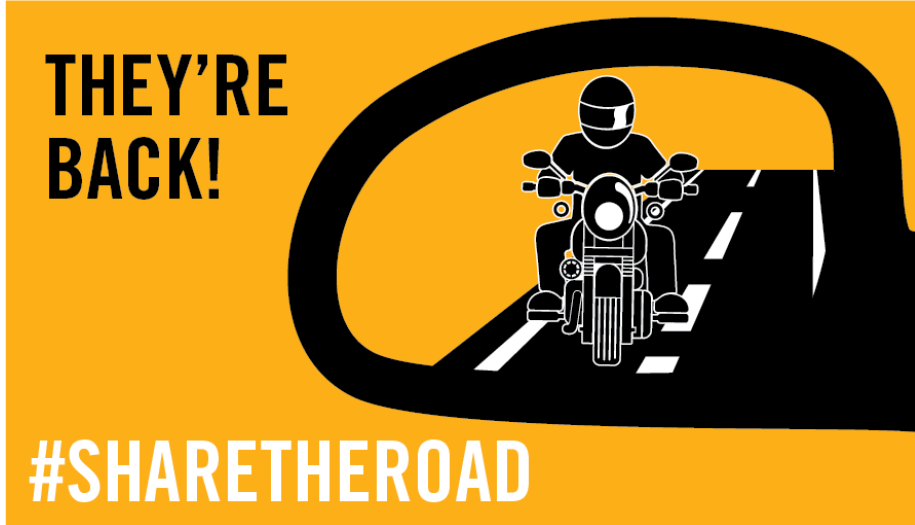


431
Seatbelt



117
Move Over

Partnering Safety Campaigns To Change Behaviours



Implemented Safety Measures Are Showing Positive Results



Speed Monitoring Boards

Increase compliance by about 10%



Roundabouts

Reduce injuries by more than 80%



Automated Speed Enforcement

Reduce operating speeds by 10 km/h

Red Light Cameras

Reduce right angle collisions by more than 30%



Pedestrian and Cycling Measures

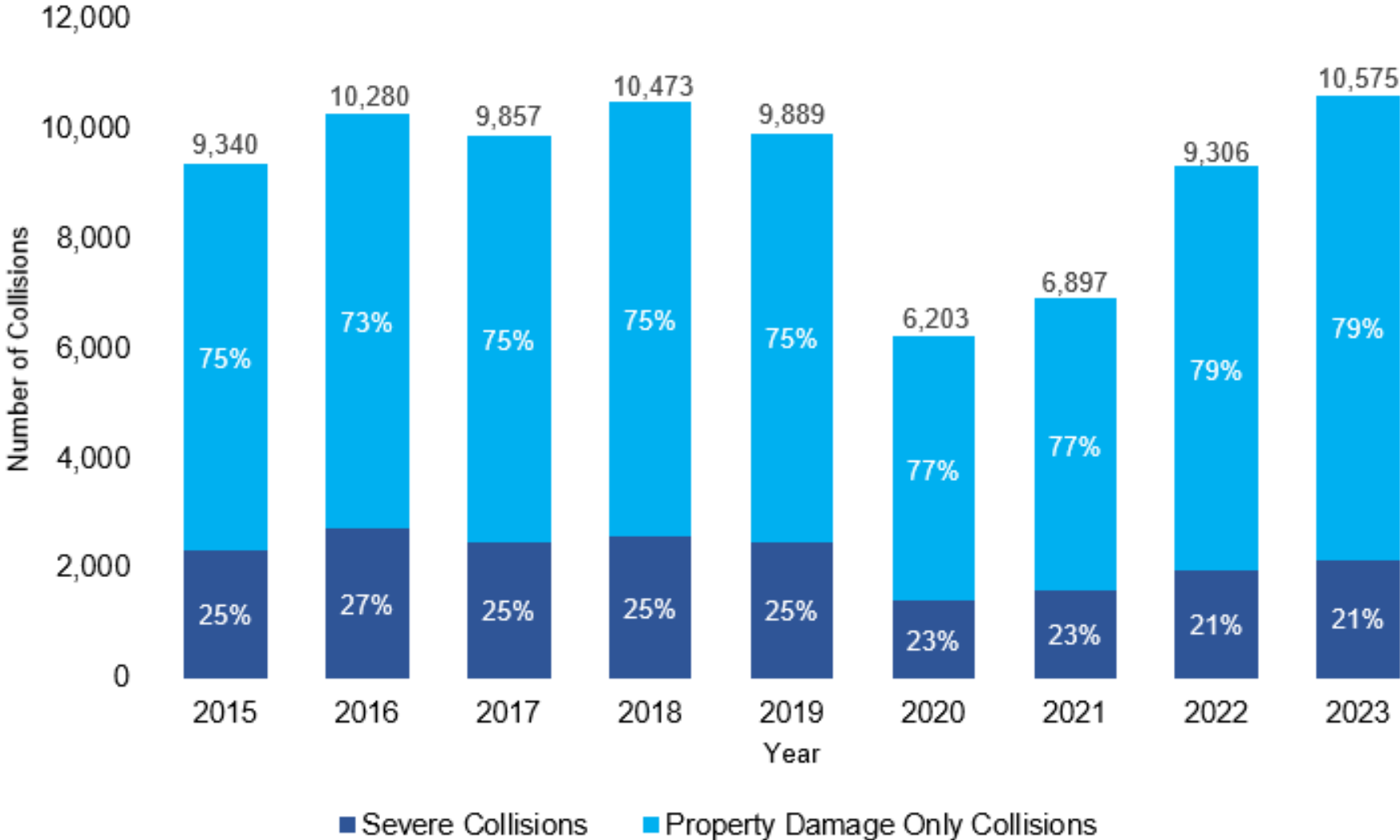
Reduce turning movement collisions by 75%



