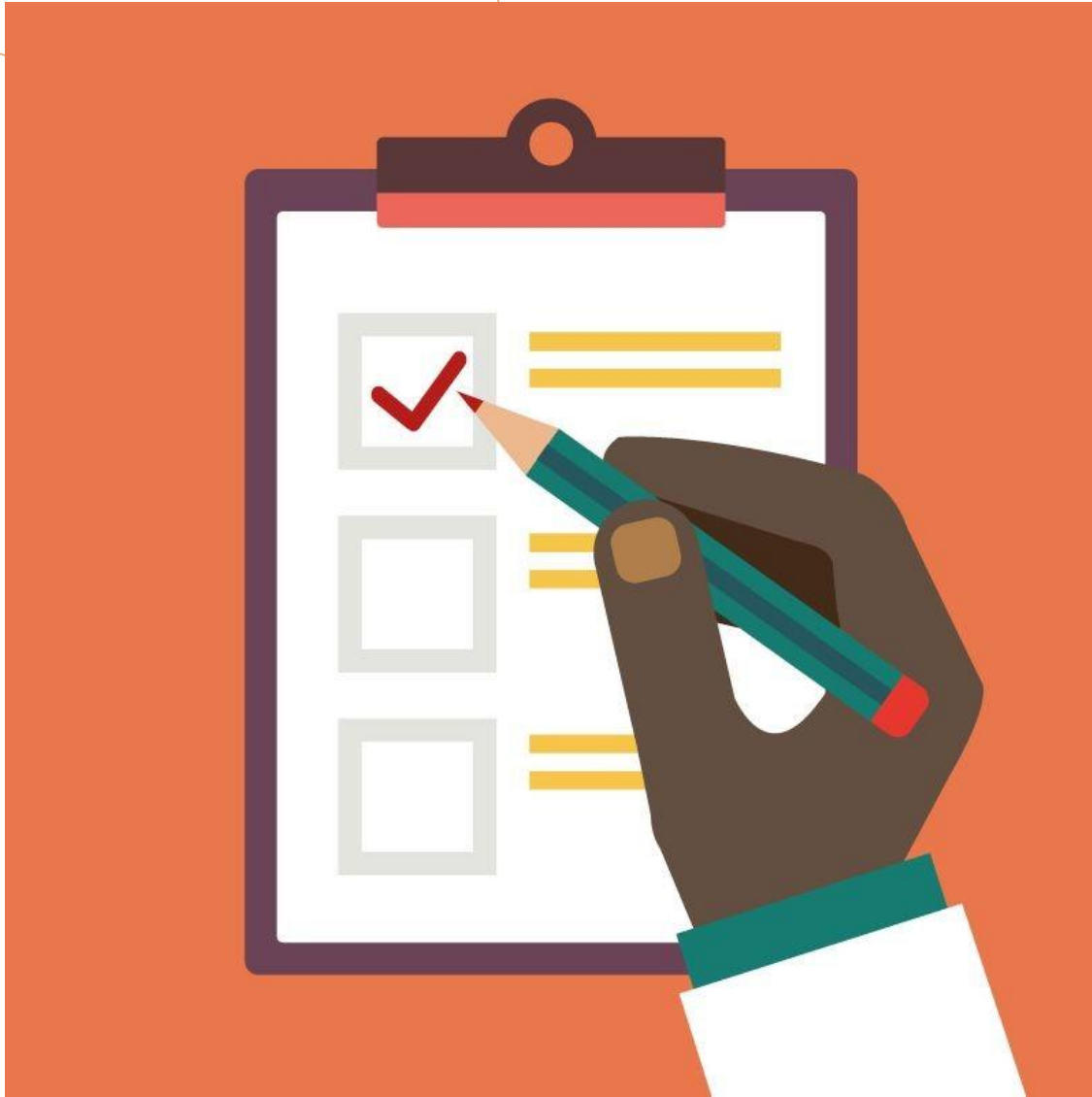




CURBING CHICAGO CAR CRASHES

BY: IBRAHIM HAFIZ



Agenda

Business Understanding

Data & Methods

Findings

Conclusion

Future Research

