

North Central Texas
Council of Governments

WELCOME

ROAD SAFETY AUDIT
VIRTUAL WORKSHOP

**PEDESTRIAN AND BICYCLE
SAFETY**



April 27-29, 2021

North Central Texas Council of Governments

Metropolitan Planning Organization for the
Dallas-Fort Worth Region

Metropolitan Planning Area (MPA)

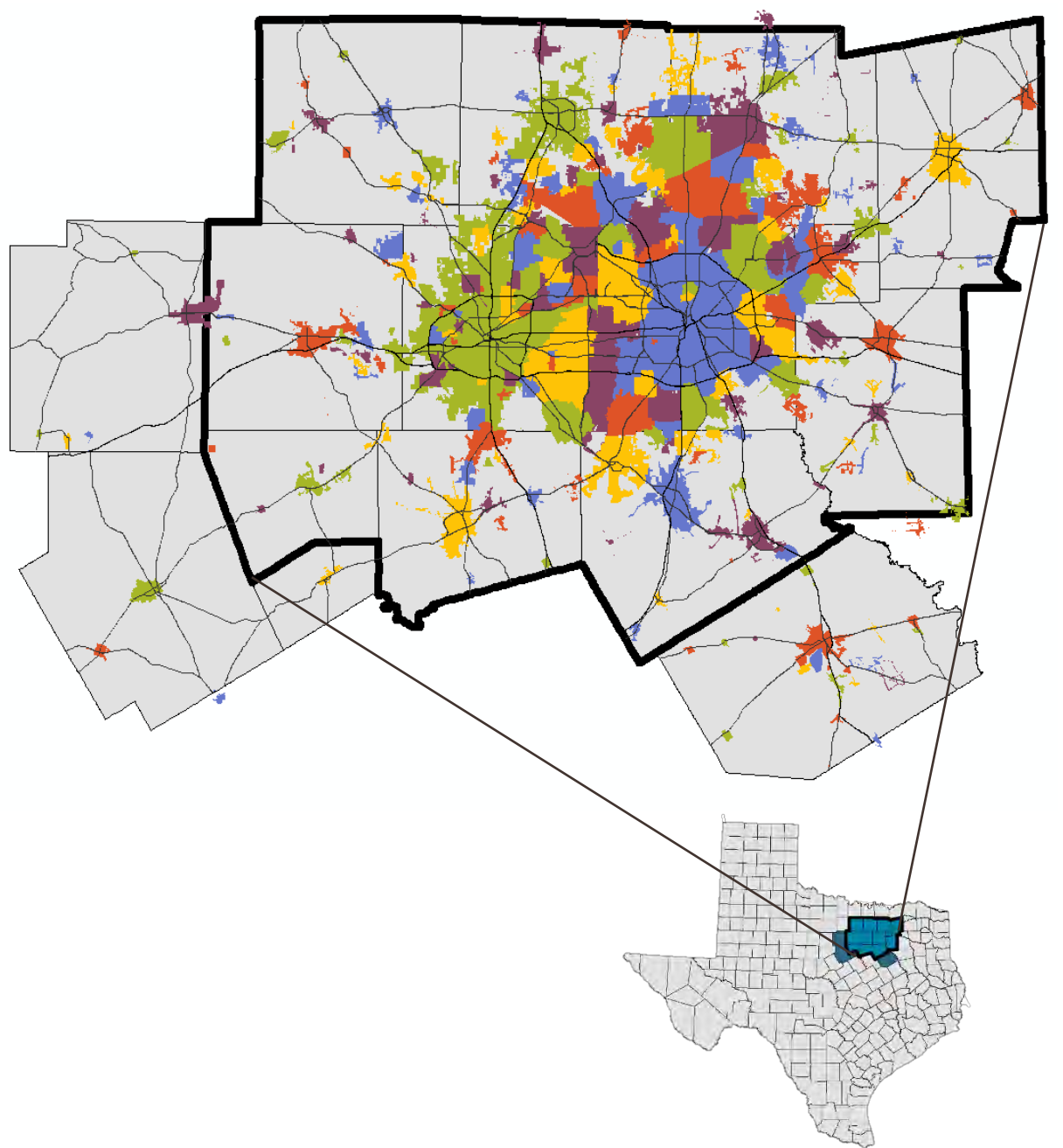
209 cities

13 cities larger than **100,000** pop.

