

# Collision Trends in Mississauga

Road Safety Committee  
&  
Mississauga Cycling Advisory Committee

November 2024





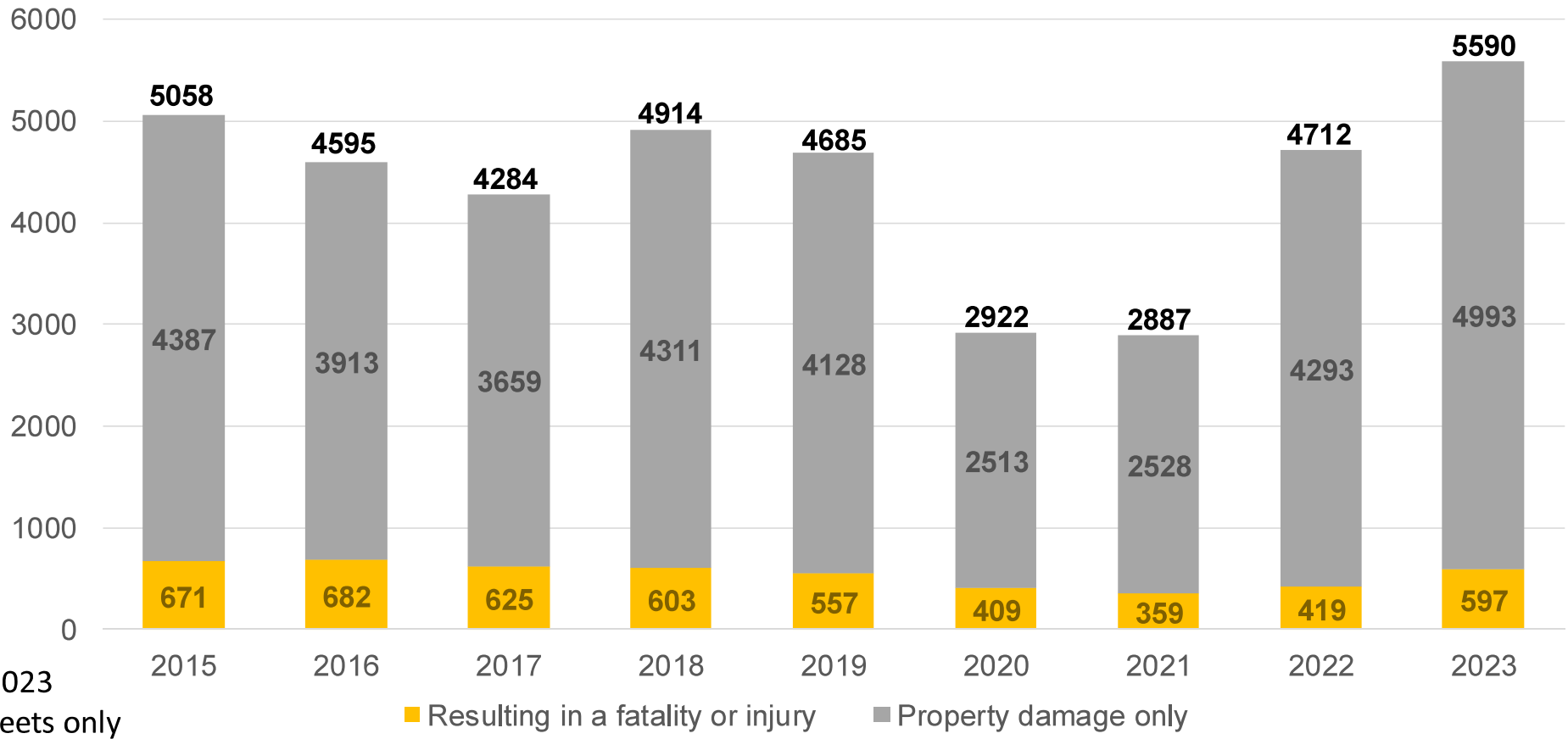
# Context

- Staff were asked by the committees to bring a presentation about collision trends in Mississauga
- Presentation will focus on fatal and injury causing collisions with a few other general statistics
- Data presented from 2015 to 2023
  - a reminder that data from 2020, 2021, and 2022 are heavily impacted by Covid trends
- Data presented represents total number of collisions not necessarily the same as victims in the collisions
- Some data combines Regional and Municipal road information and others don't. Each slide will specify what is being presented





