



Texas Pedestrian Safety & The Safe Systems Approach

Becky Walker, Regional Program Manager, TX

August 18, 2022

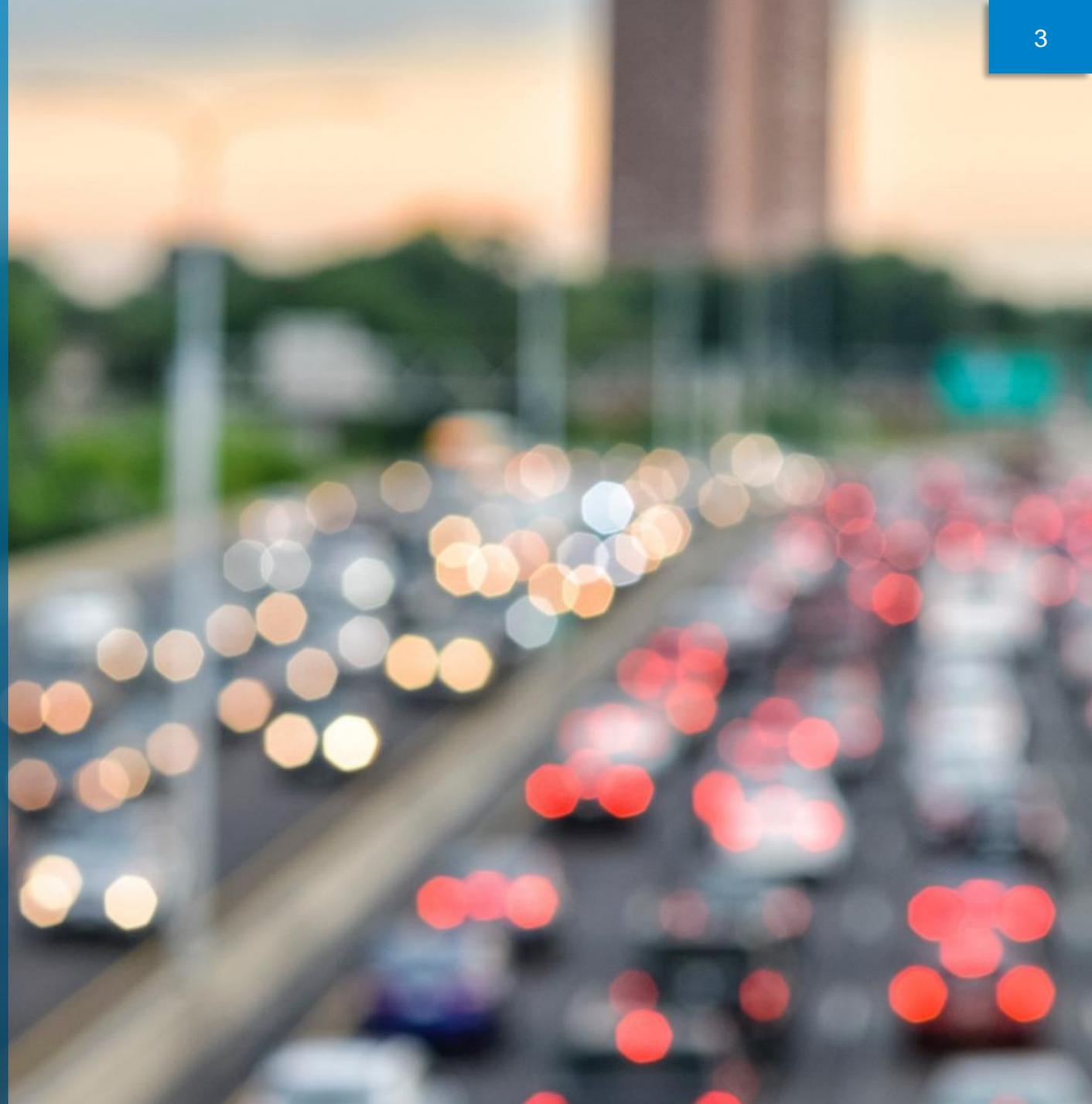
An aerial photograph of a complex highway interchange with multiple overpasses and ramps. The image is in a dark, blue-tinted color scheme. A white rectangular text box is centered over the image, with blue L-shaped corner brackets on the left and right sides. The text inside the box is in a blue, sans-serif font.

Save lives, prevent injuries and reduce economic costs due to road traffic crashes through education, research, safety standards and enforcement activity.