Business Understanding



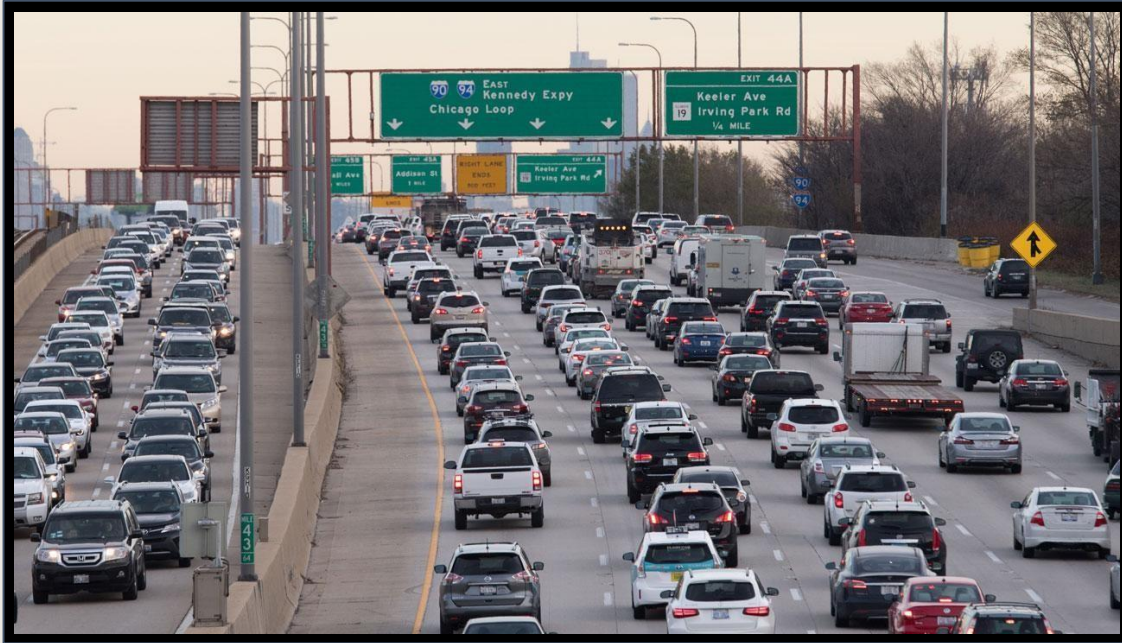


The Vehicle Safety Board of Chicago

Find Cause of Car Accidents

Were These Crashes Preventable?

