

# Vision Zero Update

Lewis Leff | Transportation Safety Officer | 10.7.21





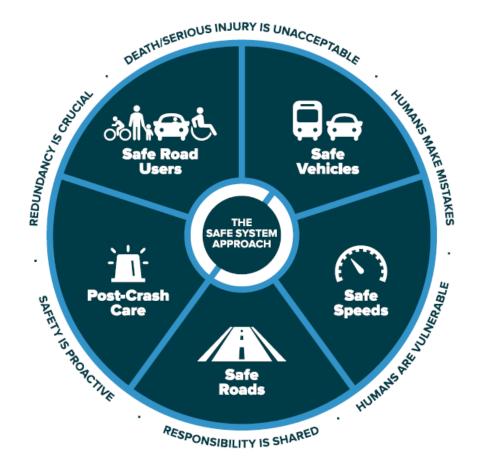
### **Key Points**



- Fatalities are rising over the past few years
- Serious injuries are trending lower than recent "normal" years
- We continue to scale up engineering solutions as they are the primary strategy to reduce severe crashes, with a focus on safer designs and speed management
- Additional narrowly defined speed and impaired driving enforcement during overnight/early morning hours and on highspeed roadways is a critical need







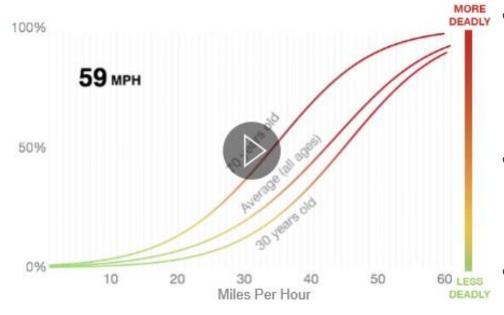
### Vision Zero, Safe Systems Approach

- An ethical approach to safety and mobility; fatalities and serious injuries should not be acceptable
- Human body is vulnerable, humans make mistakes
- Take a holistic view of the resources required post-crash





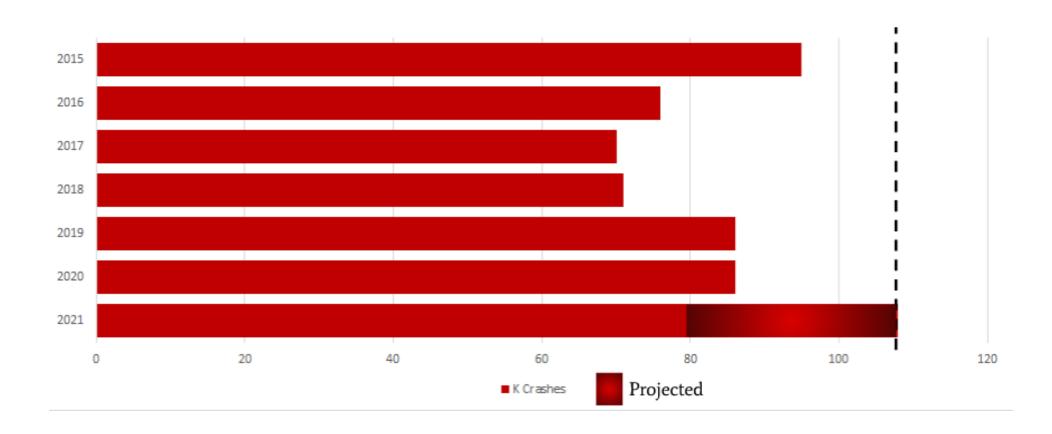
### Vision Zero, Safe Systems Approach



- An ethical approach to safety and mobility; fatalities and serious injuries should not be acceptable
  - Human body is vulnerable, humans make mistakes
  - Take a holistic view of the resources required post-crash
  - Speed is the factor that determines crash severity



