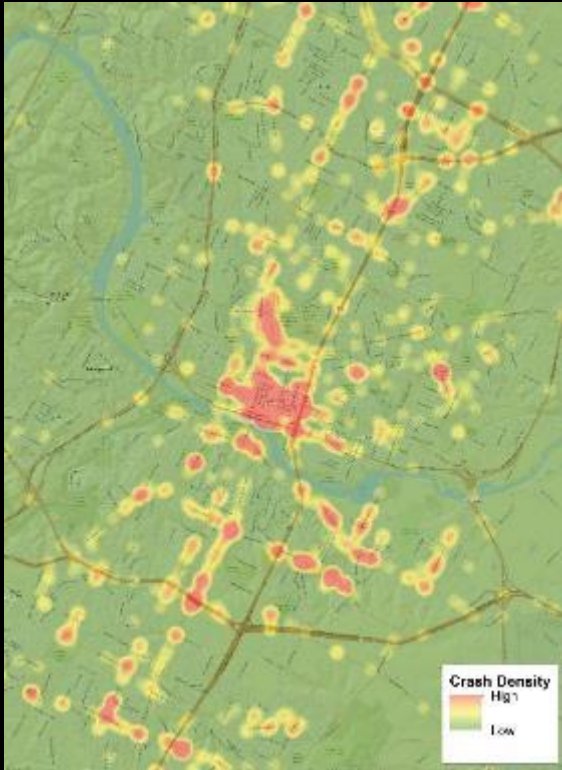


# Pedestrian Safety Action Plan Update

Pedestrian Advisory Council

June 29<sup>th</sup>, 2017





# Pedestrian Safety Action Plan

## timeline

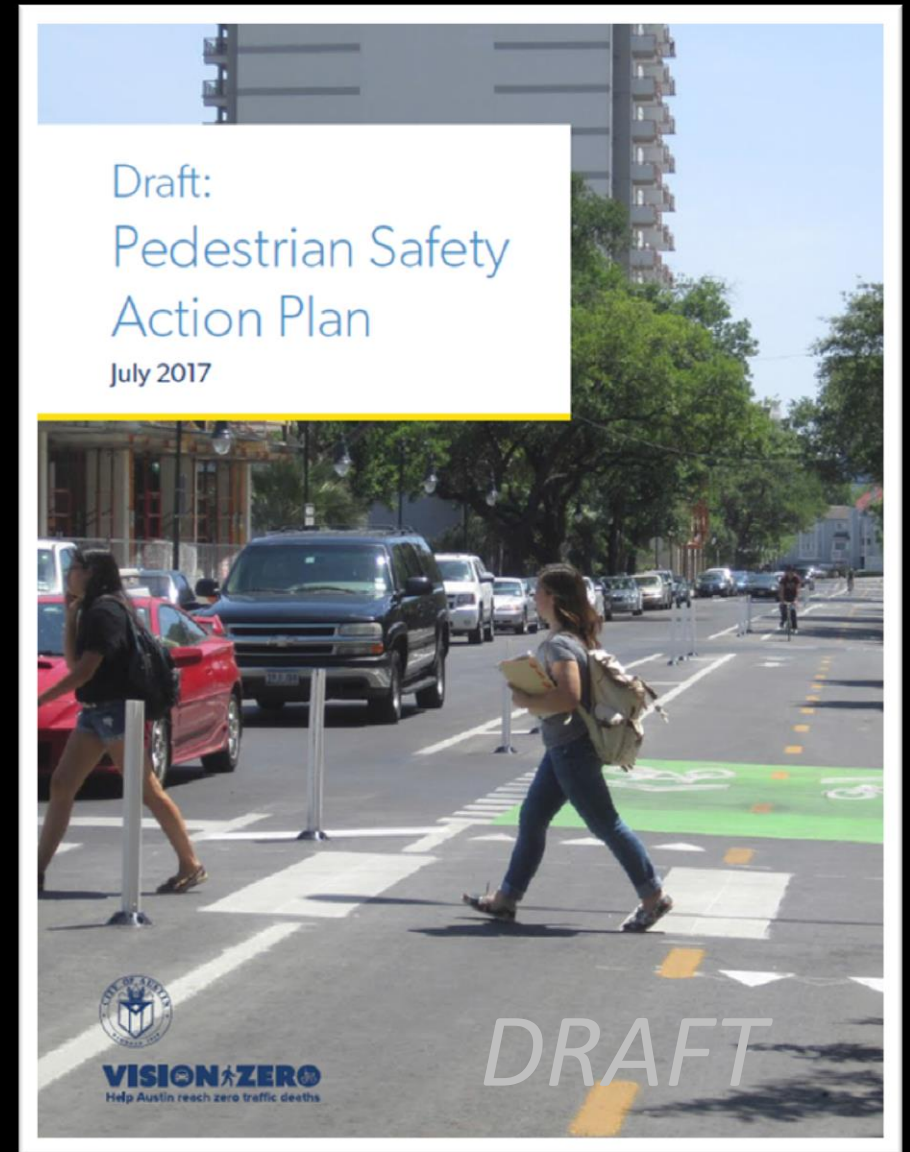
June 29 <sup>th</sup>	PAC briefing
Mid-July	Draft PSAP available for public review
July 26 <sup>th</sup>	PAC Project Subcommittee workshop on PSAP
August 7 <sup>th</sup>	Full PAC recommendation
Throughout August	briefings to boards + commissions revisions to draft plan
~ <i>September:</i>	Council considers plan



# Pedestrian Safety Action Plan

## plan contents

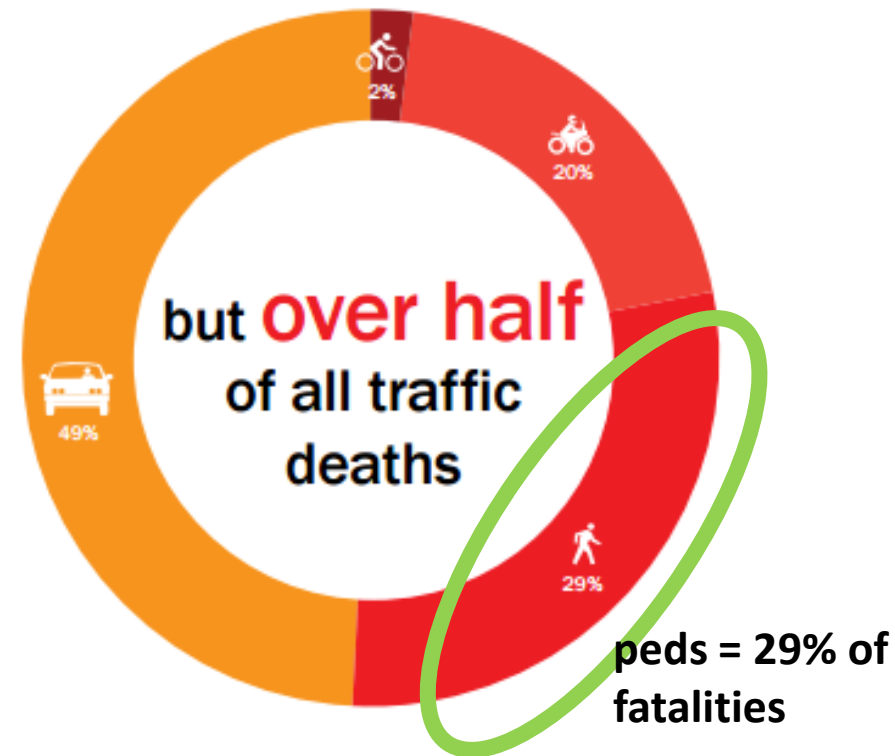
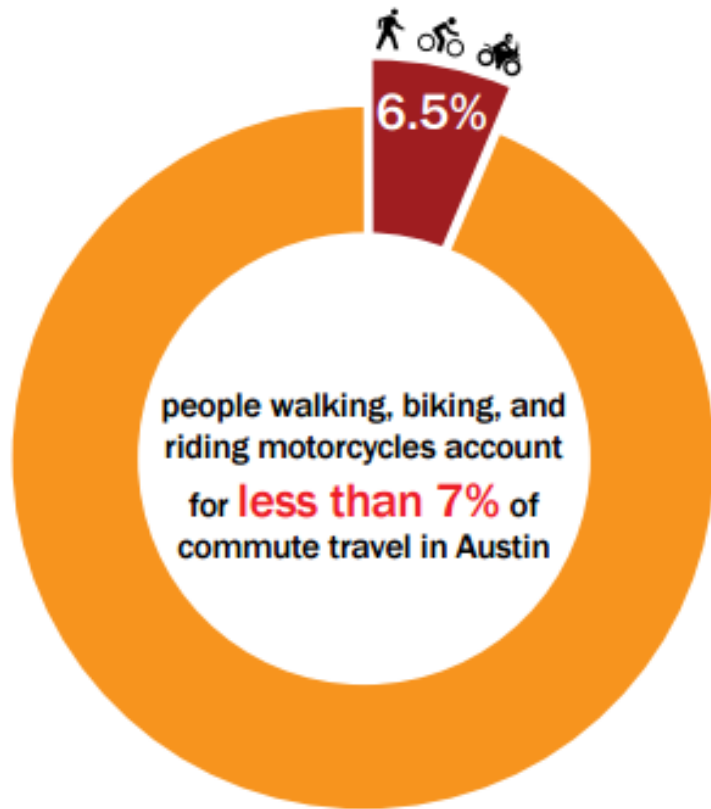
- Chapter 1 *Introduction*
- Chapter 2 *Pedestrian Crash Analysis*
- Chapter 3 *Community Priorities*
- Chapter 4 *Pedestrian Safety Priority Networks*
- Chapter 5 *Action Plan*





# Pedestrian Safety Action Plan

## Chapter 2 – Pedestrian Crash Analysis

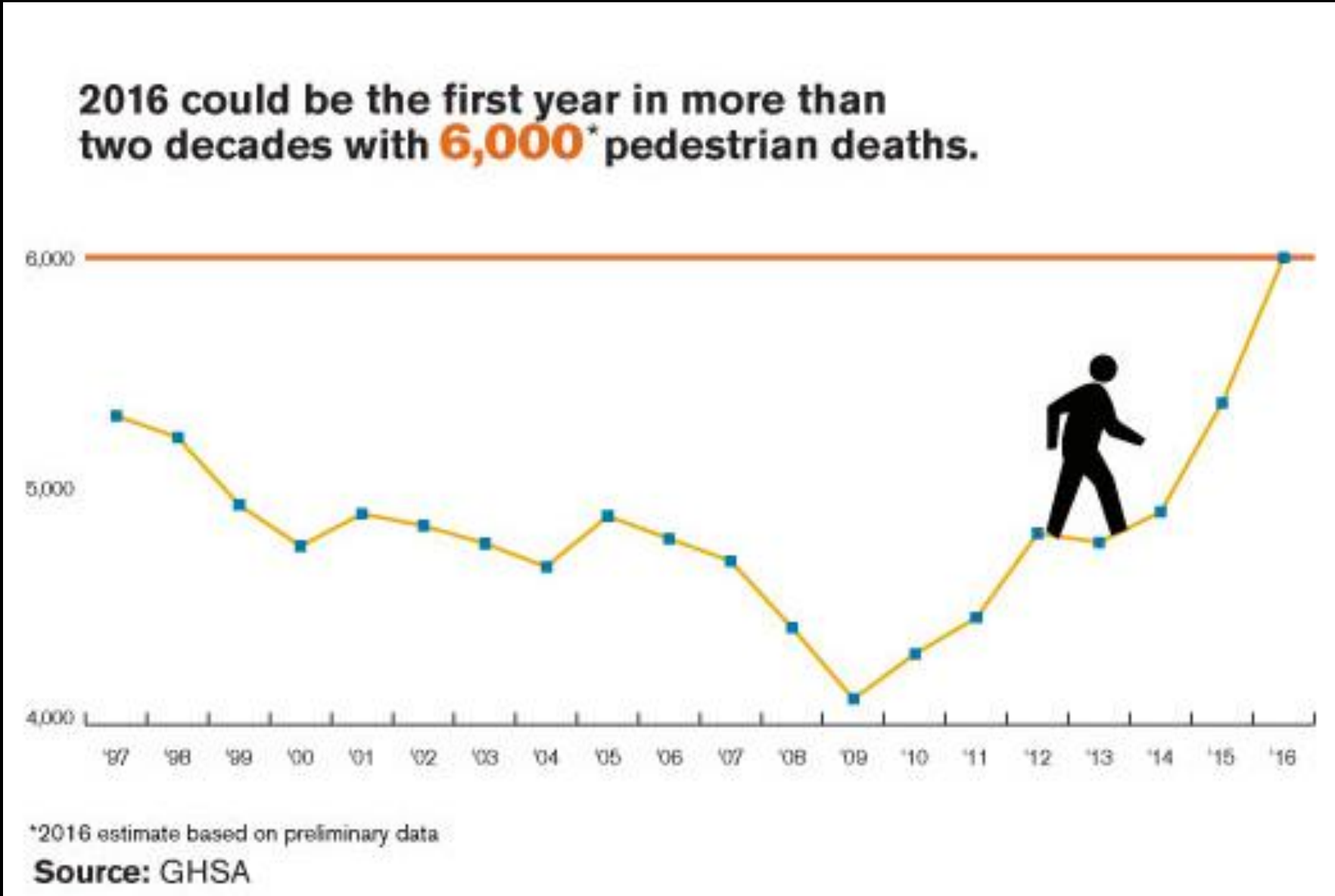


Source: American Community Survey Journey to Work Data (2013 5-year aggregate) and City of Austin Traffic Safety Data.



