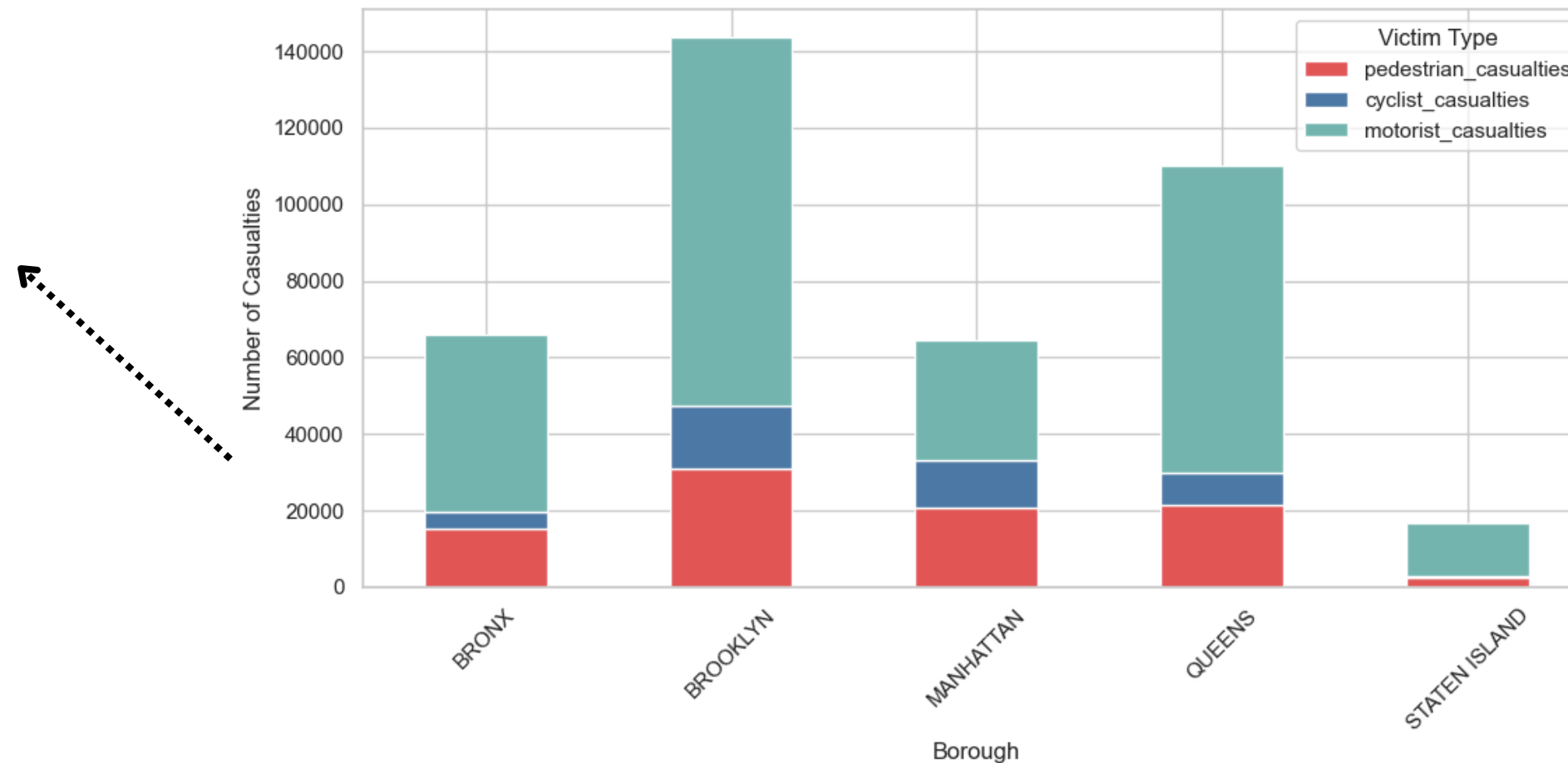


NYC MOTOR VEHICLE COLLISIONS: INSIGHTS FOR SAFER STREETS

S A U R A V

Where Do Collisions Occur?

