

# Vision Zero Task Update 2017-2018

Public Safety Commission – December 3, 2018

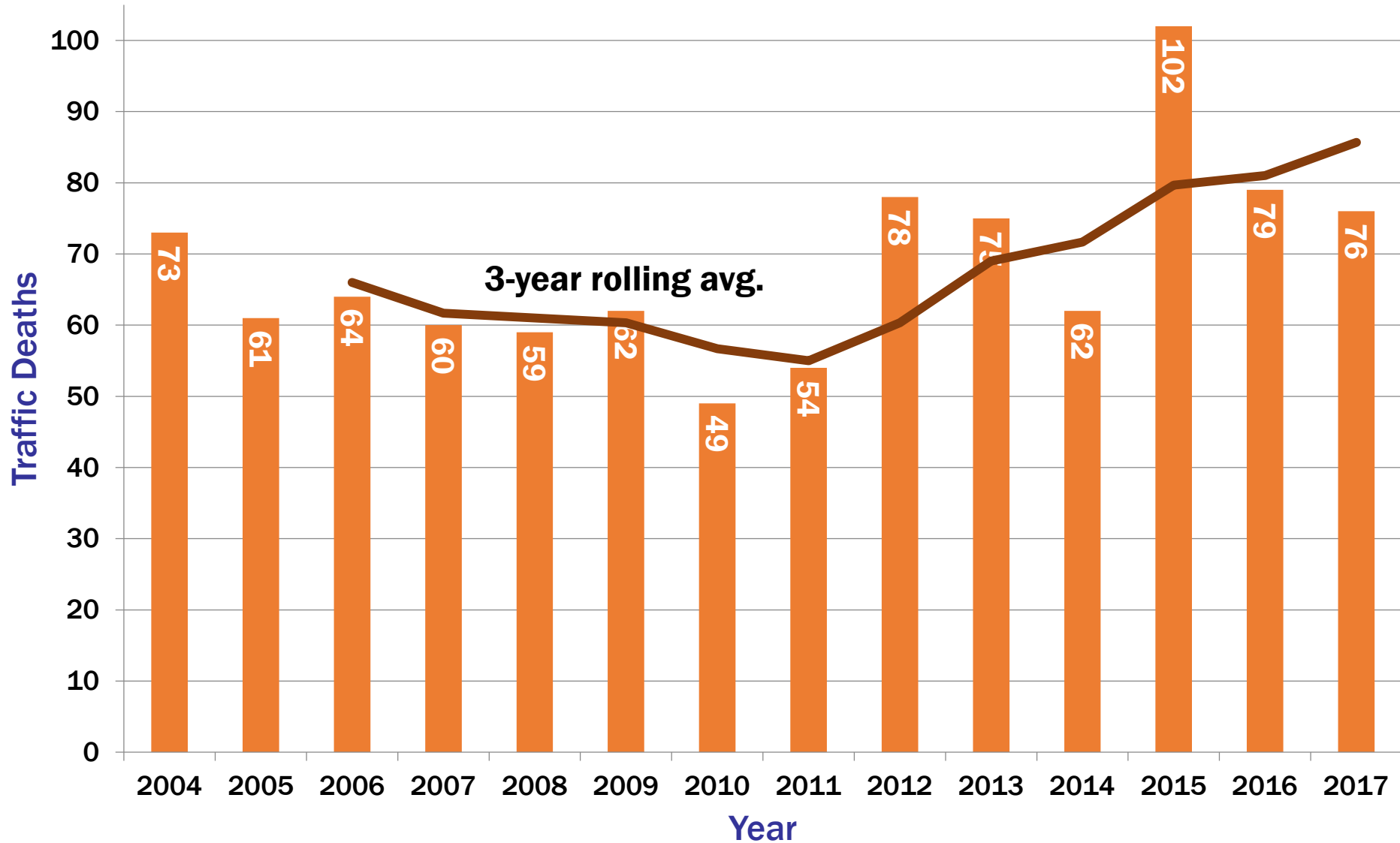




**79** people die in crashes  
in the average year

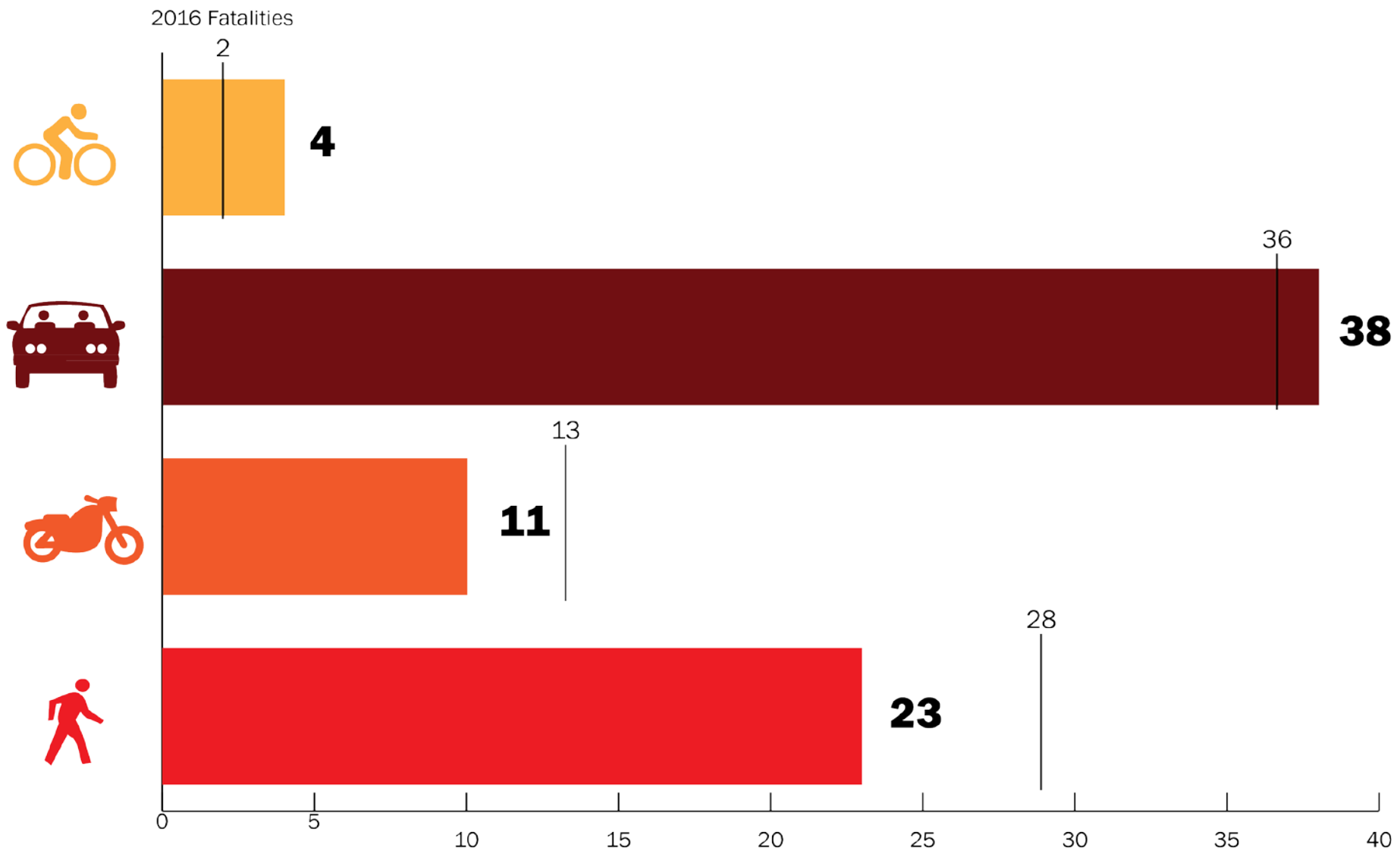


# Austin traffic deaths



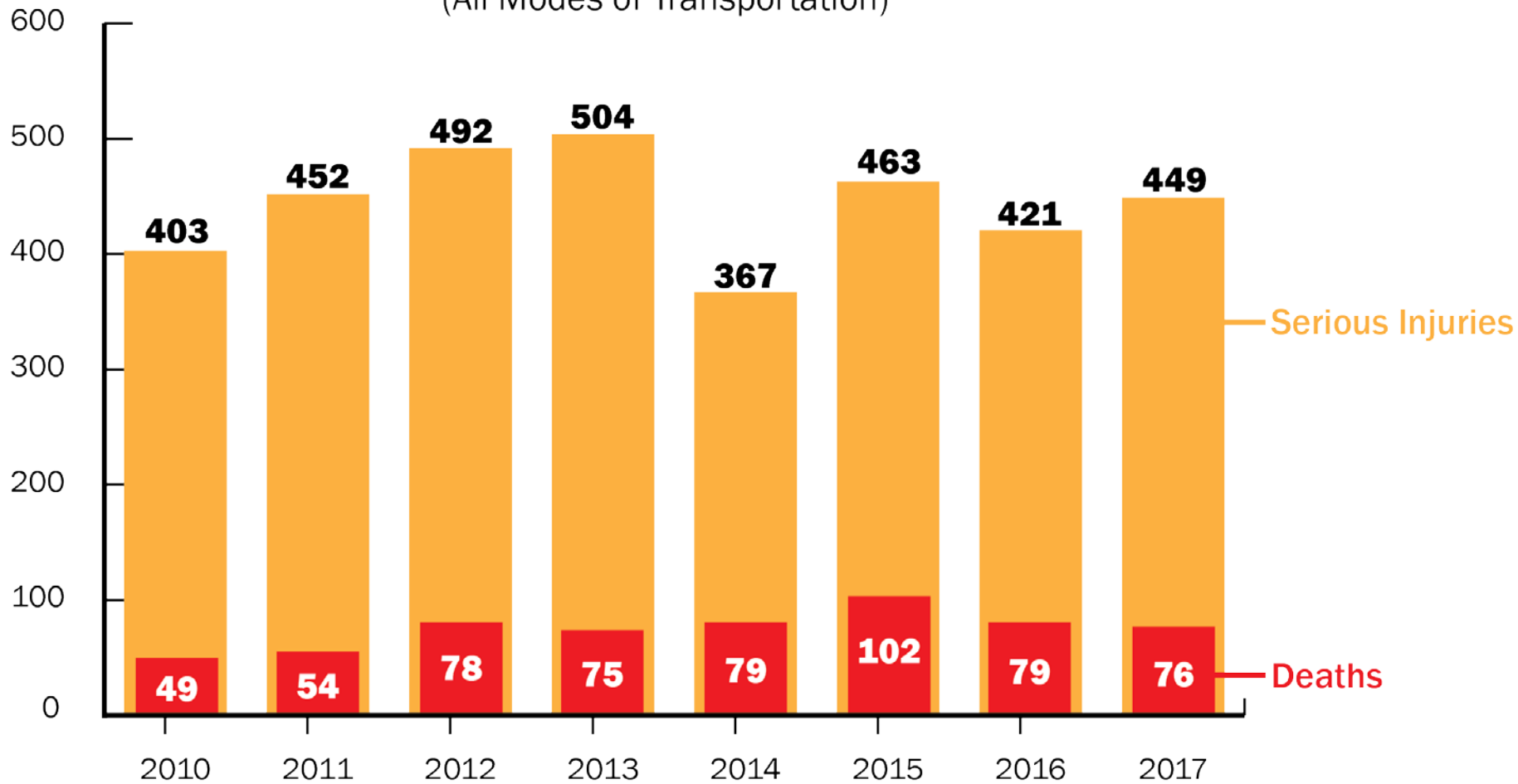


# 2017 traffic deaths by mode



# Serious Injuries & Deaths 2010 - 2017

(All Modes of Transportation)