# Pedestrian Safety Action Plan

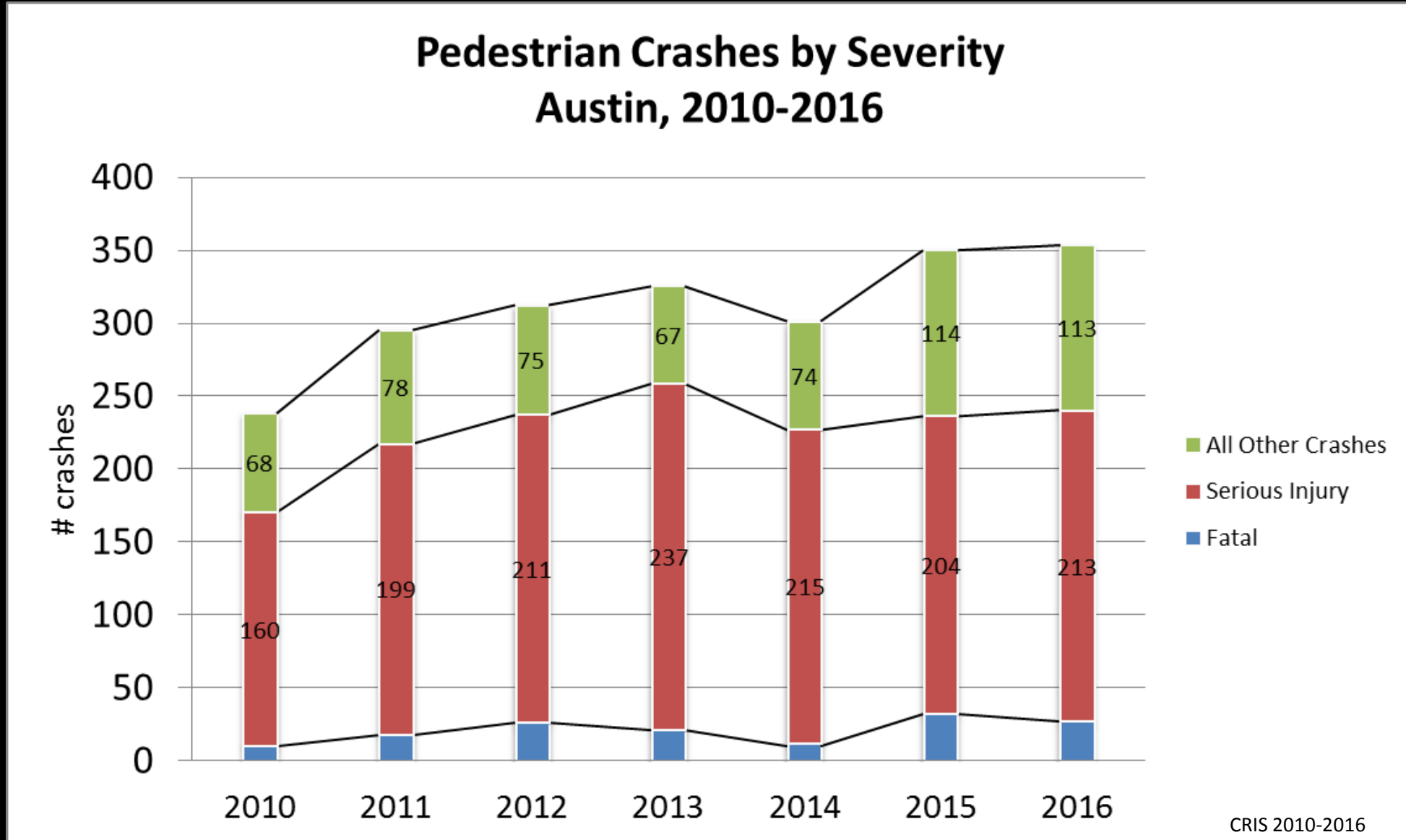
## Chapter 2 – Pedestrian Crash Analysis





# Pedestrian Safety Action Plan

## Chapter 2 – Pedestrian Crash Analysis





# Pedestrian Safety Action Plan

## Chapter 2 – *Pedestrian Crash Analysis*

Estimated  
\$50 million - \$400 million  
economic impact per year

National Safety Council. *Estimating the Costs of Unintentional Injuries*, 2014

wage and productivity losses

medical expenses

administrative expenses

motor vehicle damage

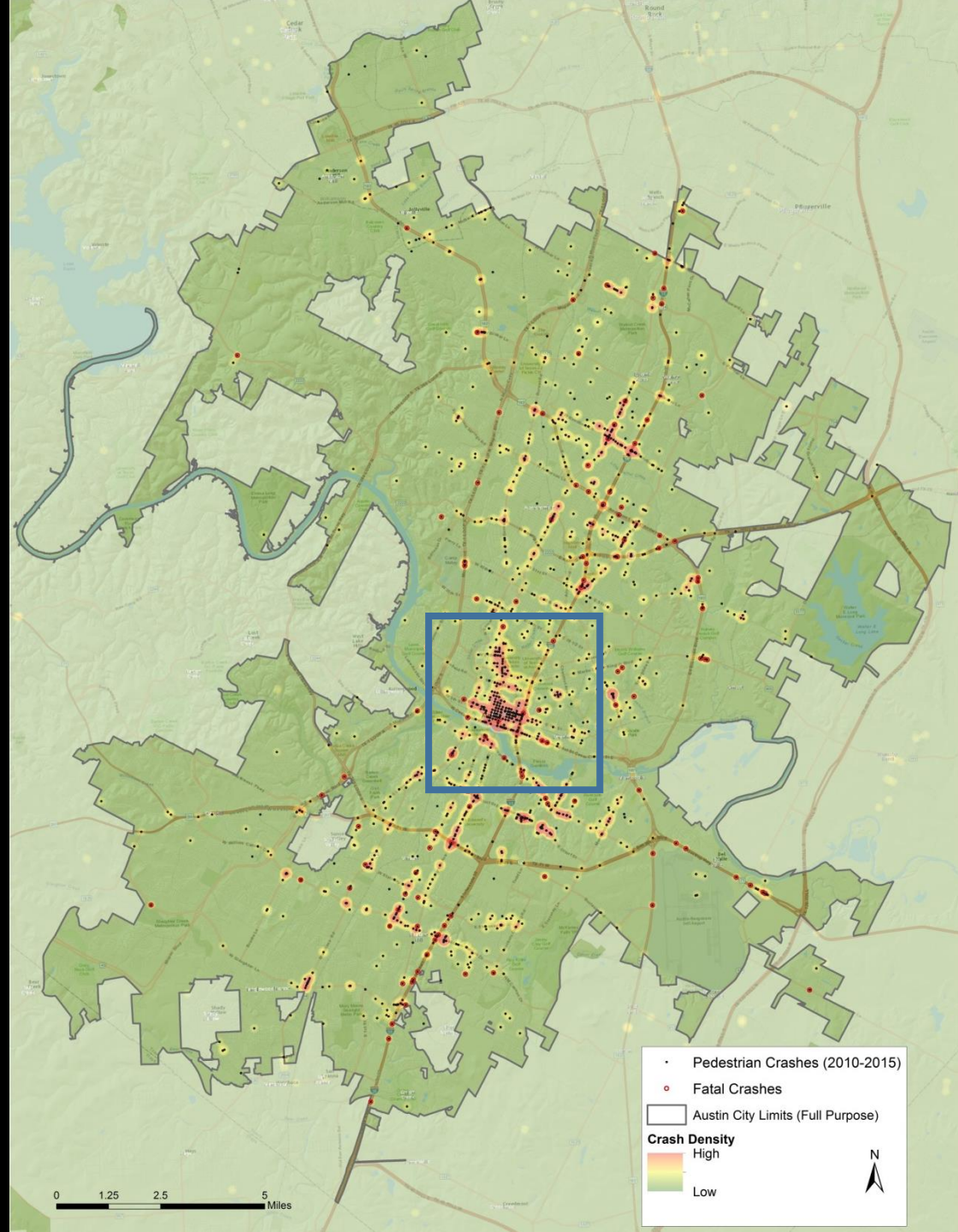
employers' uninsured costs

value of lost quality of life



# Pedestrian Safety Action Plan

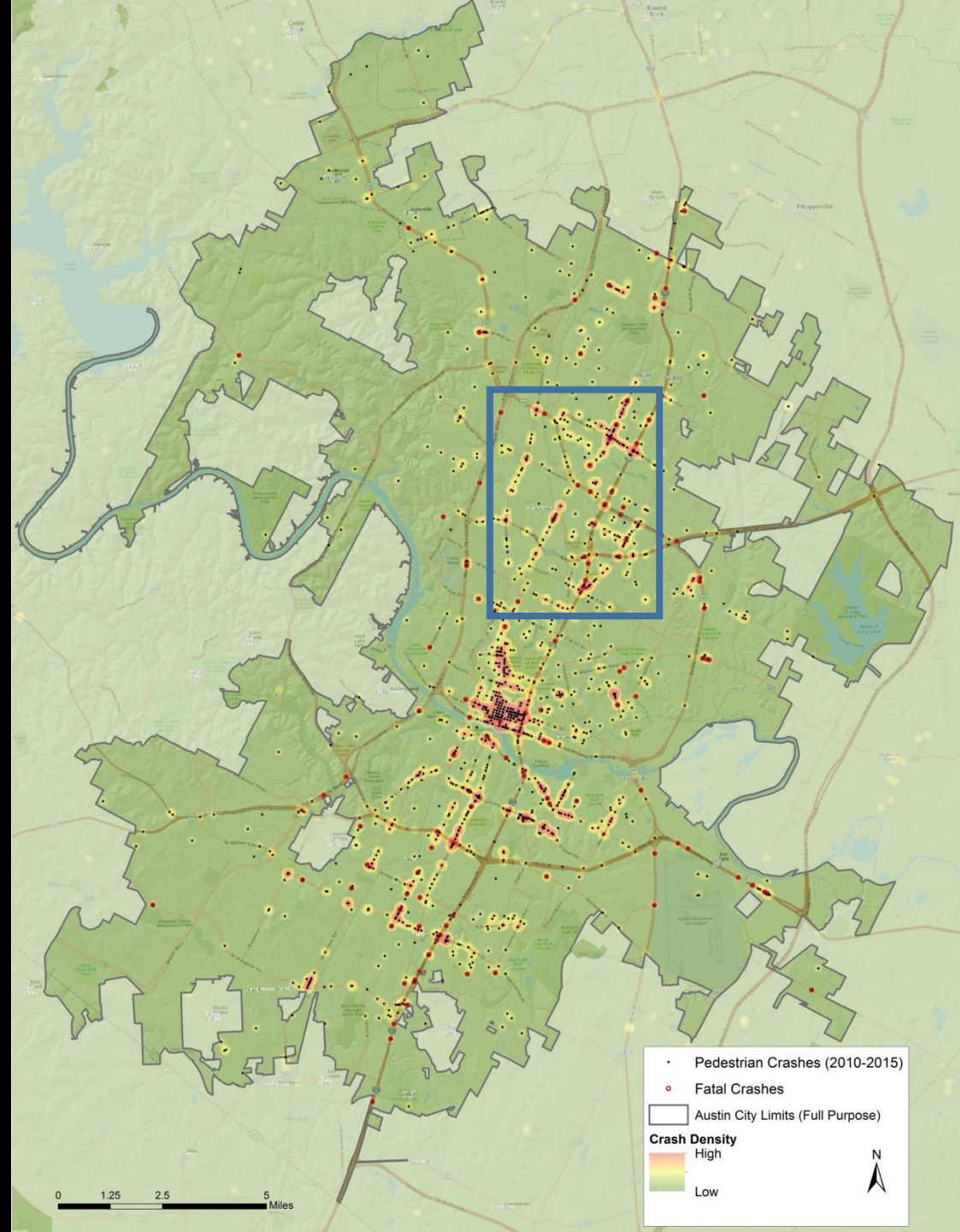
## Chapter 2 – *Pedestrian Crash Analysis*





# Pedestrian Safety Action Plan

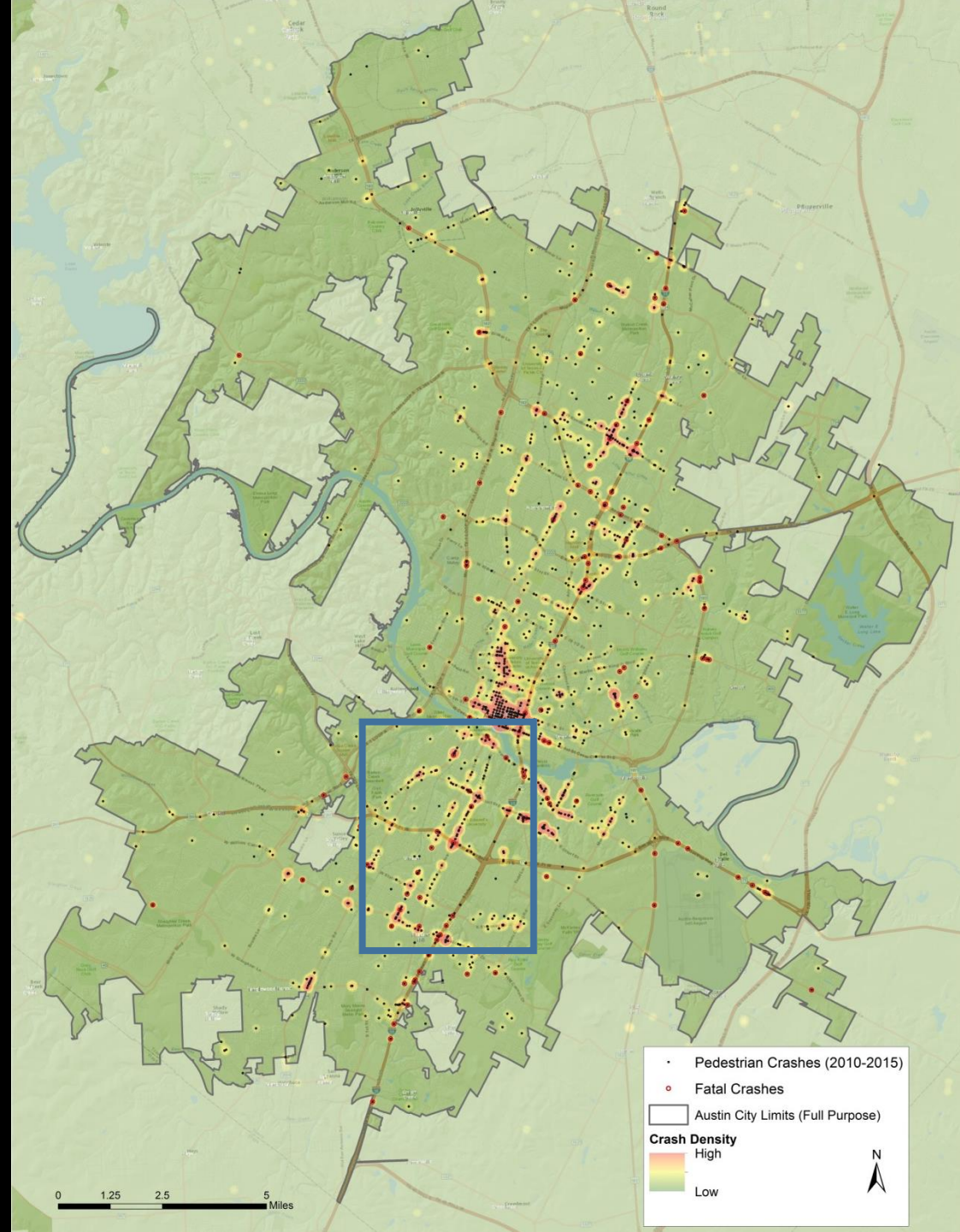
## Chapter 2 – *Pedestrian Crash Analysis*