# Collisions 2015 – 2023



2015-2023  
City streets only



# Collisions: Time of Day / Day of Week

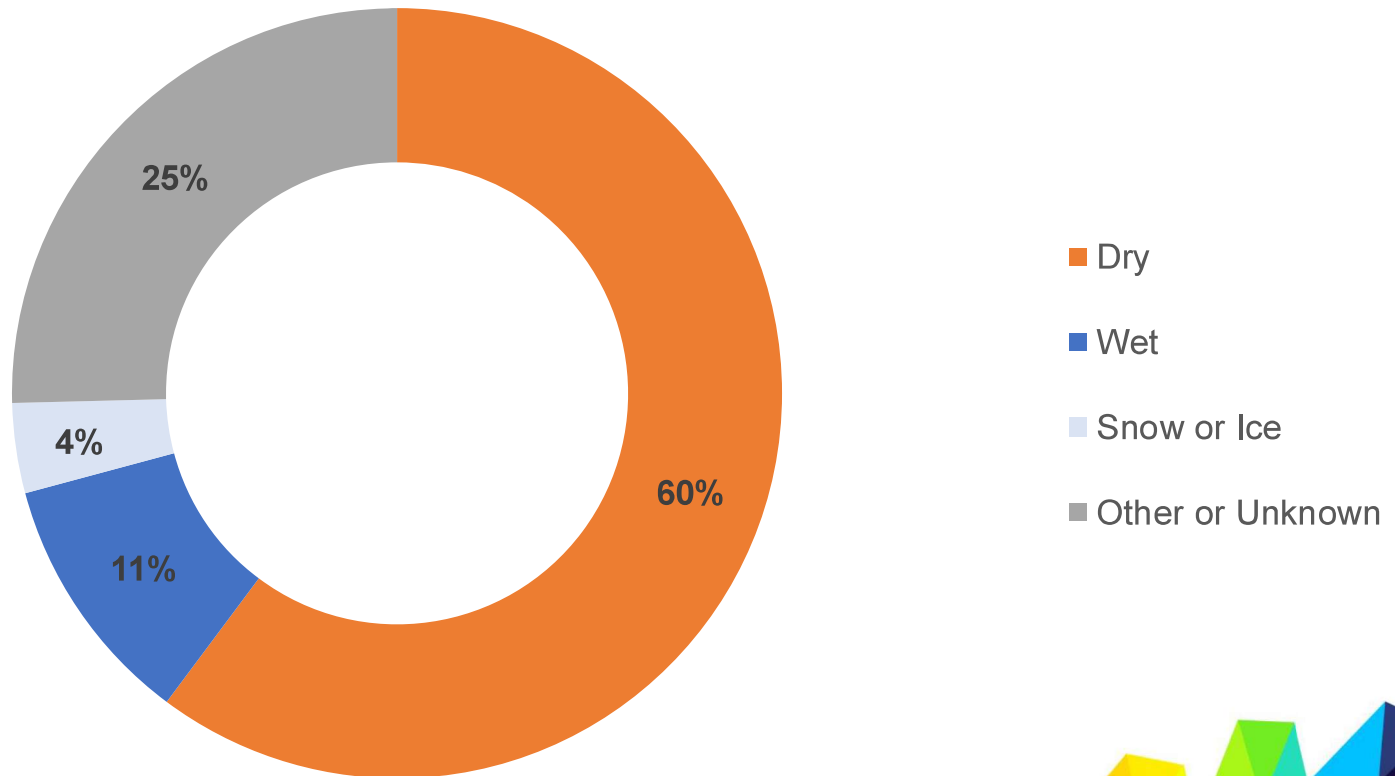
| Day of Week  | Time of Day |           |           |           |           |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            | Total       |
|--------------|-------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
|              | 0           | 1         | 2         | 3         | 4         | 5          | 6          | 7          | 8          | 9          | 10         | 11         | 12         | 13         | 14         | 15         | 16         | 17         | 18         | 19         | 20         | 21         | 22         | 23         |             |
| Sunday       | 18          | 18        | 8         | 5         | 5         | 10         | 9          | 10         | 10         | 12         | 16         | 28         | 25         | 45         | 36         | 57         | 50         | 31         | 32         | 26         | 20         | 23         | 26         | 21         | 541         |
| Monday       | 4           | 2         | 10        | 3         | 1         | 11         | 14         | 32         | 43         | 31         | 35         | 31         | 42         | 50         | 57         | 55         | 67         | 76         | 52         | 26         | 31         | 22         | 14         | 24         | 733         |
| Tuesday      | 6           | 5         | 6         | 2         | 6         | 15         | 29         | 33         | 63         | 60         | 26         | 44         | 44         | 41         | 45         | 76         | 75         | 68         | 69         | 36         | 33         | 21         | 24         | 15         | 842         |