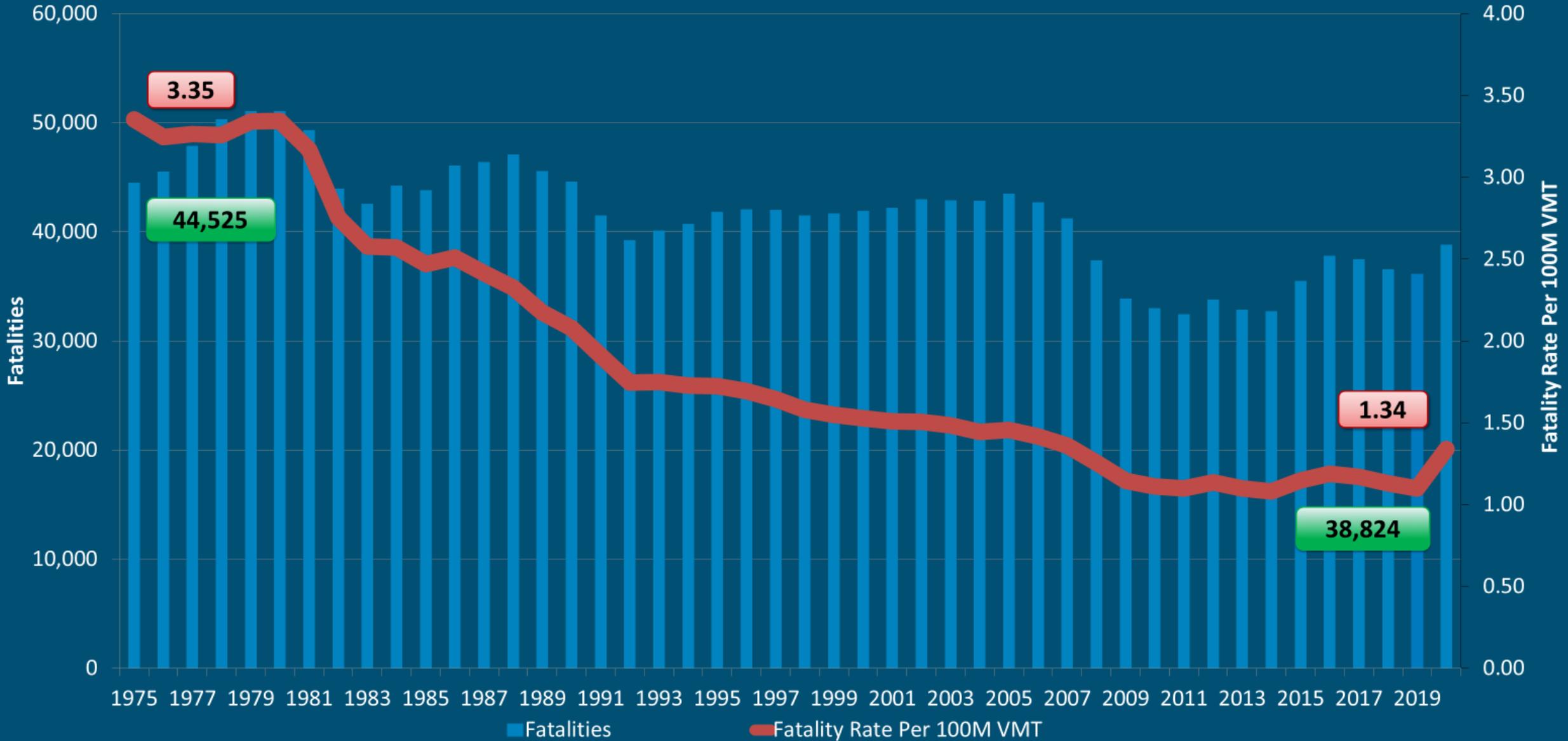


NHTSA's Mission

Looking at the Data



FATALITIES & FATALITY RATE (PER 100M VMT) 1975-2020





U.S. Department
of Transportation
**National Highway
Traffic Safety
Administration**

TRAFFIC SAFETY FACTS

Crash • Stats



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Early Estimate of Motor Vehicle Traffic Fatalities for the First 9 Months (January–September) of 2021



Our Current Reality

Traffic fatalities are a public health crisis affecting all road users.

1.25M

Lives lost globally each year from traffic crashes

Source: World Resources Institute

42,915

Estimated lives lost on U.S. roads in 2021

Source: NHTSA

7,342

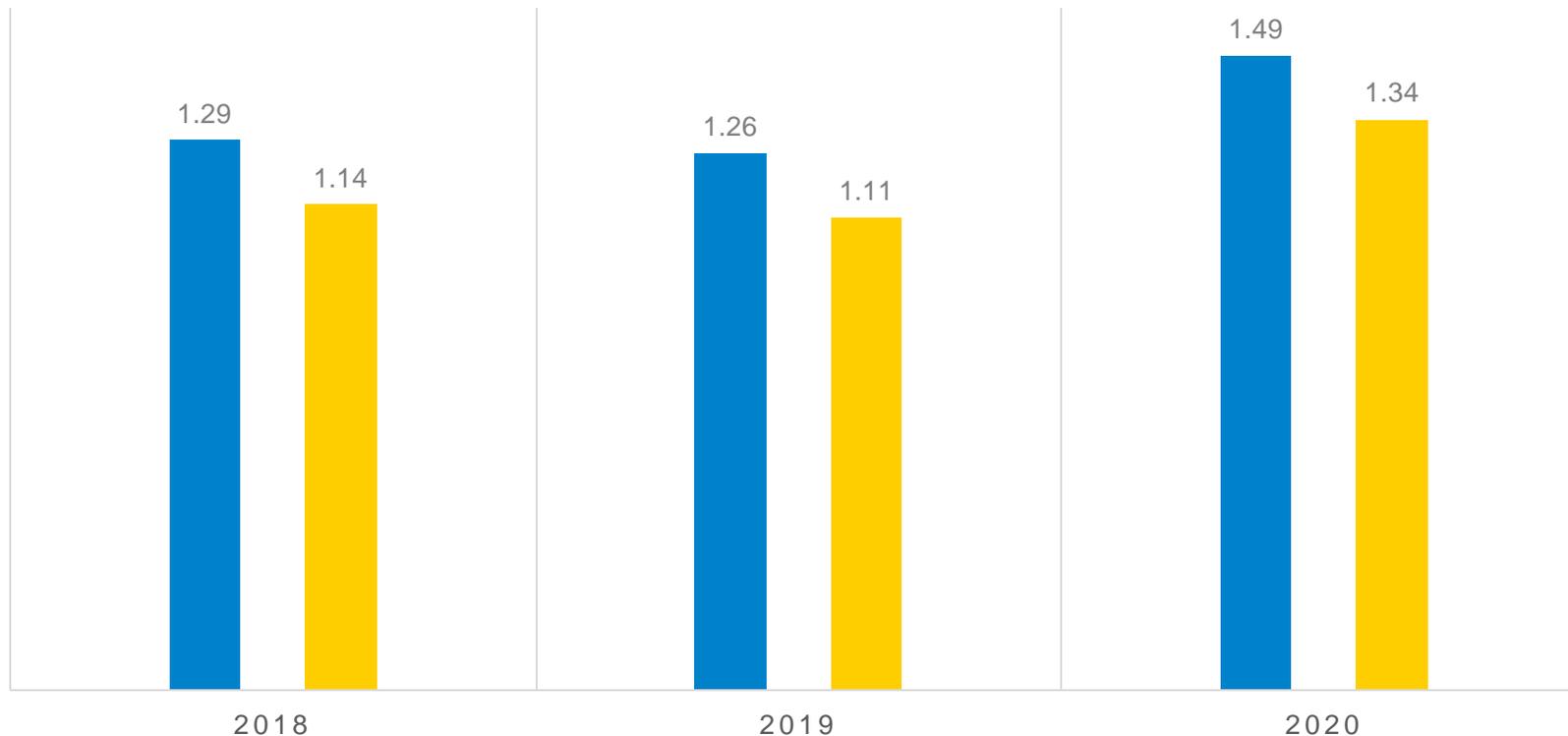
Estimated pedestrians killed in U.S. traffic crashes in 2021