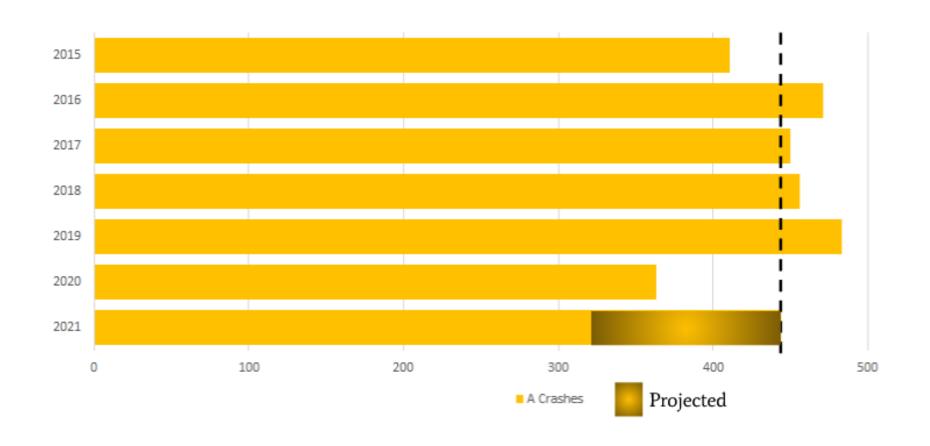
FATALITY CRASHES (2015 - 2021) Actual data through 9/25/21







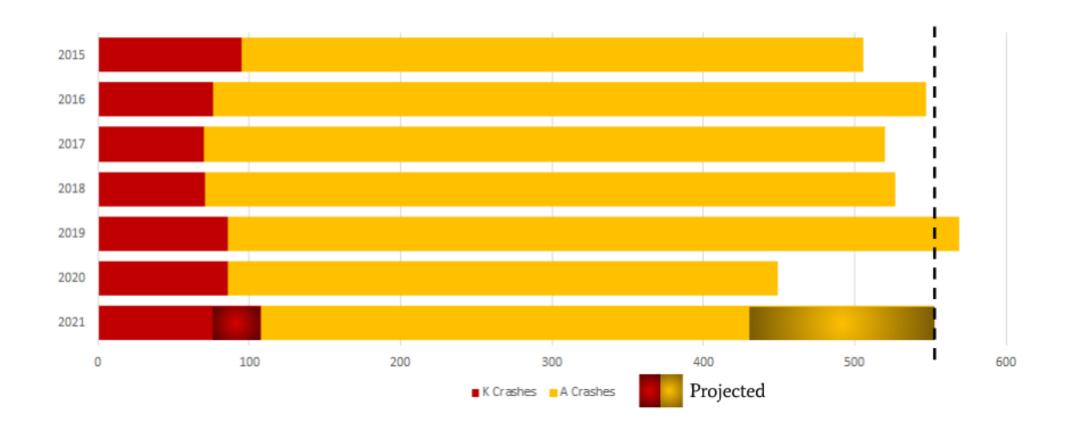
SERIOUS INJURY CRASHES (2015 - 2021) Actual data through 9/25/21







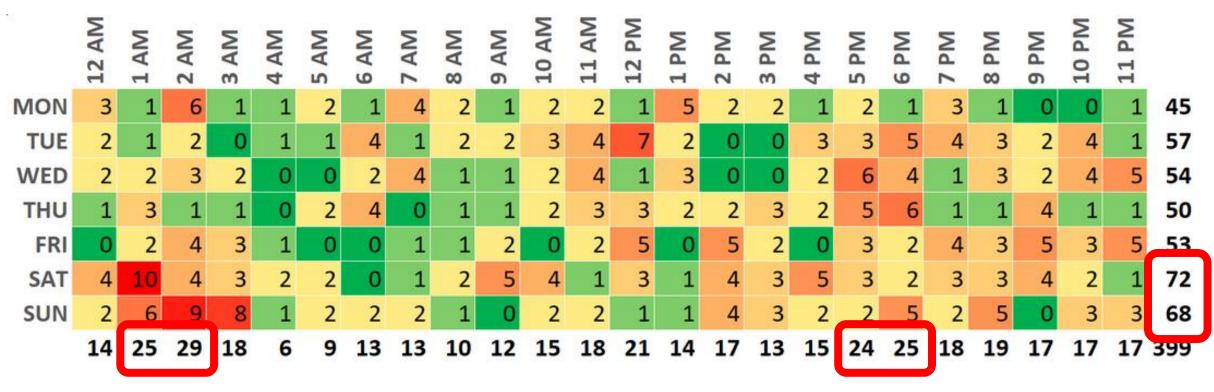
FATALITY + SERIOUS INJURY CRASHES (2015 - 2021) Actual data through 9/25/21