School Zone Speed Reductions

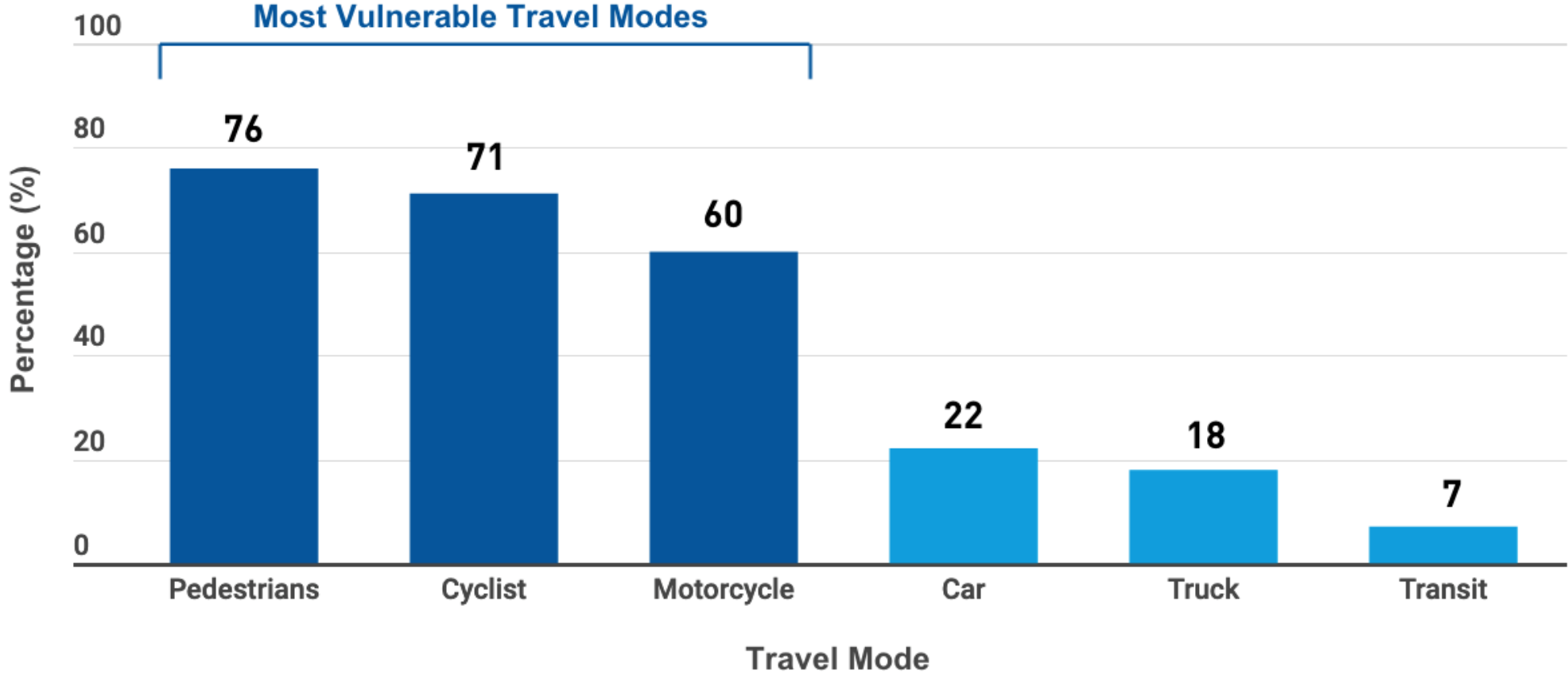
Reduce collisions by about 10%

