



# Vision Zero Road Safety Framework 2024 – 2028

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# Message from the Project Team

Regina has experienced multiple pedestrian fatalities over the last couple years and there is a strong community desire to invest in safety improvements. Injuries and fatalities create long-term changes to our community and affect our residents, visitors, family, friends, and neighbours.

One of the strategic priorities of the City of Regina is community safety and well-being with a goal to create a healthier and more inclusive city. Vision Zero is a proactive, data-driven process which will ensure that we can achieve our goals by increasing the safety of our community, inclusive of all residents and all modes of transportation.

By endorsing Vision Zero, the City of Regina is showing its commitment, along with the commitment of all our community partners, to create a transportation system where everyone can travel and arrive safely at their destination. The City of Regina is working closely with partner organizations to share the responsibility for road safety, ensuring everyone who plays a role is engaged and working together.



# Land Acknowledgement

The City of Regina is on a path of reconciliation. We begin by acknowledging we are on the traditional lands of the Treaty 4 Territory, a Treaty signed with 35 First Nations across Southern Saskatchewan and parts of Alberta and Manitoba, and the original lands of the Cree, Salteaux, Dakota, Nakota, Lakota, and the homeland of the Métis.

The City of Regina owes its strength and vibrancy to these lands and the diverse Indigenous Peoples whose ancestors' footsteps have marked this territory as well as those from around the world who continue to be welcomed here and call Regina home.





# Vision Zero Road Safety Framework Partners



# Introduction

Regina, the capital city of the Canadian province of Saskatchewan, is known for its rich cultural heritage, vibrant arts scene, and diverse economy. The city spans across 180 square kilometers in area and has an estimated population of 250,000 people, according to the 2021 census. Regina contains approximately 1,200 kilometres of roadways.

Road safety is an issue of great importance locally, nationally, and internationally. Motor vehicle collisions cause death and disability in many jurisdictions, resulting in significant economic costs, pain and suffering, and life-altering consequences. In 2019, 5,138 collisions occurred in the City of Regina, including 672 injury collisions and three fatal collisions.

In the past decade, traffic safety practitioners have made significant progress in developing and maturing techniques to identify locations more accurately with the highest potential for improving road safety, diagnosing causal factors, and recommending effective countermeasures.

The City has recognized that, despite having extensive road safety initiatives, guidelines, and policies to address motor vehicle collisions, a new and broader-based approach is required, and, as a result, has prepared the Vision Zero Road Safety Framework. The City wants to make sure everyone arrives safely to their destination. The Framework aims to save lives and reduce injuries caused by motor vehicle collisions. This Framework, as well as the statistics presented in this document, focus on fatal and injury collisions. This comprehensive Framework facilitates coordination among diverse engineering, enforcement, education, and engagement stakeholders to improve road safety for all users and develop a positive traveller safety culture in Regina.





# Vision Zero Principles and Safe System Approach

Vision Zero is a data-driven strategy supported by policies to eliminate traffic fatalities and major injuries. Vision Zero originated in Sweden in 1997 and has been adopted in various forms worldwide. It can be summarized in one sentence:

*The loss of life from a motor vehicle is never acceptable*

Reaching the goal of Vision Zero requires implementing a Safe System approach, which was founded on the principles that humans make mistakes and that human bodies have limited ability to tolerate collision impacts. **Figure 1** below, adopted from the Transportation Association of Canada, illustrates the Safe System approach, highlighting the elements, principles, and key action areas which together form a comprehensive strategy with multiple layers of protection for road users. This system works in two ways: by preventing collisions from happening in the first place and by designing the road network to reduce collisions' severity when they occur.



Figure 1: Safe System Approach Diagram

# Quick Facts <sup>1</sup>



Intersection collisions are the most common type of collision.



65%



Aggressive driving is the second most common type of collision.



15%

15% of fatal and injury collisions occurring in Regina involved pedestrians or cyclists.



11%

11% of the fatal and injury collisions occurring in Regina are defined as distracted driving.



6%

6% of the fatal and injury collisions in Regina were due to impaired driver conditions.