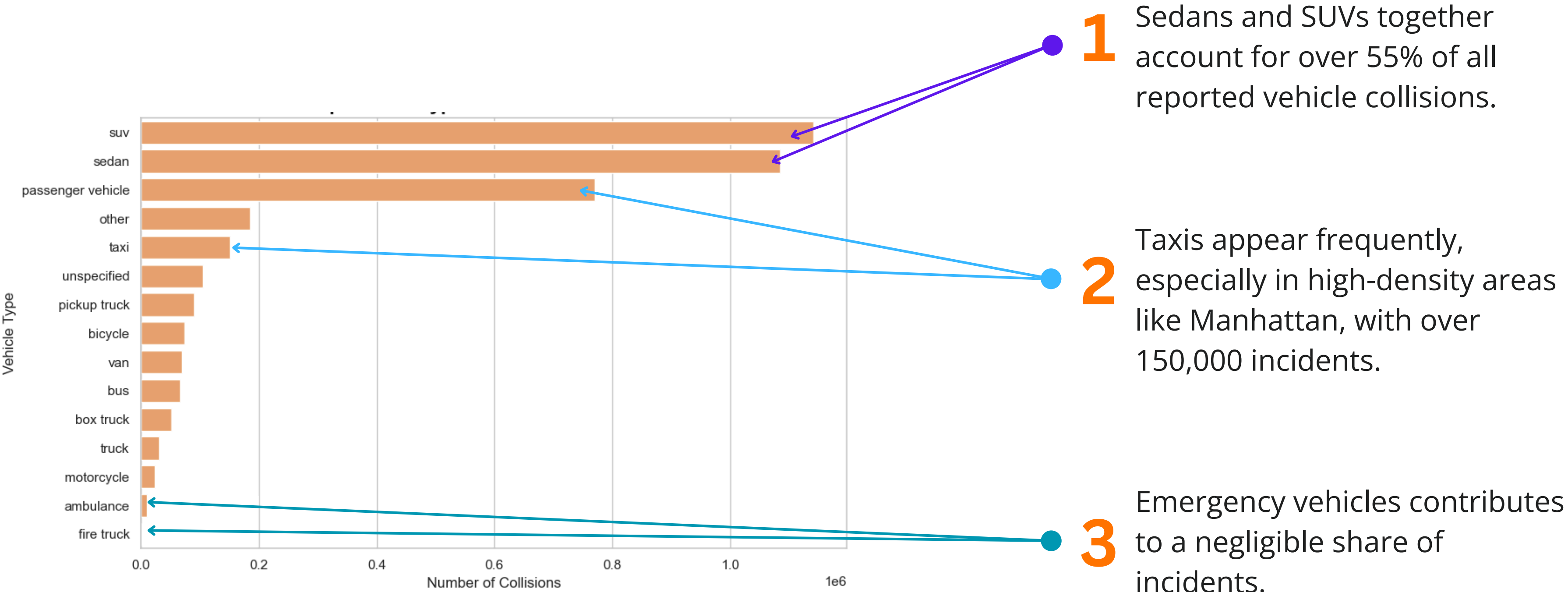
Casualties by Victim Type per Borough



- 1 Brooklyn and Queens see the highest number of reported collisions.
- 2 Manhattan has fewer collisions overall but a high rate of pedestrian involvement.
- 3 Missing borough data accounts for ~35% of records.