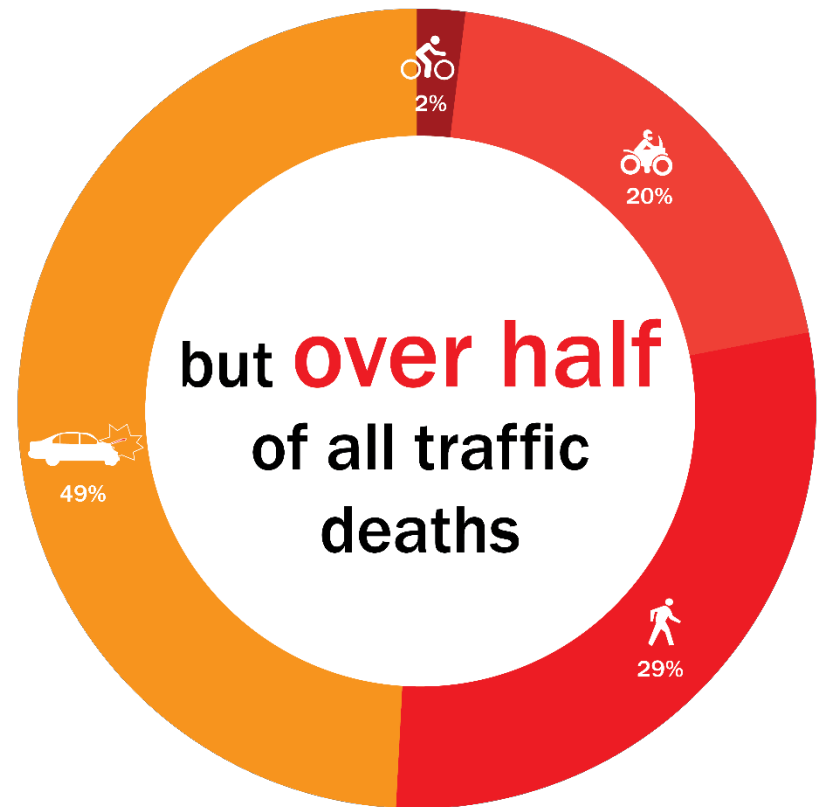
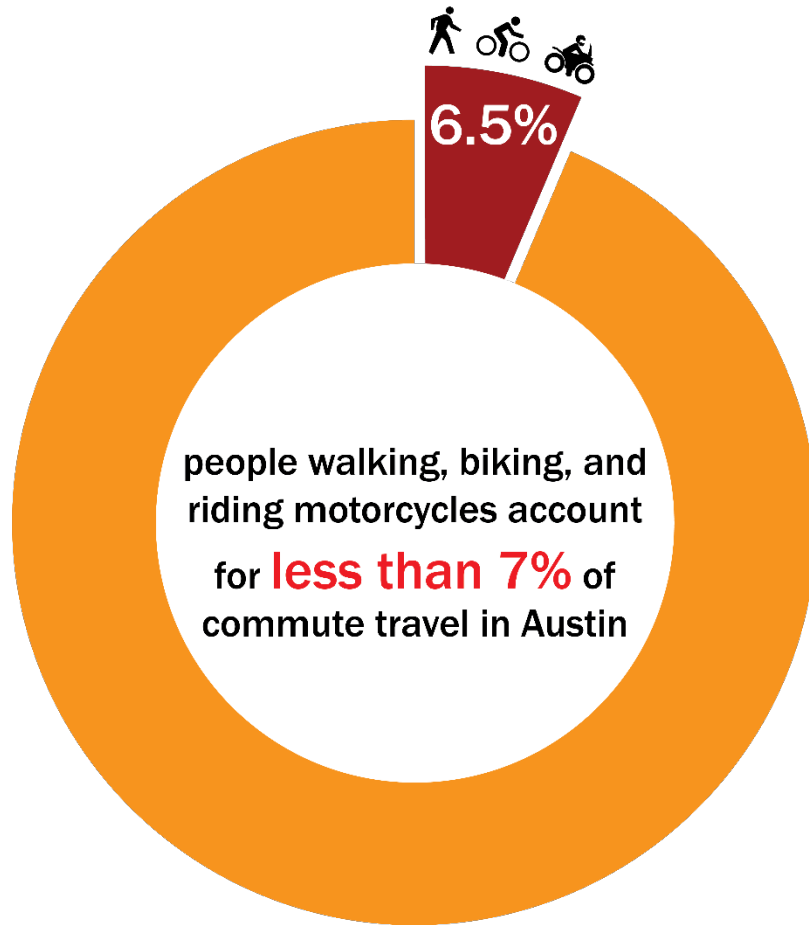


Sources: Deaths are APD data; serious injuries from TxDOT CRIS.



# Who's Affected?

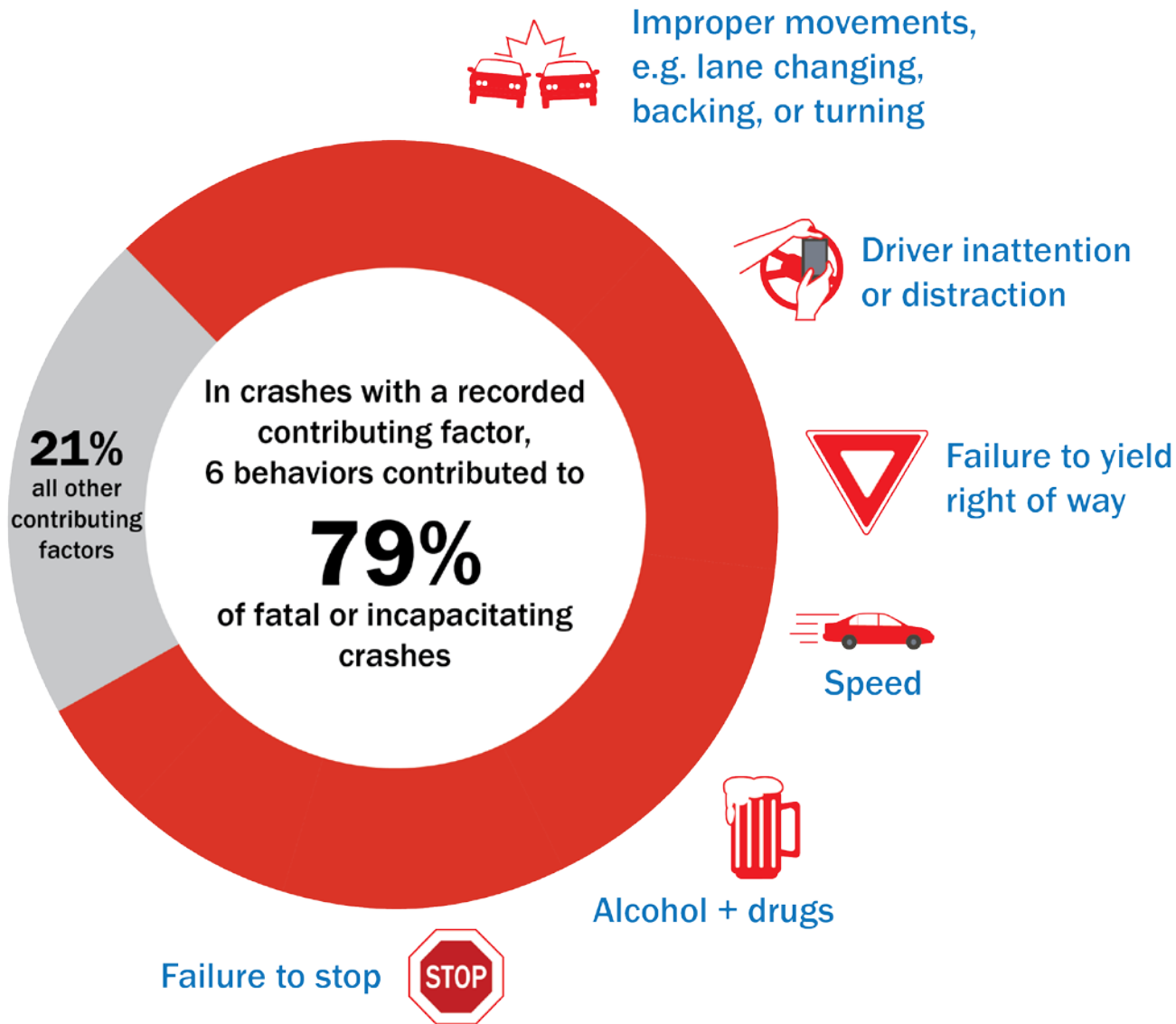
Disproportionately, people walking, biking, & riding motorcycles