| Wednesday    | 6           | 3         | 5         | 3         | 5         | 21         | 21         | 36         | 79         | 45         | 36         | 42         | 45         | 43         | 62         | 96         | 101        | 102        | 64         | 47         | 32         | 26         | 25         | 15         | 960         |
| Thursday     | 12          | 3         | 5         | 2         | 6         | 22         | 29         | 32         | 52         | 52         | 25         | 32         | 42         | 43         | 69         | 71         | 68         | 98         | 62         | 38         | 30         | 33         | 25         | 18         | 869         |
| Friday       | 9           | 8         | 5         | 4         | 5         | 17         | 28         | 31         | 46         | 34         | 45         | 46         | 50         | 43         | 84         | 95         | 92         | 56         | 75         | 43         | 34         | 43         | 34         | 14         | 941         |
| Saturday     | 7           | 20        | 11        | 7         | 6         | 8          | 12         | 12         | 20         | 31         | 36         | 35         | 39         | 63         | 50         | 68         | 46         | 49         | 45         | 33         | 29         | 24         | 32         | 21         | 704         |
| <b>Total</b> | <b>62</b>   | <b>59</b> | <b>50</b> | <b>26</b> | <b>34</b> | <b>104</b> | <b>142</b> | <b>186</b> | <b>313</b> | <b>265</b> | <b>219</b> | <b>258</b> | <b>287</b> | <b>328</b> | <b>403</b> | <b>518</b> | <b>499</b> | <b>480</b> | <b>399</b> | <b>249</b> | <b>209</b> | <b>192</b> | <b>180</b> | <b>128</b> | <b>5590</b> |