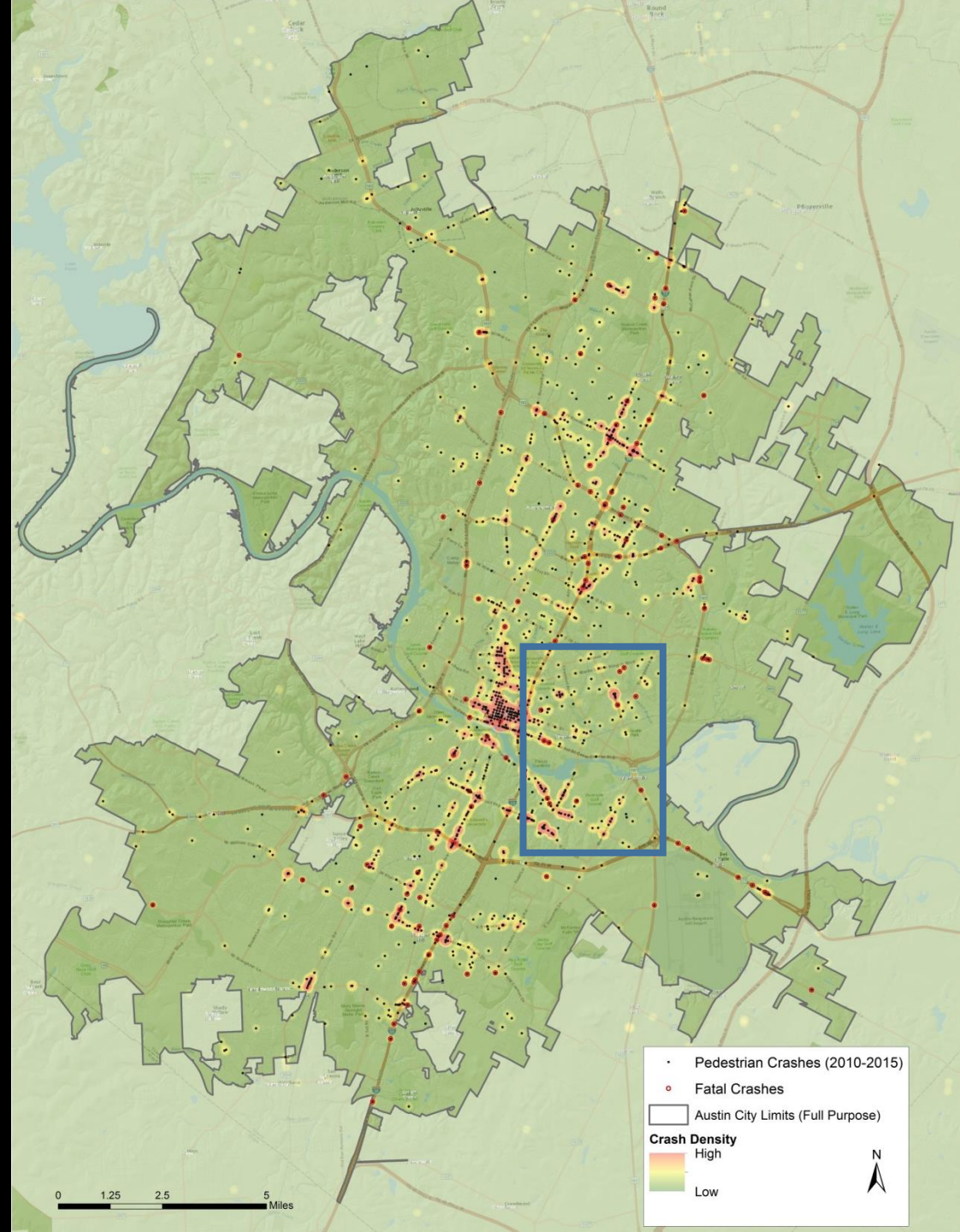
# Pedestrian Safety Action Plan

## Chapter 2 – *Pedestrian Crash Analysis*





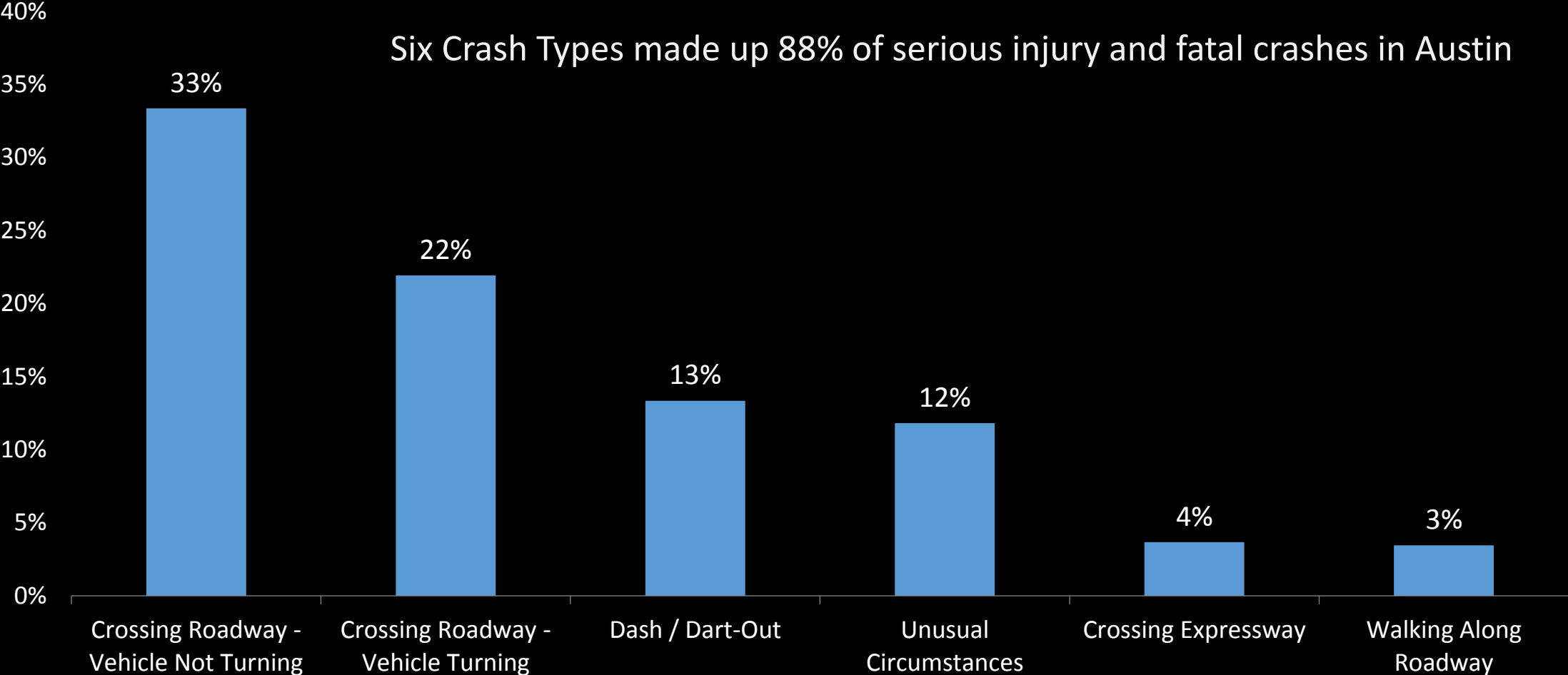
## Chapter 2 – *Pedestrian Crash Analysis*





# Pedestrian Safety Action Plan

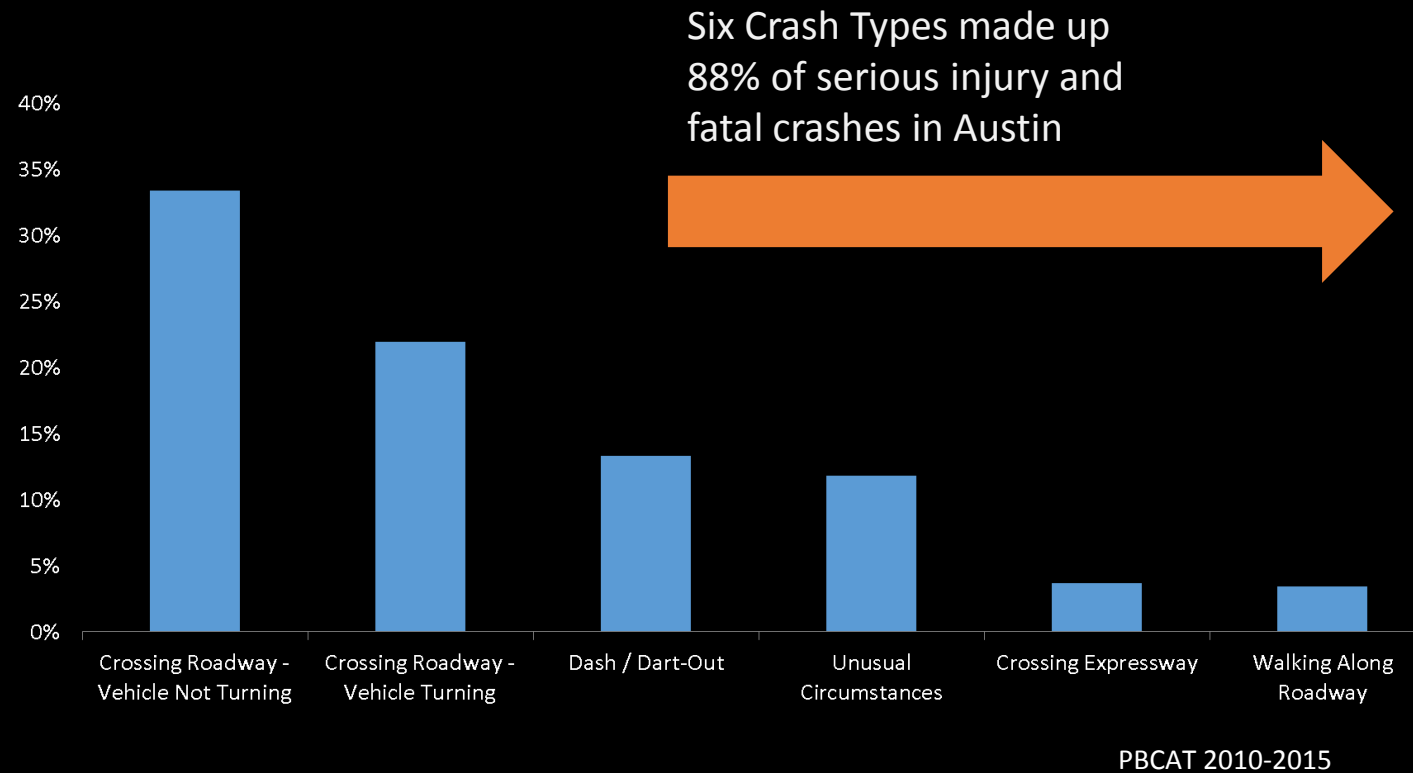
## Chapter 2 – Pedestrian Crash Analysis





# Pedestrian Safety Action Plan

## Chapter 2 – Pedestrian Crash Analysis



### Dash / Dart-Out

**Description:** The pedestrian either ran into the roadway in front of a motorist whose view of the pedestrian was not obstructed (Dash) or walked or ran into the road and was struck by a motorist whose view of the pedestrian was blocked until an instant before impact (Dart-Out).

#### Key Findings:

- *Dash/Dart-Out* crashes were more severe than crashes in other crash groups, resulting in incapacitating injury 36% of the time and fatality 10% of the time (compared with 23% and 9%, respectively, for KAB crashes in all Crash Groups).
- The *Dash* Crash Type was responsible for third most number of fatalities of any Crash Type (n=14).
- Pedestrians were found to be at fault in 86% of *Dash* crashes and 88% of *Dart-Out* crashes; Motorists were at fault 9% and 6% of the time, respectively.
- Pedestrian Alcohol Use was reported in 11% of *Dash* crashes and 6% of *Dart-Out* crashes, compared with Driver Alcohol Use, which was reported in 2% of *Dash* crashes and in zero *Dart-Out* crashes.
- There was a traffic signal within 50 ft of the crash in 18% of crashes in this crash group; 78% occurred within 1/8<sup>th</sup> mile of a traffic signal.
- 66% of *Dash* crashes occurred in the travel lane and 32% occurred in the crosswalk area.
  - For crashes that occurred in the crosswalk area, 90% of the time they were marked.
- 82% of *Dart-Out* crashes occurred in the travel lane and 15% occurred within the crosswalk area.
  - Of the crashes that occurred in the crosswalk area, 60% of the time they were marked.