PM

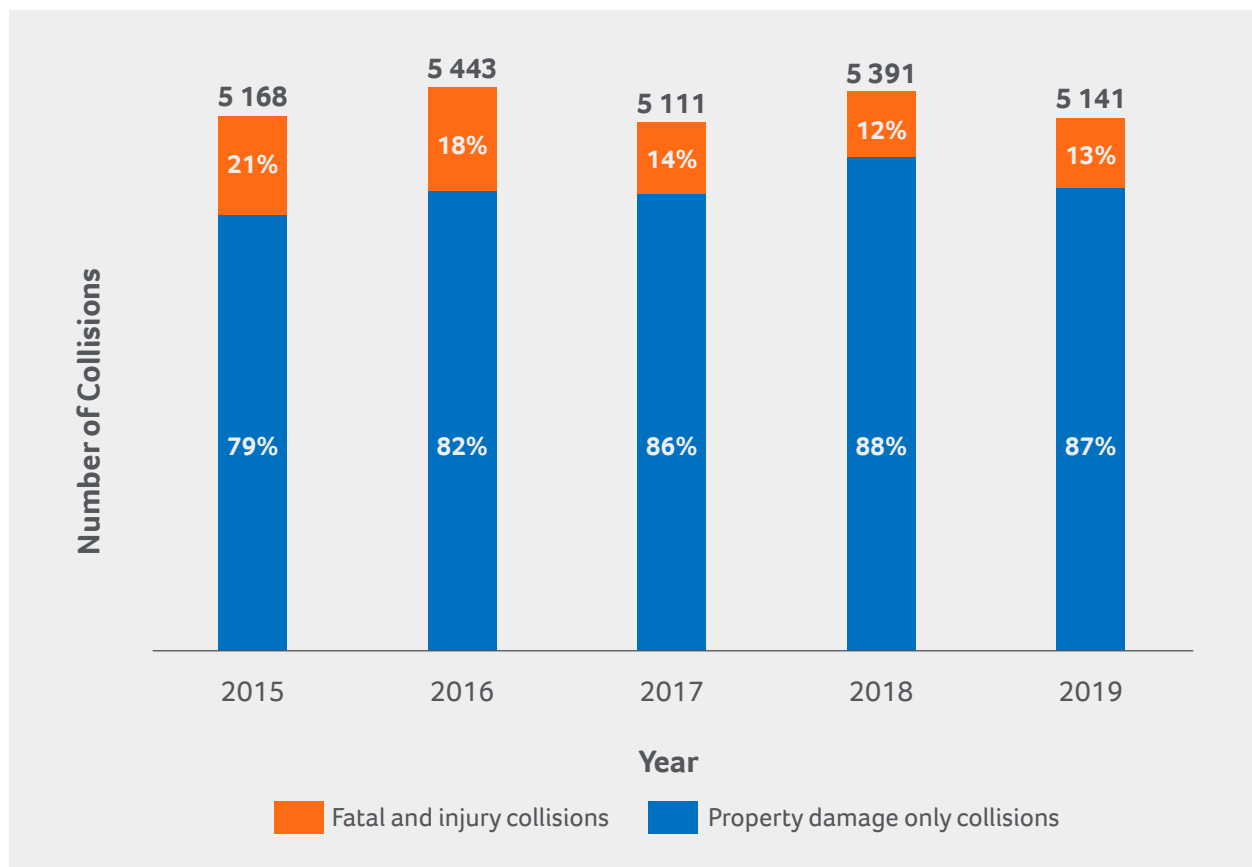
PM rush hour (3 PM – 6 PM) during the week is the most common time for collisions.

<sup>1</sup> Statistics based on fatal and injury collisions between 2015 and 2019.



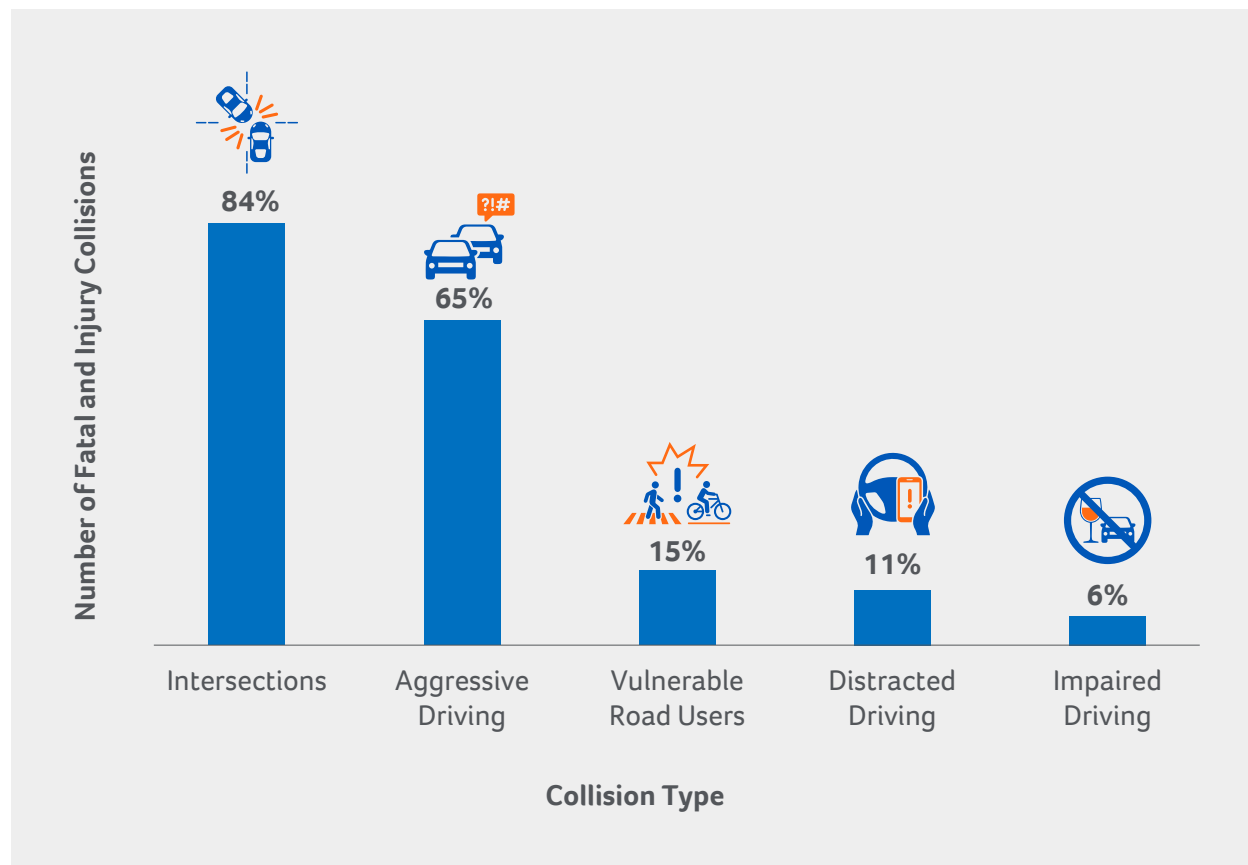
# Trends in the City of Regina's Road Safety