All collision severity  
2023  
City streets only





# Road Surface Condition and Collisions



2015-2023  
City streets only  
All collision severity





# Ambient light and collisions

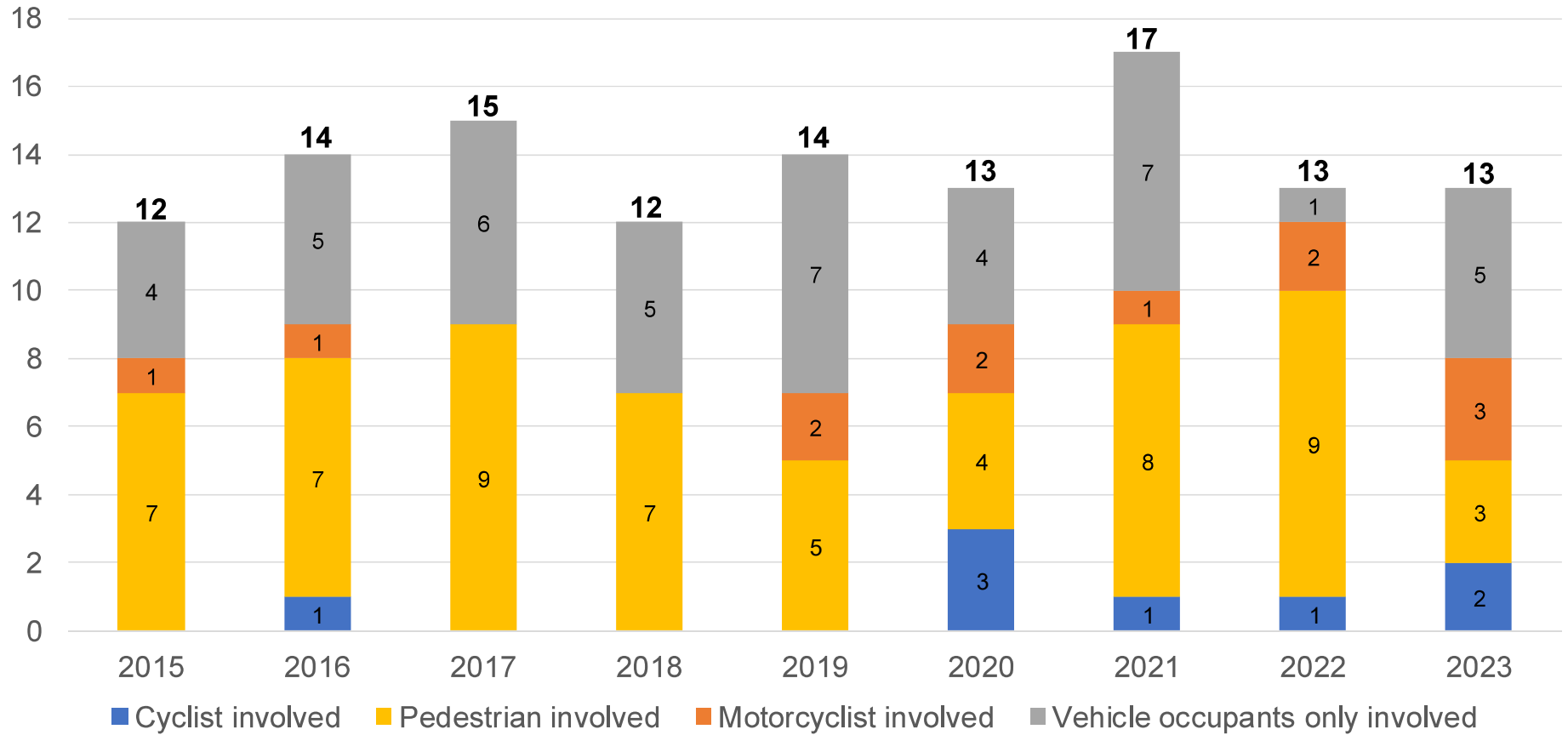
|                         | Distribution of severity type occurring in: |            |              |
|-------------------------|---|------------|--------------|
|                         | Daylight                                    | Dark       | Dawn or Dusk |
| Resulting in a fatality | 34%   | <b>57%</b> | 9%           |
| Resulting in an injury  | 64%   | 30%        | 6%           |
| Property damage only    | 68%   | 26%        | 6%           |

2015-2023  
City streets only





# Collisions resulting in a fatality



2015-2023  
City streets and Regional roads in Mississauga





# Vulnerable Road User Fatal Collisions (2015-2023)

|                        | Collisions resulting in a fatality | Share of collisions resulting in a fatality |
|------------------------|------------------------------------|---|
| Pedestrian involved    | 59                                 | 48%   |
| Cyclist involved       | 8                                  | 7%  |
| Motorcyclist involved  | 12                                 | 10%   |
| Vehicle occupants only | 44                                 | 36%   |
| Total                  | 123                                |   |