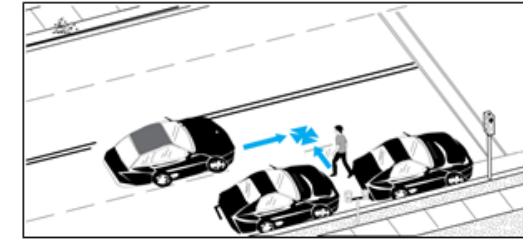


Figure X. Dart-Out

#### Potential Countermeasures

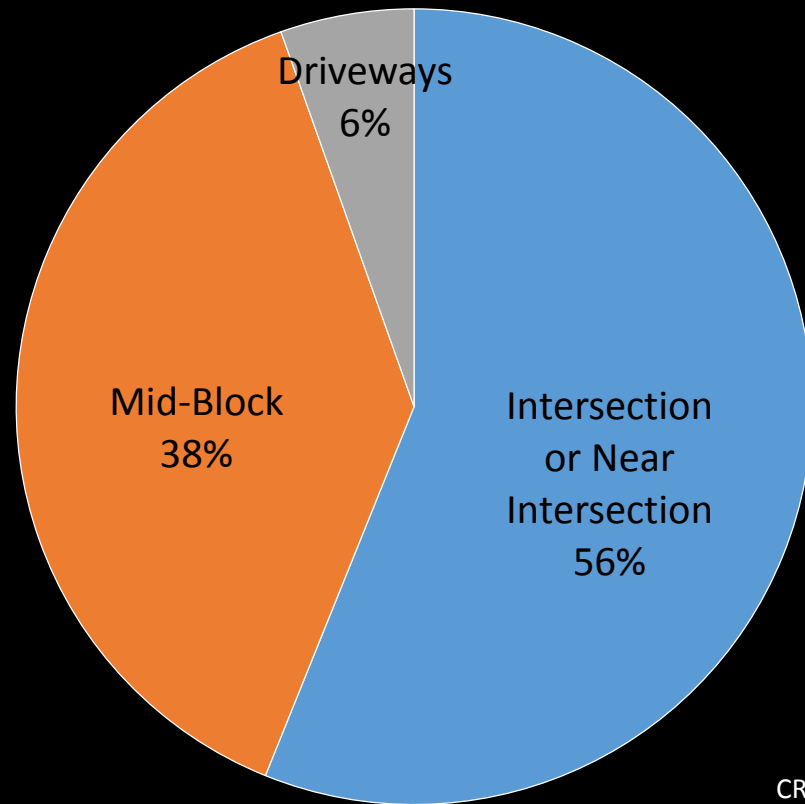
- Provide adequate nighttime lighting.
- Narrow travel lanes.
- Provide curb extensions.
- Install spot street narrowing at high midblock crossing locations.
- Implement traffic-calming measures such as chicanes, speed humps, or speed tables.
- Design gateway to alert motorists that they are entering neighborhood with high level of pedestrian activity.
- Convert street to driveway link/serpentine, shared street, or a pedestrian street.
- Provide adult crossing guard (in school zone).
- Remove or restrict on-street parking.
- Add on-street parking enhancements.
- Relocate bus stop.
- Install overpass or underpass.
- Install medians or pedestrian crossing islands.
- Provide staggered crosswalk through the median (forcing pedestrians to walk and look to the right for oncoming traffic in the second half of street).
- Alert drivers to pedestrian crossing area.
- Adjust school district boundaries.
- Enforce speed limits, pedestrian ordinances.
- Implement driver education program.
- Implement pedestrian education program.

Countermeasures and crash images adapted from FHWA's Pedestrian Safety Guide and Countermeasure Selection System  
[http://www.pedbikesafe.org/PEDSAFE/guide\\_analysis\\_CrashTypeAnalysis.dfm](http://www.pedbikesafe.org/PEDSAFE/guide_analysis_CrashTypeAnalysis.dfm)



# Pedestrian Safety Action Plan

## Chapter 2 – *Pedestrian Crash Analysis*



CRIS 2010-2016



# Pedestrian Safety Action Plan

## Chapter 2 – *Pedestrian Crash Analysis*

*When fault was assigned, Motorists were found to be at fault 48% of the time compared with Pedestrians at 44% of the time.*

(PBCAT 2010-2015)

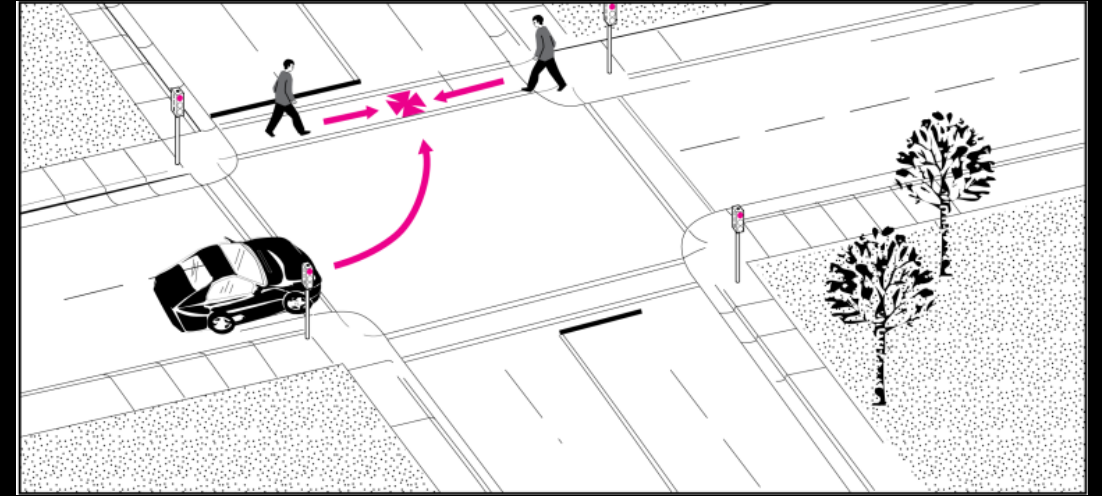


# Pedestrian Safety Action Plan

## Chapter 2 – *Pedestrian Crash Analysis*

In “Crossing Roadway - Vehicle Turning” Crashes, drivers were found to be at fault 80% of the time, while pedestrians were found to be at fault 11% of the time.

(PBCAT 2010-2015)



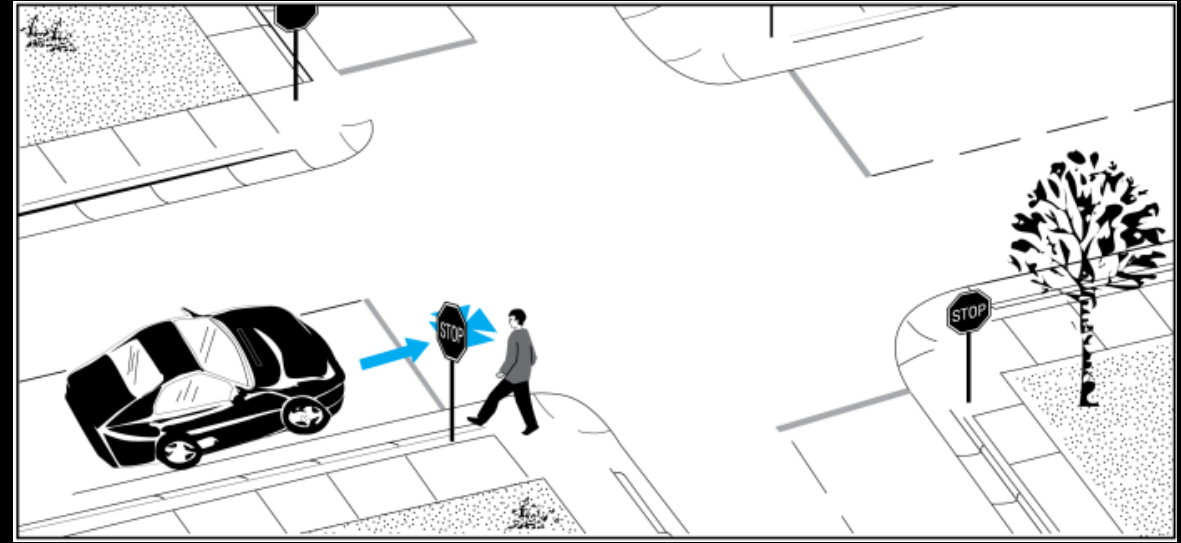


# Pedestrian Safety Action Plan

## Chapter 2 – *Pedestrian Crash Analysis*

In “Crossing Roadway - Vehicle *NOT* Turning” Crashes, drivers were found to be at fault 44% of the time, while pedestrians were found to be at fault 56% of the time.

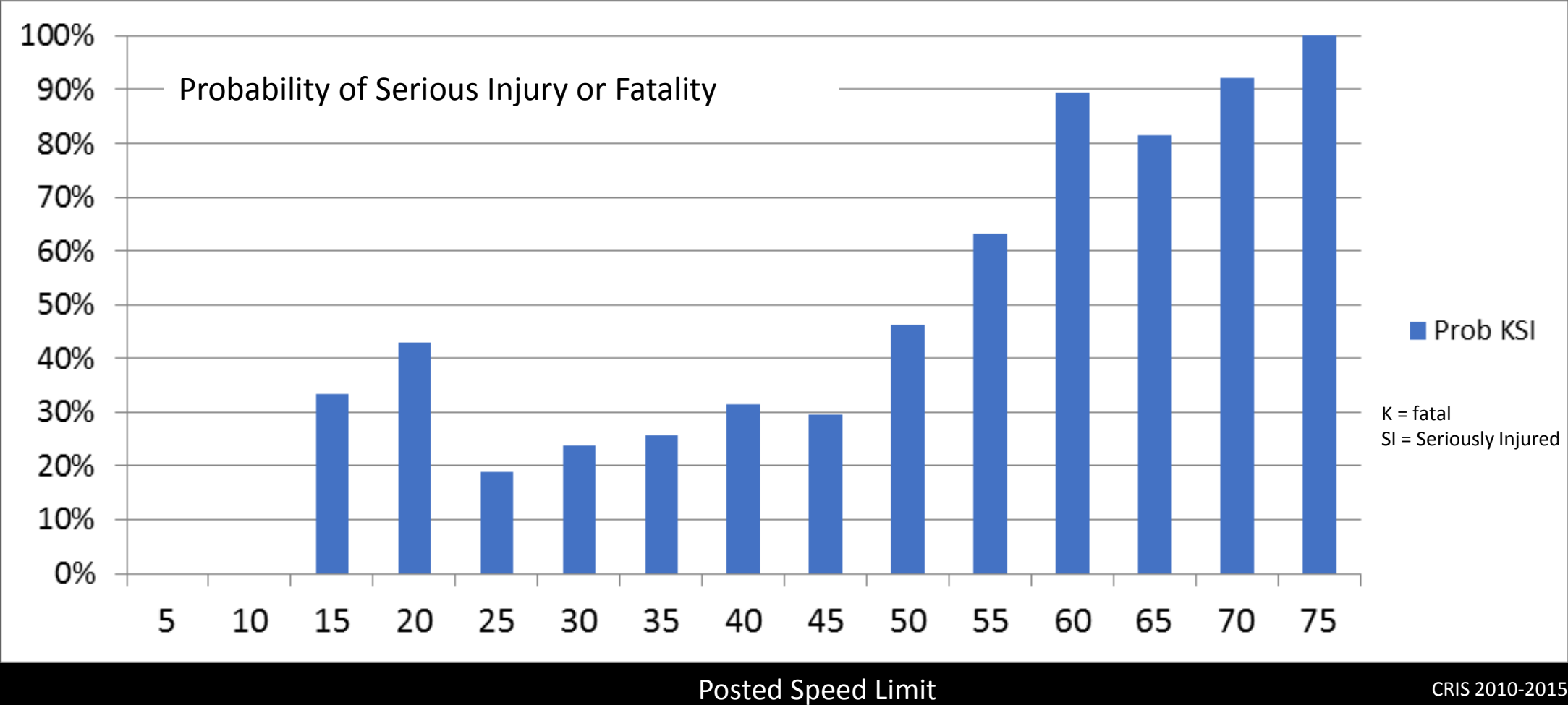
(PBCAT 2010-2015)





# Pedestrian Safety Action Plan

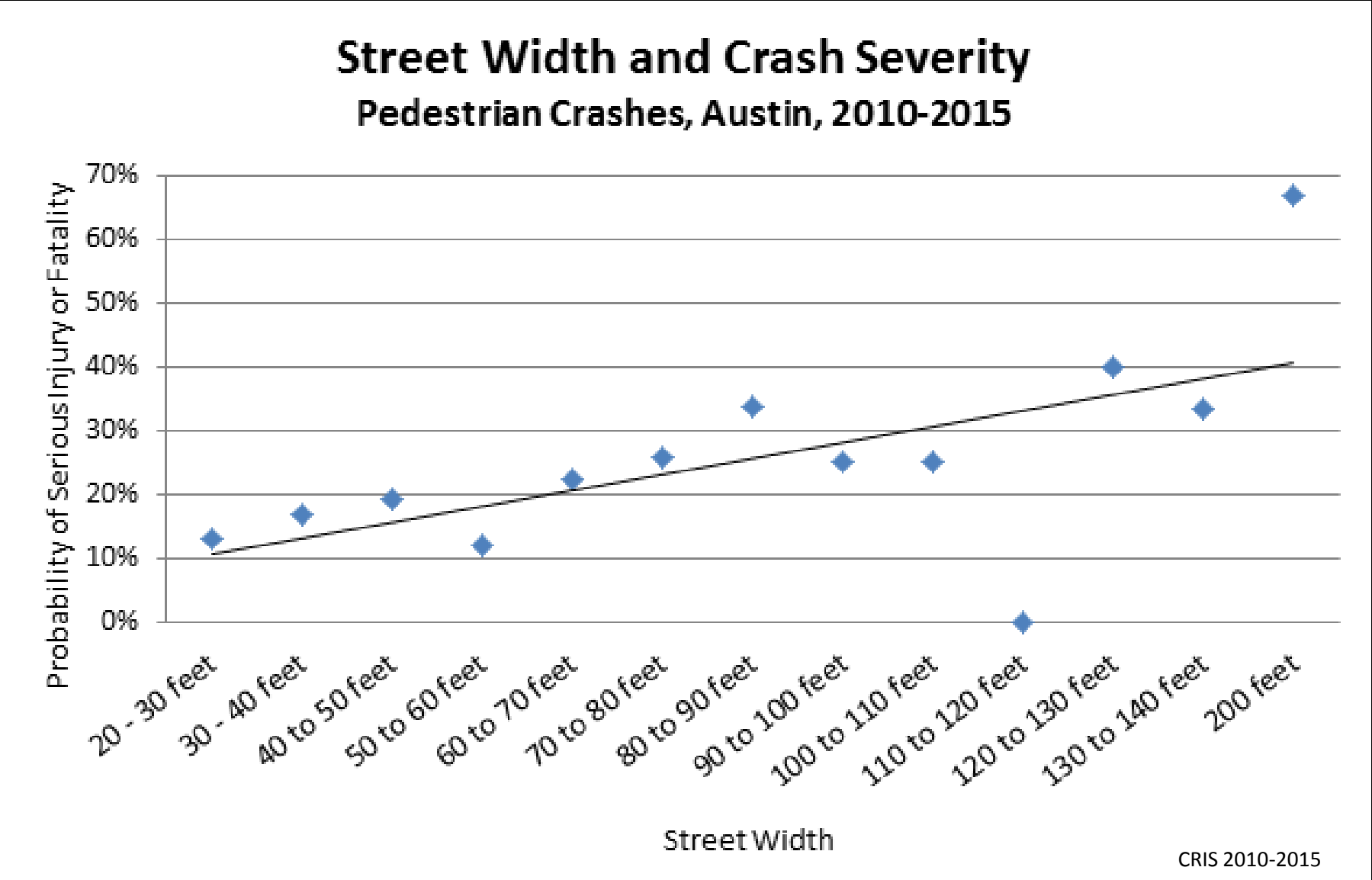
## Chapter 2 – Pedestrian Crash Analysis





