# Vision Zero Austin: Public Safety Commission Update

December 5, 2022







# 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
- Separate users in space and time
- Cannot predict where next severe crash happens; we can predict based on conditions where it is more likely to occur

# Vision Zero / Safe Systems Approach



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Source: Vision Zero Network



#### By Mode

Fatal Crashes\*

Mode	2022	%	2021	%
Pedestrians	39	42.4%	32	34.4%
Bicyclists	1	1.1%	3	3.2%
Motorcyclist	17	18.5%	14	15.1%
Motorist	35	38.0%	44	47.3%
	92		93	

<sup>\*</sup> Data through November 15th

#### Serious Injury Crashes\*

Mode	2022	%	2021	%
Pedestrians	72	17.3%	66	16.7%
Bicyclists	27	6.5%	25	6.3%
Motorcyclist	72	17.3%	57	14.4%
Motorist	245	58.9%	248	62.6%
	416		396	



#### By Mode

Fatalities\*

Mode	2022	%	2021	%
Pedestrians	39	40.6%	32	31.7%
Bicyclists	1	1.0%	3	3.0%
Motorcyclist	17	17.7%	14	13.9%
Motorist	39	40.6%	52	51.5%
	96		101	

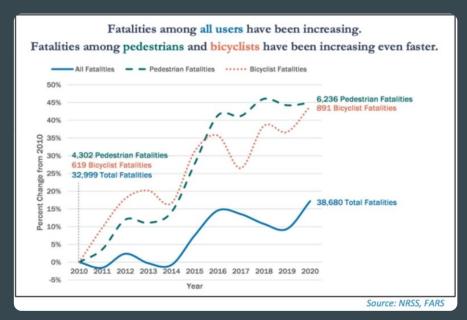
<sup>\*</sup> Data through November 15th

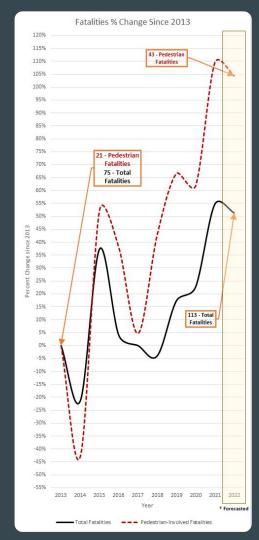
#### Serious Injuries\*

Mode	2022	%	2021	%
Pedestrians	91	18.7%	68	14.9%
Bicyclists	29	6.0%	25	5.5%
Motorcyclist	74	15.2%	58	12.7%
Motorist	292	60.1%	305	66.9%
	486		456	



#### National data (2010-2020)





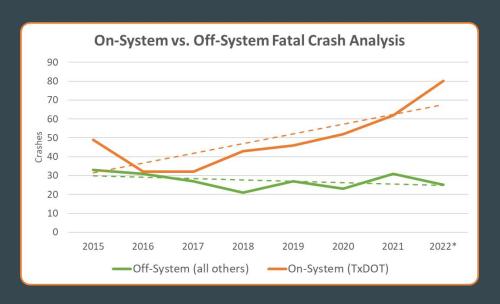
Austin data (2013-2022)



#### Additional Fatal Crash Analysis

Year over Year (through November 15th)

Year	Off-System Fatal Crash %	On-System Fatal Crash %
2018	32.81%	67.19%
2019	36.99%	63.01%
2020	30.67%	69.33%
2021	33.33%	66.67%
2022*	23.91%	76.09%
	31.54%	68.46%





Key Takeaways: Comparing 2022 YTD to 2021 YTD (through November 15th)

- 1. Combined, the total of fatal and suspected serious injury crashes are **up ~4% in 2022 compared to 2021**.
  - Fatal crashes are **down compared to last year**, suspected serious injury crashes are **up ~5%**; Total reportable crashes citywide are **up ~3%**.
- 2. Evening and early morning hours (8PM to 4AM) account for 48 out of the 92 fatal crashes. (33% of day, **~52%** of fatal crashes)
  - o 24 out of 39 (~62%) pedestrian fatalities
- 3. Increasing percentage of fatal crashes on on-system roadways
- 4. Pedestrian fatalities exceeding motorist fatalities
- 5. Alternative data sources drugs/alcohol present in most fatal crashes



# Engineering

#### Bond projects

#### 1. Intersection safety:

- a. 4 projects completed this year
- b. 2 projects in construction
- c. 2 projects to begin construction in next few months
- d. 5 projects in detailed design
- e. 20+ locations in scoping or TxDOT approval process





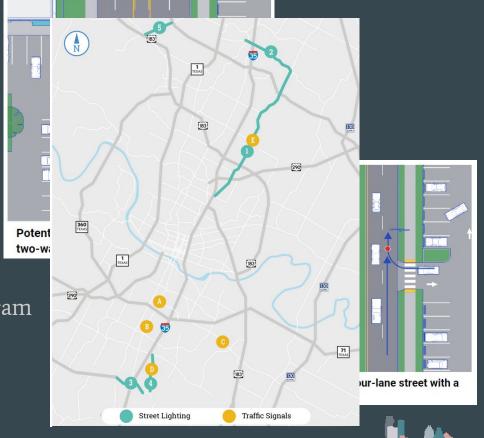


# Engineering

#### Bond projects

- 2. Systemic safety
  - a. Curves
  - b. Access Management
  - c. Signals protected left turn movements
  - d. Pedestrian Crossing Program