Source: NHTSA

Fatalities per 100 million VMT

MOTOR VEHICLE FATALITY RATES, TX AND U.S., 2018 - 2020

■ Texas ■ U.S.



TX

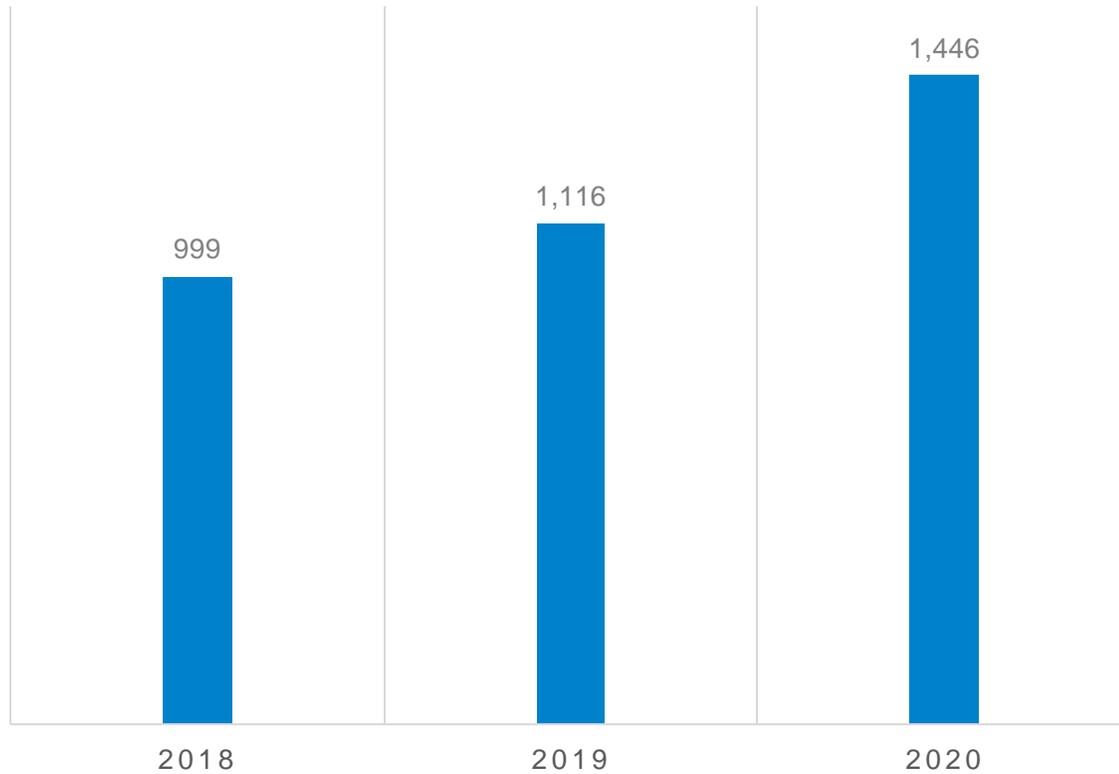
15.5% increase in fatalities per 100M VMT, 2018-2020

U.S.

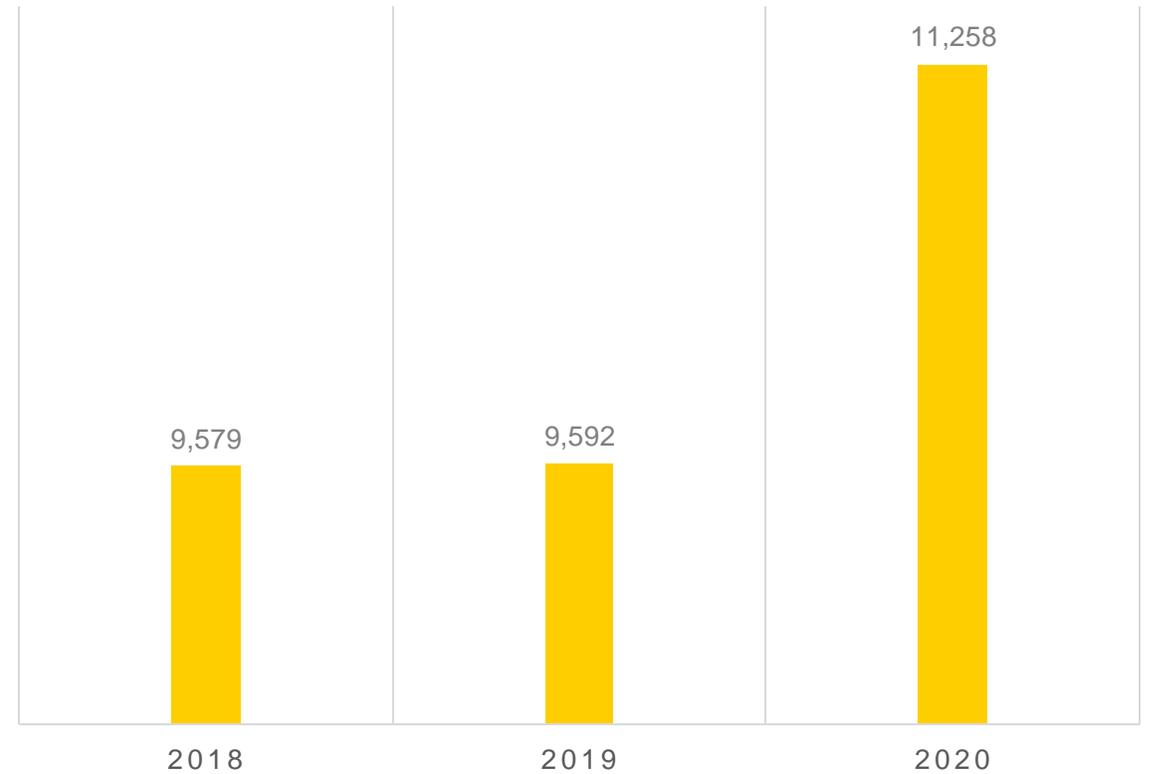
17.5% increase in fatalities per 100M VMT, 2018-2020