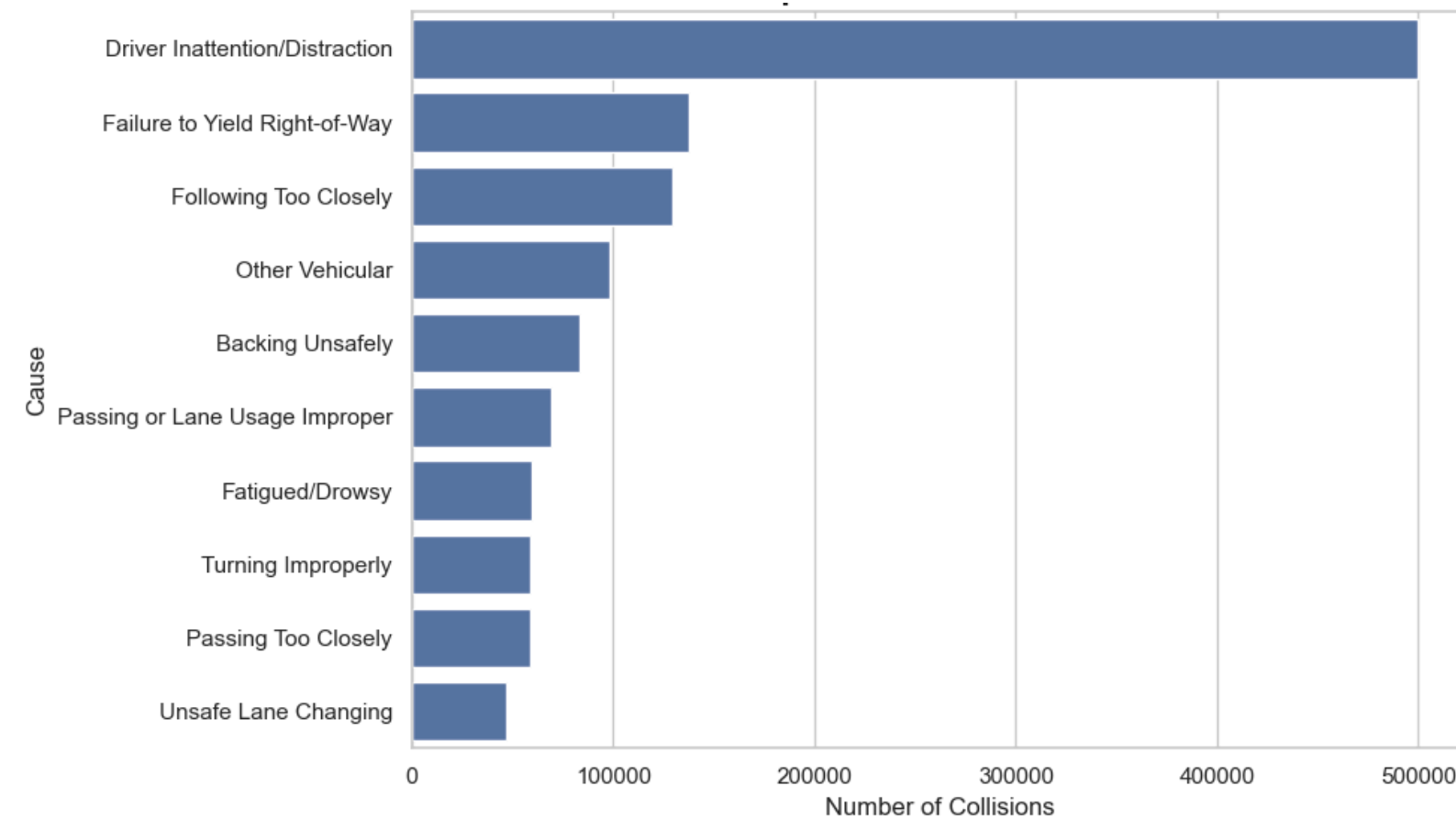
Who's Involved?

Vehicle Types



← Top Vehicle Types Involved in Collisions →

What Causes Collisions?



Top causes of Collisions

1

Driver inattention/distraction

caused over 480,000 collisions, making it the single most reported contributing factor.