MPA Population

2020 Estimate = **7.6** million

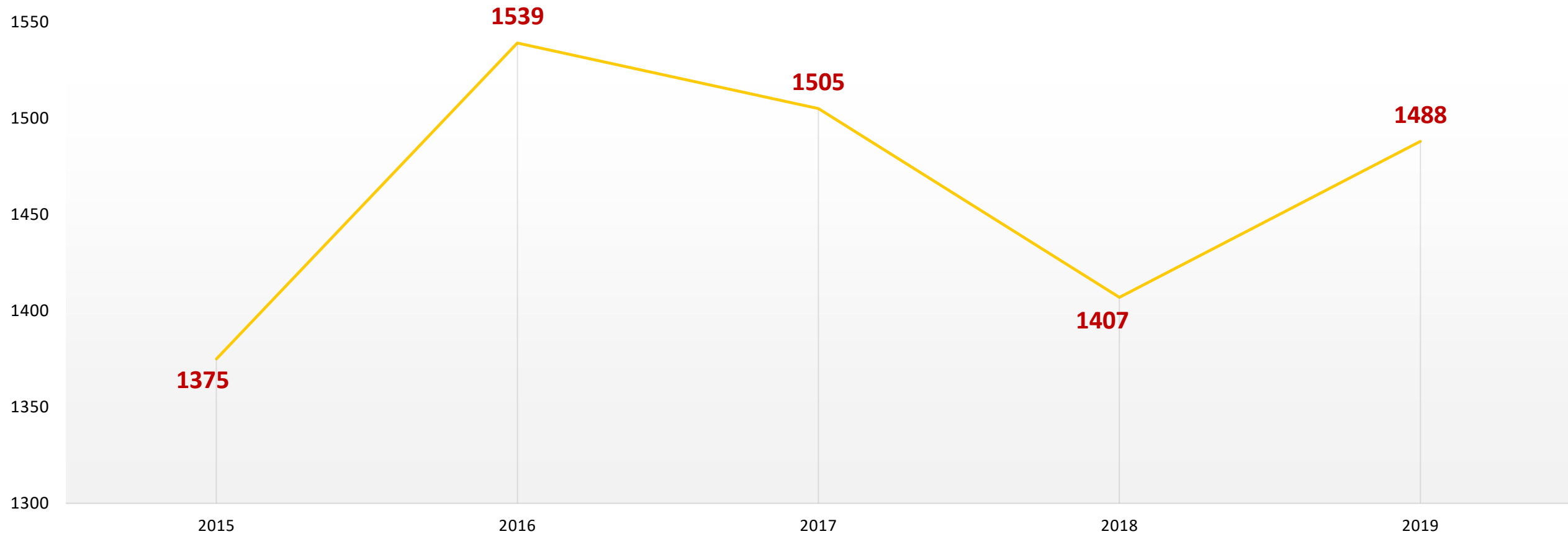
2045 Forecast = **11.2** million



FHWA Designated Bicycle And Pedestrian Safety Focus Cities



Reported Pedestrian Crashes Including All Injury Levels within MPA: 2015-2019

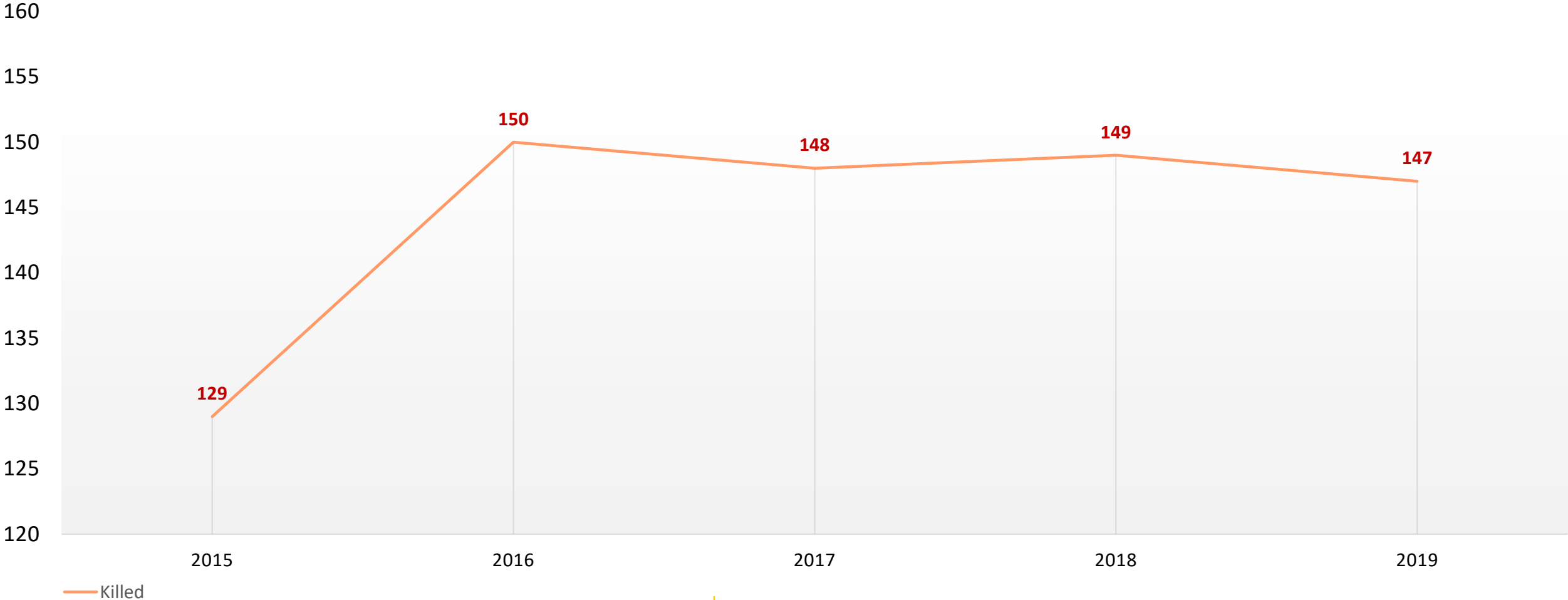


North Central Texas Region
Pedestrian Crashes & Fatalities

7,314

Total Pedestrian Crashes in MPA from 2015-2019

Crashes Involving Pedestrian Fatality within MPA 2015-2019



North Central Texas Region
Pedestrian Crashes & Fatalities

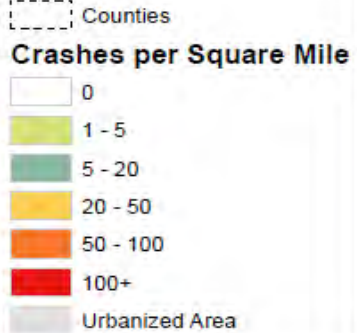
723

Total Pedestrian Crashes with Pedestrian Fatalities Reported: 2015-2019

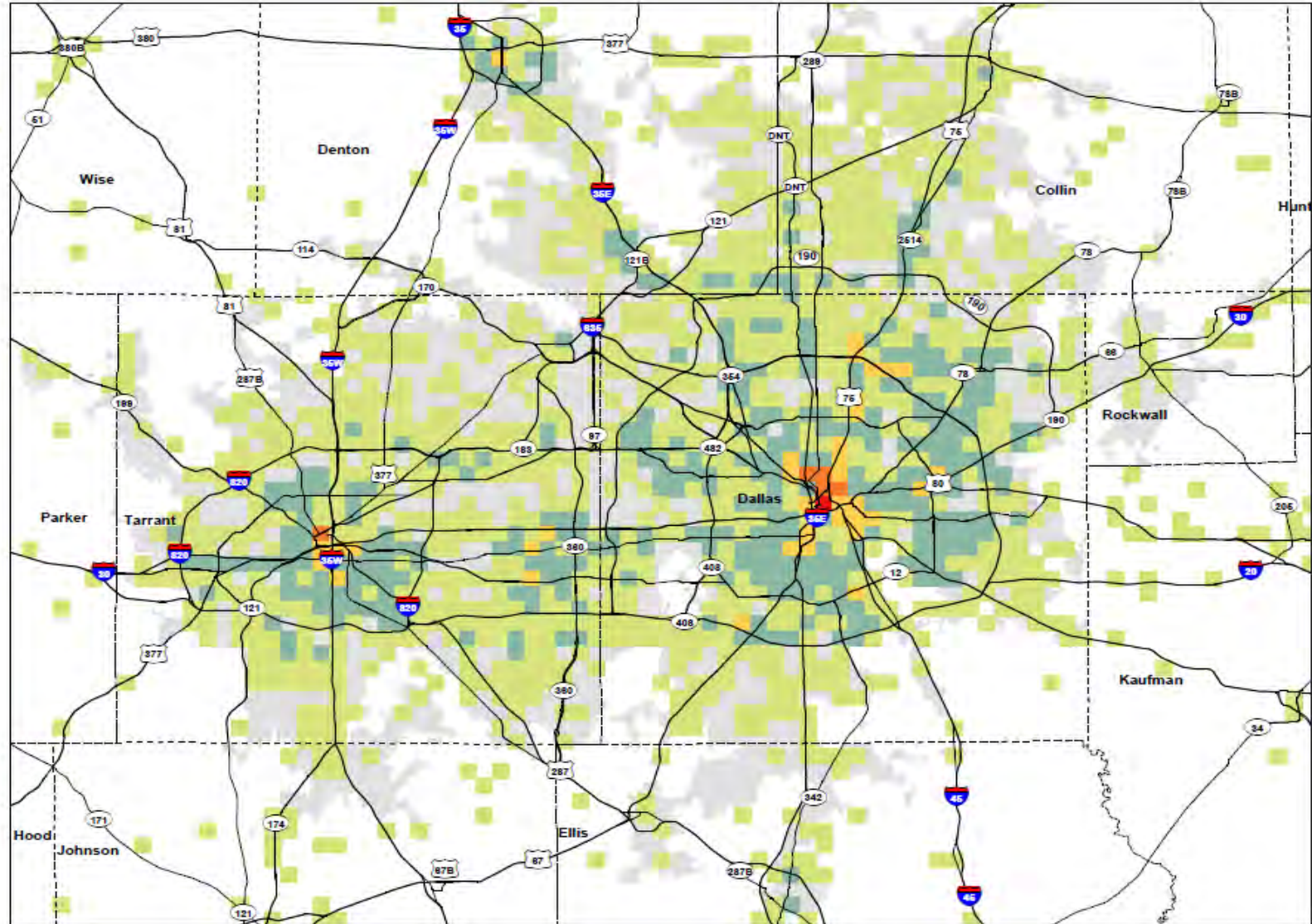
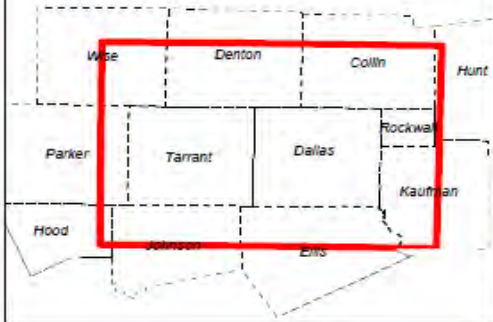
Urbanized Area

Pedestrian Crashes per Square Mile (2014 - 2018)

Legend



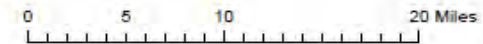
NCTCOG 12 County Metropolitan Planning Area



- 1.) Source: TxDOT's Crash Records Information System - 2014 - 2018 data is current as of January 2019. All TxDOT disclaimers apply.
- 2.) Data displayed contains reportable crashes with latitude and longitude information. Additional crashes may have occurred.
- 3.) This data is composed of TxDOT "Reportable Crashes" that occurs or originates on a traffic way, results in injury to or death of any person, or damage to the property of any person to the apparent extent of \$1,000.