Collisions Are Increasing And One In Four Are Severe



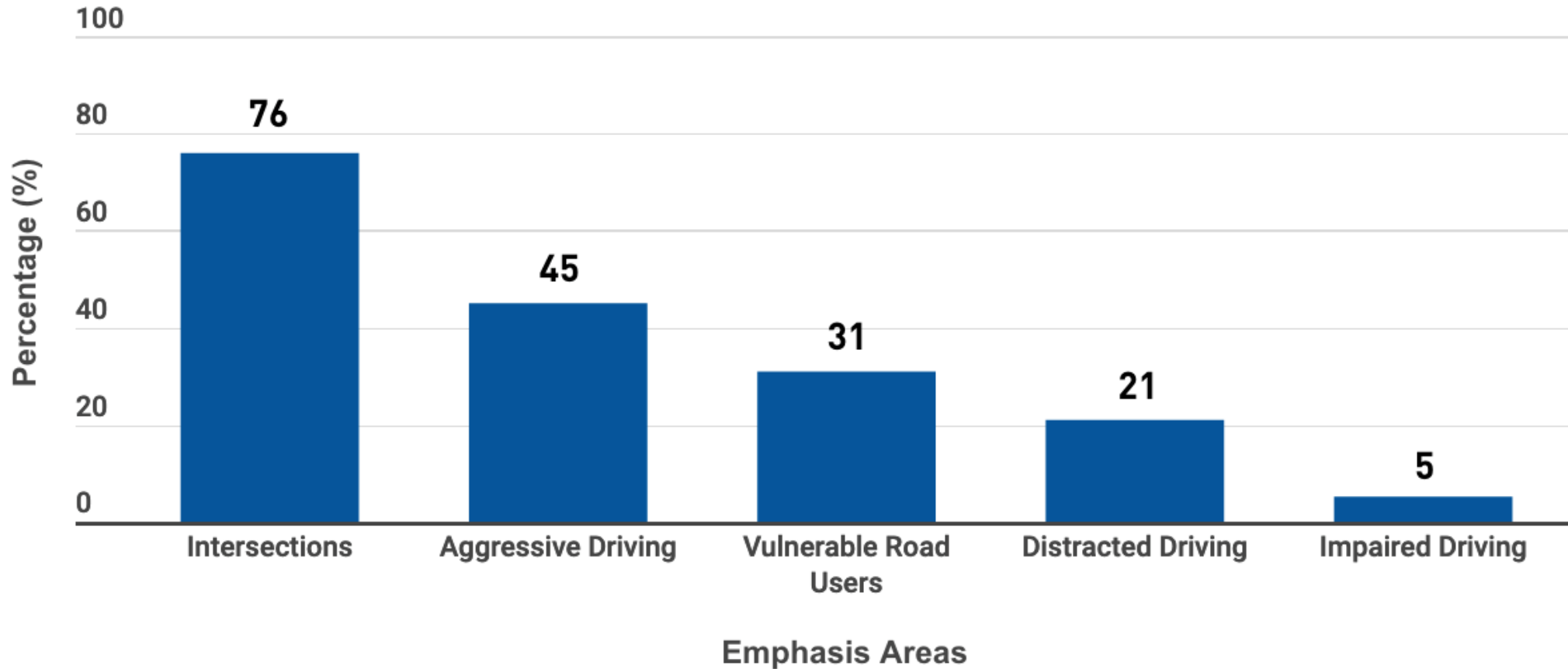
Collisions in York Region (2015 to 2023)