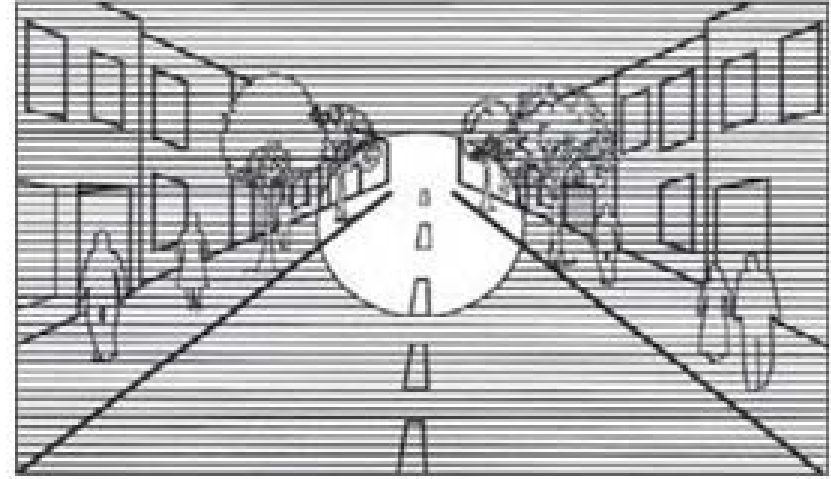
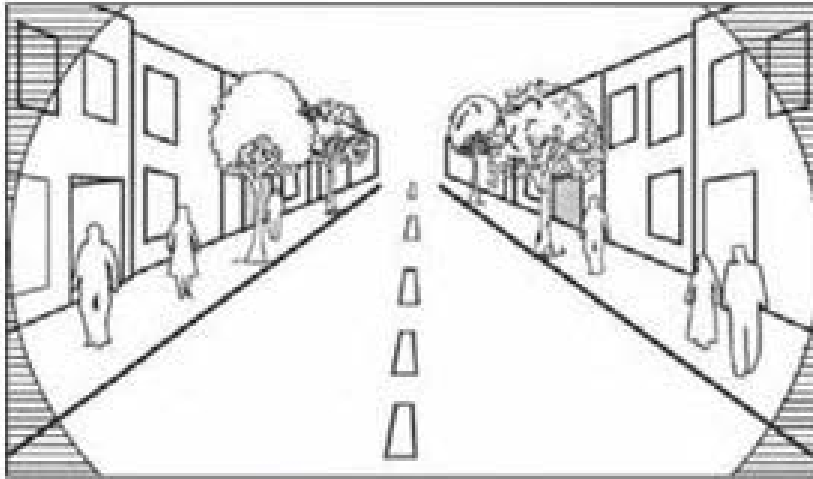




# What Causes Crashes?



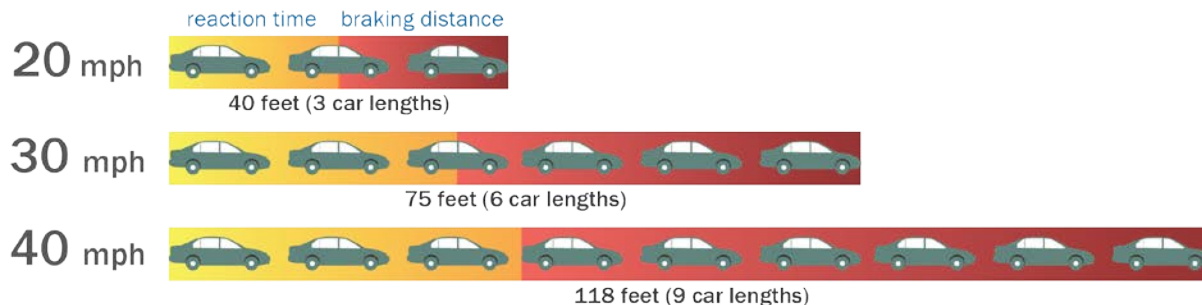
# Top Cause: Speed



**15 mph**

**30-40 mph**

Field of vision decreases as speed increases



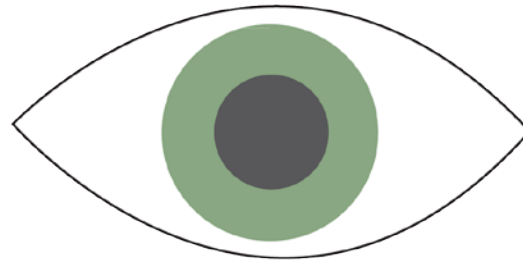
Distance covered to brake is increased, increasing the likelihood of a collision



# Top Cause: Distraction



**Manual**



**Visual**



**Cognitive**

# Top Cause: Distraction



more likely to crash while txtng

Virginia Tech Transportation Institute

<https://www.vtti.vt.edu/featured/052913-cellphone.html>



decrease in activity in the parietal lobe when listening to language. This part of the brain processes movement & images.

National Safety Council

<http://www.nsc.org/learn/NSC-Initiatives/Pages/distracted-driving-how-cell-phone-distracted-driving-affects-the-brain.aspx>

**50%** less environmental information processed by the brain, regardless of whether drivers were using hands-free devices. Inattention blindness reduces visual scanning so drivers “look, but fail to see.”

National Safety Council

<http://www.nsc.org/DistractedDrivingDocuments/Cognitive-Distracted-White-Paper.pdf>

# Top Cause: Intoxication



of traffic-related deaths nationally involve intoxication

Centers for Disease Control and Prevention

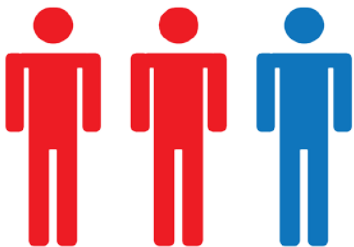
[http://www.cdc.gov/Motorvehiclesafety/impaired\\_driving/impaired-driv\\_factsheet.html](http://www.cdc.gov/Motorvehiclesafety/impaired_driving/impaired-driv_factsheet.html)



person is killed every **51 minutes** nationally from alcohol-impaired driving

Centers for Disease Control and Prevention

[http://www.cdc.gov/Motorvehiclesafety/impaired\\_driving/impaired-driv\\_factsheet.html](http://www.cdc.gov/Motorvehiclesafety/impaired_driving/impaired-driv_factsheet.html)

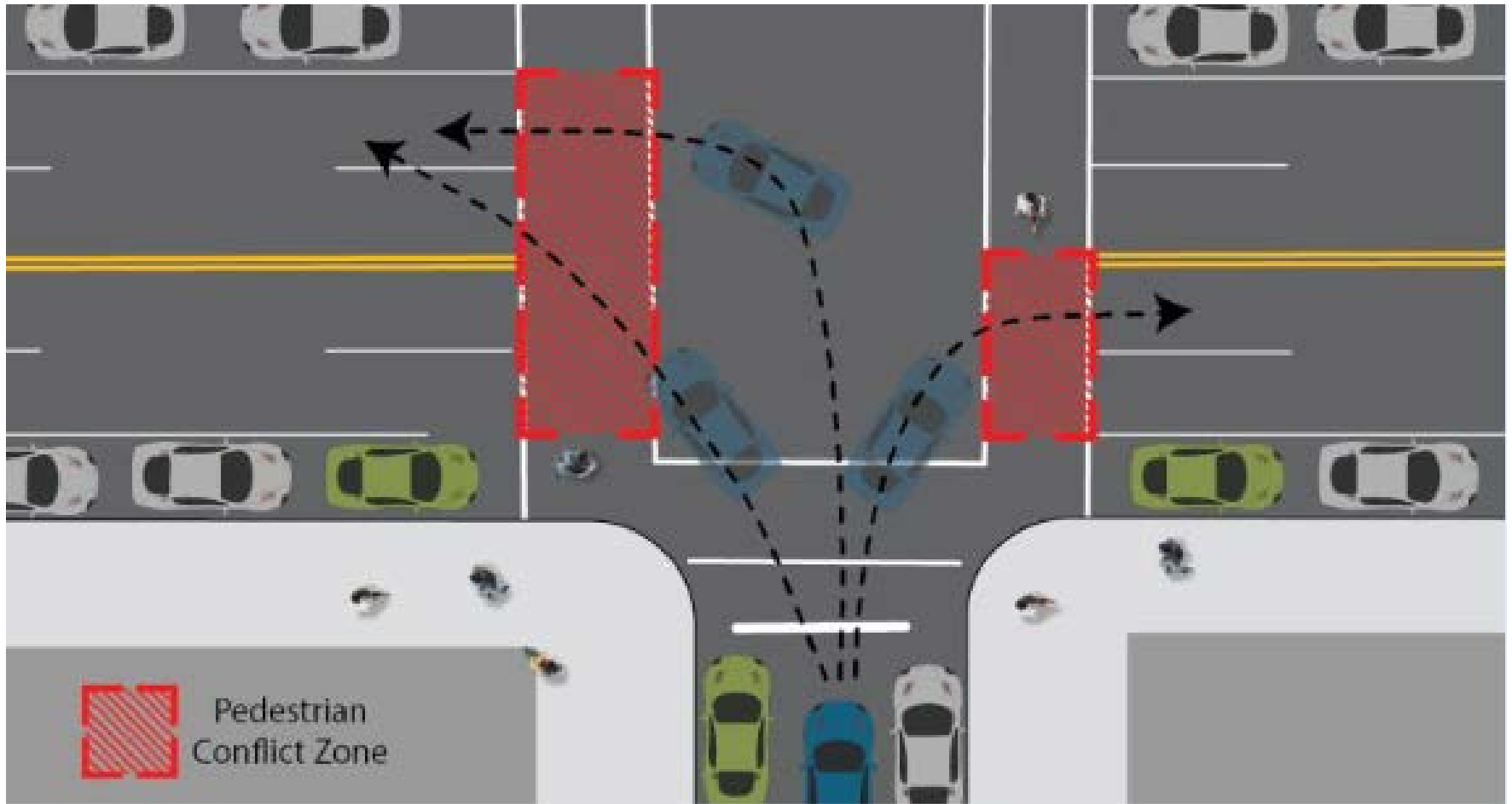


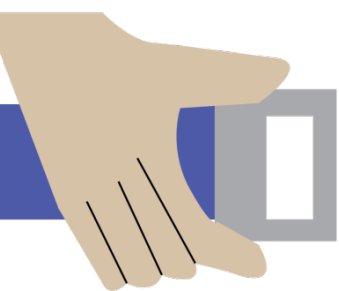
**2 in 3** people will be involved in a drunk driving crash in their lifetime