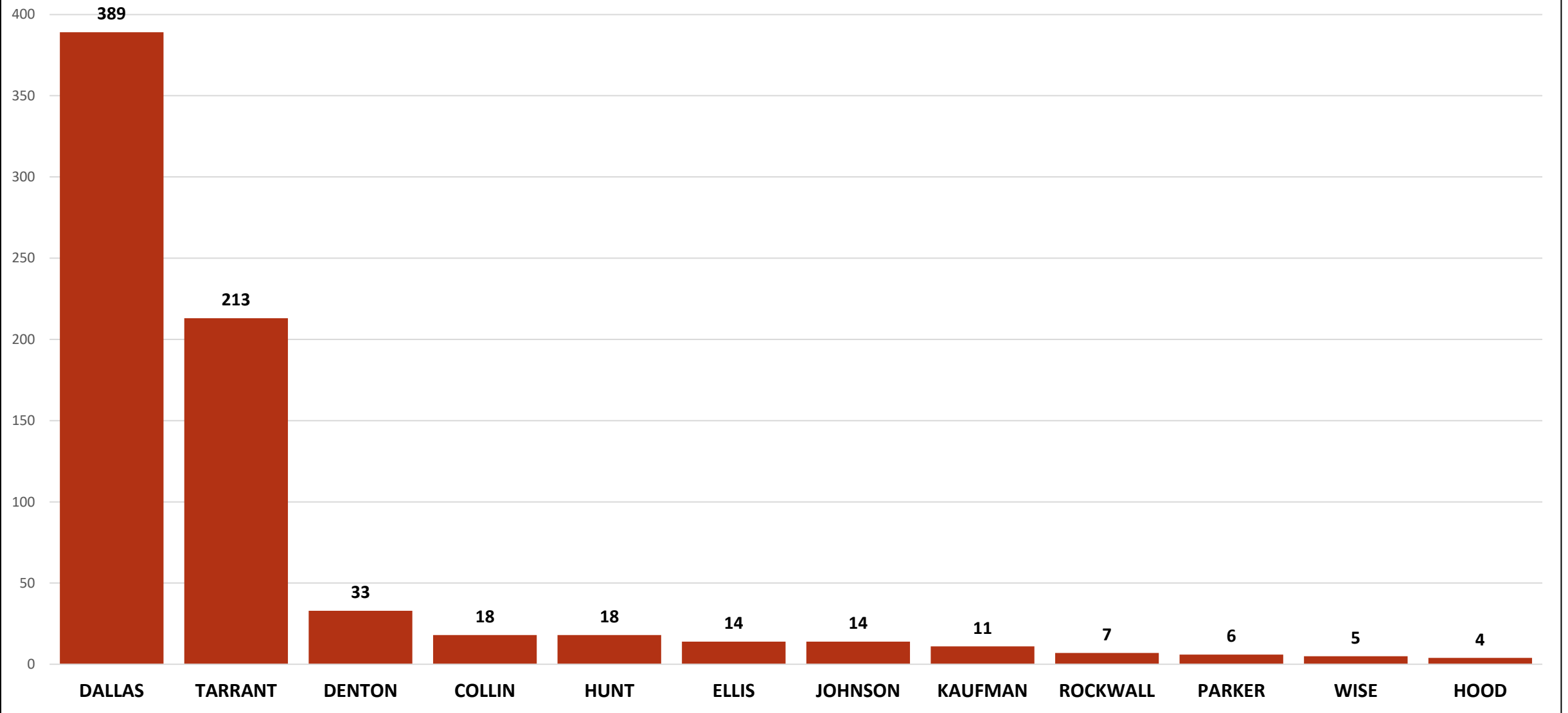


North Central Texas
Council of Governments
Transportation Department



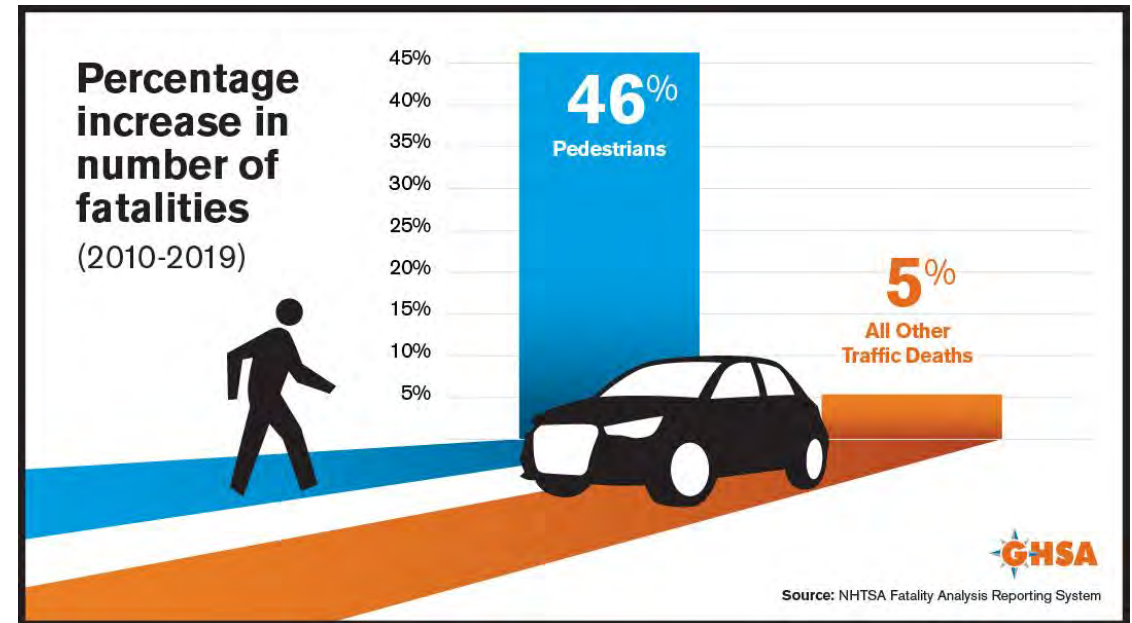
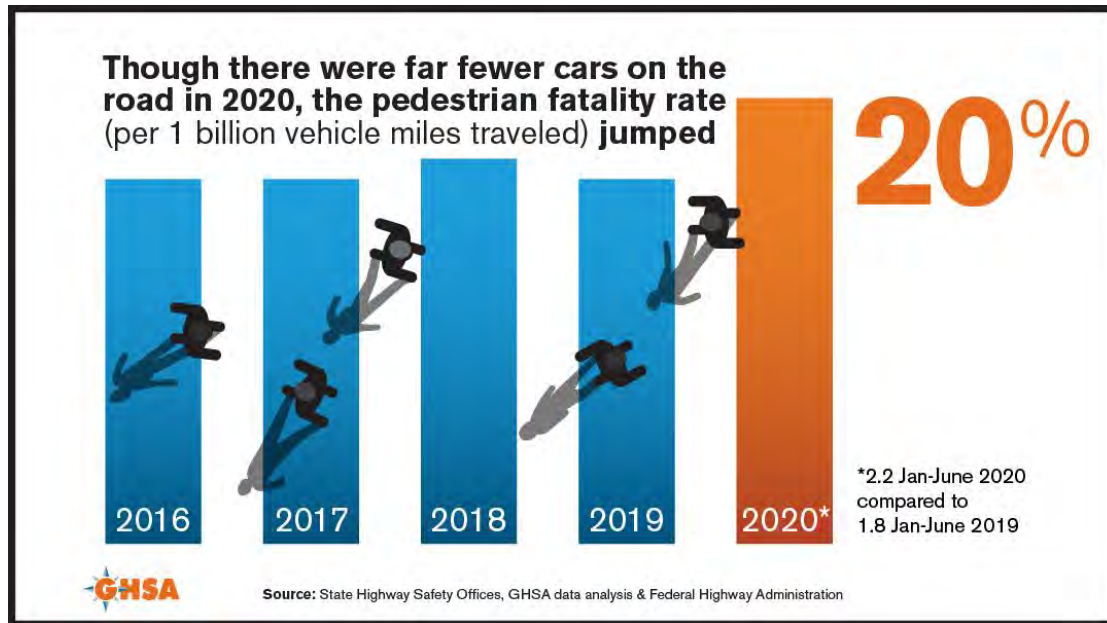
Date: 9/14/2020