TIME OF DAY/DAY OF WEEK (FATAL + SI CRASHES - 2021)









FATALITIES + SERIOUS INJURIES PER 100K 1/1/16 TO 12/31/21 (Projected w/data\* through 9/25/2021)



\*Based on available data through CRIS as of 10/4/21

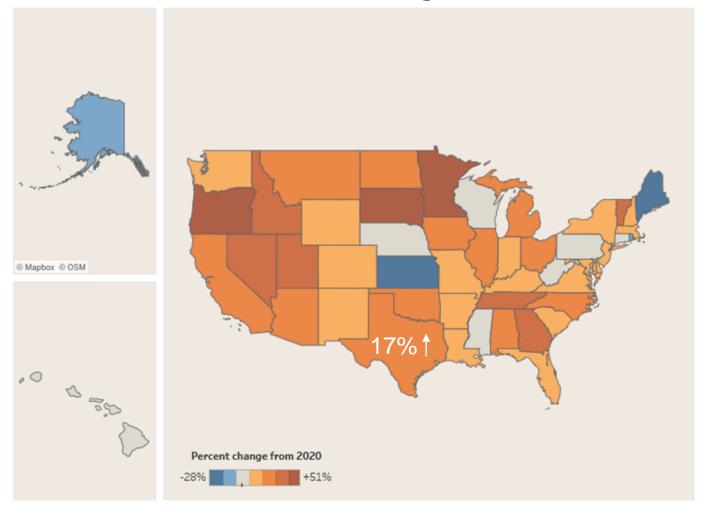


### **Context - National Data**



Percent change in 2021 preliminary six month NSC estimates from 2020

US Deaths in 2021: 21,450 Percent Change from 2020: +16%

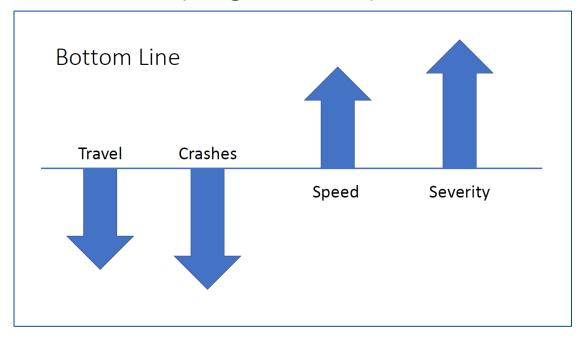




### Context - Pandemic Impacts



### Texas Transportation Institute (August 2020)



### Research Papers





Short Communication

Coronavirus disease 2019: What could be the effects on Road safety?





"...increased stress and anxiety brought about by the pandemic, more "free" (idle) time, increased consumption of alcohol and drugs, and greater opportunities for speeding and stunt driving..."

VISION ZERO UPDATE 10/5/2021



POLICY: SPEED MANAGEMENT

# **Austin Speed Limit Changes** 1 Q **Existing Speed Limit** Proposed Speed Limit Powered by Esri Powered by Esri





#### **ENGINEERING**



#### **BOND PROJECTS**

2016 - 12 projects complete + 3 in active design by 2022 2018/2020 - 15 priority locations selected and scoping initiated

20 interim treatments implemented



#### SYSTEMIC SAFETY

Citywide analysis of built environment conditions that align with historical crash types

Deploy countermeasures at dozens of locations



#### **ENGINEERING**

Year	Total Opposite Direction - Straight/Left Crashes
2017	1605
2018	1752
2019	1691
2020	1125
2021	1109 (Projected)

#### **COLLISION TYPE ANALYSIS**

With best-in-class data management, we can analyze the whole network for particular crash types and make rapid, low-cost improvements.