65% of fatal collisions involve a VRU

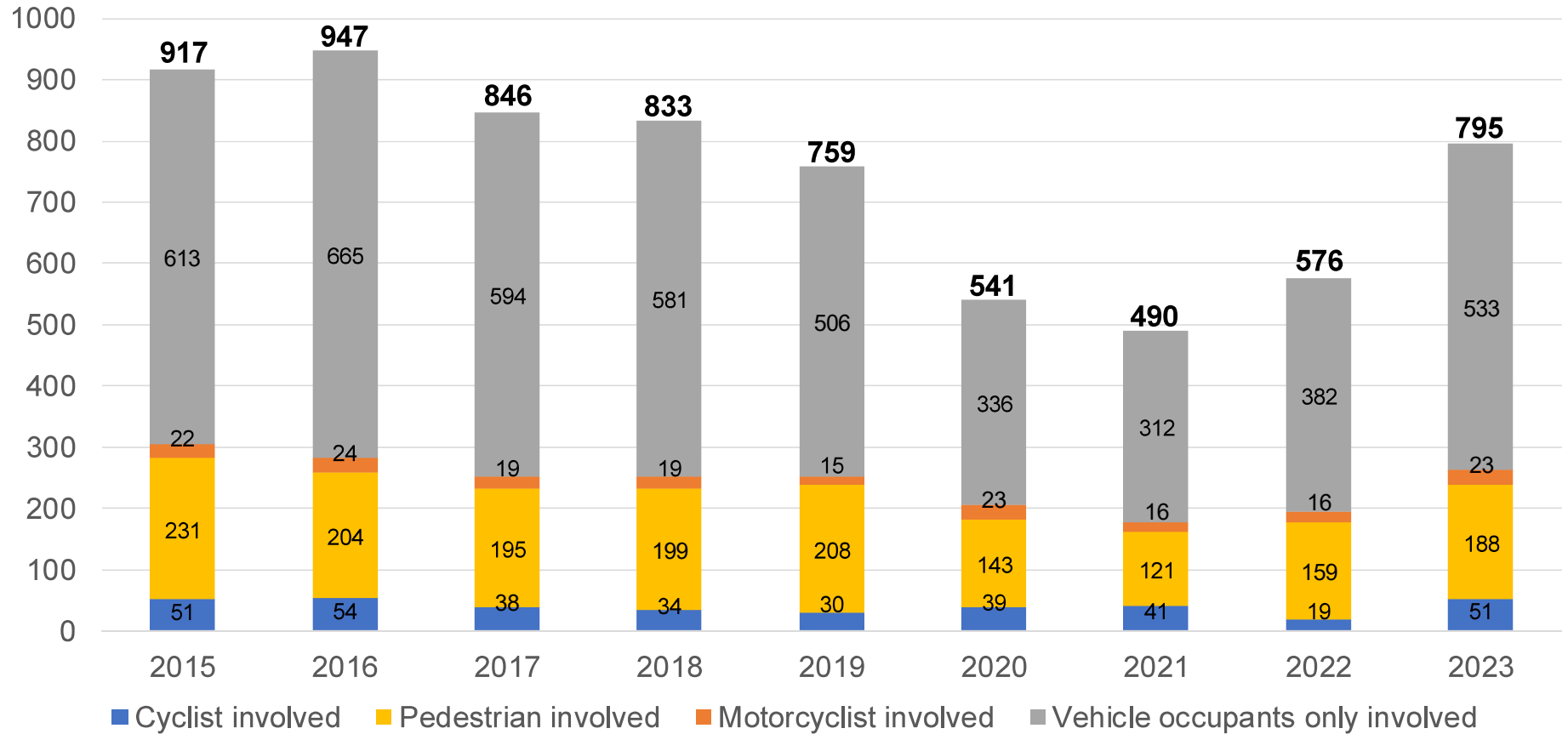
2015-2023  
City streets and Regional roads in Mississauga