Data & Methods



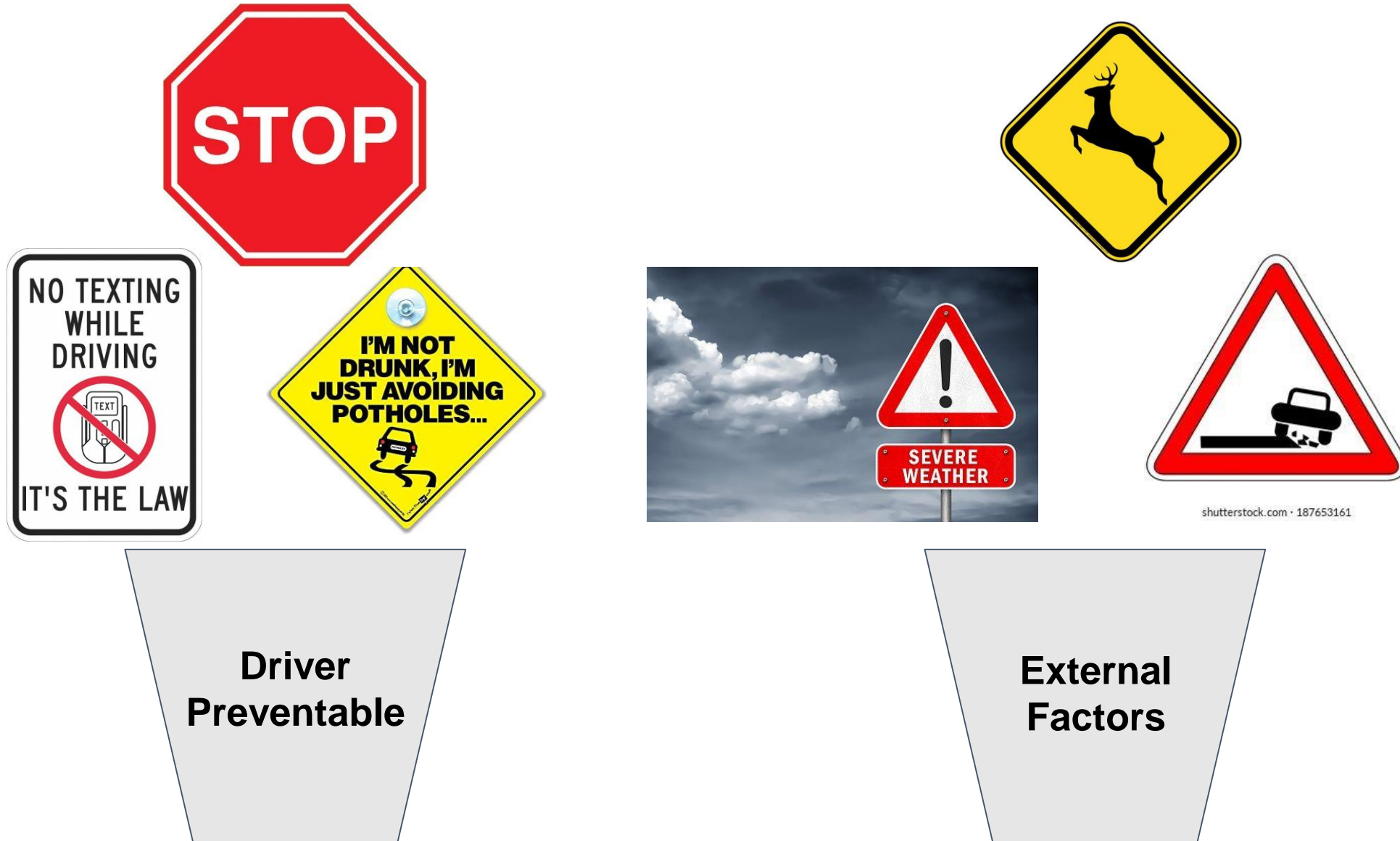
Car Crashes 2016 - 2020

- From City of Chicago

Binned Data into Two Columns

- Driver Preventable and Less Preventable

What is Driver Preventable?



Vehicle Safety Board's Responsibility

Serve Tax Payers

Liable for crashes that happen on Highways after knowledge of defect road.