2

Failure to yield right-of-way & following too closely

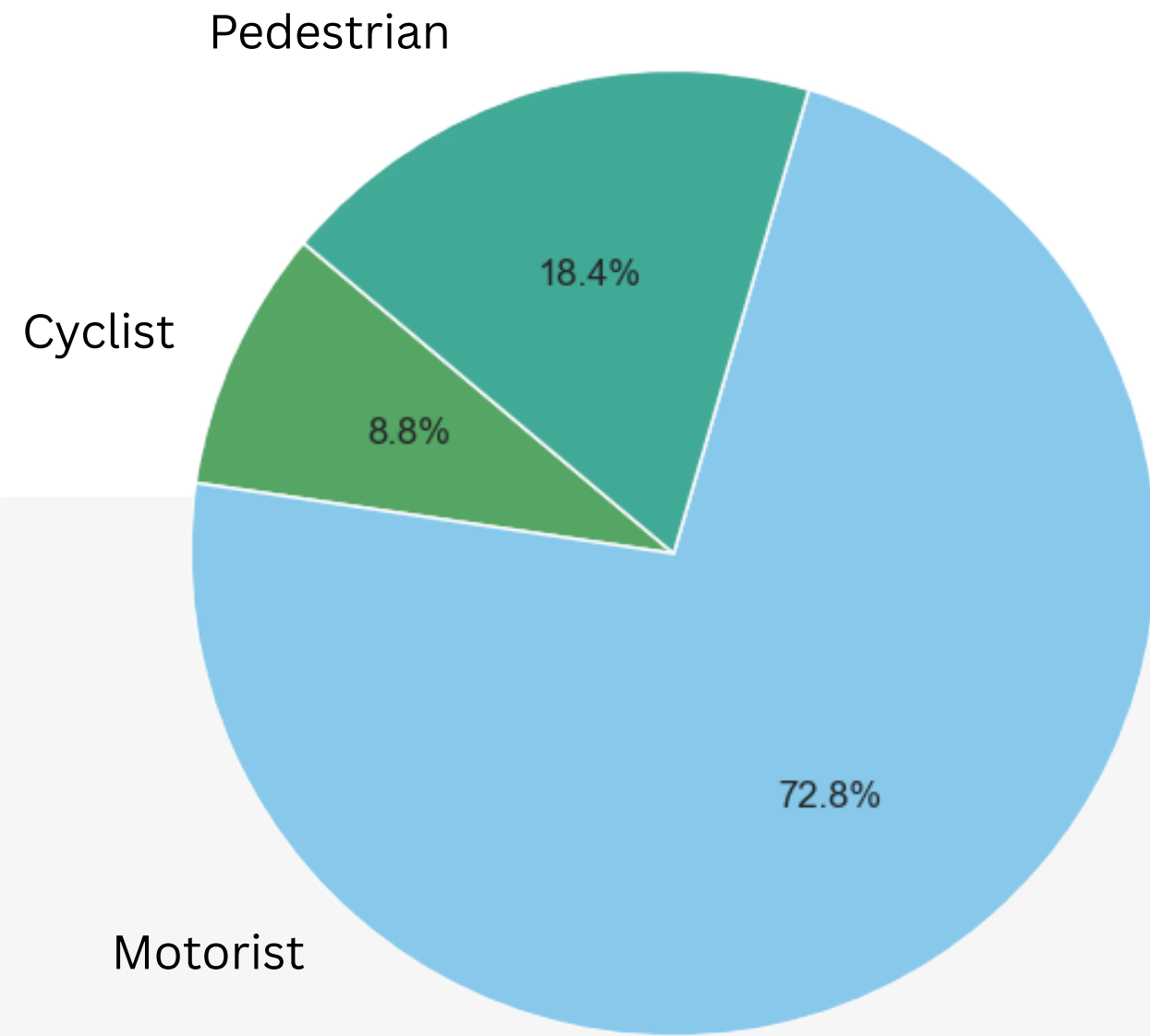
suggest gaps in driving etiquette and response time.

3

Behavioral factors

dominate the list, signaling a need for targeted education and stricter enforcement of traffic rules.