# Collisions resulting in an injury



2015-2023  
City streets and Regional roads in Mississauga



# Vulnerable Road User Injury Collisions (2015-2023)



|                        | Collisions resulting in an injury | Share of collisions resulting in an injury |
|------------------------|-----------------------------------|--|
| Pedestrian involved    | 1,648                             | 25%  |
| Cyclist involved       | 357                               | 5%   |
| Motorcyclist involved  | 177                               | 3%   |
| Vehicle occupants only | 4,522                             | 67%  |
| Total                  | 6,704                             |  |

33% of injury collisions involve a VRU

2015-2023  
City streets and Regional roads in Mississauga



# Where are fatalities and injuries occurring?



Almost 9 in every 10 (87%) fatal and injury collisions happen on major roads in Mississauga.

Major roads represent just 24% of all roadways in Mississauga (by centre lane kilometers)



2015-2023  
City streets and Regional roads in Mississauga  
Arterial and Major Collector Classification

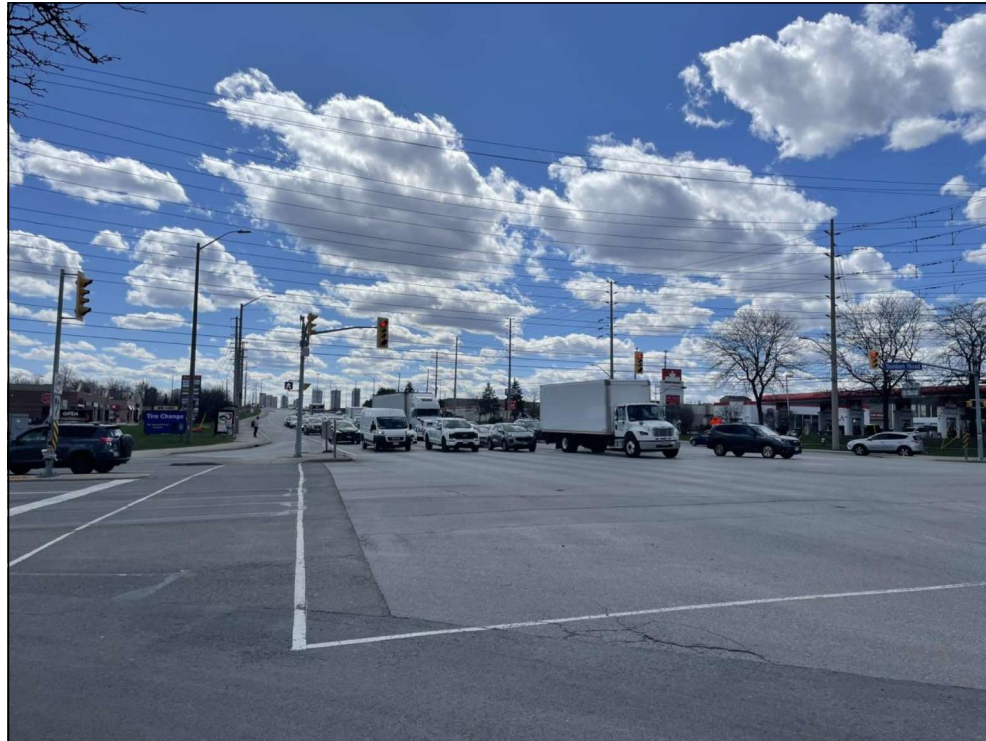


# Where are fatalities and injuries occurring?



**2 in every 3 (67%) fatal and injury collisions happen at intersections**

**Over half (52%) happen at signalized intersections**

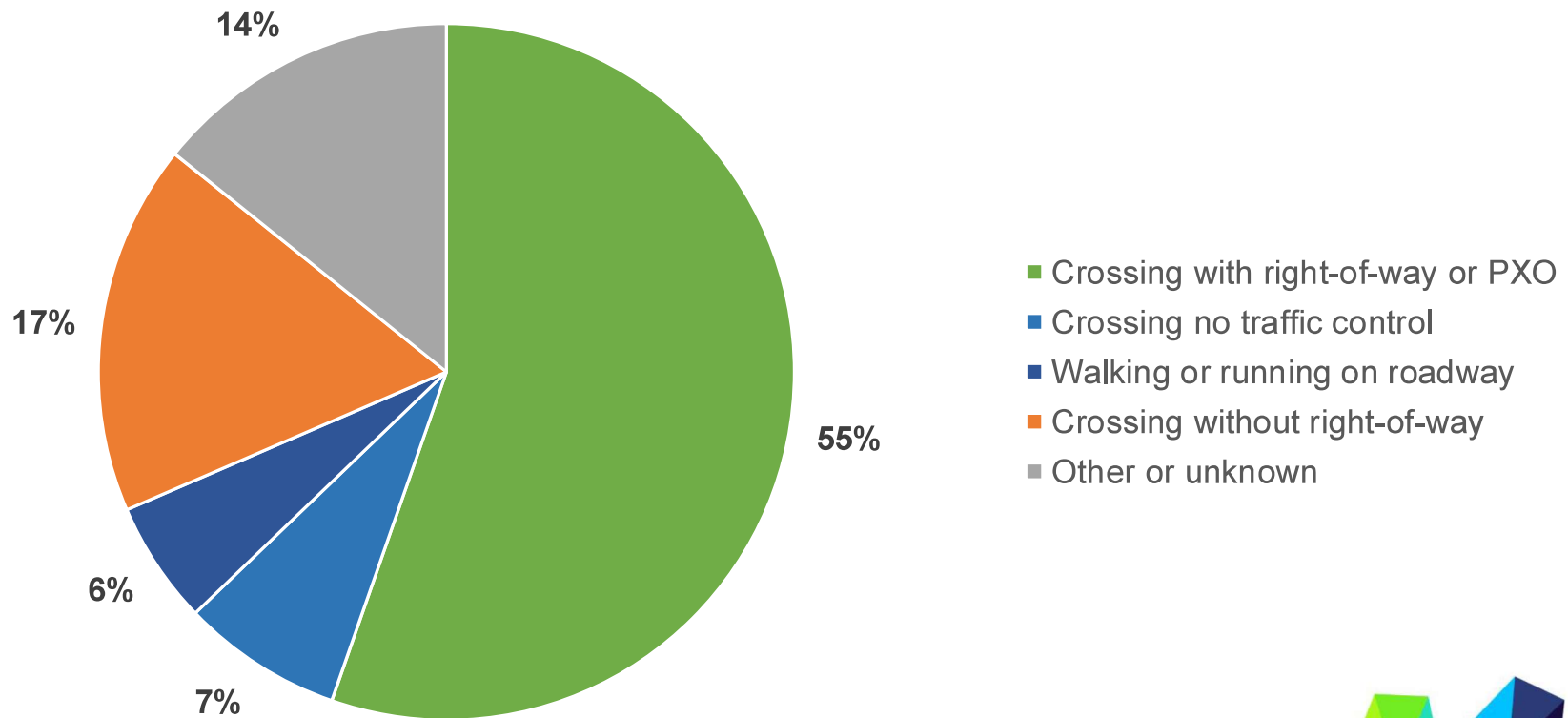


2015-2023  
City streets only





# Pedestrian Fatal & Injury Collisions



2015-2023  
City streets only





# Cyclist Fatal & Injury Collisions



## Where are they occurring?

- Most of them happen **away from a cycling facility** (85%)
- Approximately 3 in 4 (72%) happen **at intersections**
- Half (49%) happen **at signalized intersections**

## Why do they occur?

- Most occur during a **turning movement** (43%) or
- An **angle** collision (35%)