National Highway Traffic Safety Administration

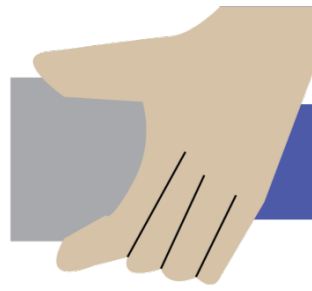
<http://www-nrd.nhtsa.dot.gov/Pubs/812013.pdf>

# Top Causes: Failure to Stop, Yield ROW & Improper Movements



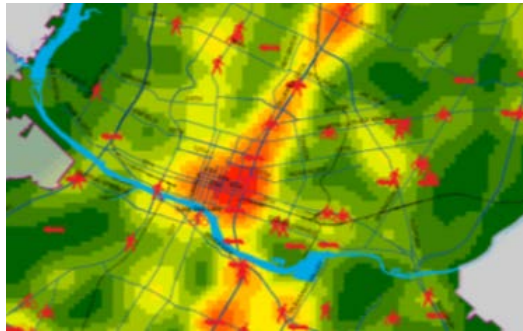


**Public health problem**  
**like smoking or not wearing a seatbelt**





# Focus Areas



**Evaluation**



**Enforcement**



**Engineering**



**Education**



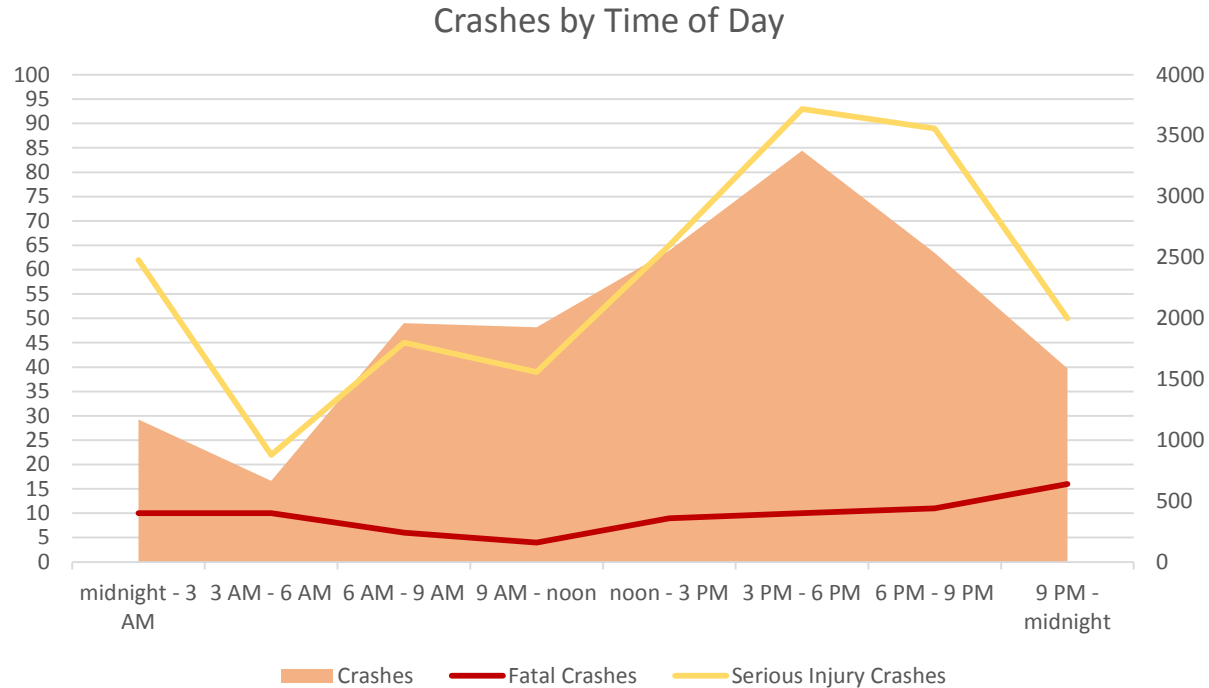
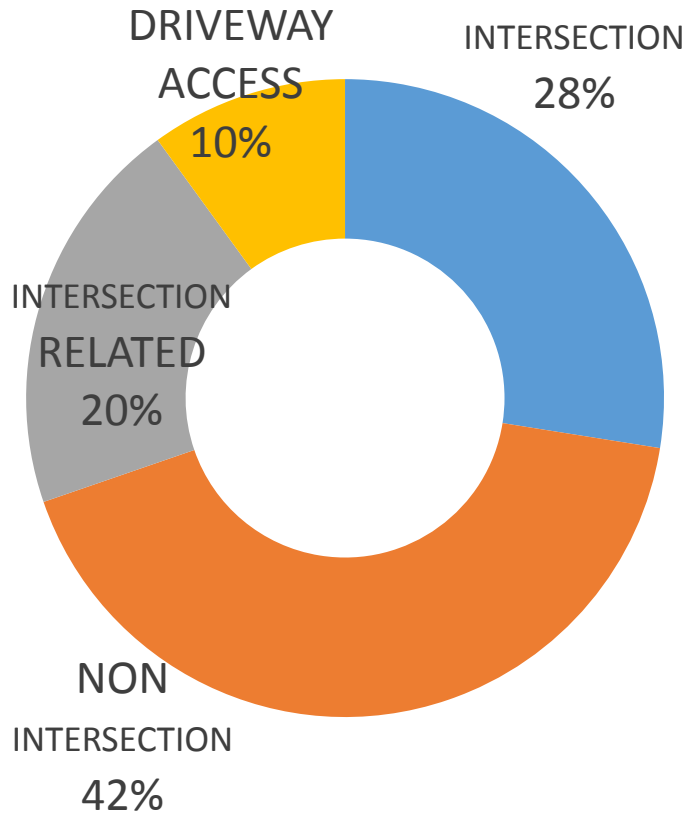
**Policy**





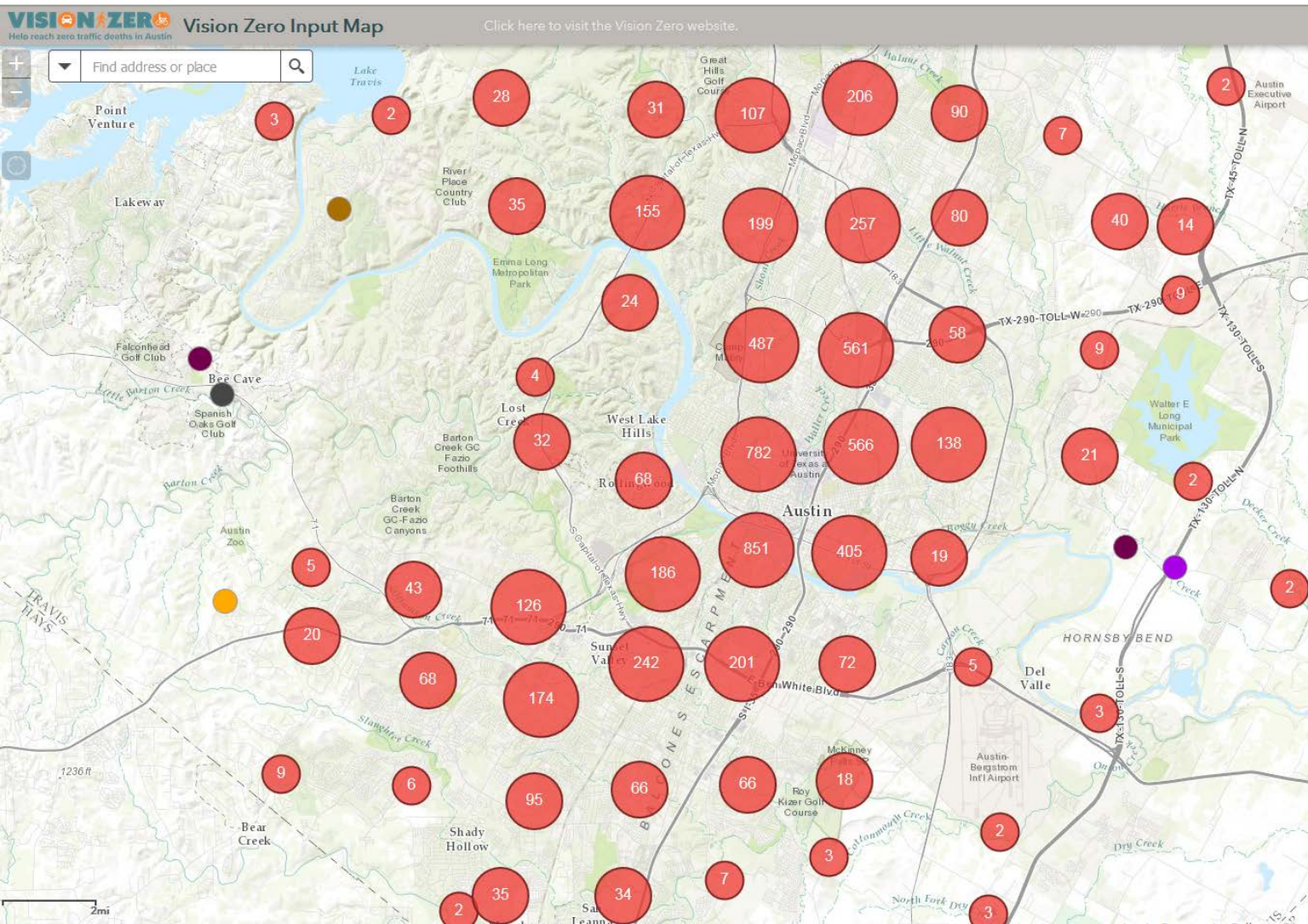
# Evaluation Achievements

# Focus Area: Evaluation



**Cross-Agency Data Sharing:** APD and ATD gained access to TxDOT's Crash Records Information System (CRIS) in late 2016. This access to a single database for crash records is helping staff across agencies to evaluate crashes and to better coordinate safety improvements going forward.