Within the five-year study period, more than 26,000 collisions were reported in Regina. Of those collisions, more than 3,900 resulted in an injury or fatality. The number of annual collisions and the proportion of collision severity (property damage only and injury or fatal collisions) is shown in the **Figure 2** below.



**Figure 2: Annual Collisions in Regina**

In recent years, the City and its partners have made progress in slightly reducing the overall frequency and severity of collisions. Aligned with the Vision Zero philosophy, the Road Safety Framework will prioritize efforts to reduce these serious collisions on City roads. **Figure 3** highlights this focus by illustrating the number of fatal and injury collisions across the most common collision types in the city.



**Figure 3: Annual Collisions in Regina**

A single collision might involve multiple collision types. For example, if a distracted driver hits a pedestrian at an intersection, it is classified as an intersection, distracted driving, and vulnerable road user collision.

The findings of the collision analysis played a significant role in shaping the Vision Zero Road Safety Framework, by identifying patterns and common factors contributing to collisions.



# Regina Vision Zero Road Safety Framework

Prioritizing safety for all road users, no matter their mode of transportation or destination, helps minimize collisions and creates a more inclusive and accessible environment, enabling people to move with confidence and ease throughout their community.

The City has implemented significant measures to enhance road safety, yet injury and fatal collisions still represent over 10% of all incidents. Aligned with the Vision Zero philosophy, the Vision Zero Road Safety Framework will prioritize efforts to reduce these serious collisions.

## ***How Was the Regina Vision Zero Road Safety Framework Developed?***

The development of the Road Safety Strategy was a collaborative effort, incorporating feedback from key stakeholders. The process began with an in-depth analysis of data, including historical collision information. Drawing on these insights and public input, the City and its road safety partners established the Framework's vision, goal, and key safety priorities (also known as focus areas). Specific safety initiatives and countermeasures were then developed to address these priorities and reduce fatal and injury collisions over the next five years. The City will implement these initiatives through an Action Plan and will continuously assess their effectiveness.

The effectiveness of the Vision Zero Road Safety Framework will be evaluated after the five-year implementation period (2024 to 2028). Based on the evaluation results, the City will make recommendations and adjustments to the Framework to continue progressing toward the vision of eliminating fatal and major injury collisions in Regina.

# Vision and Goal

In order for the Framework to have an overall strategy for reducing motor vehicle fatalities and injuries in the City, a vision and goal were developed. The vision is a high-level, long-range ideal, providing the structure for the Vision Zero Road Safety Framework and its detailed goal. The goal statement defines what the Framework aims to achieve in a specified period. The goal acts as a stepping stone toward reaching the vision.

The vision and goal of the Framework were developed based on the collision data analysis and input from the project stakeholders.



## Vision

No loss of life or major injury is acceptable within Regina's transportation network.



## Goal

Reduce fatal and major injury collisions by a minimum of 10% within five years.



# Key Focus Areas

A Key Focus Area is a type or group of collisions that is a priority safety concern. The City will allocate human and financial resources, along with strategic initiatives, to take action and reduce these groups of collisions. The development of Key Focus Areas for the Framework resulted from partner agencies' input and findings from the collision data analysis (2015-2019).