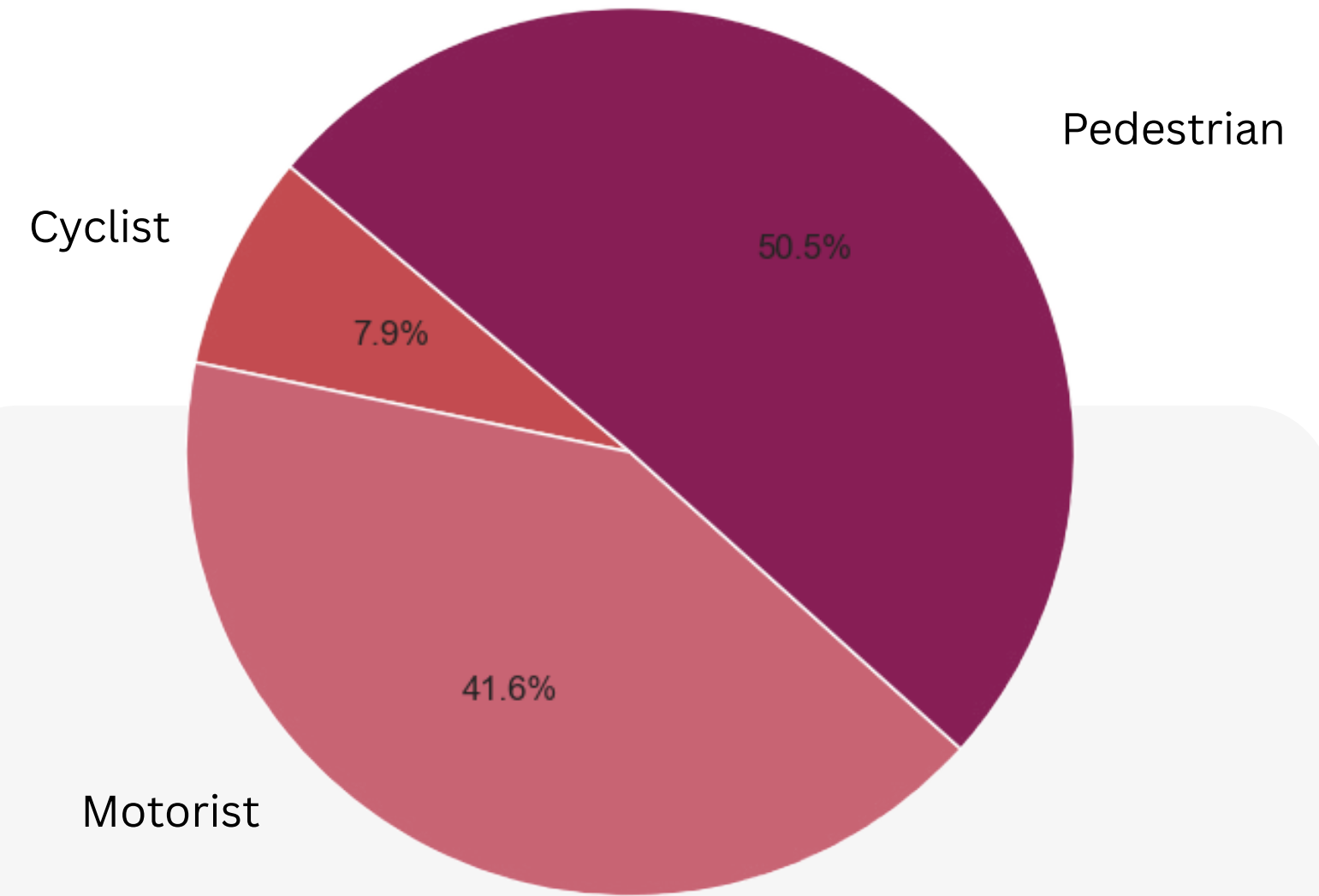
Casualties by **Victim** Type



Injuries By Victim Type

Motorists

make up nearly 73% of injuries, but just 42% of fatalities..