Speed Fatalities

SPEED FATALITIES (TX)



SPEED FATALITIES (U.S.)



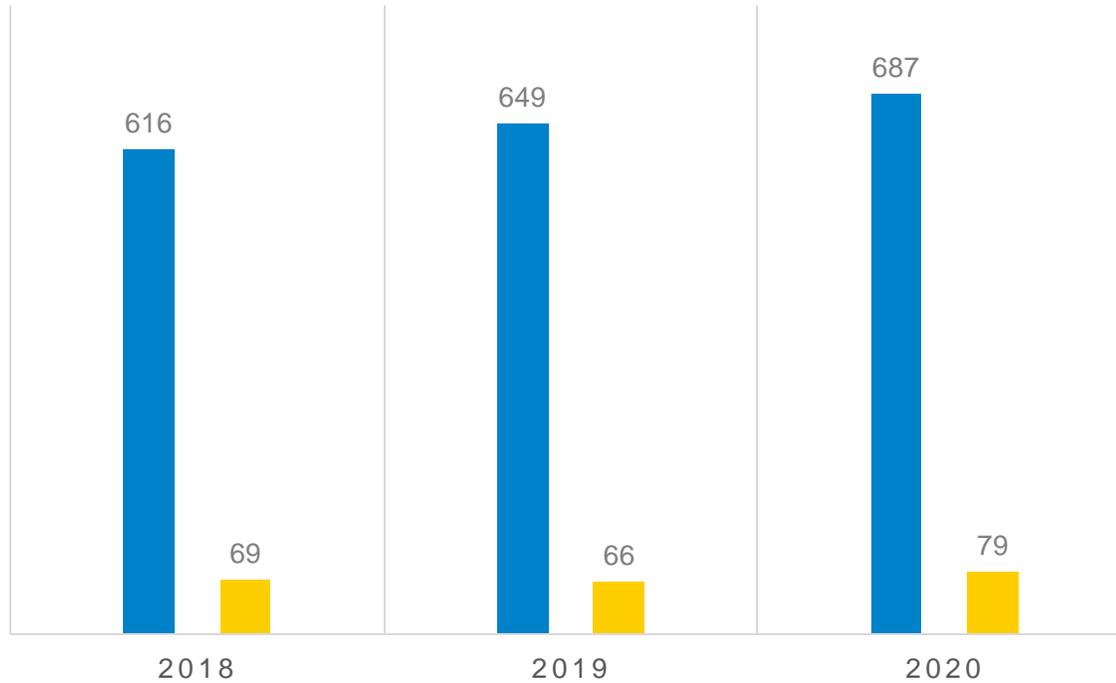
↑ **44.7%** speed-related fatalities, 2018-2020

↑ **17.5%** speed-related fatalities, 2018-2020

Ped/Bike Fatalities

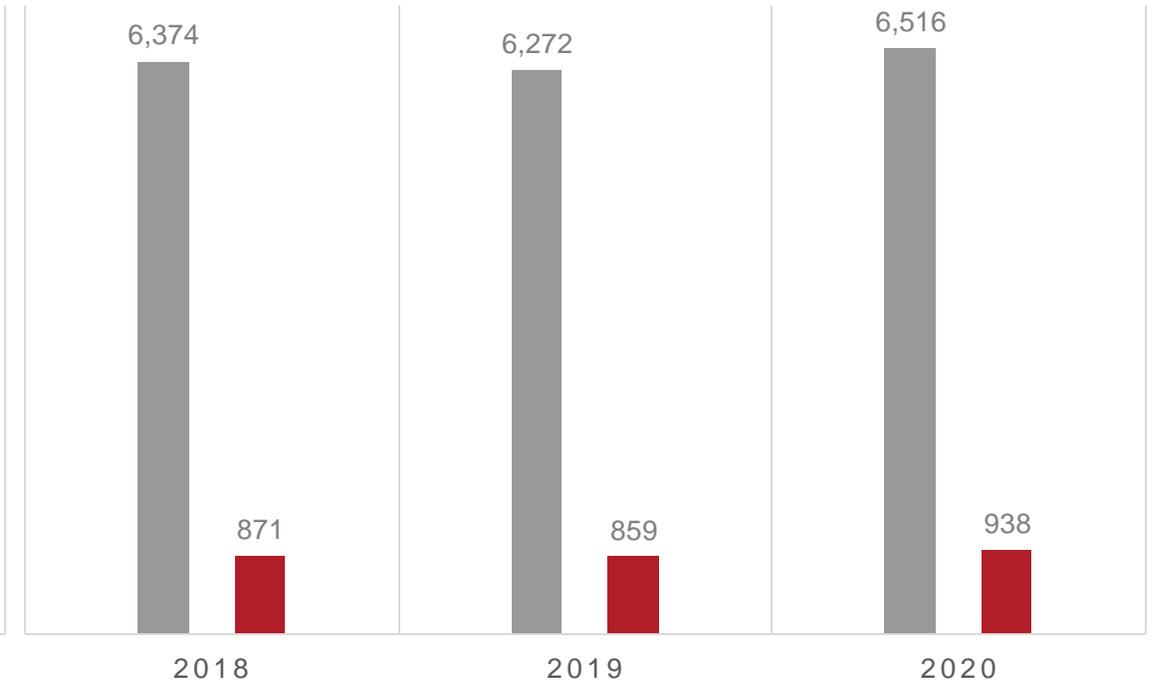
PEDESTRIAN & BICYCLIST FATALITIES (TX)

■ Pedestrian ■ Bicyclist



PEDESTRIAN & BICYCLIST FATALITIES (U.S.)