Pedestrian Fatalities by County: 2015-2019



Source: TxDOT's Crash Records Information System (CRIS) - 2015-2019 data current as of 04/27/2021 - all TxDOT disclaimers apply to this information

Pedestrian Traffic Fatalities: 2020 U.S. Preliminary Data



7,072

TOTAL PEDESTRIAN
CRASHES IN MPA from
2014-2018

Source: TxDOT's Crash Records Information System (CRIS)
for MPA region from 2014-2018

672

TOTAL PEDESTRIAN
FATALITIES
REGIONWIDE from
2014-2018

Source: TxDOT's Crash Records Information System (CRIS)
for MPA region from 2014-2018



Pedestrian Crashes and Fatalities 12-County MPA

1 in 5
of ALL FATALITIES
for all modes of travel
is a



Source: TxDOT's Crash Records Information System (CRIS) for MPA region from 2014-2018

AGE RANGE with the
highest number of FATAL
AND SERIOUS INJURY
PEDESTRIAN CRASHES is

23-29
for **MALES** 
and
25-33
for **FEMALES** 

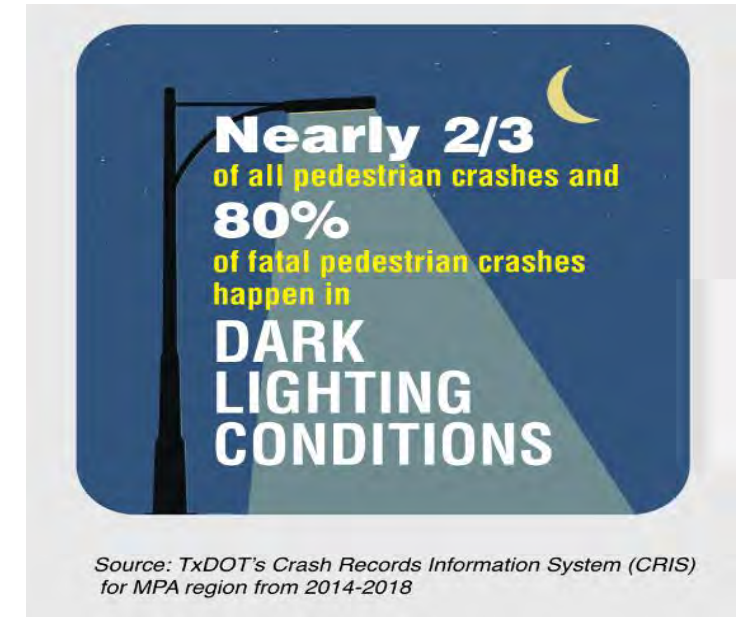
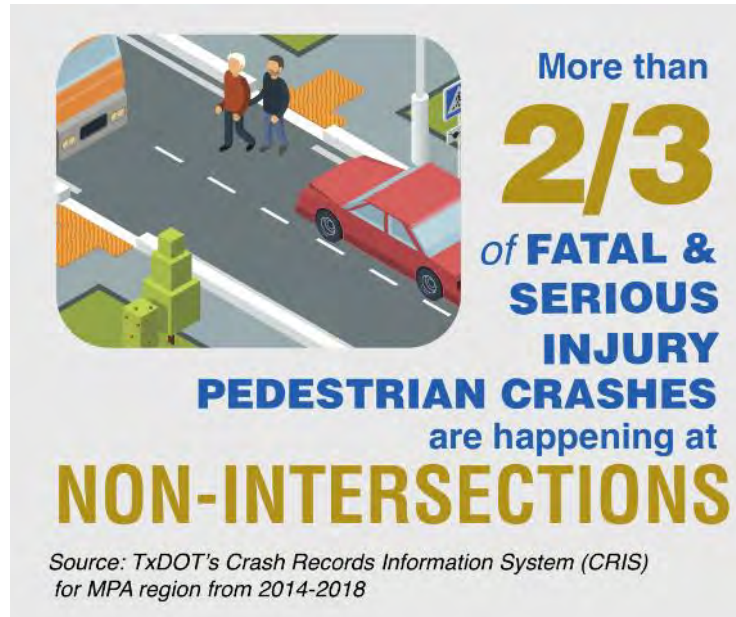
Source: TxDOT's Crash Records Information System (CRIS)
for MPA region from 2014-2018

70% 
of All Fatal &
Serious Injury
Pedestrian Crashes involve
MALES

Source: TxDOT's Crash Records Information System (CRIS)
for MPA region from 2014-2018

Pedestrian Crashes and Fatalities

12-County MPA



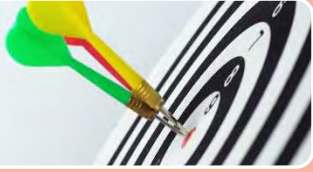


Even one death on the transportation system is unacceptable. Staff will work with our partners to develop projects, programs, and policies that assist in eliminating serious injuries and fatalities across all modes of travel.