2015-2023  
City streets only



# January - June 2024 Collisions



|                        | Resulting in<br>a fatality | Resulting in<br>an injury | Property<br>damage only |
|------------------------|----------------------------|---------------------------|-------------------------|
| Cyclist involved       | 0                          | 9                         | 11                      |
| Pedestrian involved    | 0                          | 87                        | 8                       |
| Motorcyclist involved  | 1                          | 10                        | 4                       |
| Vehicle Occupants only | 3                          | 230                       | 4,119                   |
| <b>TOTAL</b>           | <b>4</b>                   | <b>336</b>                | <b>4,142</b>            |

2024 – January through June  
 City streets and Regional roads in Mississauga  
 NOTE: Data is not confirmed for 2024, and subject to change



# Impaired Driving – Region Wide

April – June 2024 (Q2)



- From April 1st to June 30th Peel Police laid 351 impaired driving charges against 221 individuals
- In Peel there were 36 impaired collisions in Q2
- Of those collisions 12 were non-fatal and 24 were PDO
- 21 of those collisions occurred in Mississauga
- Majority of drivers involved in impaired collisions are males (86%)
- The average age of impaired drivers was 36 (in Q1 it was 39 years old)



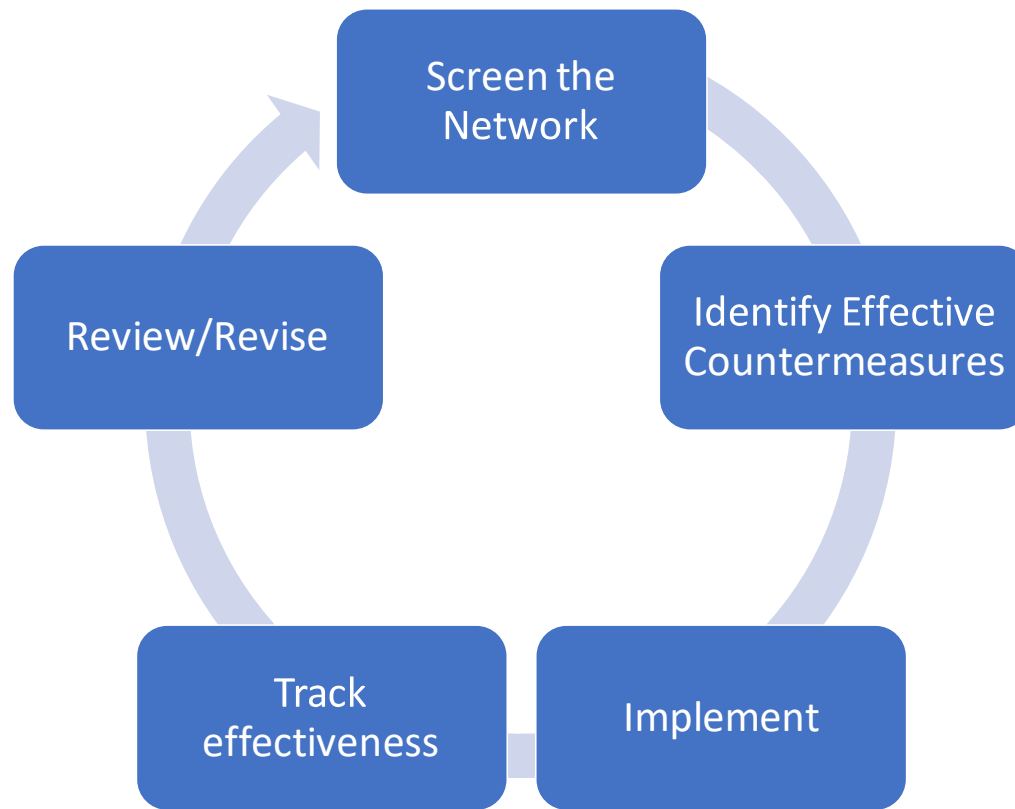
Q2 of 2024  
Region-wide







# Proactive Road Safety Programming





# Thank You

Erica Warsh, Vision Zero Program Leader

Alex Legrain, Project Leader – Special Projects (Traffic)