# Focus Area: Evaluation

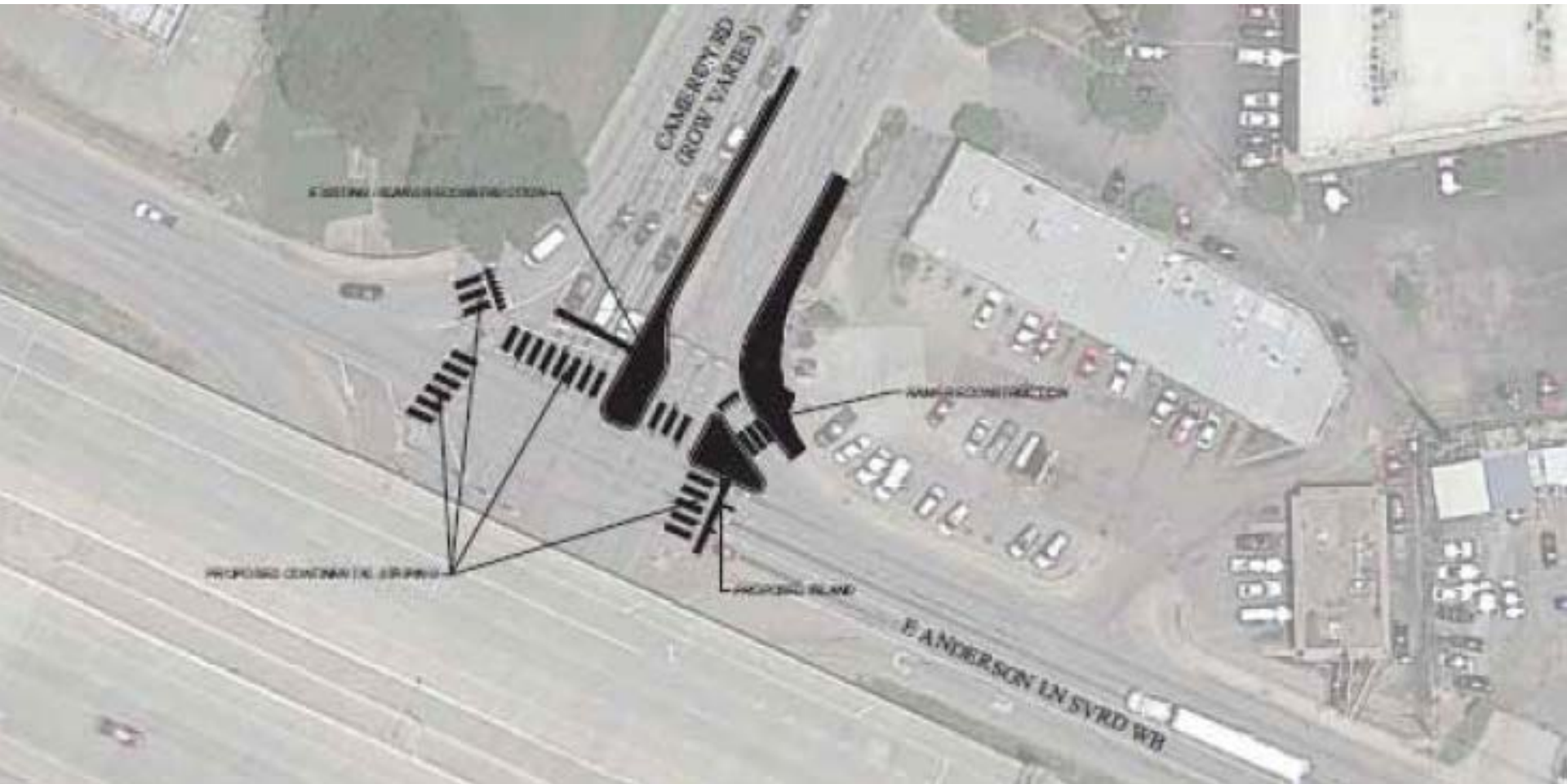


## Vision Zero Input Tool:

Over 7,000 comments, covering all of Austin. These comments are being used in planning efforts, including the Pedestrian Safety Action Plan.



# Focus Area: Evaluation



**Evaluation of Top Crash Locations:** ATD evaluates crash data to identify intersections with the greatest potential to be made safer through re-design. Metrics used to review and prioritize the intersections included the frequency, rates and severity of crashes. \$15M is dedicated to this work under the 2016 Bond and another \$11 M was funded in the 2018 Bond.



# Focus Area: Evaluation

ATD has been working with the Center for Transportation Research and the Texas Transportation Institute on a number of research projects to advance Vision Zero.





# Enforcement Achievements



# Focus Area: Enforcement



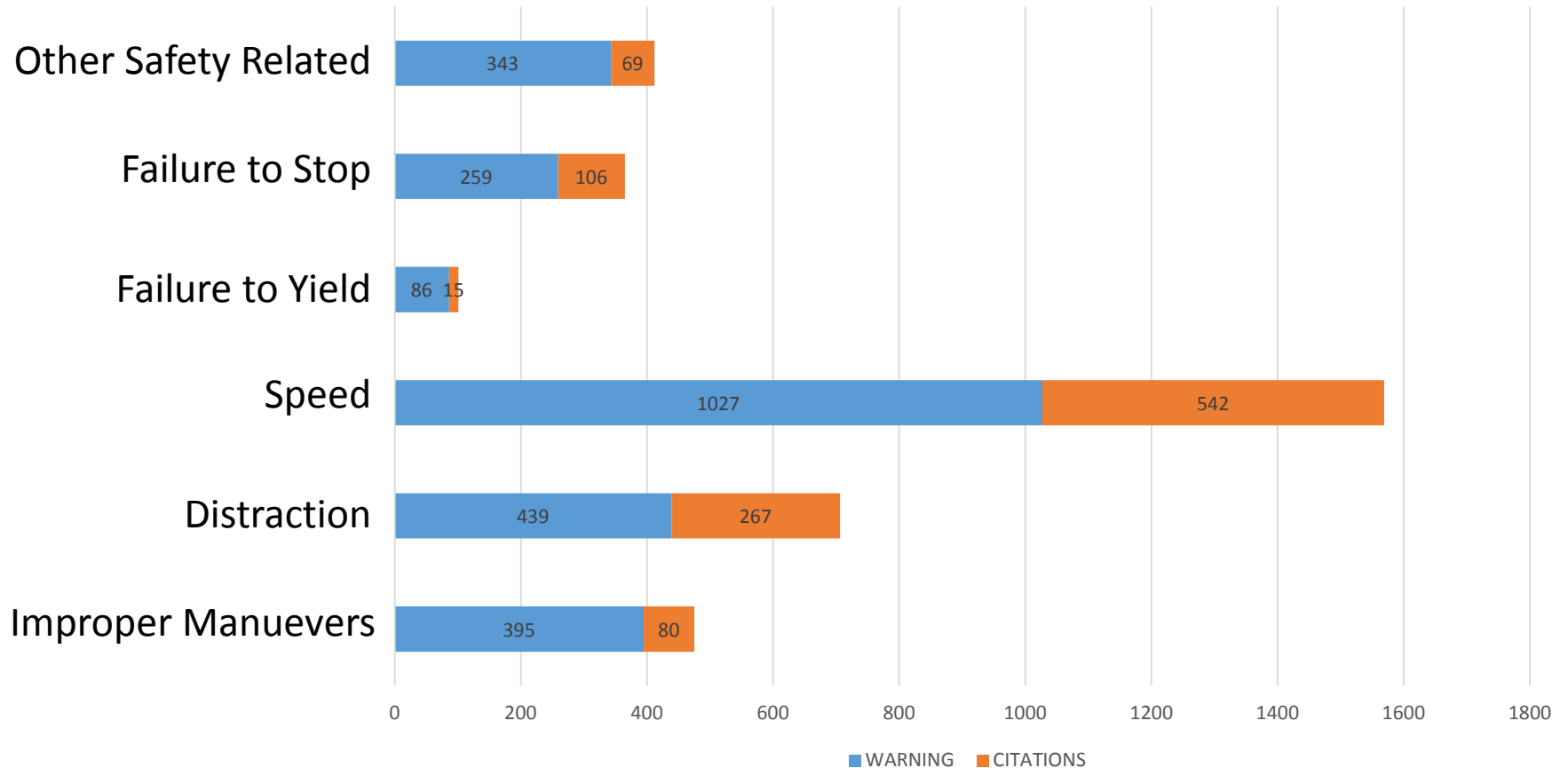
**No Refusal:** APD has increased the number of No Refusal events, including extending enforcement around holidays and events. During No Refusal events, officers have a bench warrant allowing blood draws for suspected drunk drivers who refuse to take a breathalyzer or blood draw test for intoxication. APD had an estimated 142 No-Refusal Nights in 2017, up from 117 in 2016. ATD and APD are working on an expansion of No Refusal in 2019.



**Safe Driver Initiative:** In 2016, APD started the Safe Driver Initiative to enforce the City's Hands-Free Ordinance. Officers positioned on a Capital Metro bus observed whether drivers on Interstate 35 (IH-35) were using handheld devices and alerted motorcycle officers to issue citations. In 2017, APD issued 3,344 citations and 608 warnings during Downtown and Bus Operations.