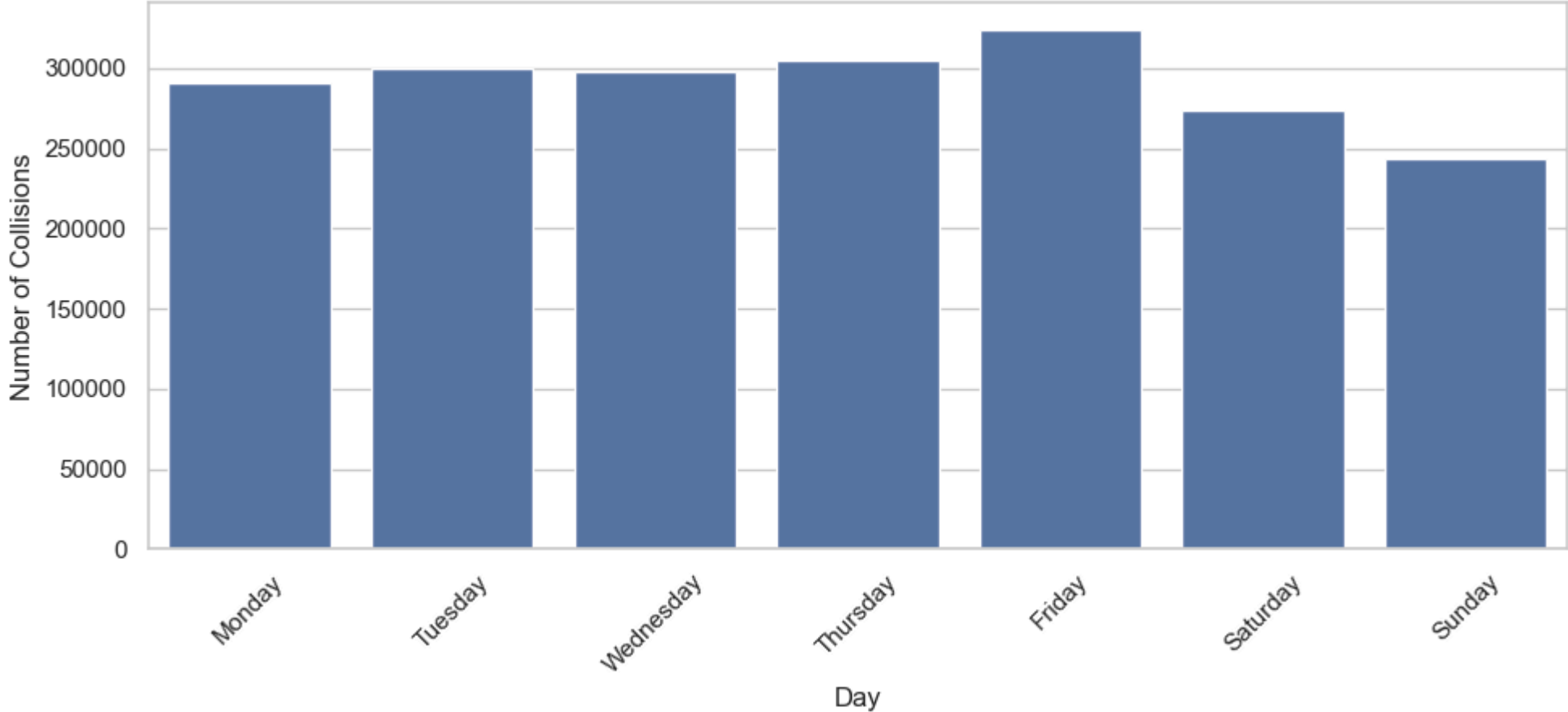


Fatalities By Victim Type

Pedestrians

while only 18% of the injured, represent over 50% of deaths.

When Do Collisions Occur?



Collisions by Day of the Week

FRIDAY

Friday records the highest number of collisions, likely driven by increased traffic from both commuters and early weekend activity.

TUESDAY

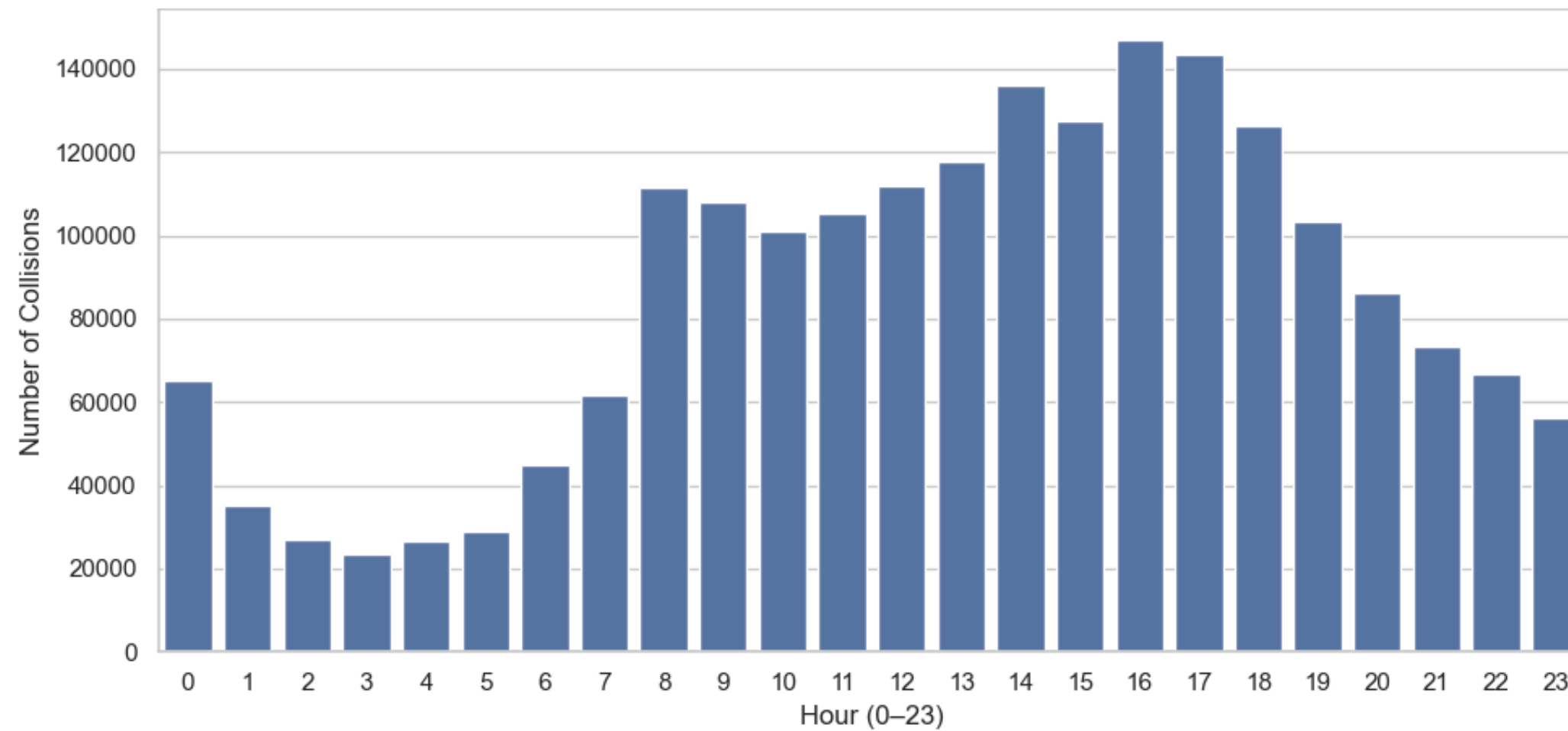
Tuesday through Thursday show steady collision volumes, reflecting routine weekday travel patterns.