Vulnerable Travellers Sustain Highest Percentage Of Injury Or Death



Severe Collisions in York Region by Travel Mode (2015 to 2023)

Emphasis Areas To Improve Safety



Severe Collisions in York Region by Emphasis Area (2015 to 2019)

Countermeasures To Reduce Severe Collisions



Engineering



Enforcement



Education

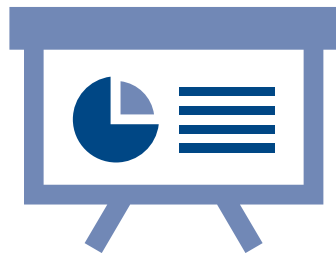


Engagement

Countermeasures were selected based on:



Effectiveness



Feasibility

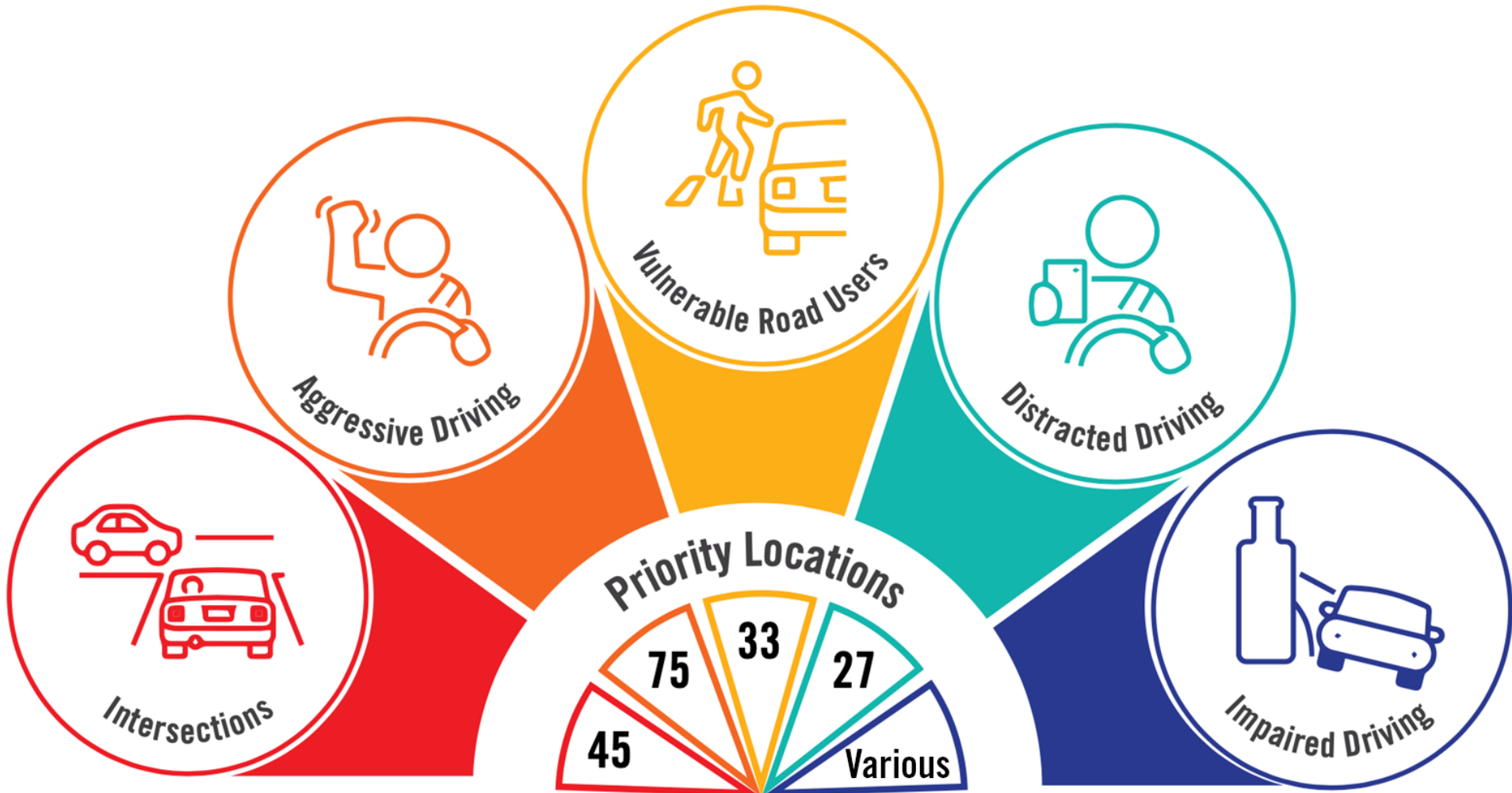


Time frame

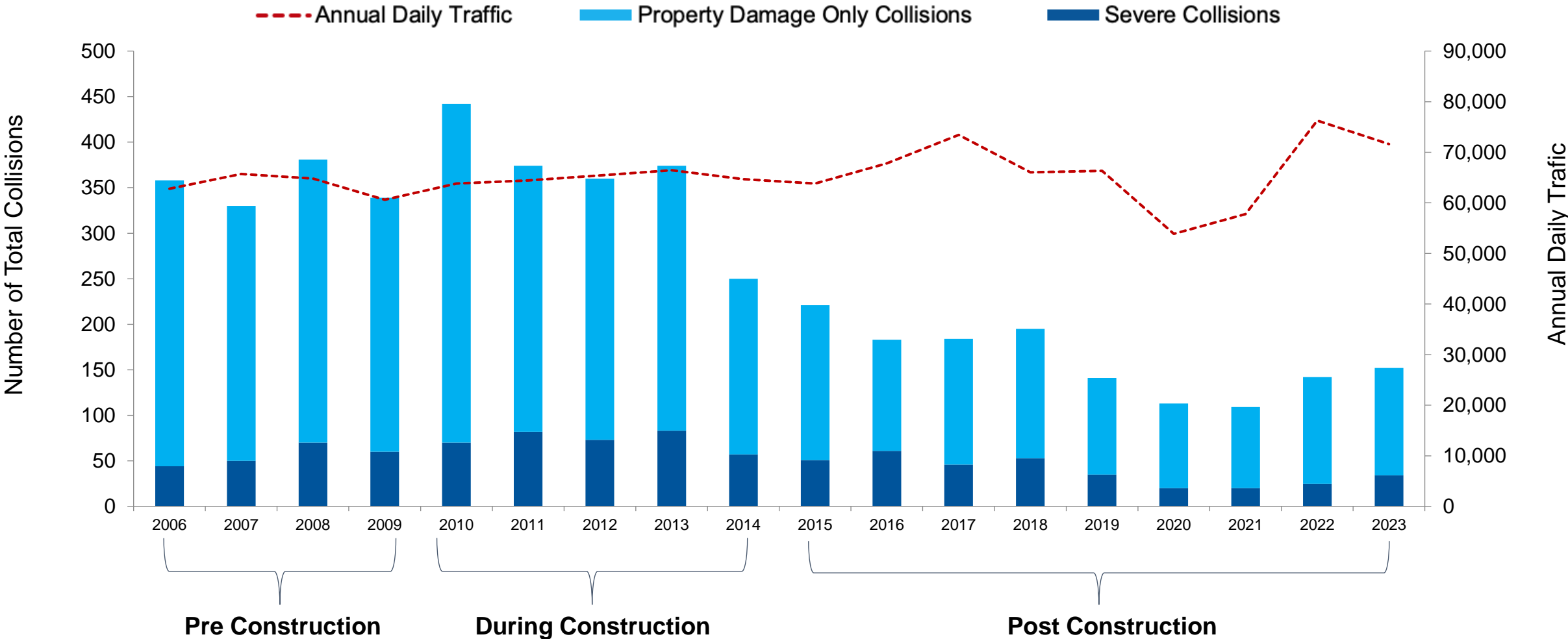


Collaboration

Emphasis Areas



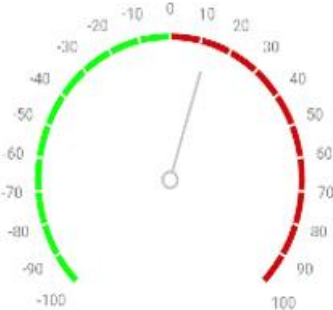
Collisions Have Decreased By 55% Since Completion Of Bus Rapidway



Collisions Along Highway 7 East (2006 to 2023)