Focus on Non-Driver Preventable

No matter what, drivers will make mistakes



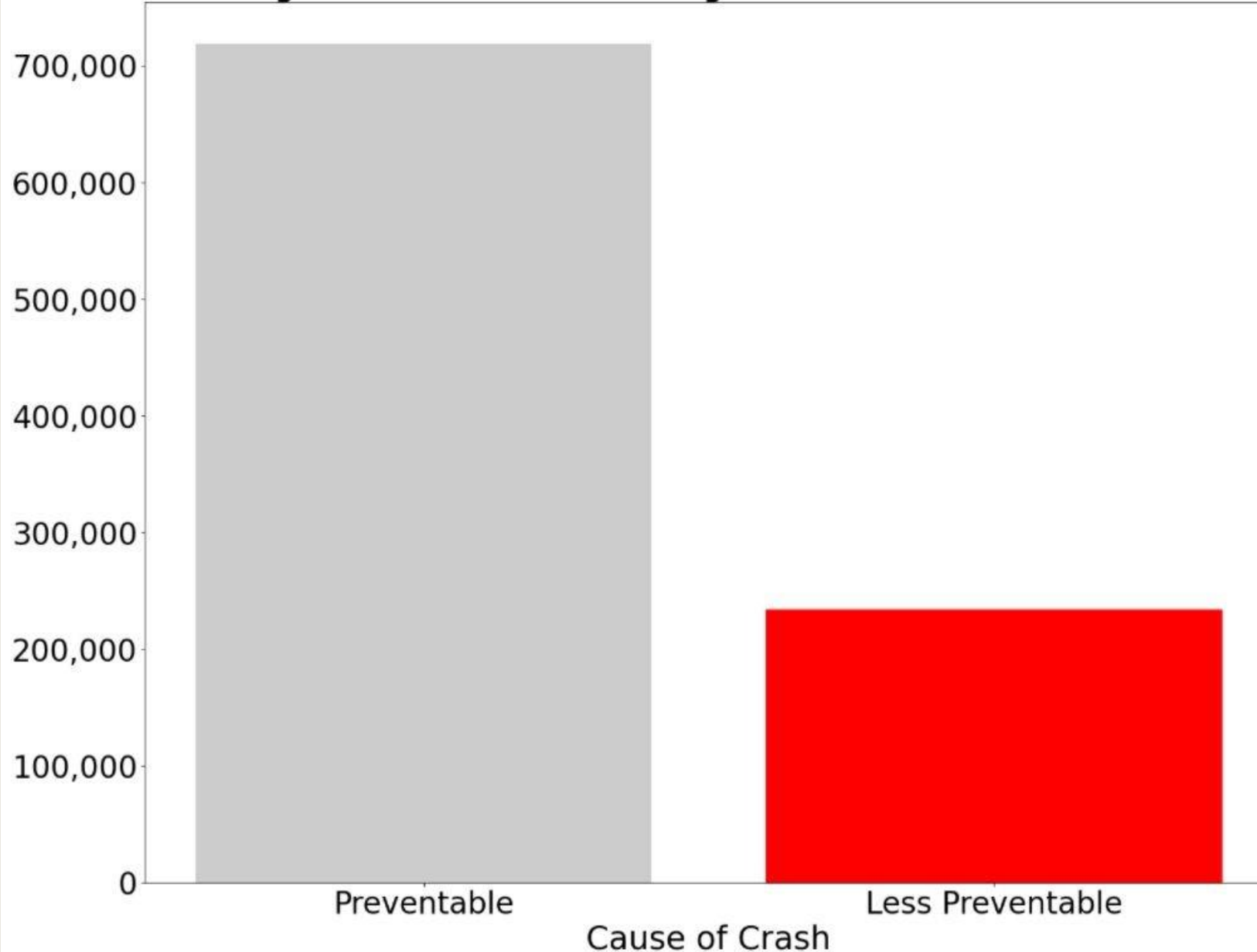
Fix Roads In Chicago Area For Immediate Effect