SUNDAY

Sunday has the lowest collision rate, aligned with reduced work and school traffic.

When Do Collisions Occur?

Let's **Narrow** it down more



Collisions by Hour of the Week

3PM - 5PM



Collisions spike during the afternoon rush (3 PM to 5 PM), with a smaller peak in the morning around 8 AM.

7A ONWARDS



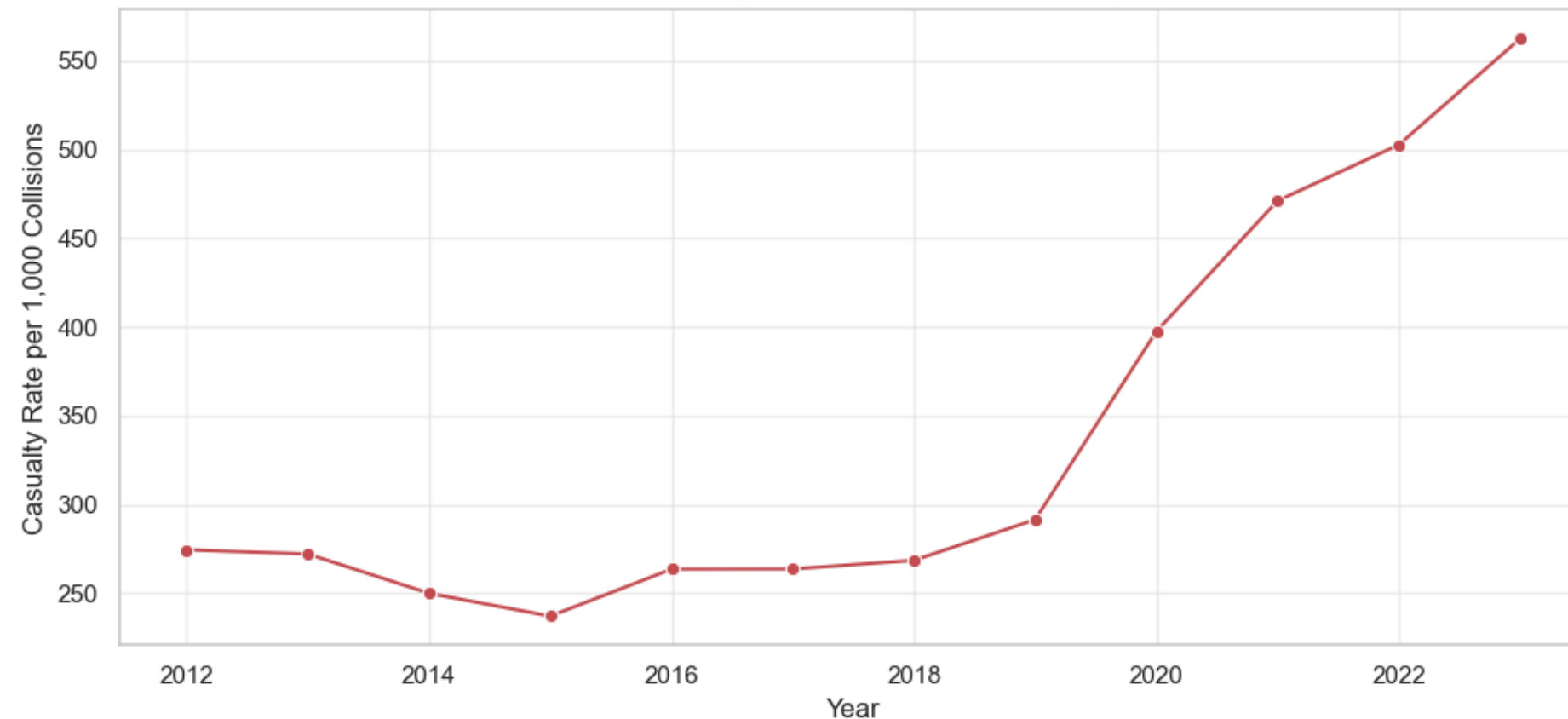
Crash frequency climbs sharply from 7 AM onward and drops significantly after 8 PM.