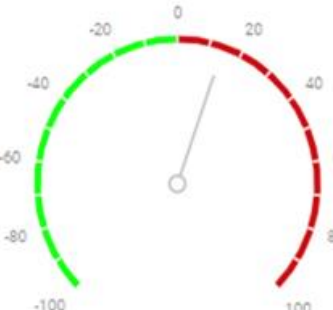
Web-based Data Warehouse: Vision Zero Dashboard

Intersections



↓ Setback: -13%

Vulnerable Road Users



↓ Setback: -14%



Successful Plan Requires Resources, Evaluation And Monitoring

- Progress and results reported to Council Annually
- Estimated annual budget approximately \$12M
 - 90% integrated in existing capital budgets
 - 10% funded by automated enforcement and red-light camera revenues to manage operating budget pressures
- No additional budget required in 2024
- Future budget may be considered as part of the annual budget process



2024 Safety Projects in the City of Markham

Intersection Improvements

- Enterprise Boulevard and Rouge Valley Drive (new crosswalk)
- Highway 7 and Kennedy Road (east/west fully protected left turn and north/south crosswalk pedestrian head start)
- Highway 7 and Silver Linden Drive (eastbound fully protected left turn)
- Woodbine Avenue and Esna Park Drive/John Street (AODA)

Pavement Marking and Signage Improvements

- 14th Avenue and 11th Concession (oversized stop signs, stop bar relocation, edge line pavement markings)
- Highway 7, from Bayview Avenue to Silver Linden Drive (lane transition pavement markings and signs)
- Leslie Street, from Steeles Avenue to Highway 7 (edge line pavement markings, slow down school zone pavement markings)
- McCowan Road and Southdale Drive (intersection hatch markings)