# Pedestrian Safety Action Plan

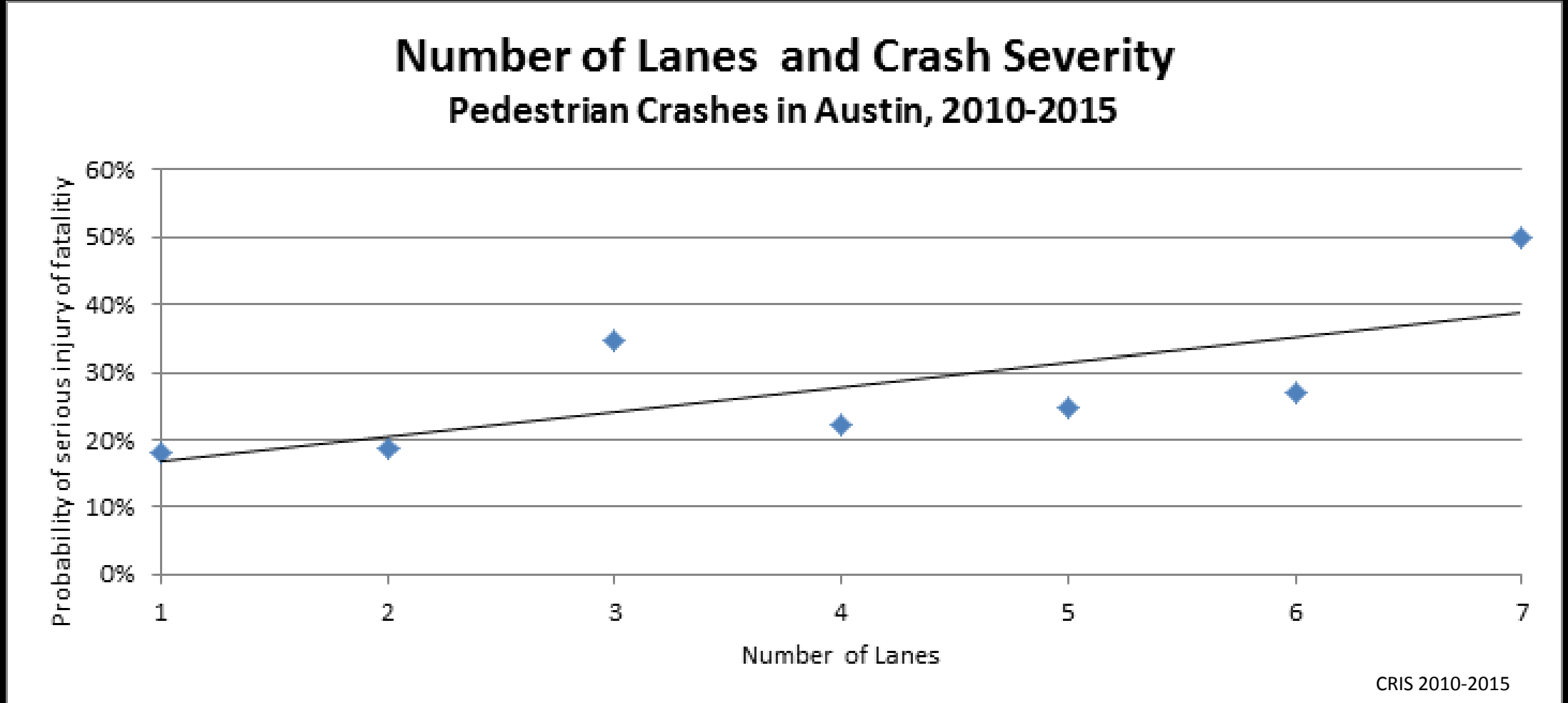
## Chapter 2 – Pedestrian Crash Analysis





# Pedestrian Safety Action Plan

## Chapter 2 – *Pedestrian Crash Analysis*





# Pedestrian Safety Action Plan

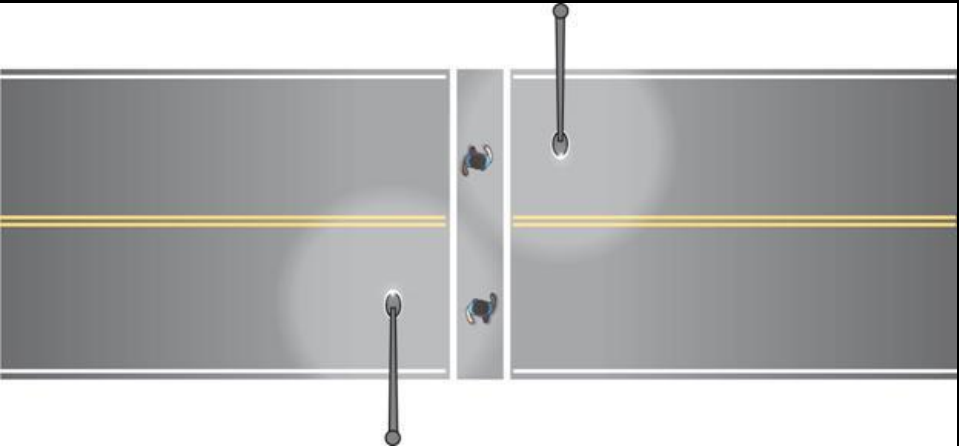
## Chapter 2 – Pedestrian Crash Analysis

For crashes that occurred in the dark, the presence of street lighting was correlated with an 8% reduction in the probability of fatality or incapacitating injury.

CRIS 2010-2015

Crash Severity	Avg. distance to nearest street light
Fatal	134 feet
Incapacitating Injury	99 feet
Non-Incapacitating Injury	72 feet
Not Injured/Possible Injury	78 feet
Average for all	87 feet

CRIS 2010-2015





# Pedestrian Safety Action Plan

## Chapter 2 – Pedestrian Crash Analysis

### Top Contributing Factors

Factor	n	% of total
Failure to Yield	965	51%
Distraction	315	17%
Impairment	162	9%
Improper Maneuver	132	7%
Speed	60	3%
Failure to Stop	46	2%
Other	209	11%
Total Mentions	1,889	

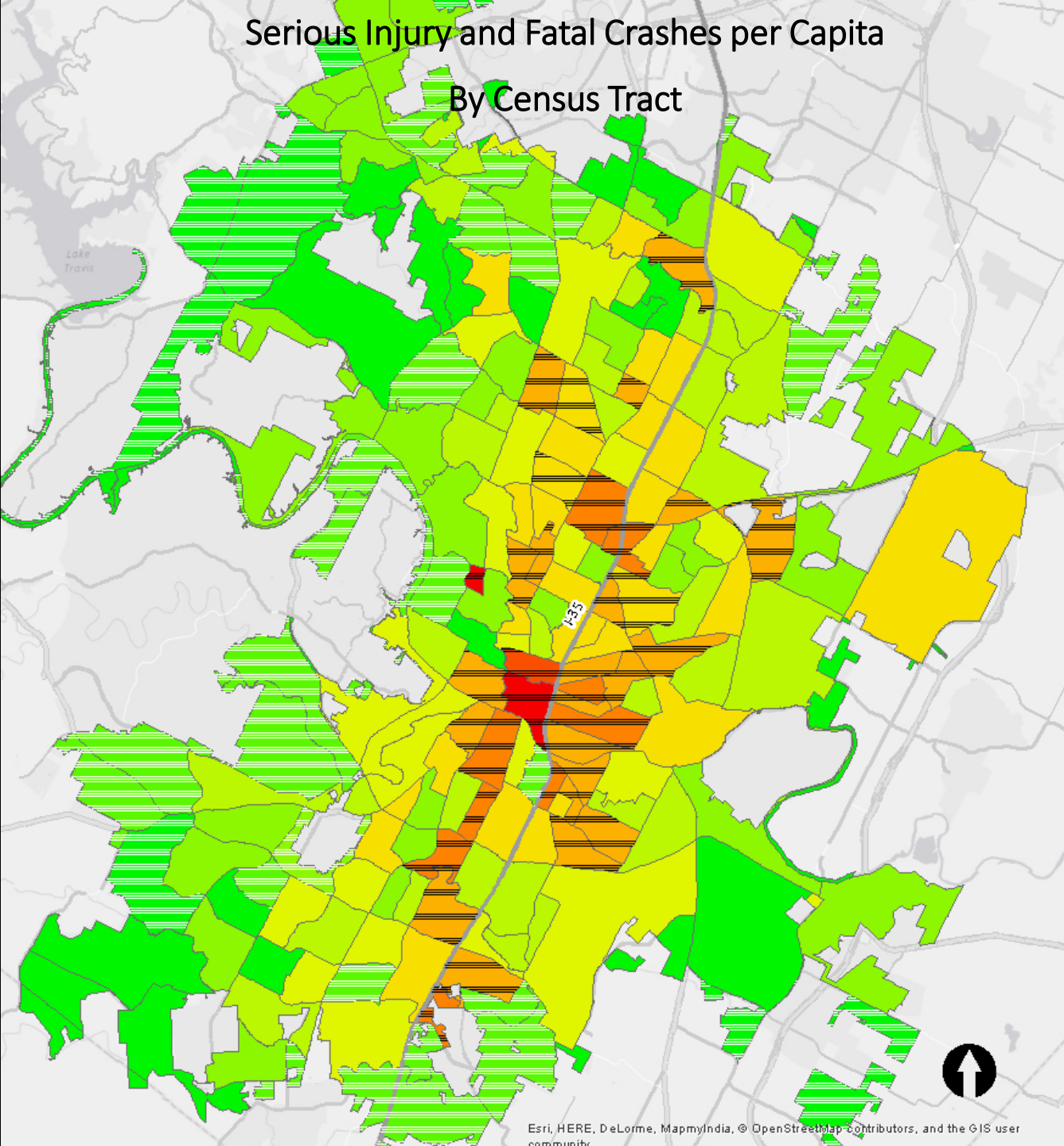
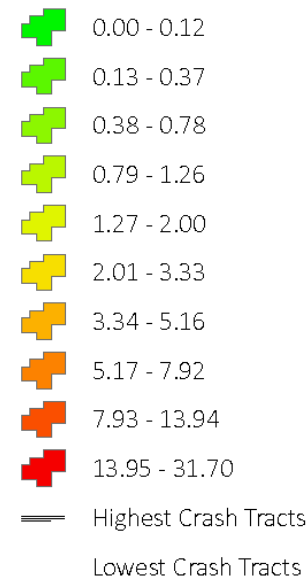




# PSAP

## Chapter 2 – Pedestrian Crash Analysis

Serious Injury and Fatal Crashes per 1,000 people



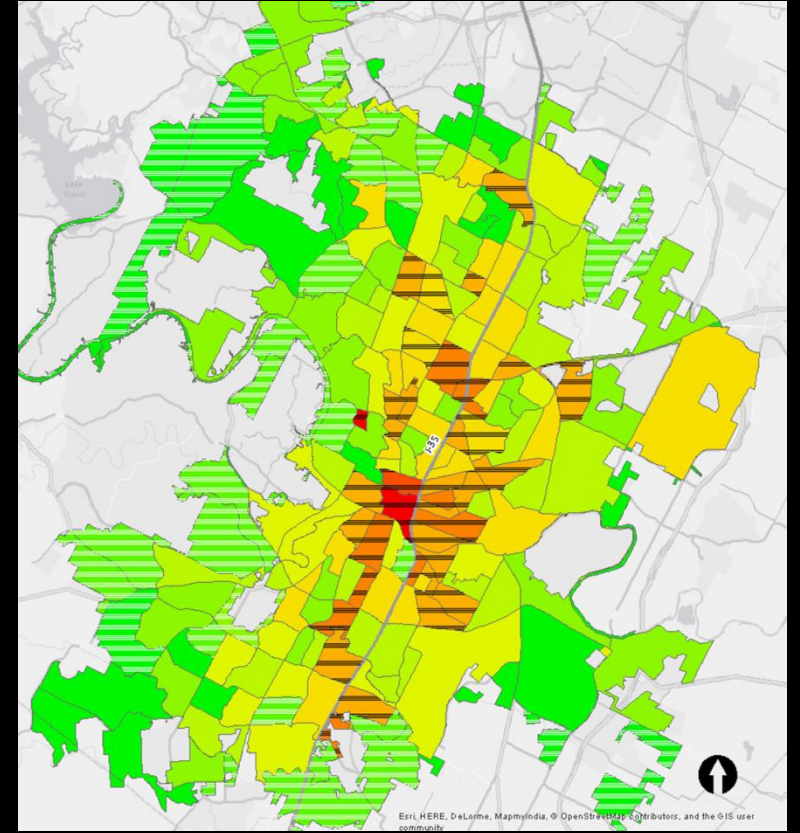


# Pedestrian Safety Action Plan

## Chapter 2 – Pedestrian Crash Analysis

When comparing the *highest crash* Census Tracts versus the *lowest crash* Census Tracts in Austin, the *highest crash* Tracts have:

- 20% lower car ownership
- 4X transit ridership
- \$49K median household income vs \$90k (\$65 for entire City)
- 26% non-white vs 18% non-white (24% for all of Austin)  
38% Hispanic/Latino vs 25% Hispanic/Latino (34% for all of Austin)  
11% black vs 4% black (8% for all of Austin)
- 13% speak English “less than very well” vs 5% (10% all of Austin)