The five Key Focus Areas for the Vision Zero Road Safety Framework are shown in **Figure 4** below (speeding is considered part of aggressive driving):



**Figure 4 : Regina Road Safety Framework Selected Key Focus Areas**






# What is the Action Plan?

The Vision Zero Framework Action Plan summarises the steps that must be taken to achieve the City's goal of reducing fatal and major injury collisions by a minimum of 10% within five years. The Action Plan encompasses three primary categories of countermeasures:

- **Engineering Countermeasures** involve modifying the physical infrastructure of the roadway, such as incorporating traffic calming features, adding signage or pavement markings, or revising policies or practices.
- **Enforcement Countermeasures** include both police-based and automated enforcement systems. These measures aim to enhance compliance with traffic regulations while also serving an educational purpose to inform drivers about the consequences of unsafe behavior.
- **Education and Engagement Countermeasures** seek to influence the behavior of road users by promoting a better understanding of traffic laws, road safety, and anticipated changes to streets and neighborhoods.

The Action Plan specifies the actions required to meet the City's goal of reducing fatal and major injury collisions by a minimum of 10% within five years. It includes a total of 114 countermeasures.

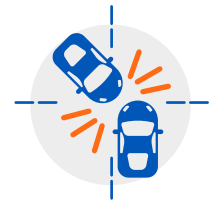
**Table 1** presents a summary of the countermeasures included in the Action Plan.

		Countermeasure Type			
Key Focus Area		Engineering	Enforcement	Education & Engagement	Total
 Intersections		10	4	10	24
 Vulnerable Road Users		18	4	14	36
 Aggressive Driving		8	5	4	17
 Distracted Driving		3	4	4	11
 Impaired Driving		-	6	20	26
<b>Total</b>		<b>39</b>	<b>23</b>	<b>52</b>	<b>114</b>

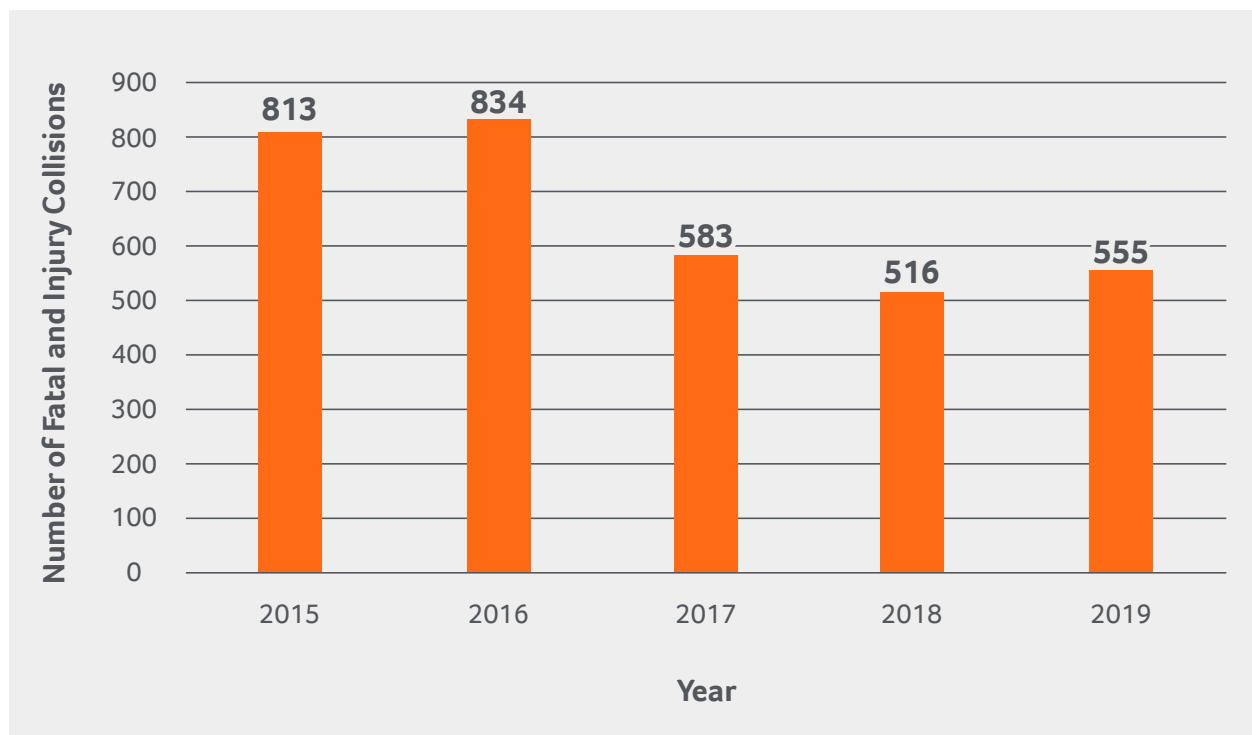
**Table 1 : Summary of Action Plan by Key Focus Area and Type of Countermeasure**

# Key Focus Area 1

## Intersections



Collisions at intersections form the single largest Key Focus Area. **Figure 5** below shows the history of intersection collisions in the City. From 2015 to 2019, a total of 3,301 fatal and injury collisions occurred at intersections, accounting for approximately 84% of fatal and injury collisions within the City. Out of all fatal and injury collisions at intersections, approximately 52% occurred at signalized intersections and 42% occurred at unsignalized intersections. Most collisions at intersections were classified as rear-end, left-turn, and right-angle collisions.