- ✓ Approved by the NCTCOG Regional Transportation Council (RTC) on December 14, 2017, and reaffirmed on February 14, 2019.

nctcog.org/RTC

Elements of the Regional Pedestrian Safety Action Plan



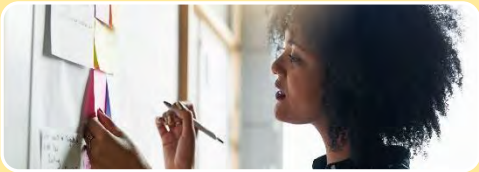
Goals



Prioritized Pedestrian Safety Corridors



Recommended Countermeasures, Programs, Project Types and Performance Measures



Policy Recommendations



Action Plan (Actionable Items)

PSAP Goals:

1. **Eliminate** all serious injury and fatal pedestrian crashes across the region by 2050
(Supports RTC and the TxDOT/TTC safety goals)
2. **Balance the safety and needs** of all users of all ages and abilities in the transportation system design, maintenance and operation phases, with priority given to the most vulnerable users
3. **Provide a high level of comfort** in the design, construction and maintenance of transportation facilities
4. **Integrate** within roadway design the most direct facility alignments that prioritize safe pedestrian movements
5. **Implement** all reasonable pedestrian safety countermeasures to achieve adopted regional safety performance targets



North Texas Bicycle and Pedestrian Crash Analysis

Research Report (R1)

Project 0-6983

Conducted for
Texas Department of Transportation
P.O. Box 5080
Austin, Texas 78763

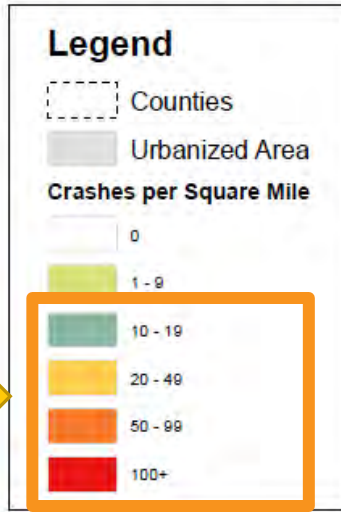
August 2020

Center for Transportation Infrastructure Systems
The University of Texas at El Paso
El Paso, TX 79968
(915) 747-6925

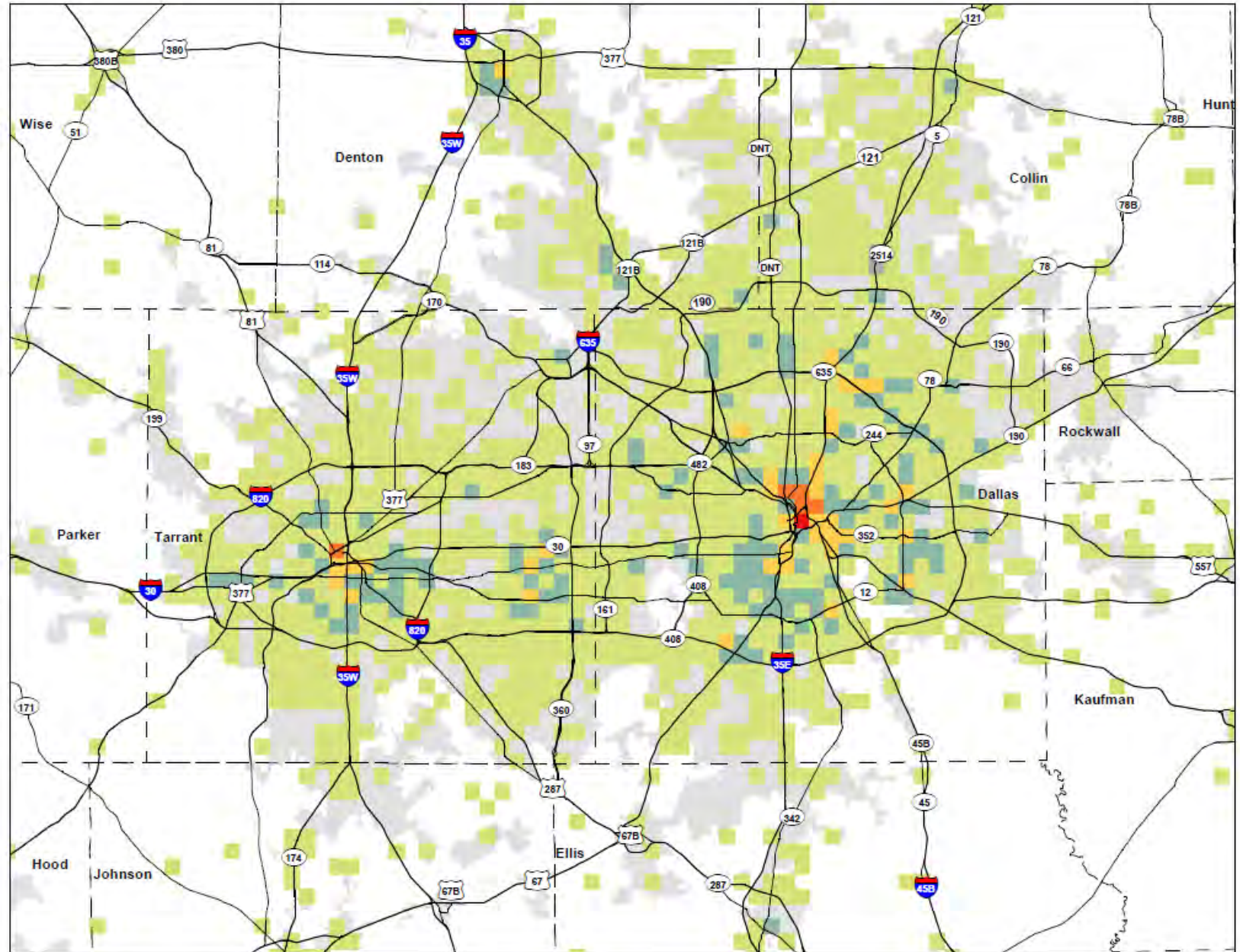
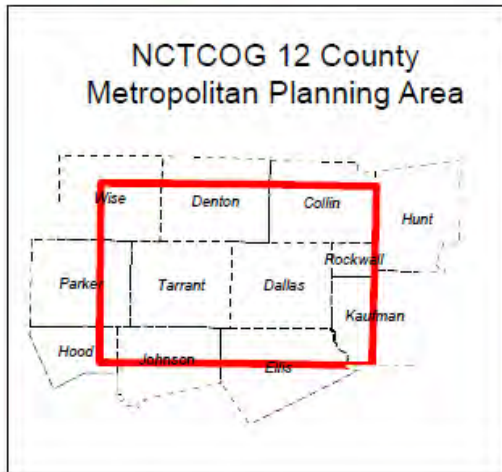
TxDOT Research Project: North Texas Bicycle And Pedestrian Crash Analysis (R1-6983)