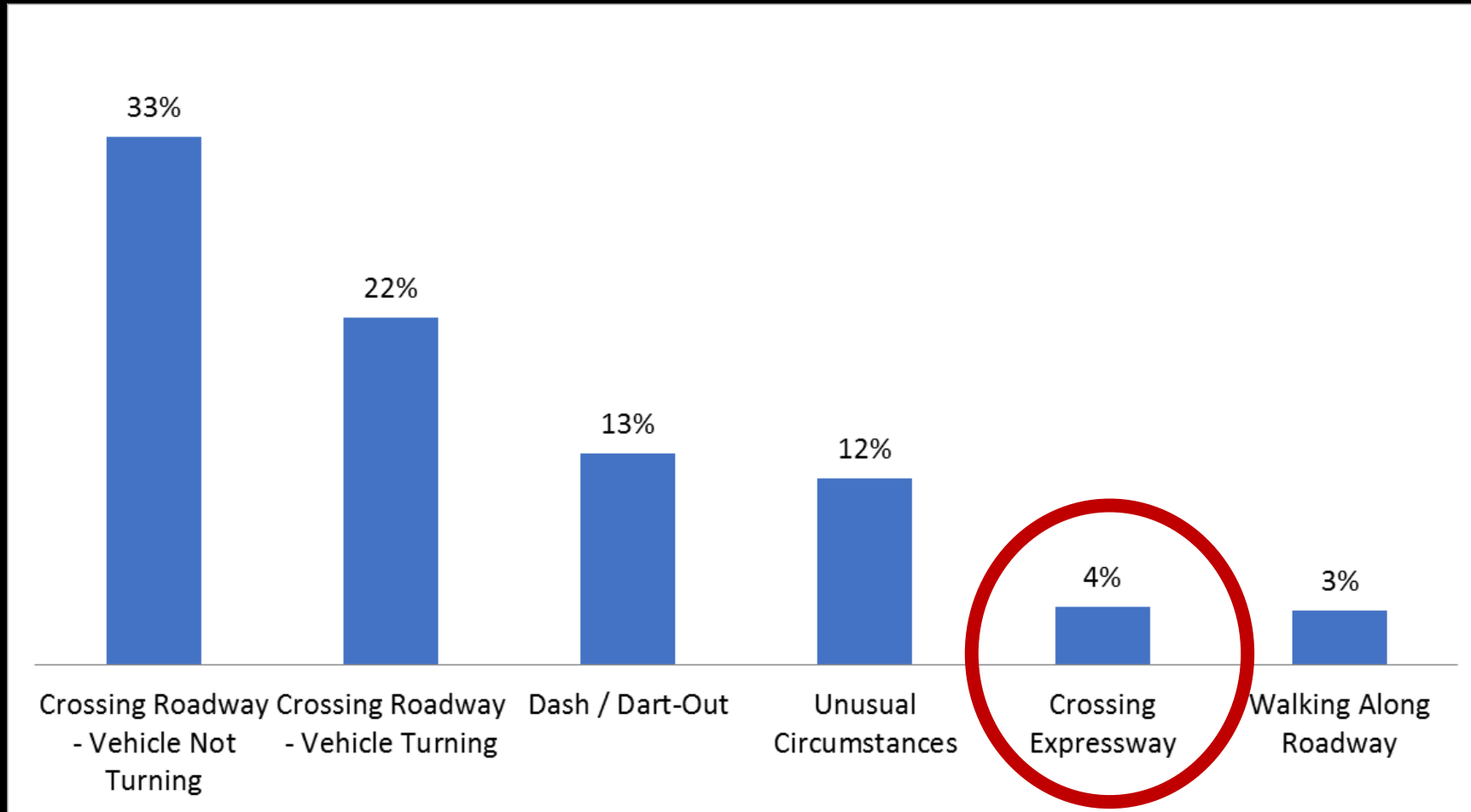




# Pedestrian Safety Action Plan

## Chapter 2 – Pedestrian Crash Analysis

“Crossing Expressway” accounts for only 4% of serious injury/fatal (KAB) pedestrian crashes in Austin

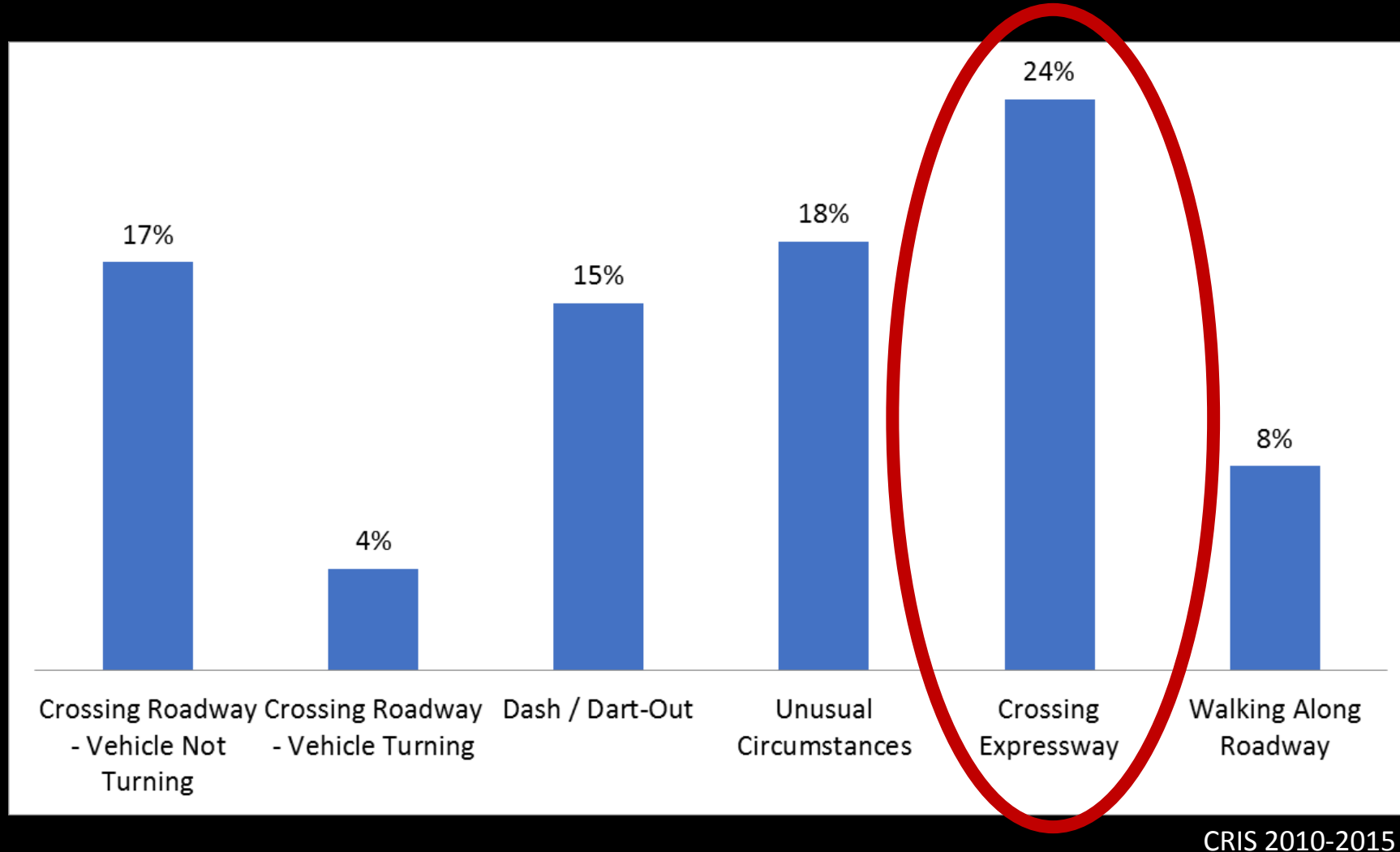




# Pedestrian Safety Action Plan

## Chapter 2 – Pedestrian Crash Analysis

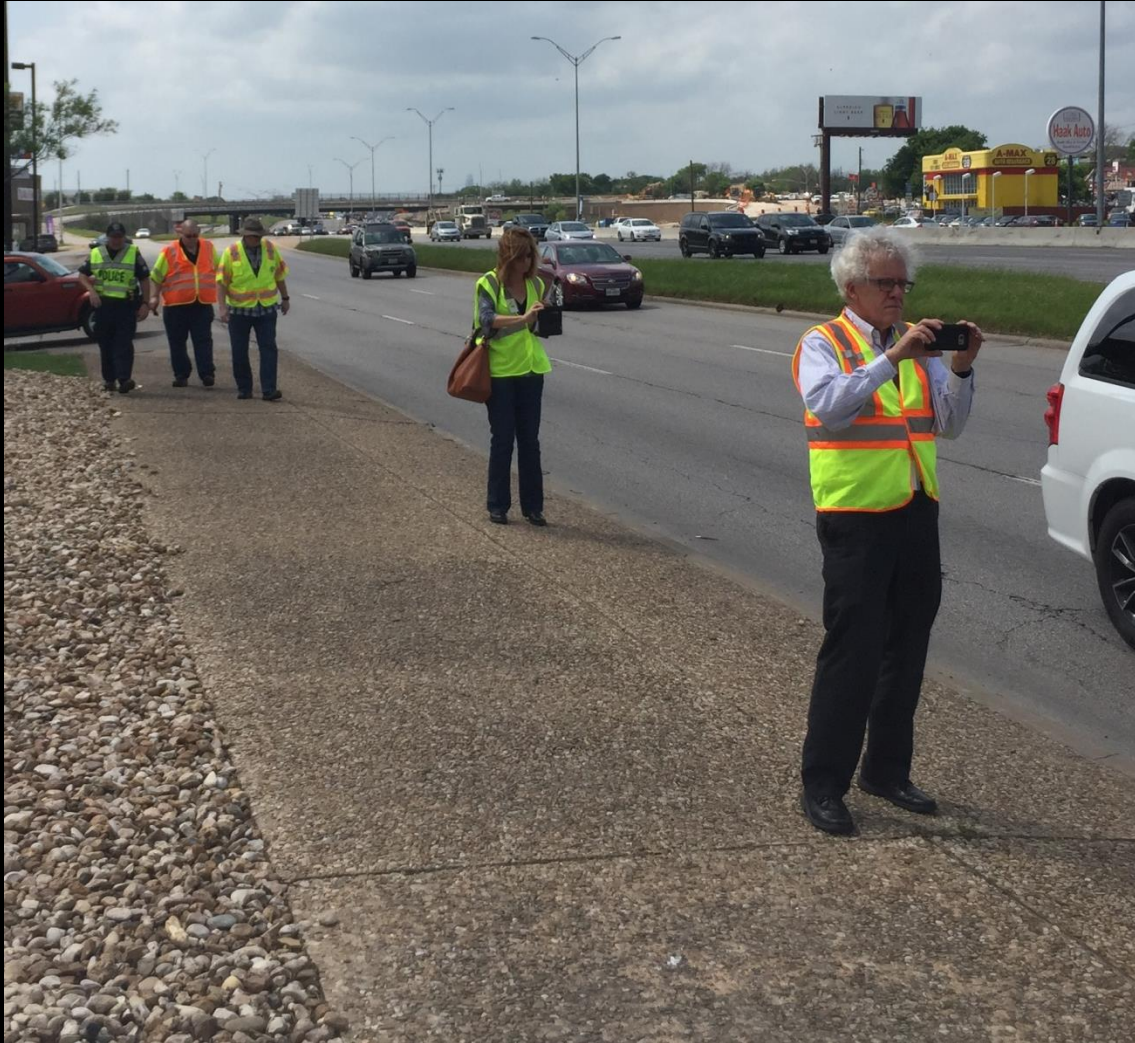
“Crossing Expressway” accounts for nearly a quarter of all pedestrian fatalities in Austin



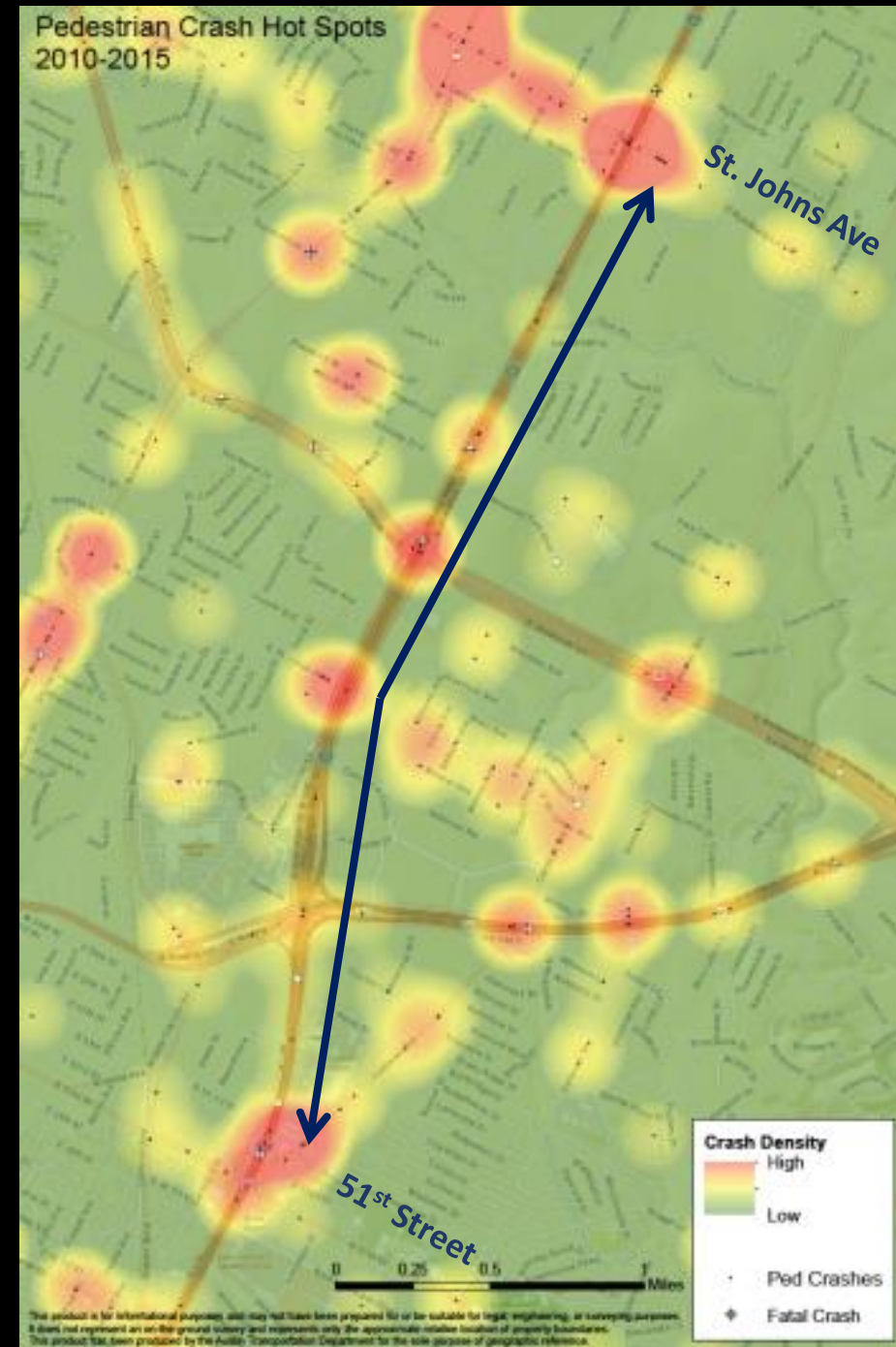


# Pedestrian Safety Action Plan

## Chapter 2 – *Pedestrian Crash Analysis*



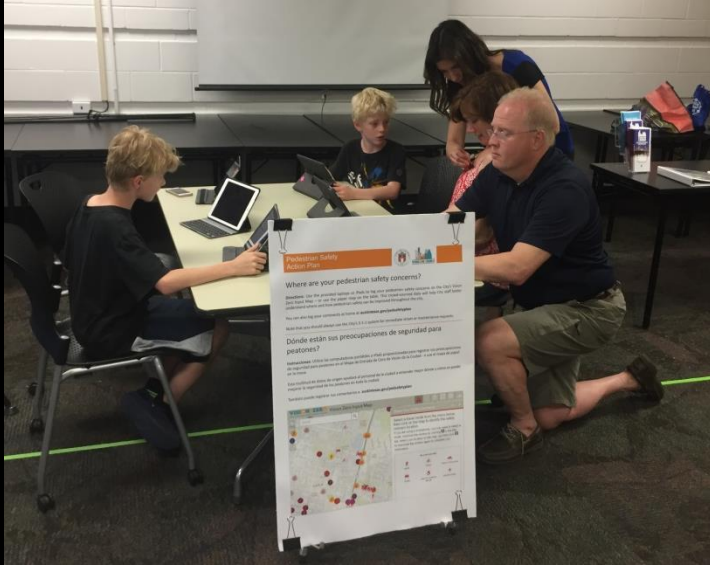
I-35 Pedestrian Road Safety Audit – March 28<sup>th</sup>-30<sup>th</sup>, 2017





# Pedestrian Safety Action Plan

## Chapter 3 – Community Priorities



Join the City of Austin's Transportation Department for

## WALK + BIKE TALKS

A community conversation

### Pedestrian Safety Action Plan

Learn more about this planning effort to improve pedestrian safety and share your concerns related to walking safely on Austin streets.