**Figure 5: Intersection Collisions in Regina (2015 to 2019)**

# Intersections

In total, the intersections key focus area has 24 countermeasures included in the Action Plan. Examples of countermeasures to address intersection collisions in Regina are shown below:



**Red-Light Camera Program**



**Network Screening Program**



**Traffic Signal Timing and Left-Turn Signal Phases  
(Protected / Protected and Permissive)**



**Safe Winter Driving Strategy**



**Intersection Control Reviews and Evaluations  
(Yield, Stop, All-Way Stop)**

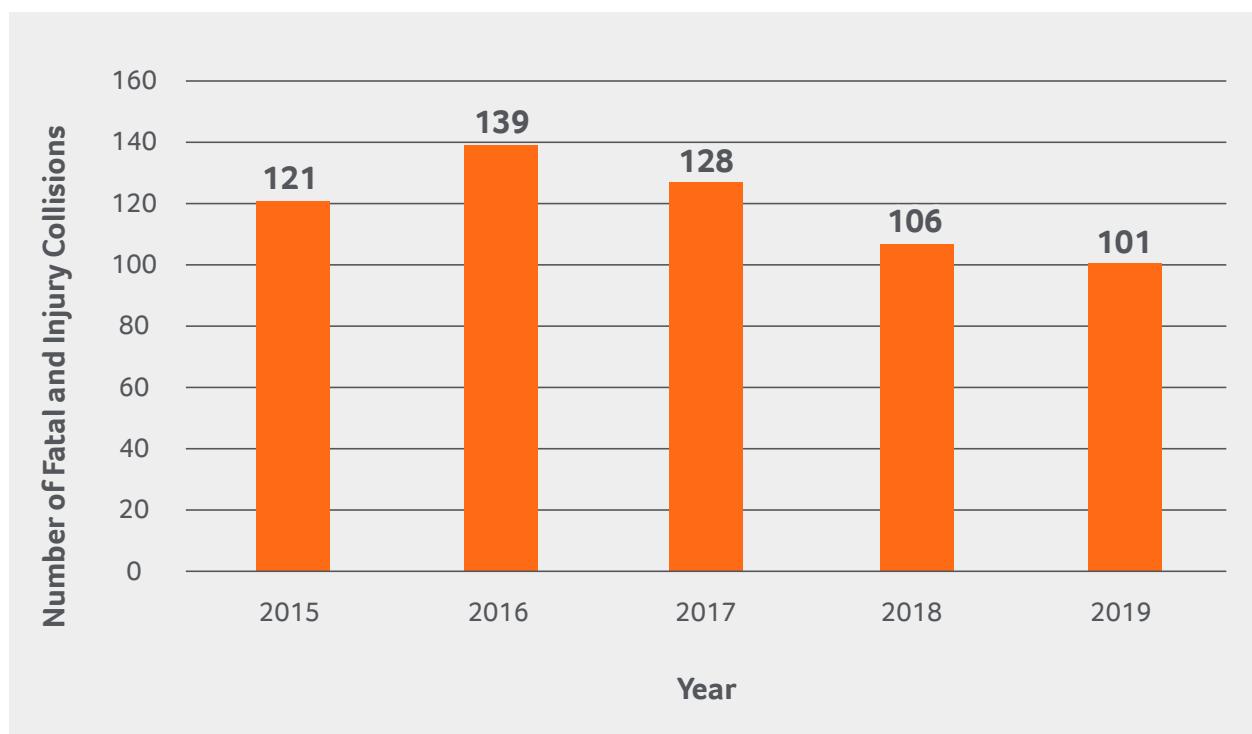


# Key Focus Area 2

## Vulnerable Road Users



Vulnerable road users refer to pedestrians and cyclists, who are at the highest risk of being killed or injured when involved in a collision. Because collisions involving vulnerable road users generally have a higher injury severity, this key focus area is extremely important for eliminating injuries and fatalities in Regina. **Figure 6** below shows the history of pedestrian and cyclist fatal and injury collisions in Regina. Between 2015 and 2019, there was a total of 384 fatal and injury collisions involving pedestrians and 211 fatal and injury collisions involving cyclists, which accounts for approximately 15% of total fatal and injury collisions in Regina. The majority of pedestrian and cyclist collisions occurred at intersections.