Findings

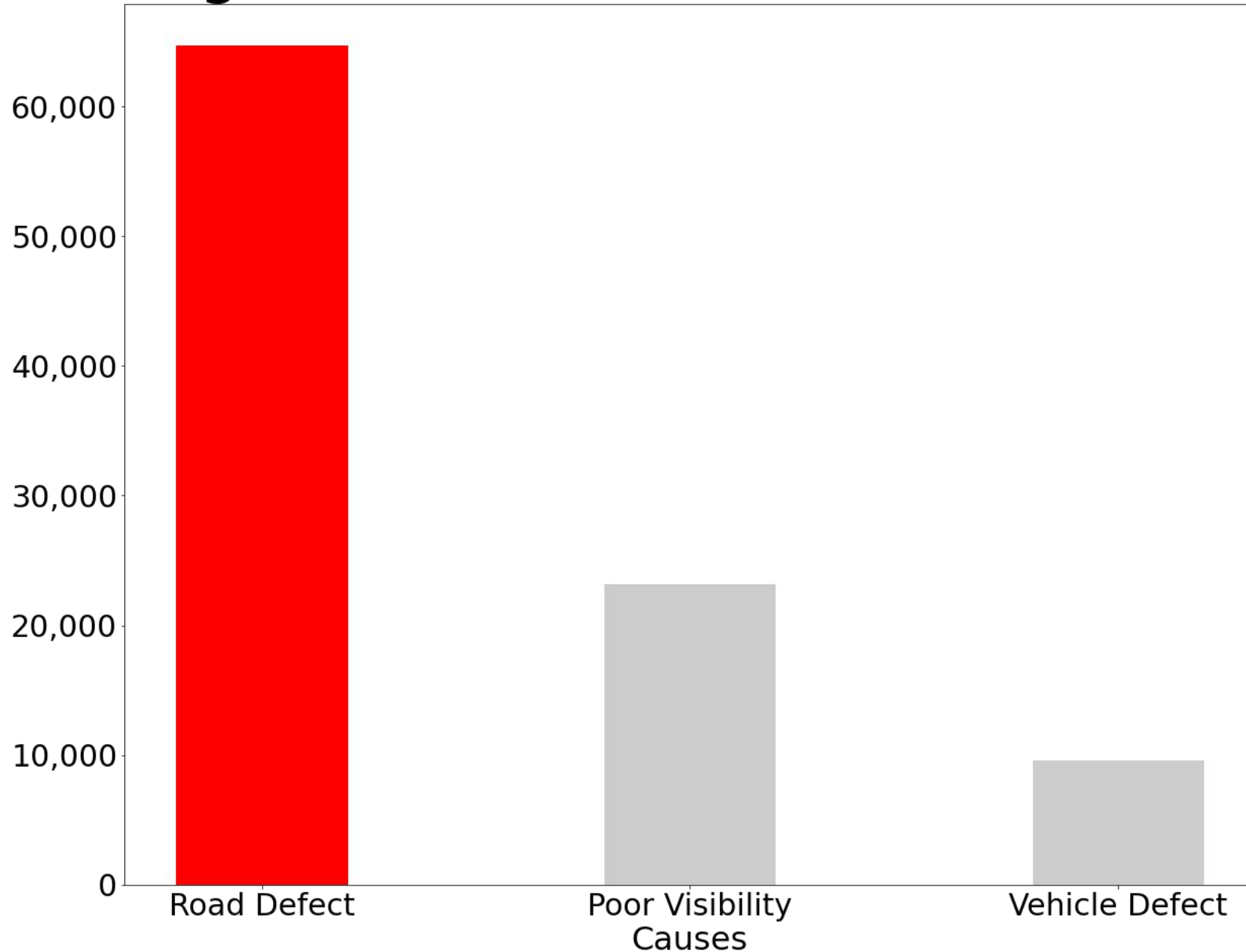
Primary Contributory Causes of Crashes



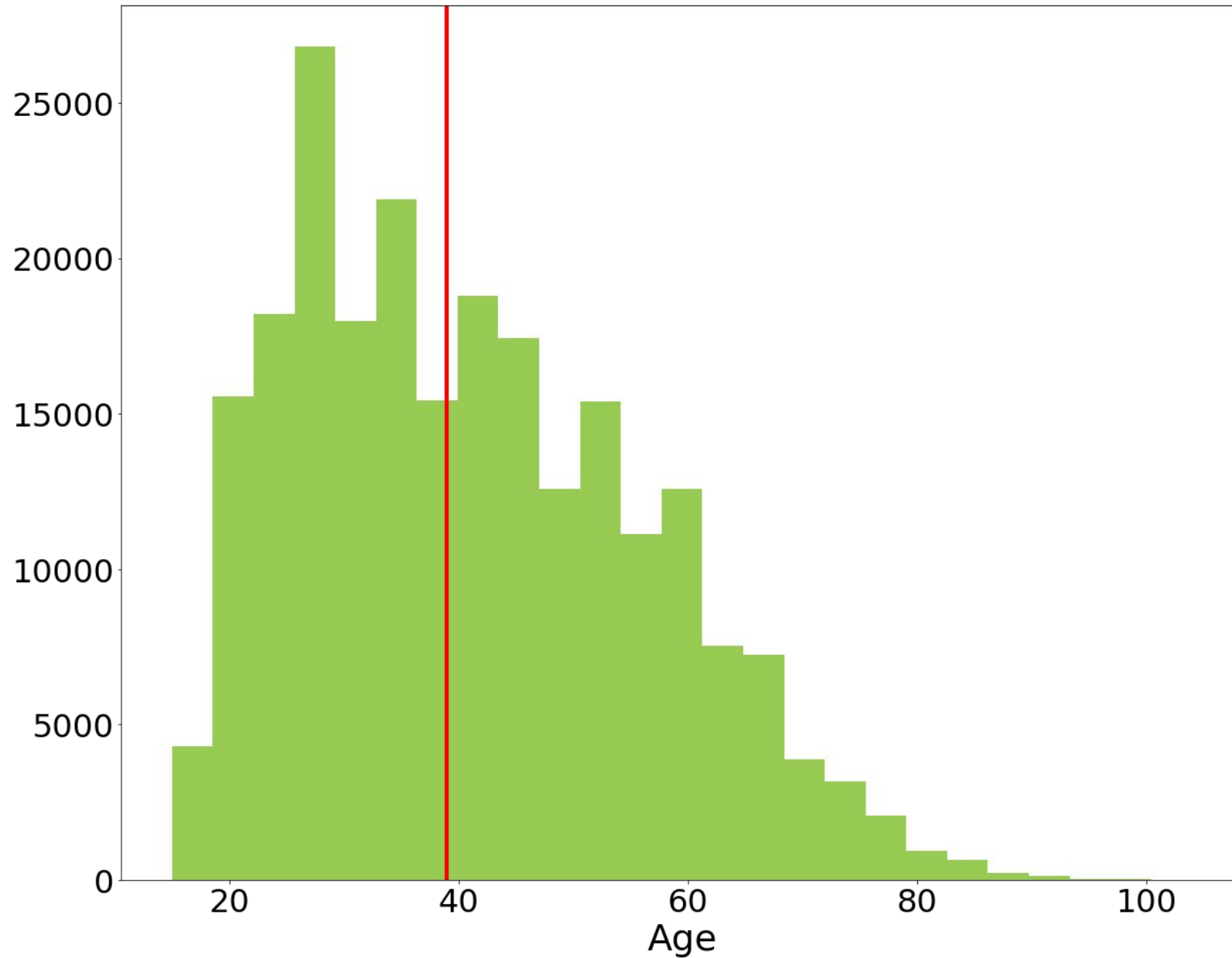
25% of crashes were Less Preventable

- Road Defects
- Poor Visibility
- Vehicle Defects

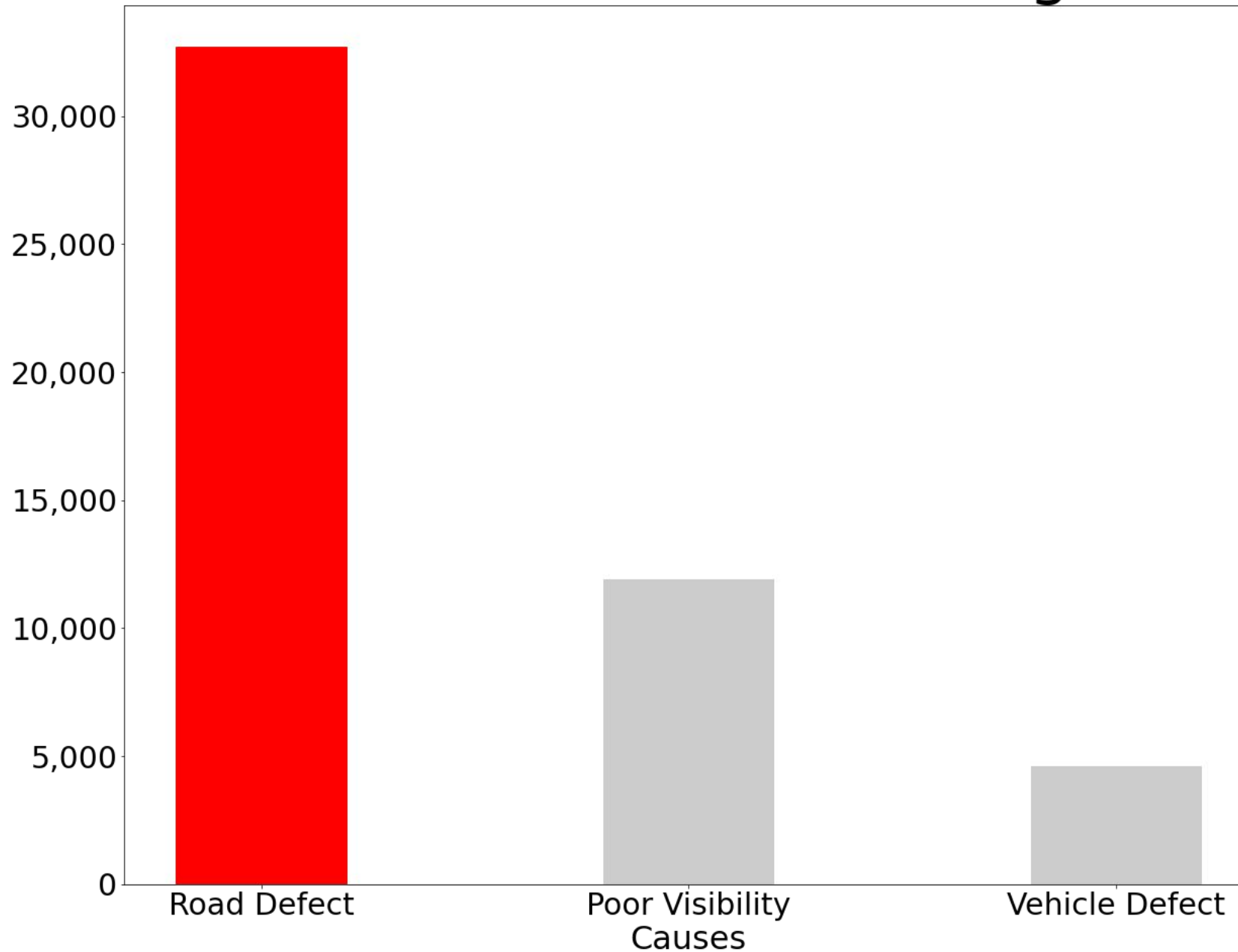
Categories of Less Preventable Crashes



Ages of Drivers involved in Less Preventable Crashes:



Less Preventable Crashes for Ages 20-39





Recommendations

- Fixing roads that our model pointed to
- Focus on repairing roads in North Chicago area.

- Create a program to educate drivers on preventable crashes.

Key Takeaways

Invest in Roads



Repair damaged roads that potentially lead ↓ crashes immediately.

Invest in People



Incentive Program targeting age group 20-39

Focus on Hot-Spots



Target hot-spot areas where crashes were less preventable