### Implementing the Bicycle Master Plan

Provide feedback on how the City should prioritize projects that can complete gaps in the bicycle network.

### MAKE PLANS TO ATTEND A MEETING NEAR YOU!

All meetings are open to the public.

**Saturday, February 25**  
South Austin Recreational Center  
1100 Cumberland Drive, 10-11:30 a.m.

**Saturday, February 25**  
Pleasant Hill Branch Library  
211 E. William Cannon Drive, 2-3:30 p.m.

**Wednesday, March 1**  
City Hall, Room 1029  
301 W. 2nd Street, 6-7:30 p.m.

**Tuesday, March 7**  
Hampton Branch at Oak Hill Library  
5125 Convict Hill Road, 6-7:30 p.m.

**Wednesday, March 22**  
Spicewood Springs Library  
8637 Spicewood Springs Road, 6:30-8 p.m.

**Thursday, March 23**  
Windsor Park Library  
5833 Westminster Drive, 6-7:30 p.m.

**Saturday, March 25**  
North Austin YMCA  
1000 W. Rundberg Lane, 10-11:30 a.m.

**Saturday, March 25**  
Old Quarry Branch Library  
7051 Village Center Drive, 12:30-2 p.m.

**Tuesday, March 28**  
Yarborough Library  
2200 Hancock Drive, 6:00-7:30 p.m.

**Saturday, April 1**  
Carver Branch Library  
1161 Angelina Street, 10:30-12 p.m.

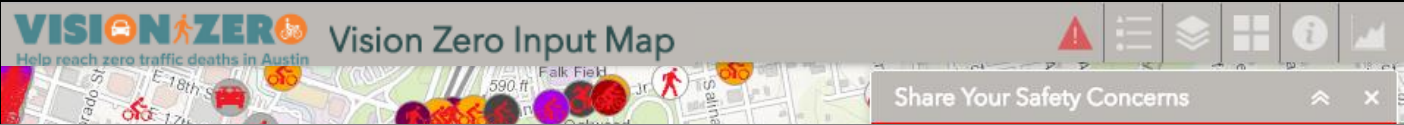
**Saturday, April 1**  
Ruiz Branch Library  
1600 Grove Boulevard, 2-3:30 p.m.

For more information, email [ActiveTransportation@AustinTexas.gov](mailto:ActiveTransportation@AustinTexas.gov) or call 512-974-7853  
[AustinTexas.gov/ActiveTransportation](http://AustinTexas.gov/ActiveTransportation)  
Facebook: [AustinBikePed](#) • Twitter: [@AustinBikePed](#)

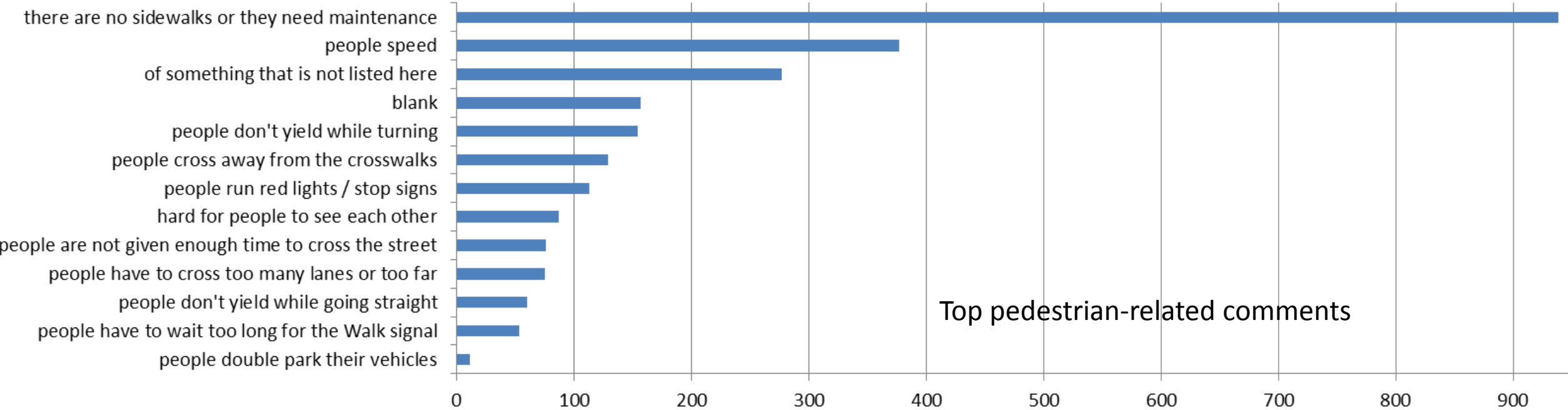


# Pedestrian Safety Action Plan

## Chapter 3 – Community Priorities



7,200+ comments as of May 1<sup>st</sup>



Top pedestrian-related comments





# Pedestrian Safety Action

## Chapter 3 – Community Priorities

**Pedestrian Safety Action Plan**

**How should pedestrian safety treatments be prioritized?**

City staff will identify and prioritize potential locations to receive pedestrian safety treatments based on a combination of factors, including high crash locations, high risk locations and high demand locations, along with community input through 3-1-1.

**Directions:** Use the provided dots to mark the top six (6) criteria you feel are most important for identifying and prioritizing locations for pedestrian treatments. Use the Post-it notes to write in other criteria not listed.

**Instrucciones:** Utilice los puntos proporcionados para marcar los 6 criterios que considera más importantes para identificar y priorizar lugares para tratamientos de peatones. Utilice las notas para escribir en otros criterios que no estén listados.

Crash criteria	place red dots here	Demand criteria	place red dots here
Prioritize locations with high crash totals, regardless of injury severity		Proximity to Government Offices	
Prioritize locations with high numbers of serious injuries		Proximity to Commuter Rail Stations	
Prioritize locations with high numbers of ped fatalities		Proximity to Public or Private Schools	
		Proximity to Transit Stops	

Risk criteria	place red dots here
Prioritize locations with high traffic speeds	
Prioritize locations with high traffic volume	
Prioritize locations with wide streets	
Prioritize locations with long distances between traffic signals	
Prioritize locations that lack bicycle facilities	

Other criteria	write in with Post-it notes

**Pedestrian Safety Action Plan**

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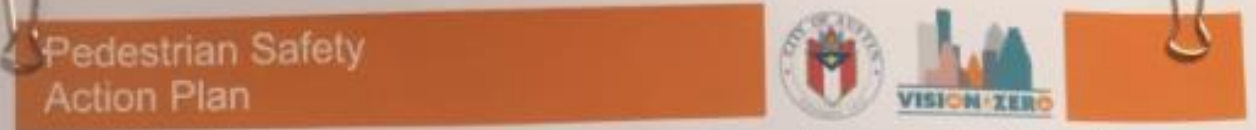
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Risk criteria	place red dots here
Prioritize locations with high traffic speeds	
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Prioritize locations that lack bicycle facilities	

Other criteria	write in with Post-it notes



## How should pedestrian safety treatments be prioritized?

City staff will identify and prioritize potential locations to receive pedestrian safety treatments based on a combination of factors, including high crash locations, high risk locations and high demand locations, along with community input through 3-1-1.

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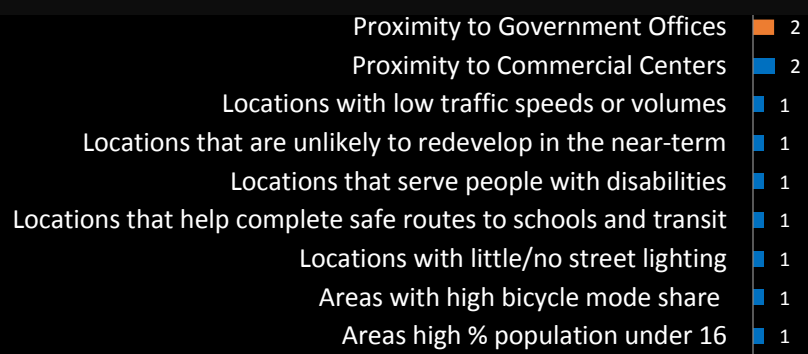
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Prioritize locations with high numbers of ped fatalities		Proximity to Public or Private Schools	
		Proximity to Transit Stops	
		Proximity to Core Transit Corridors	
		Median Household Income of the surrounding area	
		Proximity to Grocery Stores	
		Proximity to Places of Public Accommodation (parks, fire/police stations, hospitals, libraries, museums,, etc.)	
		Residential Population of the surrounding area	
		Proximity to Places that Older	

Risk criteria	place red dots here
Prioritize locations with high traffic speeds	
Prioritize locations with high traffic volume	
Prioritize locations with wide streets	
Prioritize locations with long distances between traffic signals	
Prioritize locations that lack bicycle facilities	





# Pedestrian Safety Action Plan



n = 700



# Pedestrian Safety Action Plan

## Chapter 4 - *Pedestrian Safety Priority Network*



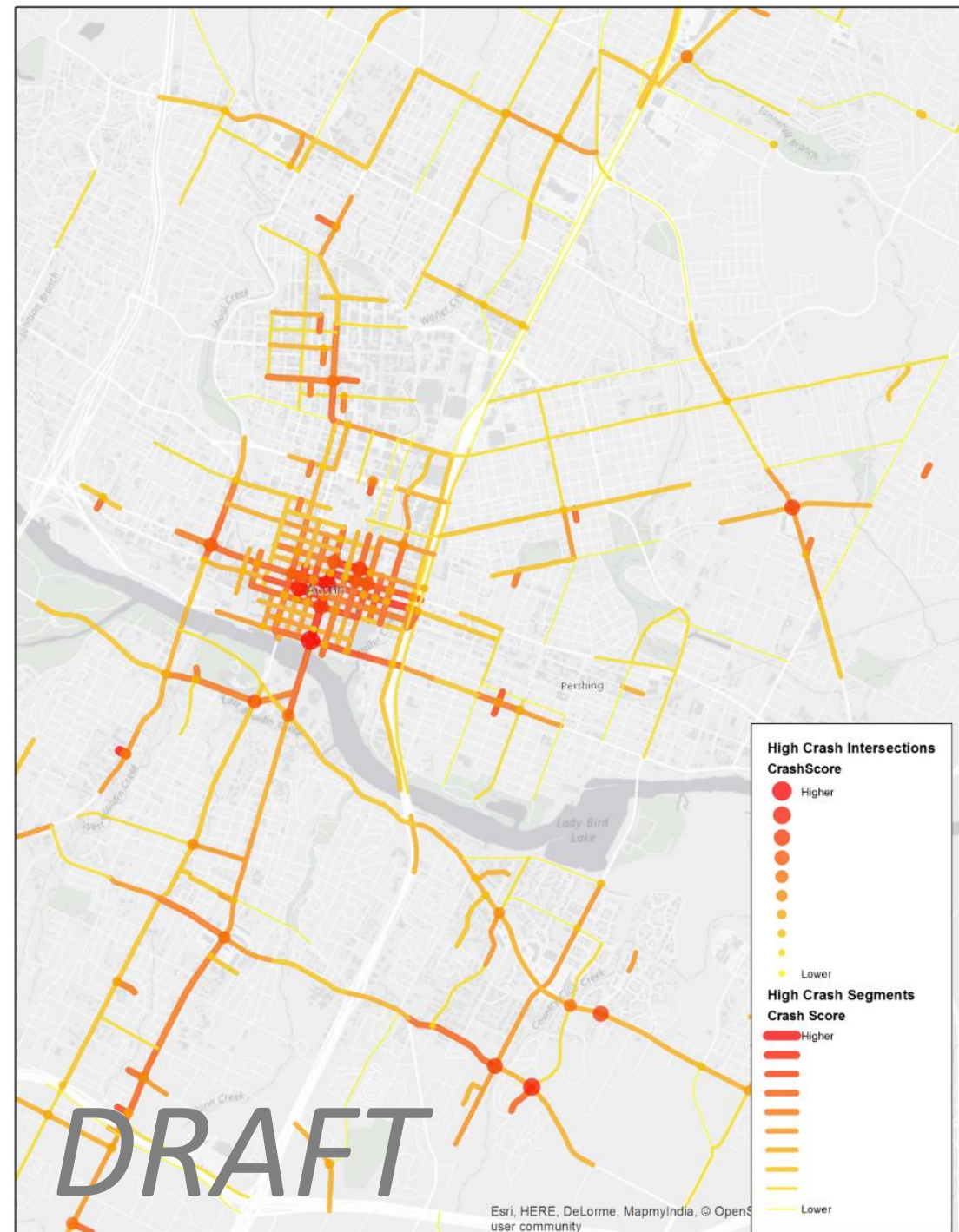


# Pedestrian Safety Action Plan

## Chapter 4 - *Pedestrian Safety Priority Network*

### Crash Score

- Total # of pedestrian crashes (2010-2015)
  - Higher weight given to severe injury and fatal crashes
- Segments = crashes per mile
- Intersections = total crashes within 100 ft.