**Figure 6: Vulnerable Road User Collisions in Regina (2015 to 2019)**

# Vulnerable Road Users

In total, the vulnerable road user key focus area has 36 countermeasures included in the Action Plan. Examples of countermeasures to address vulnerable road user collisions in Regina are shown below:



**Enhanced Zebra Crosswalk Markings**



**Addition of Active Transportation Facilities**



**Bicycle Conflict Zone Pavement Markings**



**Active Transportation Plan and Design Guidelines**



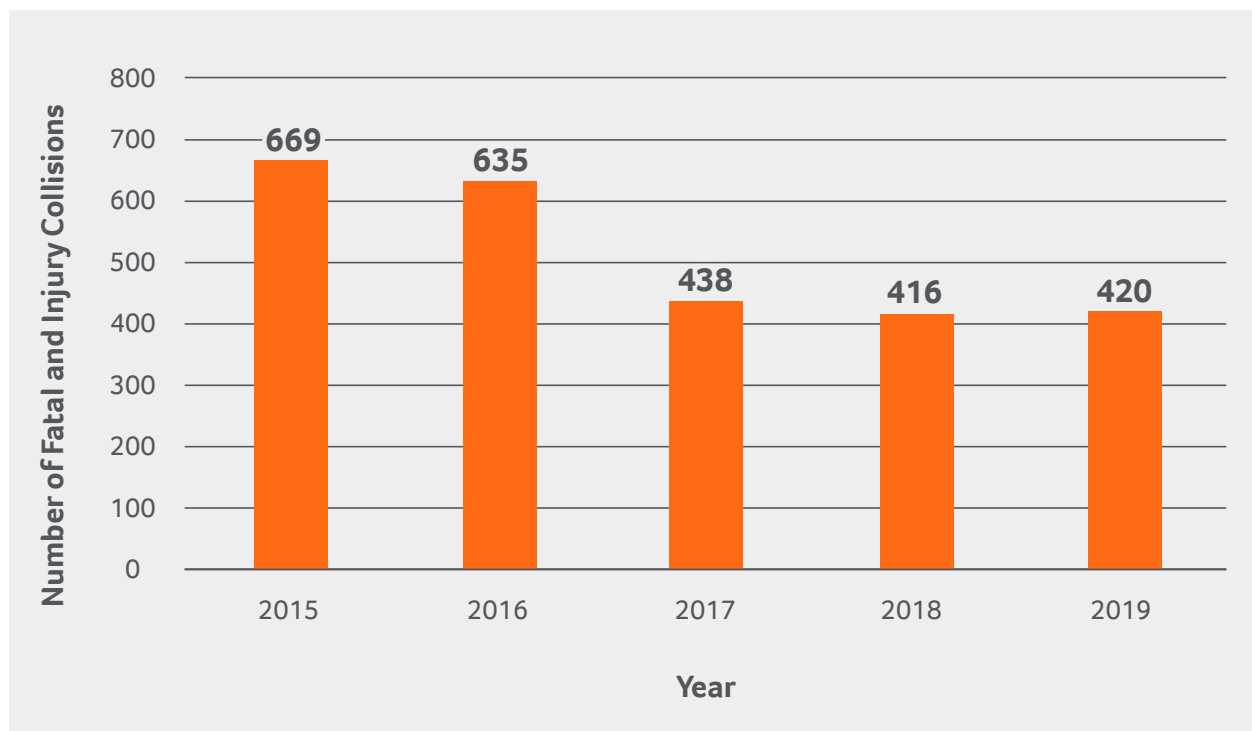
**Community Safety Zones**

# Key Focus Area 3

## Aggressive Driving



Aggressive driving is defined as speeding, careless driving, stunt driving, failing to yield the right-of-way, or disregarding traffic control devices. These behaviours can harm the driver, passengers, and other road users. The history of collisions from aggressive driving in the City is shown in **Figure 7** below. Within the study period, there was a total of 2,578 fatal and injury collisions defined as aggressive driving. Most aggressive driving-related fatal and injury collisions were caused by failure to yield right-of-way (44%), following too closely (33%), and disregarding traffic control devices (12%).