# Focus Area: Enforcement

CITATIONS & WARNINGS – JAN 1 – OCT 31, 2018

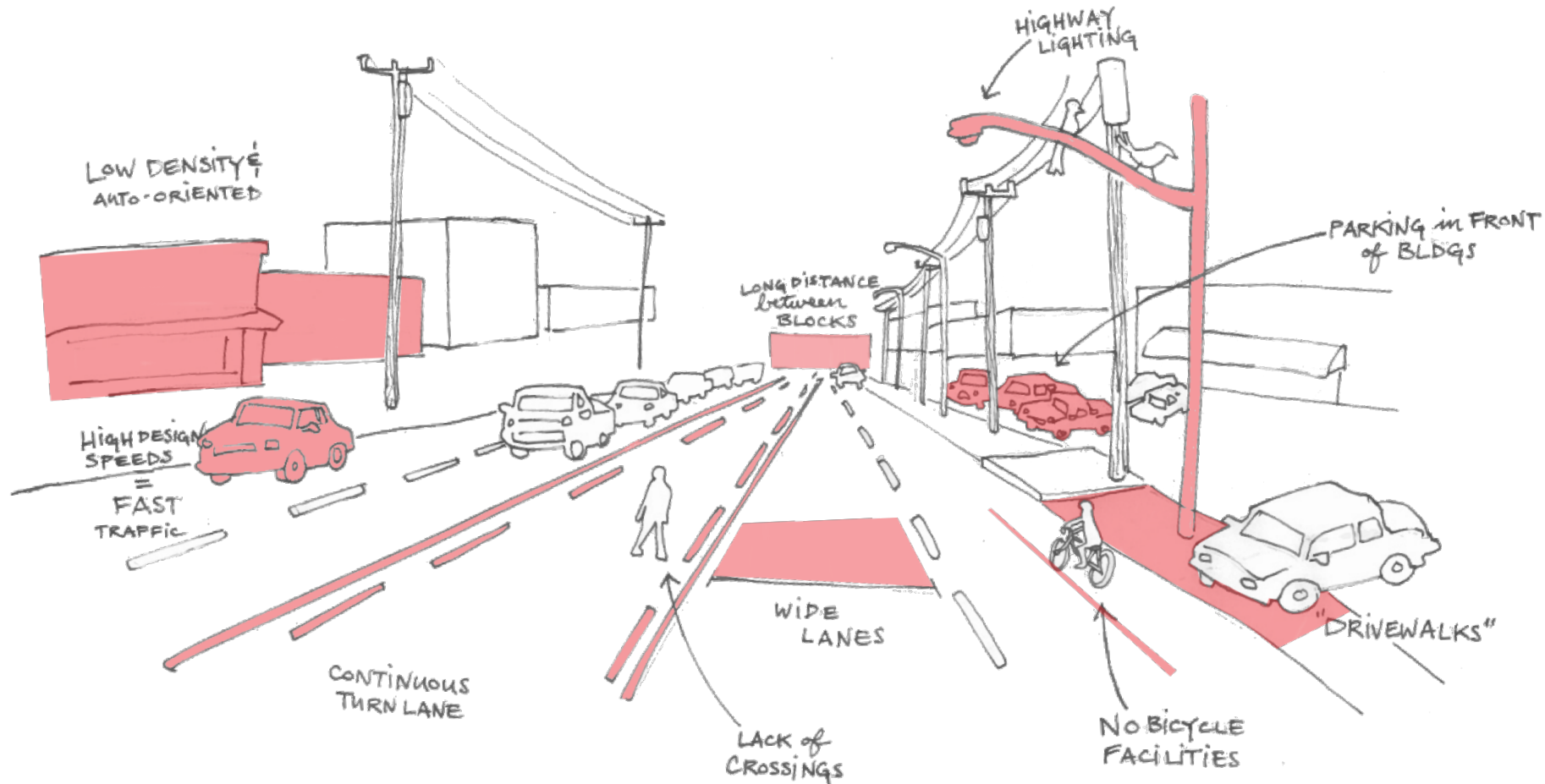


**Vision Zero in Action:** A partnership between APD and ATD to focus enforcement resources on key dangerous behaviors and school-zone enforcement.

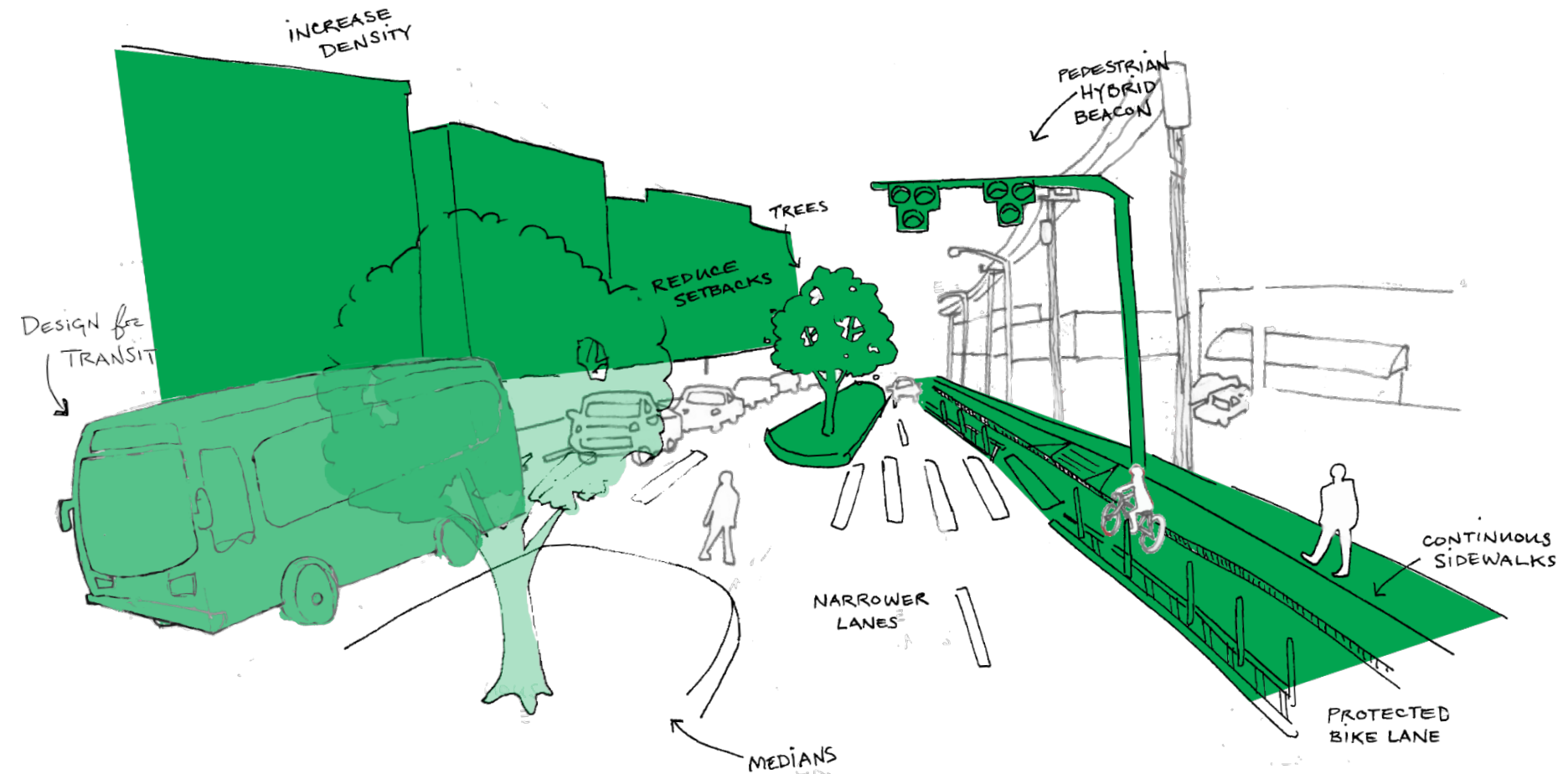


# Engineering Achievements

# Design influences behavior



# Changes to road & development patterns can improve safety





# Focus Area: Engineering



**Active Transportation:** The Active Transportation and Street Design Division, Sidewalk and Special Projects Division, Urban Trails Program and Safe Routes to School work to add miles of sidewalks, bikeways, trails that help everyone walk, bike and access transit with greater comfort, ease and safety.



# Focus Area: Engineering



**Action 20:** Direct engineering, enforcement, and education resources to high injury and fatal crash hotspot locations. Implement at least five safety engineering projects annually at top crash prone locations. Implement low-cost high impact safety improvements throughout the roadway network within the City of Austin based on safety engineering studies.

## Top Crash Intersections

Locations completed since 2016:

- Hwy 183 at Cameron Road – 57% Reduction
- Martin Luther King, Jr. Blvd. at IH-35 – 61% Reduction
- Lamar Blvd. at Parmer Lane – 43% Reduction
- Lamar Blvd. at Rundberg Lane – 22% Reduction
- Pleasant Valley/Elmont – Completed SPRING 2018
- South Congress/Oltorf - Completed SUMMER 2018
- Red River/45<sup>th</sup> – Completed FALL 2018
- Slaughter Lane at Manchaca Road - FALL/WINTER 2018

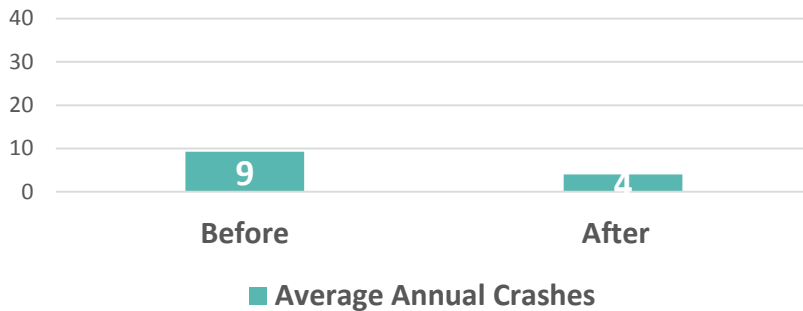
### PROJECTS UNDERWAY

- Slaughter/South 1st (including Slaughter/Alice Mae)
- Slaughter/Cullen
- I35 at Braker

# EFFECTIVENESS

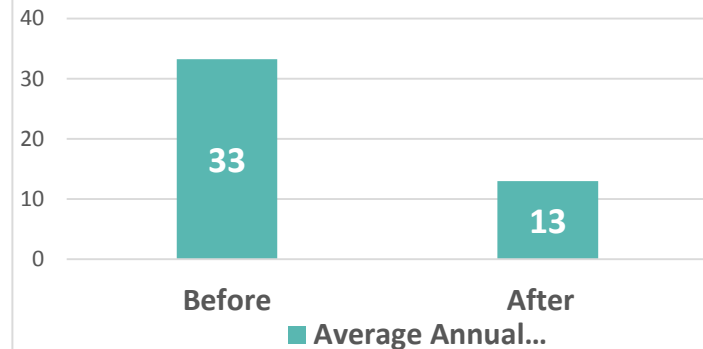
**Before and After Comparison of Total Crashes  
@ US 183/Cameron Intersection  
(2012-2017)**