- Led by TxDOT's Research and Technology Implementation Division
- Manually coded 5 years of crash records from TxDOT's Crash Records Information System (CRIS) using ***FHWA's Pedestrian and Bicycle Crash Analysis Tool (PBCAT)***
- Identified the most common crash types, locations, contributing factors, and demographics of individuals involved in crashes
- Methodology to identify "High-Risk Incidence Crash Corridors"
- Identified a list of possible countermeasures for each corridor, based on the identified crash types/attributes

Urbanized Area Pedestrian Crashes per Square Mile (2014 - 2018)



Areas examined for high-risk crash corridors



1.) Source: TxDOT's Crash Records Information System - 2014 - 2018 data is current as of January 2019. All TxDOT disclaimers apply.
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Common Characteristics Used In Identifying The Pedestrian Safety Corridors

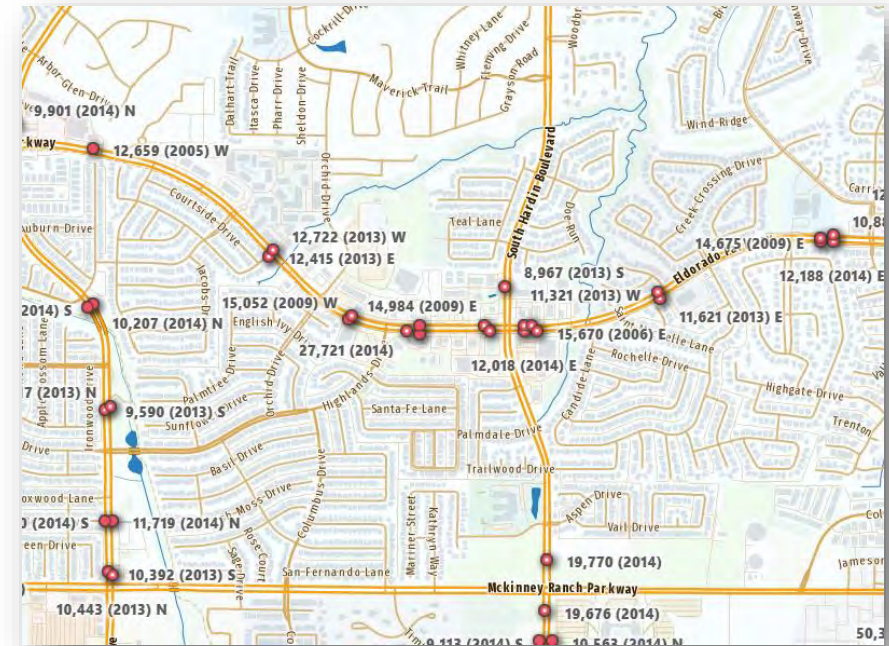
Example Patterns of Land Use

- Single or Multi Family
- Commercial
- Office
- Retail
- Mixed-Use
- Industrial
- Schools
- Railroad
- Parking