■ Pedestrian ■ Bicyclist



↑ **11.8%** ped/bike combined, 2018-2020

↑ **2.9%** ped/bike combined fatalities, 2018-2020

NCSA Tools, Publications, and Data

Here you will find the National Center for Statistics and Analysis (NCSA) FARS and GES/CRSS query reporting tools and traffic safety publications to choose from:

Crash Data Publications (CrashStats)



[Find More →](#)

Fatality and Injury Reporting System Tool (FIRST)



[Find More →](#)

State Traffic Safety Information (STSI)



[Find More →](#)

Traffic Safety Facts Annual Report Tables



[Find More →](#)

Fatal Motor Vehicle Crash Data Visualization

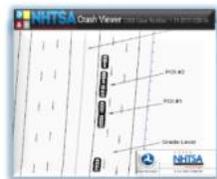


[Find More →](#)

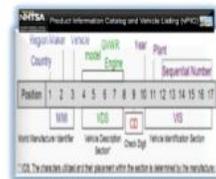
FARS Data Tables



Crash Viewer



Product Information Catalog and Vehicle Listing (vPIC)



Download Your Data

FARS - Fatality Analysis Reporting System
 NASS - General Estimates System
 CRSS - Crash Report Sampling System
 NASS - Crashworthiness Data System
 CISS - Crash Investigation Sampling System

About Data

Fatality Analysis and Reporting System (FARS) File Version Release Calendar
 Terms and Acronyms
 Holiday Time Periods

<https://cdan.dot.gov>

<https://www.nhtsa.gov/research-data/national-center-statistics-and-analysis-ncsa>

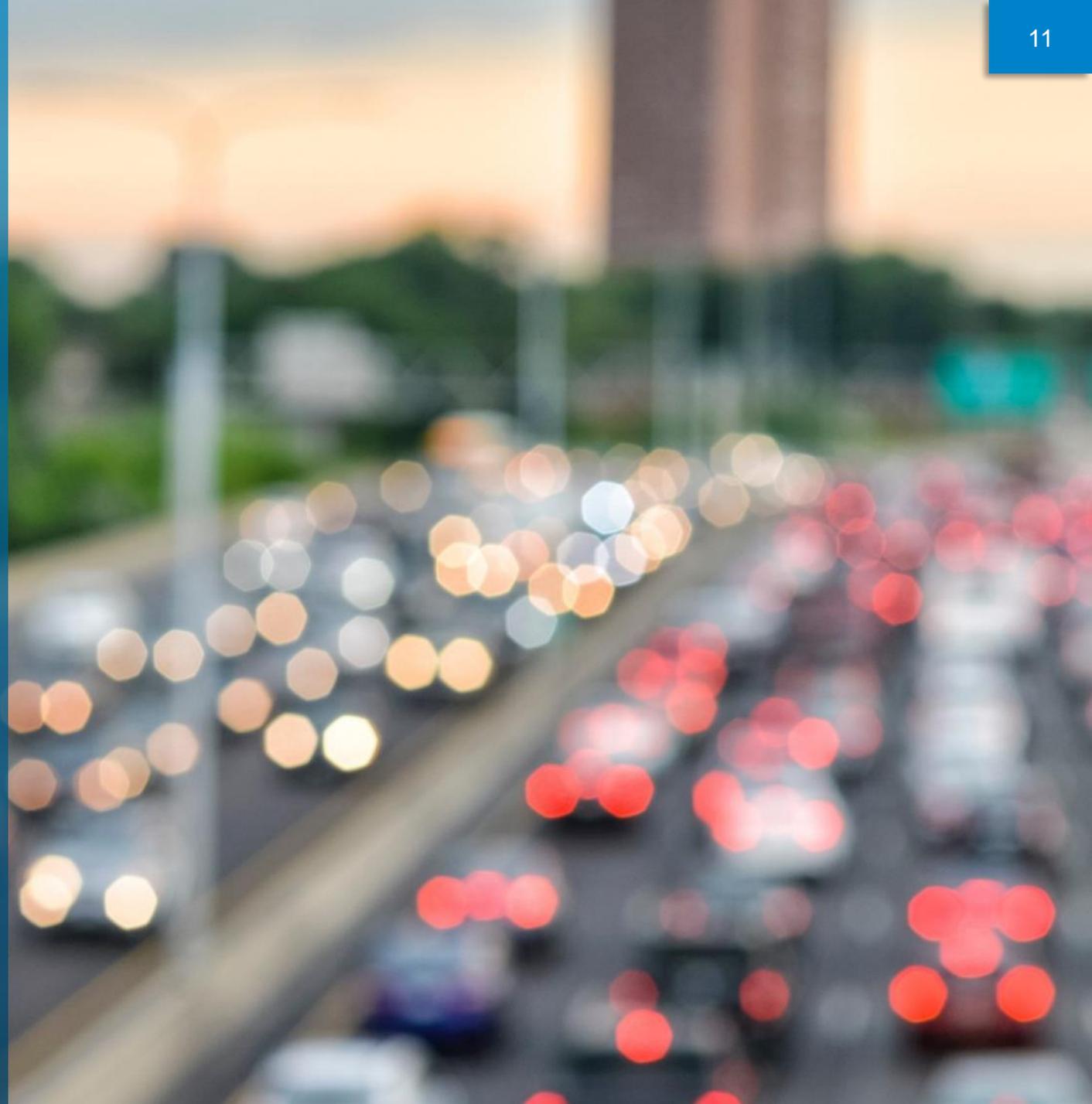
<https://www.trafficsafetymarketing.gov/>