**57%**

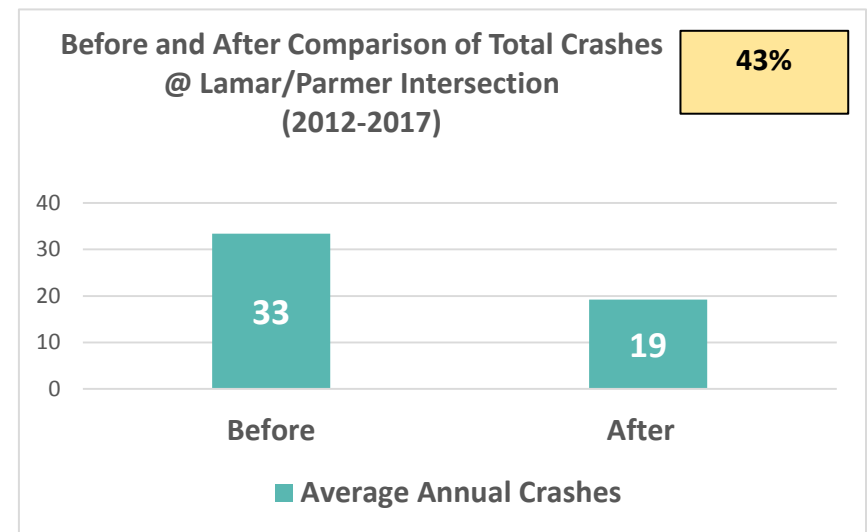
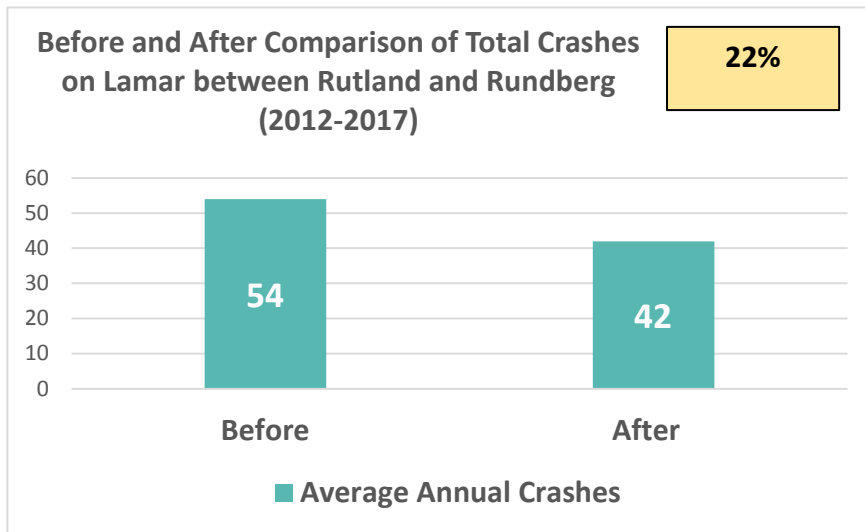


**Before and After Comparison of Total Crashes  
@ I-35/MLK Intersection  
(2012-2017)**

**61%**



# EFFECTIVENESS



# Focus Area: Engineering

## Leveraging Grant Funding 2019-2022

- Projects Selected for Funding:
  - Emergency Vehicle Preemption
  - Trails
  - Roads
  - Pedestrian Crossings





# Education Achievements



# Street Teams & Outreach

Over 60,000 people reached to date.

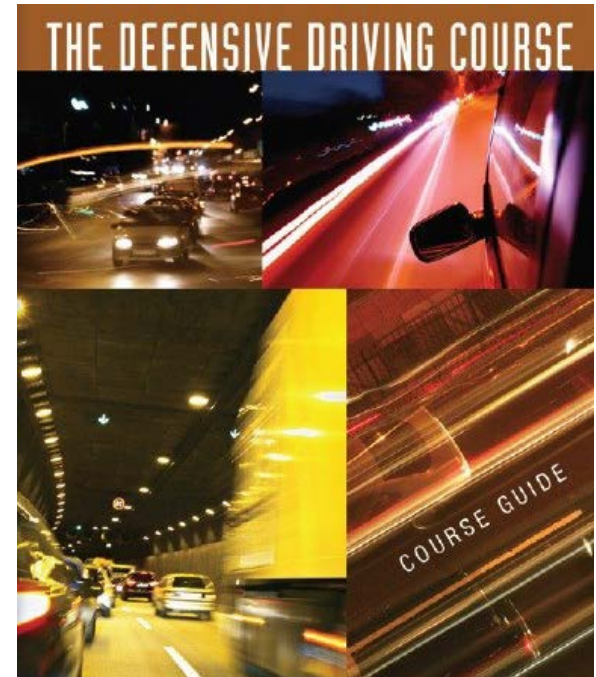




# Focus Area: Education

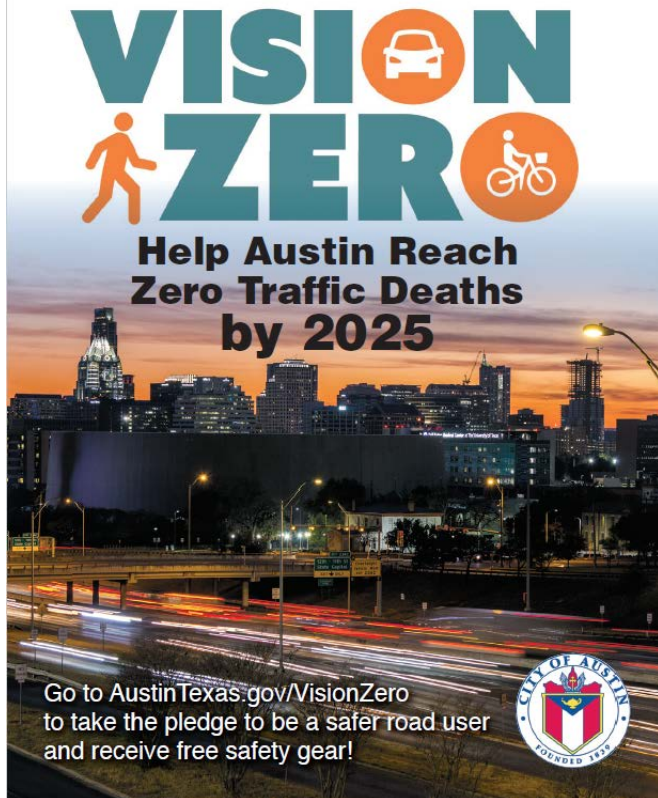


**Internal City of Austin Training:**  
Incorporate Vision Zero into defensive driving courses and staff that interface with media on Vision Zero messaging



# Focus Area: Education

## Media Campaign



Austin necesita de tu ayuda para alcanzar su gran meta! Con unos simples pasos podemos alcanzar CERO muertes de tránsito. Haz el compromiso "Vision Zero" y obtén equipo de seguridad gratis.

<http://bit.ly/visionzeroATX>

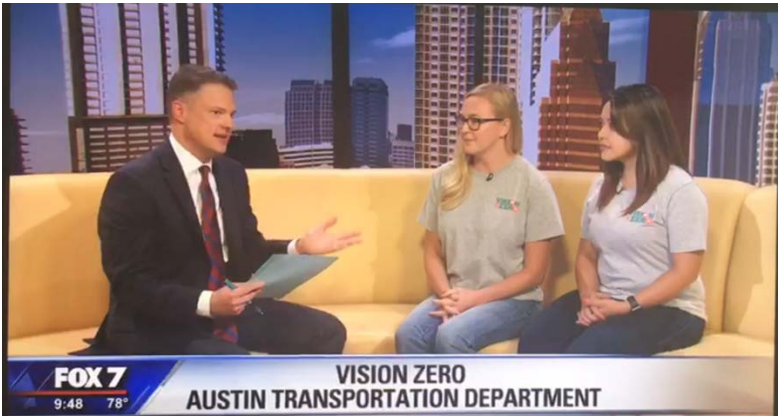
See Translation



31



# Focus Area: Education



# Focus Area: Education



Do you drive all by yourself to get around town?



Learn about other options through the City's new Smart Trips program!



Fill out a survey and let us know more about your commuting habits.



Once we receive your survey, a STAR (Smart Trips Austin Representative) will meet with you and drop off maps, bike lights, pedometers and other tools to help you diversify your commute.



We'll help you figure out the best options and routes for your commute.



Try the bus. It's easier than you think with the help of a STAR volunteer!



Ride a bike. It's faster and more convenient than you think with a STAR volunteer!



So many choices to a smarter commute.



We can't wait to hear about YOUR Smart Trips experience!



Maximize your transportation options! Minimize your commute stress!