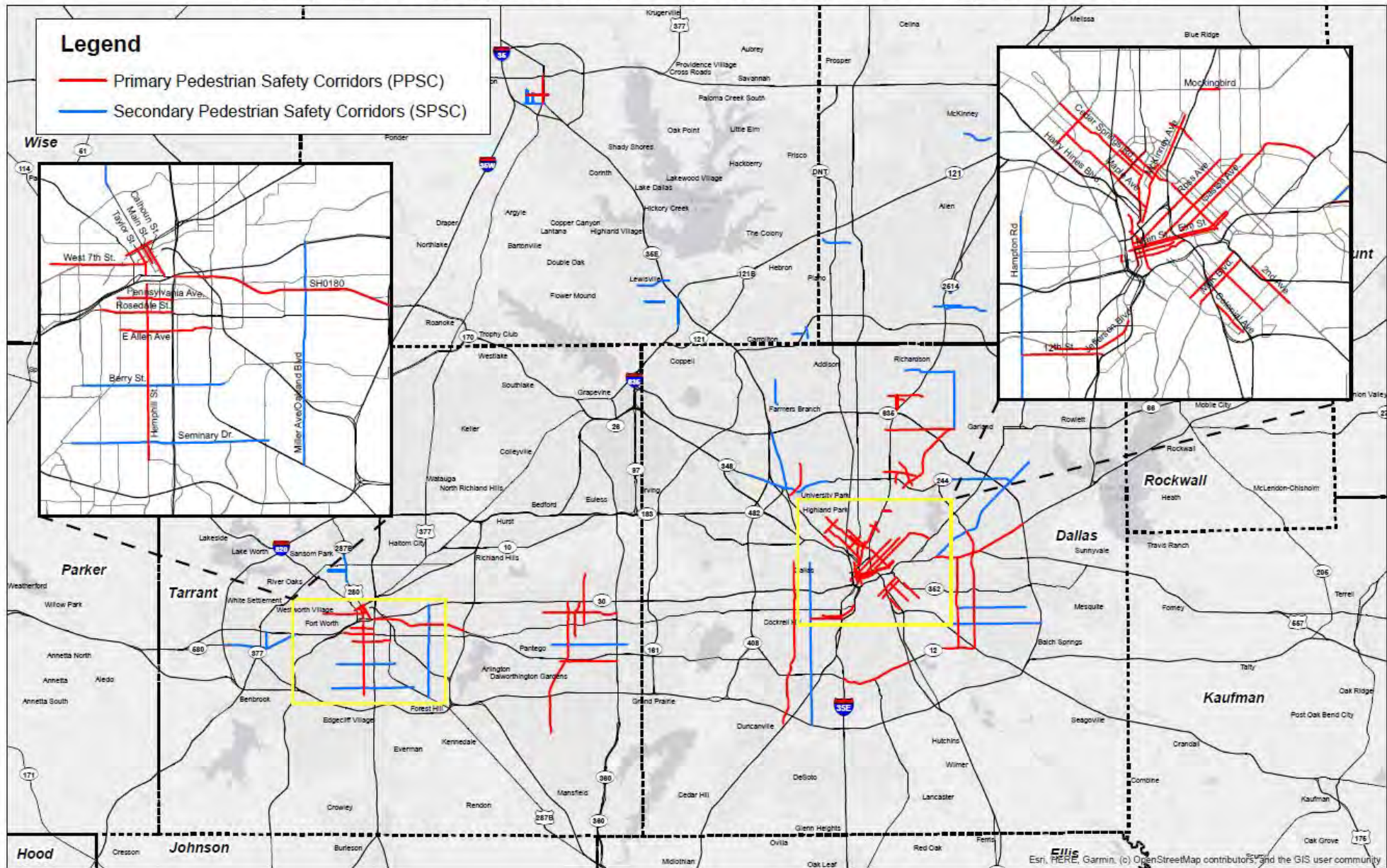


Street Topology

- Number of travel lanes
- Vehicle direction of travel
- Posted speeds
- Intersections
- Average Annual Daily Traffic (AADT)
- Sidewalks, signals, signage, bike facilities and access points (driveways for vehicles)



Primary and Secondary Pedestrian Safety Corridors (PPSC/SPSC) Urbanized Area



Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

0 5 10 Miles

Pedestrian Safety Corridors

- Total number of corridors = **106**
- Total linear miles of corridors = **95** mi.
- Total centerline miles in the 12-county region = **38,229** mi.
- (LM of corridors) / (LM of total centerline miles) = **0.62%**
- Corridors capture **25.61%** of all reported pedestrian crashes between 2014-2018

Corridor ID	Name	County	City	Begin Point	End Point	On/Off-System	Number of Lanes	Length (Miles)	Total Crashes
1	Arkansas Ln.	Tarrant	Arlington	S Davis Dr (W)	S SH 360 (E)	Off	4	3.52	17
2	Main St.	Tarrant	Fort Worth	Weatherford (N)	9th St (S)	Off	4	0.45	20
3	Lemmon Ave.	Dallas	Dallas	Lomo Alto Dr. (NW)	US 75 (Couplet)	Off	6	1.76	17
4	Riverfront Blvd.	Dallas	Dallas	Reunion Blvd (S)	Commerce St. (N)	Off	8	0.17	5
5	Jim Miller Rd.	Dallas	Dallas	IH 30 Frontage (S)	S. Great Trinity Forest Way	Off	6	5.60	31
6	Houston St.	Dallas	Dallas	Houston Viaduct (S)	McKinney (N)	Off	4	0.76	18
7	Houston St.	Dallas	Dallas	Continental Ave. (S)	All-Star Way. (N)	Off	3	0.52	4
8	Lamar St.	Dallas	Dallas	Victory (N)	Canton (S)	Off	4	1.16	43
9	Cole Ave.	Dallas	Dallas	Lemmon Ave (S)	Blackburn (N)	Off	3	0.16	5
10	Cedar Springs Rd.	Dallas	Dallas	N Mockingbird Lane (N)	Field St (S)	Off	6	4.02	49
11	Al Lipscomb Way	Dallas	Dallas	Lamar (S)	Robert B Cullum Blvd (N)	Off	4	1.59	12
12	SL 12 Buckner/Great Trinity Forest	Dallas	Dallas	Ferguson Rd (N)	Stoneport (S)	On	8	9.17	93
13	MLK Blvd.	Dallas	Dallas	Junis St. (N)	Parnell St. (S)	Off	4	1.52	39
14	Knox St./ Henderson Ave.	Dallas	Dallas	Abbott (N)	Homer (S)	Off	4	0.73	20

Primary And Secondary Pedestrian Safety Corridors: Attribute Information

Corridor Tables Included in PSAP:

- Name
- County
- City
- On/Off System (TxDOT)
- Number of Lanes
- Length
- Total Crashes (along corridor)
- Corridor ID for corresponding map



Smart Growth America
Improving lives by improving communities

The number of people struck and killed by drivers nationwide while walking increased by an astonishing **45 percent** over the last decade (2010-2019). During this ten-year period, **53,435 people were hit and killed by drivers nationwide.**

The four most recent years on record (2016-2019) are the deadliest years for pedestrian deaths since 1990.

In 2019, the **6,237** people killed is the equivalent of more than **17 people dying per day.**



smartgrowthamerica.org/dangerous-by-design/

Thank You!

Contact

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