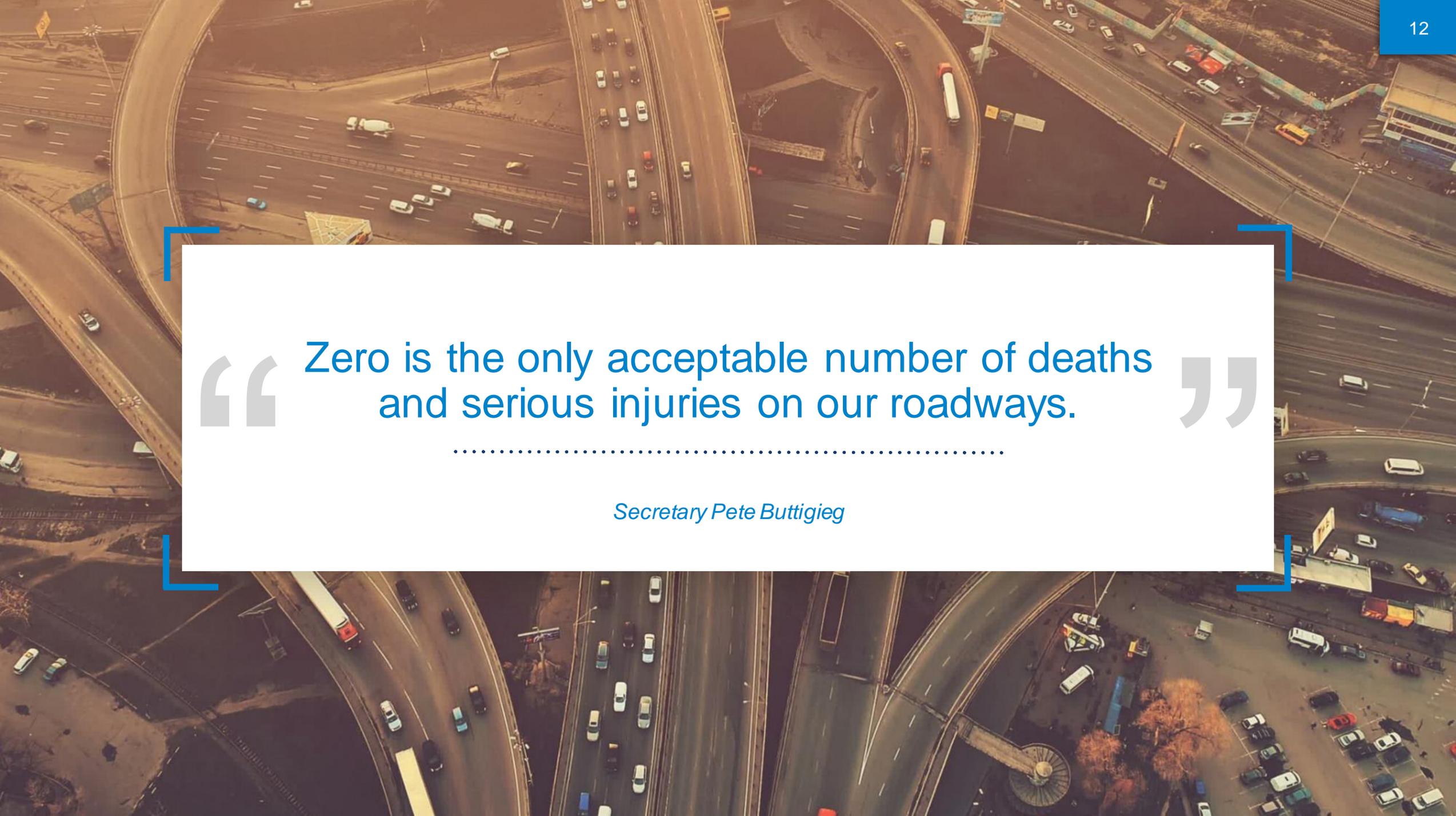
Resources

National Roadway Safety Strategy

&

Safe System Approach





“ Zero is the only acceptable number of deaths and serious injuries on our roadways. ”

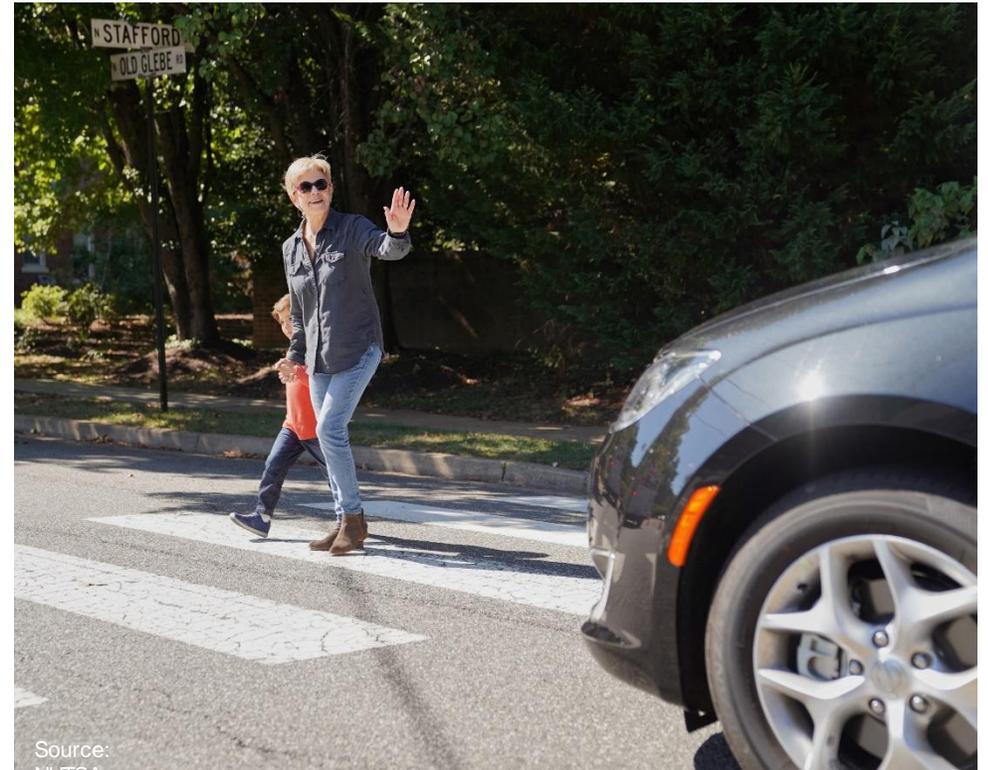
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Secretary Pete Buttigieg

National Roadway Safety Strategy

USDOT's comprehensive approach to significantly reducing serious injuries and deaths on our Nation's highways, roads, and streets.