**Figure 7: Aggressive Driving Collisions in Regina (2015 to 2019)**

# Aggressive Driving

In total, the aggressive driving key focus area has 17 countermeasures included in the Action Plan. Examples of countermeasures to address aggressive driving collisions in Regina are shown below:



**Automated Speed Enforcement**



**Neighbourhood Traffic Calming**



**Transverse Pavement Markings**



**In-Road Flexible Signs**



**Construction Zone Enforcement**

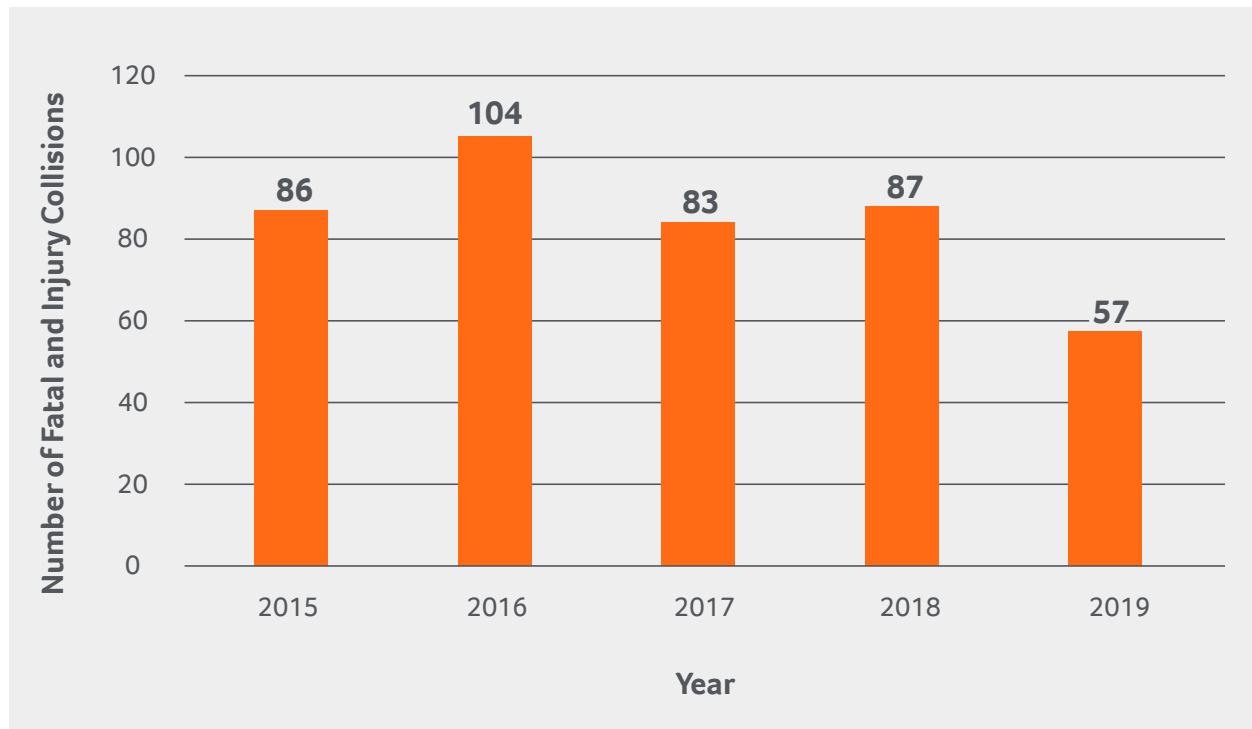


# Key Focus Area 4

## *Distracted Driving*



Distracted driving refers to the act of operating a vehicle while engaging in activities that divert the driver's attention away from the primary task of driving. These distractions can significantly increase the risk of collisions, injuries, and fatalities on the road. Examples of distracted driving activities include using a mobile phone to text or talk, eating or drinking, grooming, or applying makeup. The history of reported distracted driving collisions is shown in **Figure 7** below. Within the study period, a total of 417 of the fatal and injury collisions occurring in Regina were defined as distracted driving.



**Figure 7: Distracted Driving Collisions in Regina (2015 to 2019)**

# Distracted Driving

In total, the distracted driving key focus area has 11 countermeasures included in the Action Plan. Examples of countermeasures to address distracted driving collisions in Regina are shown below:



**Rumble Strips Pilot Project**



**Guide Rail Upgrades**



**Priority Location and Time Enforcement  
Targeting Distracted Driving**



**Enhanced Pavement Markings on High-Risk Road Segments**



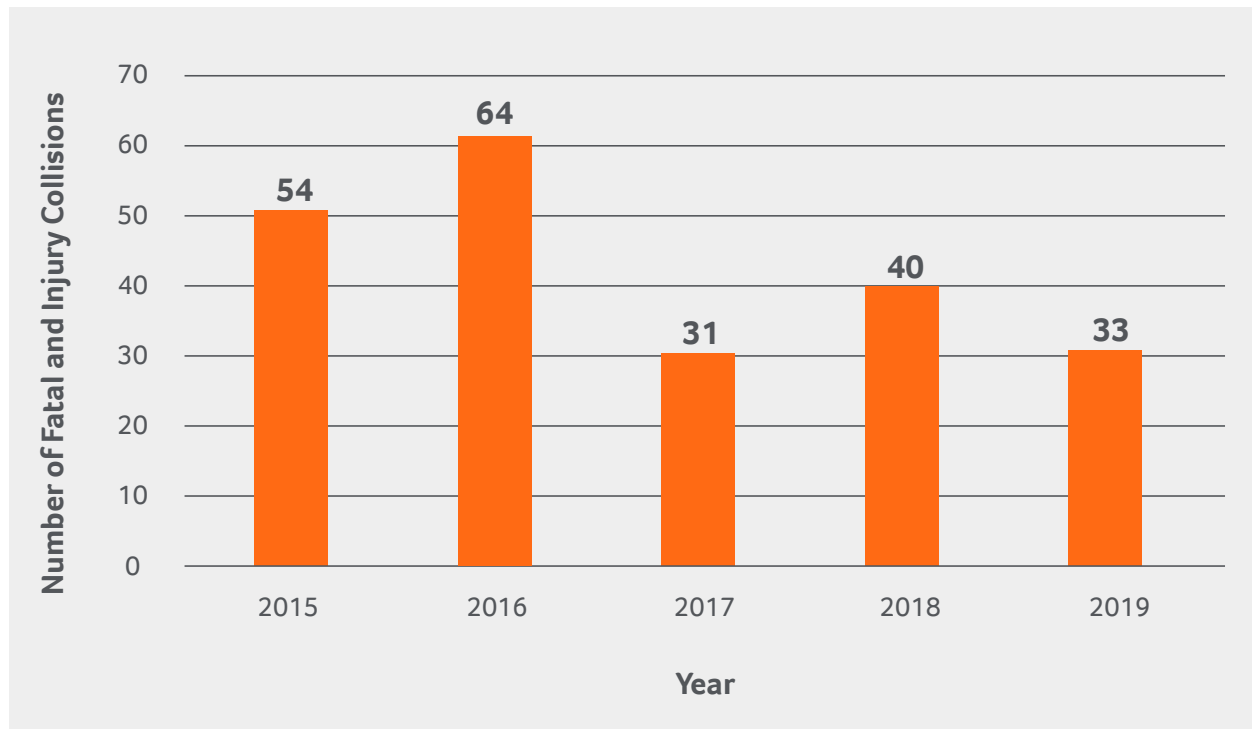
**Distracted Driving Education Program**

# Key Focus Area 5

## *Impaired Driving*



Impaired driving collisions are those coded on the police reports with the following attributes: impaired; lost conscious / other illness; had been drinking; physical / medical disability; fell asleep; extreme fatigue; or drugs. The history of impaired driving collisions in the City is shown in **Figure 8** below. Between 2015 and 2019, there was a total of 222 fatal and injury collisions in Regina due to impaired driver conditions. The annual number of fatal and injury collisions caused by impaired driving has noticeably declined since 2016. Most impaired driving-related fatal and injury collisions (69%) were caused by drivers who were under the influence of alcohol (i.e., 'Impaired' and 'Had Been Drinking').



**Figure 8: Impaired Driving Collisions in Regina (2015 to 2019)**

# Impaired Driving

In total, the distracted driving key focus area has 26 countermeasures included in the Action Plan. Examples of countermeasures to address impaired driving collisions in Regina are shown below:



**Priority Location and Time Enforcement  
Targeting Impaired Driving**



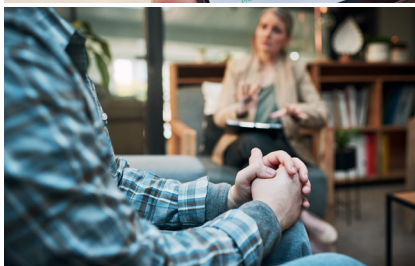
**Free Public Transit on New Year's Eve**



**School Education Program**



**Report Impaired Driving Program**



**MADD Victim and Survivor Support**



# Moving Forward

The City of Regina's Vision Zero Road Safety Framework is a living strategy in guiding the safety management processes. The Framework aims to reduce fatal and major injury collisions by a minimum of 10% within five years, with the ultimate vision of eliminating such collisions. The Framework requires commitment from the City and partner agencies, as well as additional resources for implementation.

A Vision Zero Task Force will be created to guide the program, manage countermeasures, and ensure success. Regular meetings of the Task Force will assess budgets, priorities, and goals, while an evaluation and monitoring system will track progress using key performance indicators and data collection to ensure the Framework's success in reducing fatal and major injury collisions.



# What Can You Do?

Whether driving, walking, cycling, or using transit, you, as a roadway user, need to be aware of what to expect when using the transportation network. There are many situations that may be dangerous to roadway users. The following are actions that you, as a roadway user, can take to help the City achieve its goal and work towards the vision:

- Be able to adapt to changing conditions such as weather, construction zones, etc.
- Educate yourself (and others) about proper driving behaviours
- Know, respect, and follow the rules of the road
- Respect other road users around you
- Be aware of your condition, your vehicle's condition, and any distractions before you start driving
- Be safe.