2AM - 5AM

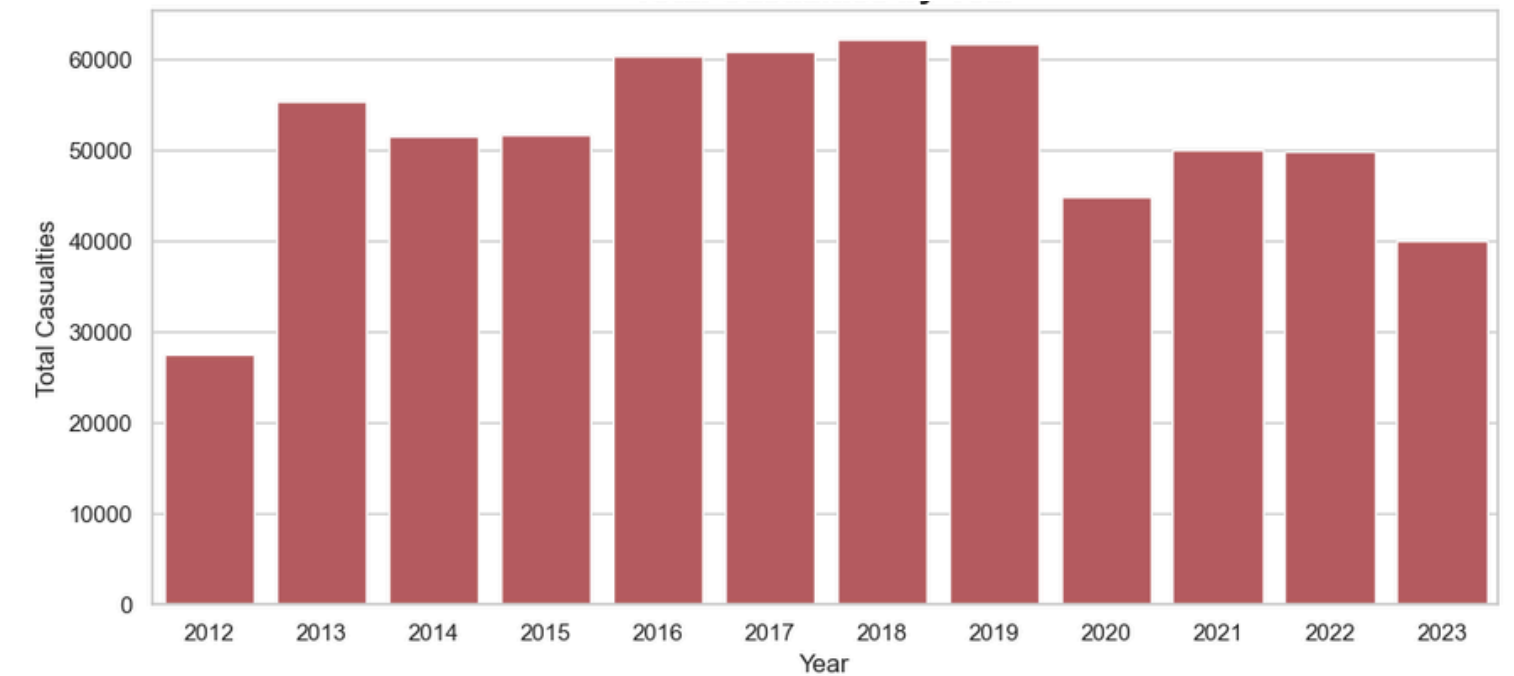


The lowest activity occurs between 2 AM and 5 AM, when roads are least active.

Are Collisions Getting **More Severe**?



Casualty Rate



Casualties By Year

1

While total casualties declined slightly after 2019, the casualty rate per 1,000 collisions rose sharply.

2

The increase during 2020–2021 suggests *riskier driving during lower traffic volumes.

3

Indicates a shift from frequency to severity enforcement may need to adapt.

Key take aways!



1

Pedestrians represent over 50% of all fatalities despite making up less than 20% of those injured.

2

Fridays and rush hour periods (3–5 PM) account for the highest collision volumes.

3

Driver inattention is the top cause of collisions, contributing to nearly half a million incidents.

THANK YOU