- **Sets a vision and goal** for the safety of the Nation's roadways.
- **Adopts the Safe System Approach** principles to guide our safety actions.
- **Identifies new priority actions and notable changes to existing practices** and approaches that target our most significant and urgent problems and are, therefore, expected to have the most substantial impact.
- **Call to Action** We will be partnering with stakeholders to identify actions to get us closer to zero roadway fatalities.
- www.transportation.gov/NRSS



Source:
NHTSA

Successful Safe System Adopters



Sweden

Vision Zero

60-70%

Reduction in fatalities
1994-2015

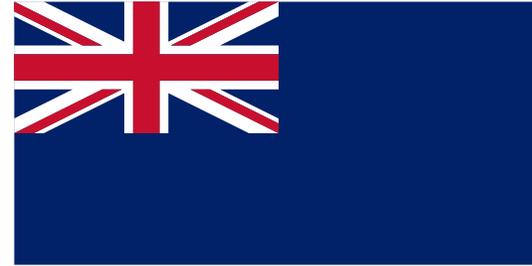


Netherlands

Sustainable Safety

50-60%

Reduction in fatalities
1994-2015

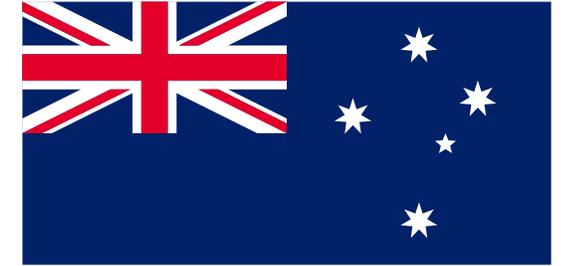


Australia

Safe System

50-60%

Reduction in fatalities
1994-2015



New Zealand

Safer Journeys

50-60%

Reduction in fatalities
1994-2015

Safe System Approach



The 5 Elements



Safer People



Walk



Bike



Drive



Transit



Other



Safer Vehicles

Active safety

Measures to reduce the chance of a crash occurring

- Lane departure warning
- Automatic emergency braking

Passive safety

Protective systems for when crashes do occur

- Seatbelts and airbags
- Crash-absorbing vehicle crumple zones



Safer
Vehicles

Safer Vehicles

Other road user safety

Measures that protect other road users

- Bicyclist and pedestrian detection
- Vehicle size and design

New technology

Leveraging connected and automated vehicle technology to improve safety



**Safer
Vehicles**

Safer Speeds

“ Speed is at the heart of a forgiving road transport system. It transcends all aspects of safety: without speed there can be no movement, but with speed comes kinetic energy and with kinetic energy and human error come crashes, injuries, and even deaths.”

Organization for Economic Co-operation and Development



Safer Speeds: Reducing Pedestrian Fatalities

Hit by a vehicle
traveling at

23

MPH

10% risk of death



Hit by a vehicle
traveling at

42

MPH

50% risk of death



Hit by a vehicle
traveling at

58

MPH

90% risk of death



Source: FHWA

Safer Roads

Safe roads are designed to:

1. Prevent crashes
2. Keep impacts on the human body at tolerable levels



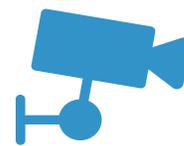
Design



Construction



Maintenance



Operation



Safer Roads: Avoiding Crashes



Separating users in space



Separating users in time



Increasing attentiveness and awareness



Safer Roads: Crash Kinetic Energy



Managing speed



Manipulating mass



Manipulating crash angles



Post-Crash Care

Vital post-crash actions include:



Emergency response



Medical care



Crash investigation



Traffic incident management



Justice



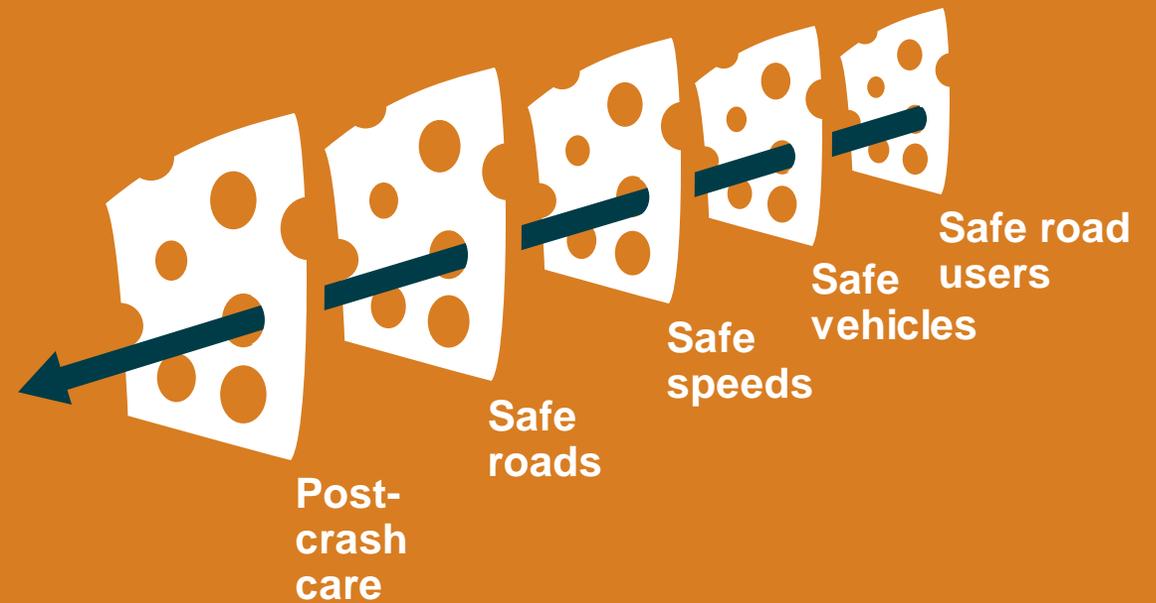
Post-Crash Care

The 5 Safe System Elements Create Redundancy

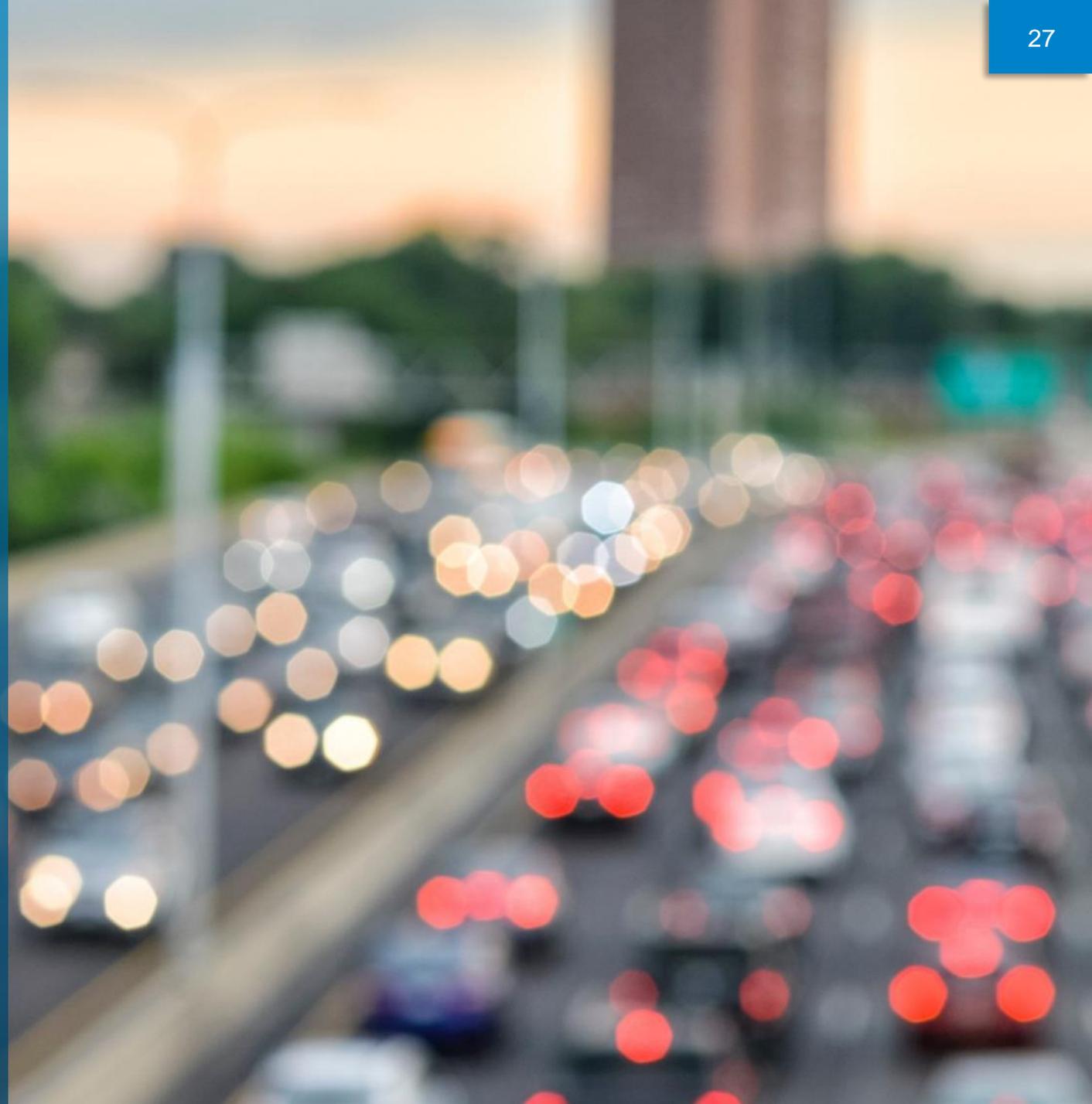
The “Swiss Cheese Model” of redundancy creates layers of protection



Death and serious injuries only happen when all layers fail



Call to Action





Strategies for a Safer TEXAS

Save the Date!
Tuesday, September 13, 2022
8:30 a.m. – 11:00 a.m. CT

To Register: https://us02web.zoom.us/webinar/register/WN_G4S39pGJSwGQ-jC9hh1b-A



Strategies for a Safer
TEXAS

August 9 – September 13 – October 6

Strategies for a Safer Texas



What is it?

- Call to action among new and traditional partners seeking commitments to action

Why is this important?

- Texas has the deadliest roads in the USA.
- Engages new and traditional partners on reducing fatality increases and meeting the safety needs of all Texans

How will this help Texas?

- Brings diverse safety stakeholders to the table seeking commitment to action
- Generates new perspectives on safety challenges
- Facilitates stronger communication and commitment at the local and State levels



Strategies for a Safer TEXAS

You are invited to Zoom webinars hosted by NHTSA

Tuesday, September 13, 2022

8:30 am – 11:00 am CT

Scan here to
register:



Thursday, October 6, 2022

8:30 am – 11:00 am CT

Scan here to
register:



Questions? Contact Jill McAninch (NHTSA Media Contractor)
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