 30+% reduction in OD-OSOL crashes, a top severe crash type



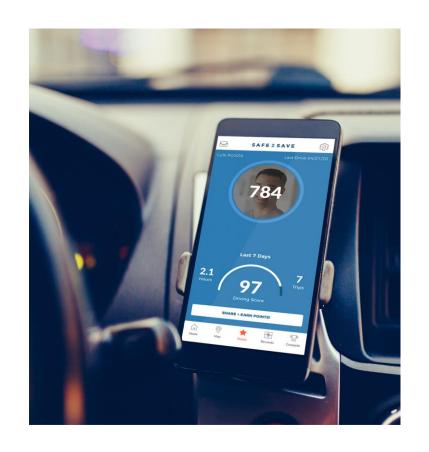
#### **COORDINATION WITH TXDOT**

IH-35 Median Barrier: 4 pedestrian deaths/year in '18, '19 to 1 in last 18 months

Highway Safety Improvement Program (HSIP)



COMMUNICATIONS AND ENGAGEMENT



New pedestrian safety State laws campaign

Safest Driver Competition (Sept. 13th - Oct. 15th)

Vision Zero Stories (Fall/winter 2021)





160

140

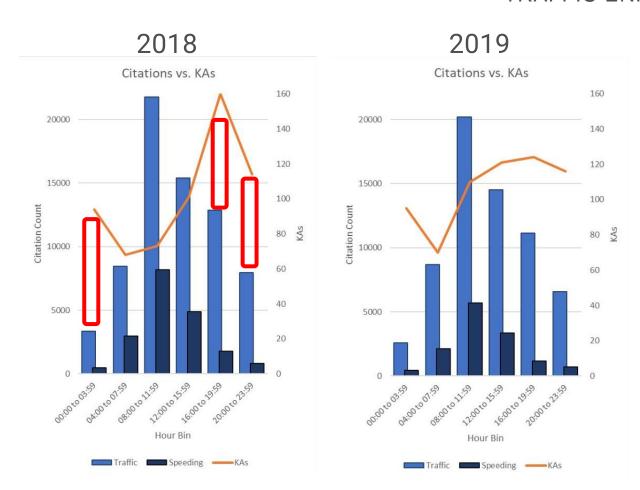
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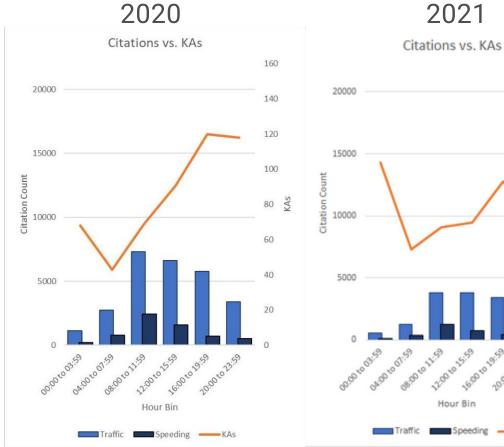
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#### TRAFFIC ENFORCEMENT





\*Source: Municipal Court Caseload information, Open Data Portal; 2021 data through 9/25/21



### **Short-Term**



### In addition to continuing current initiatives:

- Identify a path forward for increasing traffic enforcement narrowly focused on speeding and impaired driving, overnight/early morning hours on high-speed roadways
- Increase communications with the public for the fall/winter
- Implement signal timing improvements for protecting turns
- Pilot Dynamic Speed Display Devices at high crash locations



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### Long-Term



- Scale up engineering safety projects at priority locations
- Support legislative changes
  - enable automated enforcement (i.e. speed, red light running)
  - increased penalties for causing collisions resulting in severe injuries/death
  - lower blood alcohol content (BAC) limits
- Dedicate resources for proactive, equitable traffic safety enforcement focused on safety outcomes
- Implement Project Connect and Transportation Bond Programs for additional safety benefits

# THANK YOU