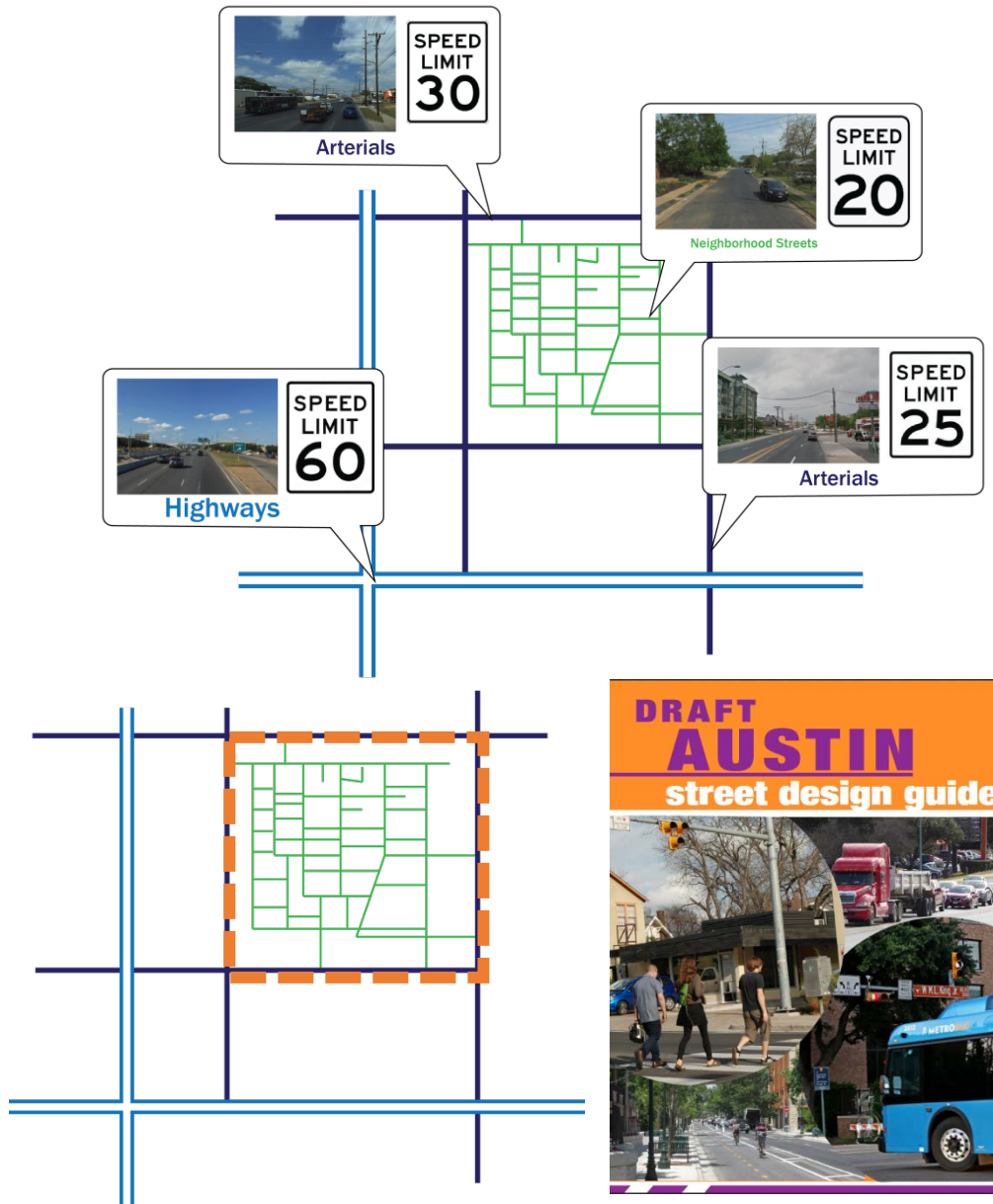
**Smart Trips:** Smart Trips Austin is an active transportation encouragement program that aims to improve health and manage congestion by increasing walking, biking and public transit use to access work sites, schools, recreation, shopping and medical facilities. The City of Austin's Smart Trips Program in Central Austin saw a 6% increase in transit and a 3% increase in walking with a 2% decrease in single occupant vehicle trips.



# Policy Achievements



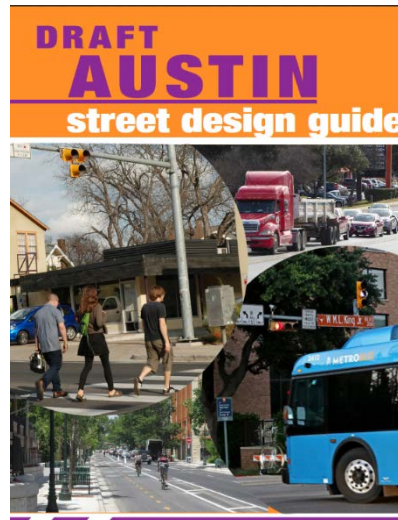
# Focus Area: Policy



## Speed Management:

A multipronged approach that includes:

- (1) support for lower the default speed to 25 miles per hour;
- (2) Incorporating target speeds into plans and manuals;
- (3) Systematically evaluate arterial speed limits citywide for appropriateness; and
- (4) Addressing speed management for neighborhoods.



# Focus Area: Policy

## 2016 DUI FACTS — Travis County



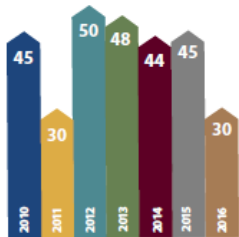
### WHAT IS A DRIVING UNDER THE INFLUENCE (DUI) CRASH?

A crash where the driver has a blood alcohol concentration (BAC) result of > 0.08, or had a positive alcohol test, or had a positive drug test, or had a contributing factor of *had been drinking, or under the influence of alcohol, or under the influence – drugs, or taking medication.*

TRAVIS COUNTY IS RANKED **FIFTH** IN TEXAS FOR FATAL DUI CRASHES

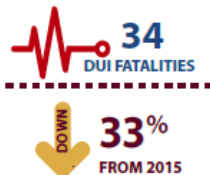


### FATAL DUI CRASHES



In 2016, Travis County experienced the fewest number of fatal DUI crashes since 2011.

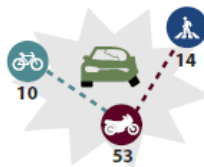
### DUI FATALITIES



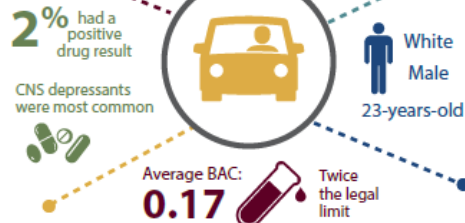
**31 & 39**  
YEARS OLD  
most common ages  
of a person killed in  
a DUI crash

### DUI CRASHES AND OTHER ROAD USERS

In 2016, there were 14 DUI crashes that involved vehicles colliding with pedestrians, 10 that involved pedalcyclists, and 53 that involved vehicles colliding with motorcyclists.



### PORTRAIT OF A DUI DRIVER



Research into Alcohol Consumption: Austin Public Health research and consider the impact of limiting the number or density of alcohol-serving establishments in certain areas.



# Focus Area: Policy



## PEDESTRIAN SAFETY ACTION PLAN

- **Awarded \$1.8M** to address pedestrian safety in a joint project with Capital Metro
- **Pedestrian Crossing Program** now funded at \$4M through the 2018 Bond.



# Focus Area: Policy

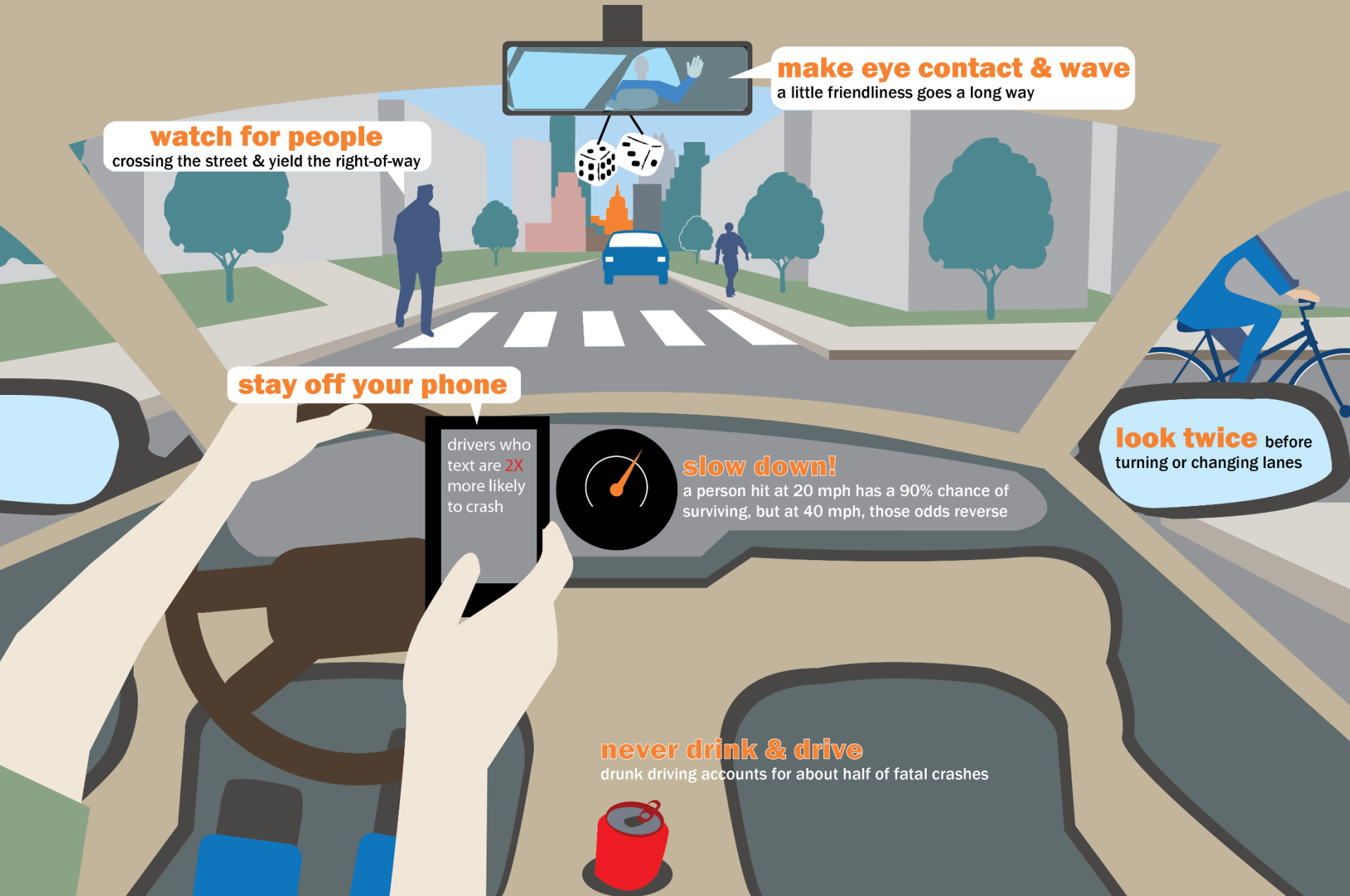
## ASMP Table of Contents

- Chapter 1: Prioritizing Our Safety
- Chapter 2: Managing Our Demand
- Chapter 3: Supplying Our Transportation Infrastructure
- Chapter 4: Operating Our Transportation Network
- Chapter 5: Protecting Our Health and Environment
- Chapter 6: Supporting Our Community
- Chapter 7: Implementing Our Plan

**Integration of Vision Zero into Plans and Manuals:** Vision Zero is a key focus of the Austin Strategic Mobility Plan and is a core consideration in the update of the Transportation Criteria Manual.



# What can you do today on the road to ZERO?



## watch for people

crossing the street & yield the right-of-way

## make eye contact & wave

a little friendliness goes a long way

## stay off your phone

drivers who text are **2X** more likely to crash

## slow down!

a person hit at 20 mph has a 90% chance of surviving, but at 40 mph, those odds reverse

**look twice** before turning or changing lanes

## never drink & drive

drunk driving accounts for about half of fatal crashes



# Questions

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