2024 Automated Speed Enforcement in City of Markham

Mobile Automated Speed Enforcement

April to June: Highway 7 at St. Patrick Catholic Elementary School

Fixed Automated Speed Enforcement

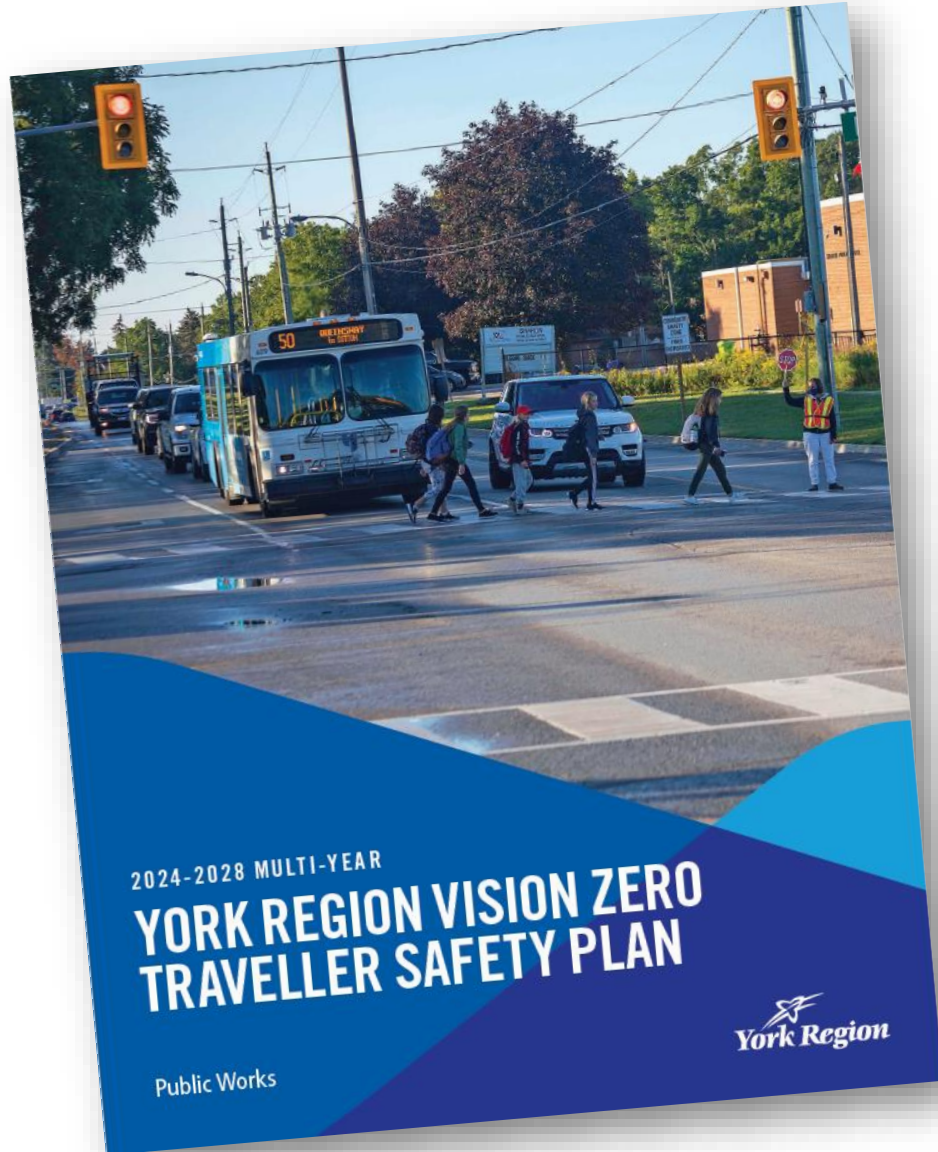
- 14th Avenue at Trillium School
- Bayview Avenue at Thornlea Secondary School
- Leslie Street at St. Robert Catholic High School
- McCowan Road at Markville Secondary School

Red Light Cameras

- 14th Avenue and Box Grove Collector Road – **New**
- 16th Avenue and Bur Oak Avenue – **New**
- Donald Cousens Parkway and Ninth Line – **New**
- Highway 7 and Donald Cousens Parkway – **New**
- Kennedy Road and Castlemore Avenue/The Fairways – **New**
- Leslie Street and Commerce Valley Drive – **New**
- **7 existing Red Light Camera intersections:** 14th Avenue and Birchmount Road; 16th Avenue and Woodbine Avenue; Highway 7 and Red Maple Road; Highway 7 and Yonge Street Ramp; Warden Avenue and 14th Avenue/Alden Road; Warden Avenue and Carlton Road/Baycliffe Road; Woodbine Avenue and Steelcase Road West/Steelcase Road East



York Region Vision Zero Traveller Safety Plan



- Regional Council endorsed the Plan on March 21, 2024
- Local municipalities can leverage the Plan for developing their own road safety plan
- The Plan will integrate with all local road safety plans, including **City of Markham's Road Safety Plan**

Thank you

Joseph Petrungaro

Director, Roads, Traffic and Fleet,
Public Works

Joseph.Petrungaro@york.ca

Nelson Costa

Manager, Traffic Safety and
Signal Operations, Public Works

Nelson.Costa@york.ca