- 3. Highway Safety Improvement Program
  - a. 5 safety lighting projects
  - b. 5 traffic signal projects

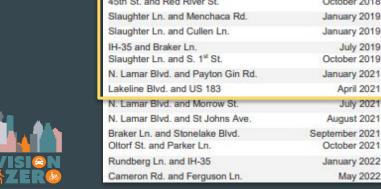


### Evaluation: Major Intersection Safety

- Funding: 2015 budget; '16/'18/'20 Bonds
- 19 major intersection projects completed
  - 13 with 1+ year of "after" data

Table 1.	Completed	intersection	safety	projects

Location	Completion date
IH-35 and Martin Luther King, Jr. Blvd	November 2016
US 183 and Cameron Rd. (NE & EB)	December 2016
N. Lamar Blvd Rutland Dr. to Rundberg Ln.	June 2017
N. Lamar Blvd. and Parmer Ln.	July 2017
S. Pleasant Valley Rd. and Elmont Dr.	June 2018
S. Congress Ave. and Oltorf St.	July 2018
45th St. and Red River St.	October 2018
Slaughter Ln. and Menchaca Rd.	January 2019
Slaughter Ln. and Cullen Ln.	January 2019
IH-35 and Braker Ln.	July 2019
Slaughter Ln. and S. 1st St.	October 2019
N. Lamar Blvd. and Payton Gin Rd.	January 2021
Lakeline Blvd. and US 183	April 2021
N. Lamar Blvd. and Morrow St.	July 2021
N. Lamar Blvd. and St Johns Ave.	August 2021
Braker Ln. and Stonelake Blvd.	September 2021
Oltorf St. and Parker Ln.	October 2021
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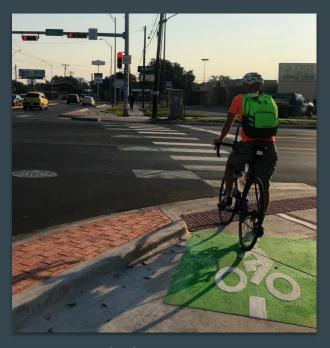




### **Evaluation: Major Intersection Safety**

#### Results

- 30% reduction in the crashes per year following project completion at the 13 study intersections (going from 326 crashes/year to 229 crashes/year)
- 31% reduction in serious injury or fatal crashes (going from 12.0 to 8.3 per year).
- Over the same time period, combined annual crashes among a citywide control group decreased only 4% and serious injury or fatal crashes *increased* 8%



S. Congress & Oltorf St. (2018)



### **Evaluation: Left Turns at Signals**

Safety Culture Policy 1

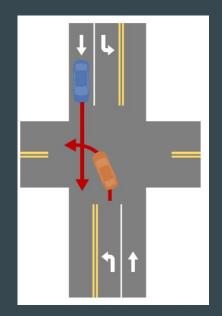
Prioritize the protection of human life over all else in the planning, design, and operation of Austin's transportation network

Recognize the safe limits of the human body and use that as the guiding tool when making safety decisions



<sup>\*</sup> KAB: Killed, Seriously Injury, Minor Injury

Opposite Direction-One Straight, One Left crashes at signalized intersections

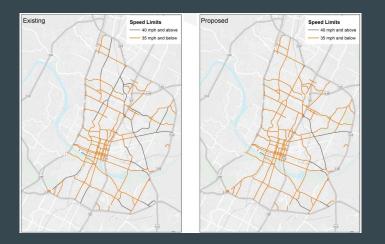


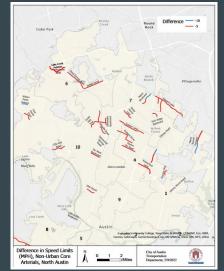


<sup>\* 2022</sup> projected with data as of October 1, 2022

# Policy/Procedures

- Speed Limits
- Access Management standardized approach
- Signal guidelines for left turn movements
- Intersection Control
  Evaluation/Roundabout Design
- Evaluating Right Turns on Red, Leading Pedestrian Intervals







# **Achieving Our Policy Goals**

- Scale up Austin's Vision Zero and mobility bond projects and initiatives
  - Safer roadway designs
  - o Transportation lighting for all modes
  - Narrowly-focused traffic safety enforcement
- Implementation of Project Connect
- Collaboration with TxDOT
- State and local legislative changes
  - Land use
  - Enforcement/prosecution





### **PSC Member Questions**

- City of Austin vehicle procurement decisions for smaller and safer vehicles
  - Related: Transportation Criteria
    Manual adopted December 2021
    and effective June 2022
- EMS mobile unit CAD connectivity for real-time traffic conditions vs.
   posted speed limits



### **PSC Member Questions**

- Alternatives to using sworn officers, in-person traffic enforcement
  - Speed safety cameras, red light cameras
  - Non-sworn staff for traffic enforcement, crash reporting
  - Prioritizing safety stops
  - Dynamic Speed Display Devices
- Budget analysis of car crash responses by City of Austin public safety agencies
  - Tens of millions of dollars, 75,000 hours of staff
    time each year
- Use of current resources for traffic enforcement



Austin Police Department has Identified the person who died in a three-vehicle crash Friday, May 8th in North Austin, which also left for others seriously injured. (Photo: CBS Austin)(/p)



#### Comments, questions, thoughts?