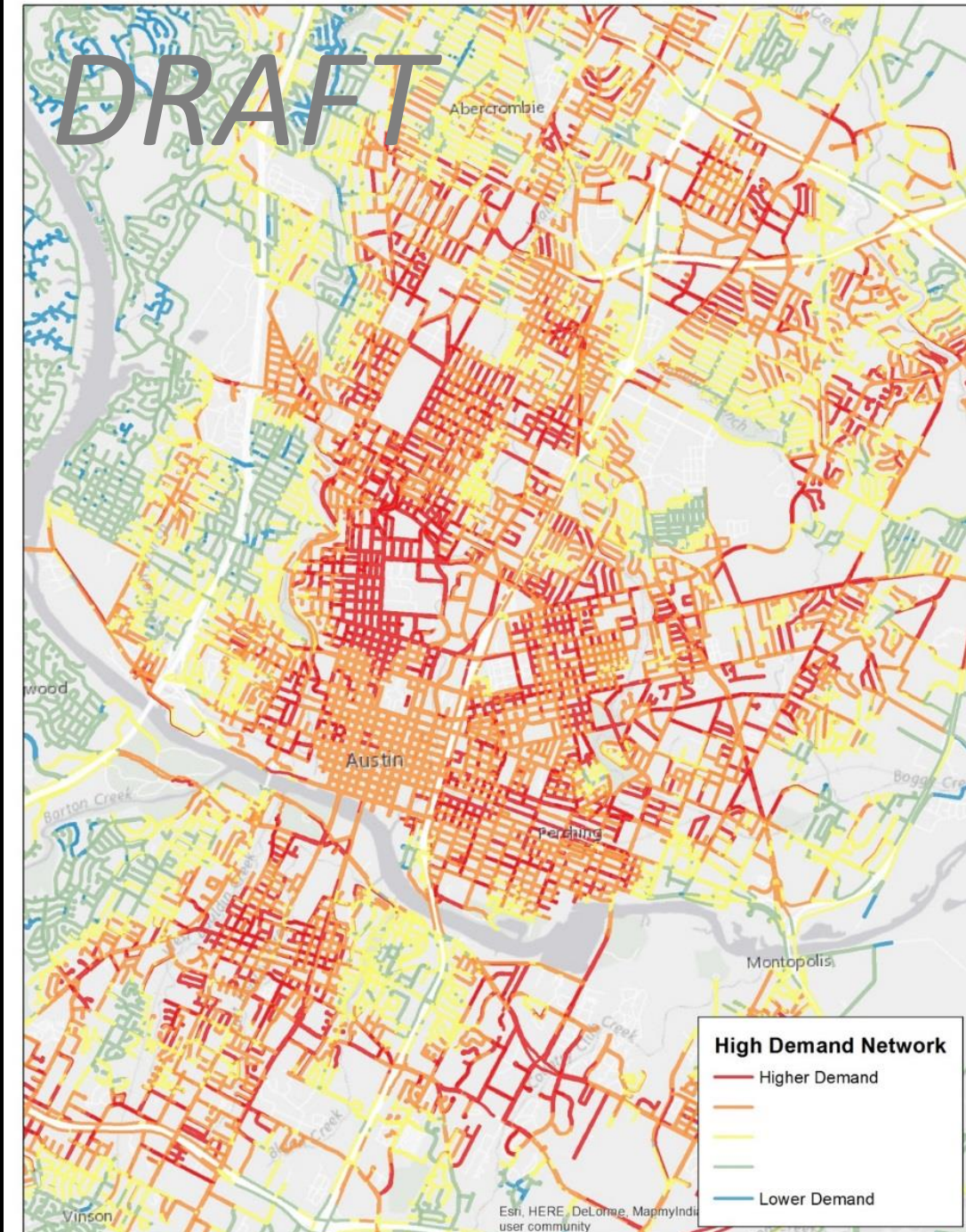


# Pedestrian Safety Action Plan

## Chapter 4 - *Pedestrian Safety Priority Network*

### Demand Score

- Adapted from Sidewalk Master Plan prioritization criteria
  - Based on proximity to:
    - Transit Stops
    - Public or Private Schools
    - Major Employers
    - Grocery Stores
    - Commuter Rail Stations
    - Government Offices
    - Places of Public Accommodation (parks, fire/police stations, hospitals, libraries, museums,, etc.)
    - Core Transit Corridors
    - **Places that Older Adults Frequent** (health care facilities, nursing homes, etc.)
  - **Income Restricted Affordable Housing**
  - Public Parking Facilities
  - Religious Institutions
  - Residential Population (density) of the surrounding area
  - **Median Household Income of the surrounding area**
- Additional criteria added: car ownership of census tract





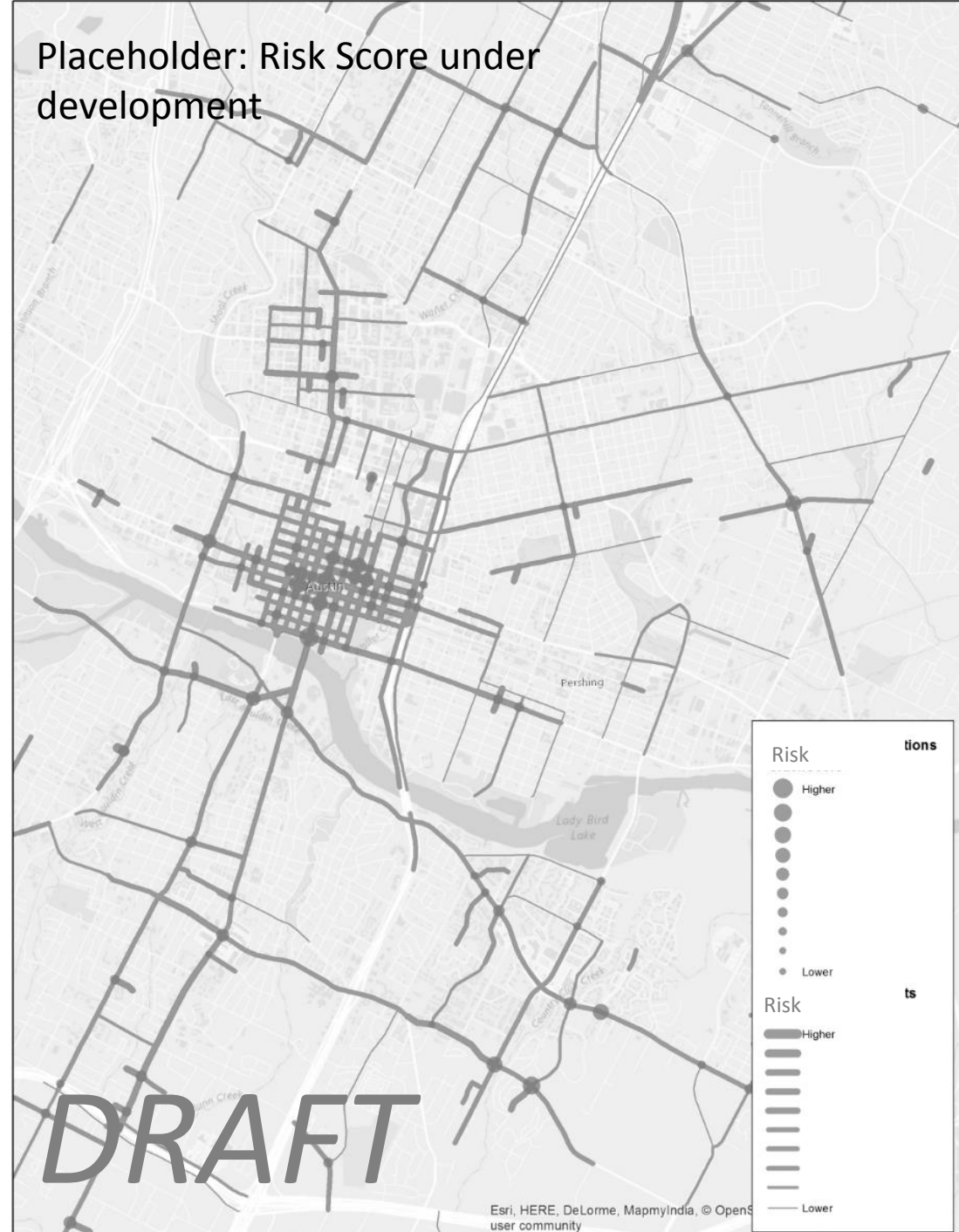
# Pedestrian Safety Action Plan

## Chapter 4 - *Pedestrian Safety Priority Network*

### Risk Characteristics Score

- Speed
- Number of lanes
- Distance to nearest signalized crossing
- Presence of sidewalks

Placeholder: Risk Score under development





# Pedestrian Safety Action Plan

## Chapter 5 – *Action Plan*

### Focus Areas

- Engineering
- Education
- Evaluation
- Enforcement
- Policy + Land Use
- Partners + Funding





# Pedestrian Safety Action Plan

## Chapter 5 – *Action Plan*

### Engineering recommendation highlight

Establish a Pedestrian Crossing Improvement Program to install large numbers of high-impact, cost-effective pedestrian safety treatments throughout Austin.



# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Establish a Pedestrian Crossing  
Improvement Program

### Key Actions

#### IMPLEMENT Safety-Related Policies, Plans, and Programs

20	Direct engineering, enforcement, and education resources to high injury and fatal crash hotspot locations. Implement at least five major safety engineering projects annually at top crash prone locations. <u>Implement low-cost, high-impact safety improvements throughout the city based on safety engineering studies.</u> Work with CAMPO and TXDOT for funding opportunities.
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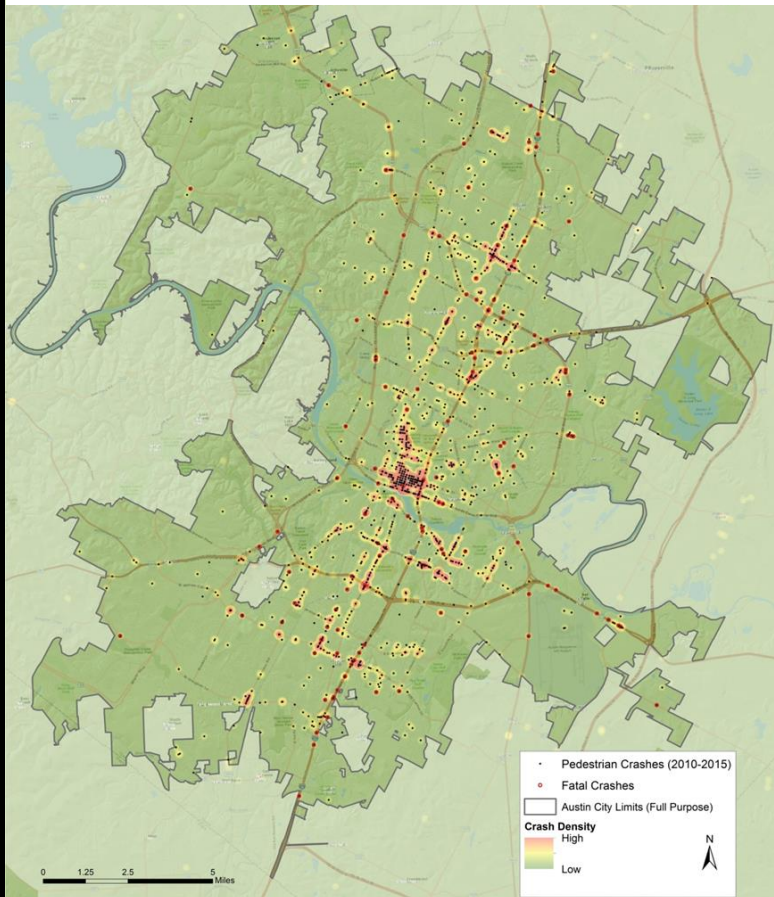
# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

### Establish a Pedestrian Crossing Improvement Program

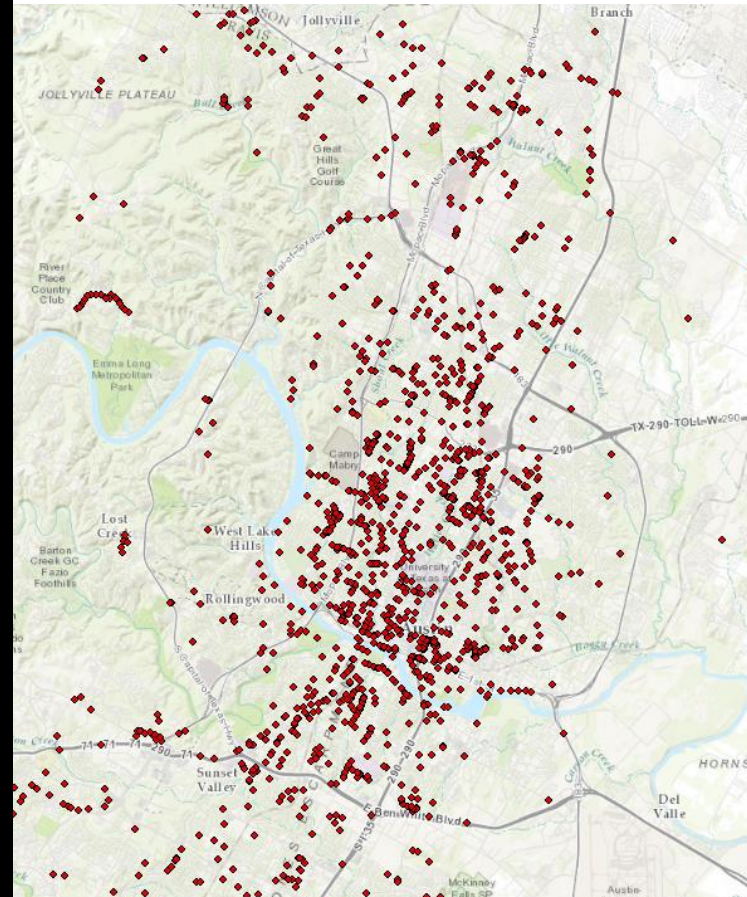
#### Pedestrian Crashes

Austin, 2010-2015



#### Comments on pedestrian safety

Vision Zero Input Map, as of 3/22/2017





# Pedestrian Safety Action Plan

## Chapter 5 – *Action Plan*

Establish a Pedestrian Crossing  
Improvement Program

*Not just this...*





# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Establish and fund a Pedestrian Crossing Improvement Program

*...but also all of this!*





# Pedestrian Safety Action Plan

## Chapter 5 – *Action Plan*



and this ...



# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

### Establish a Pedestrian Crossing Improvement Program

#### Opportunistic Projects



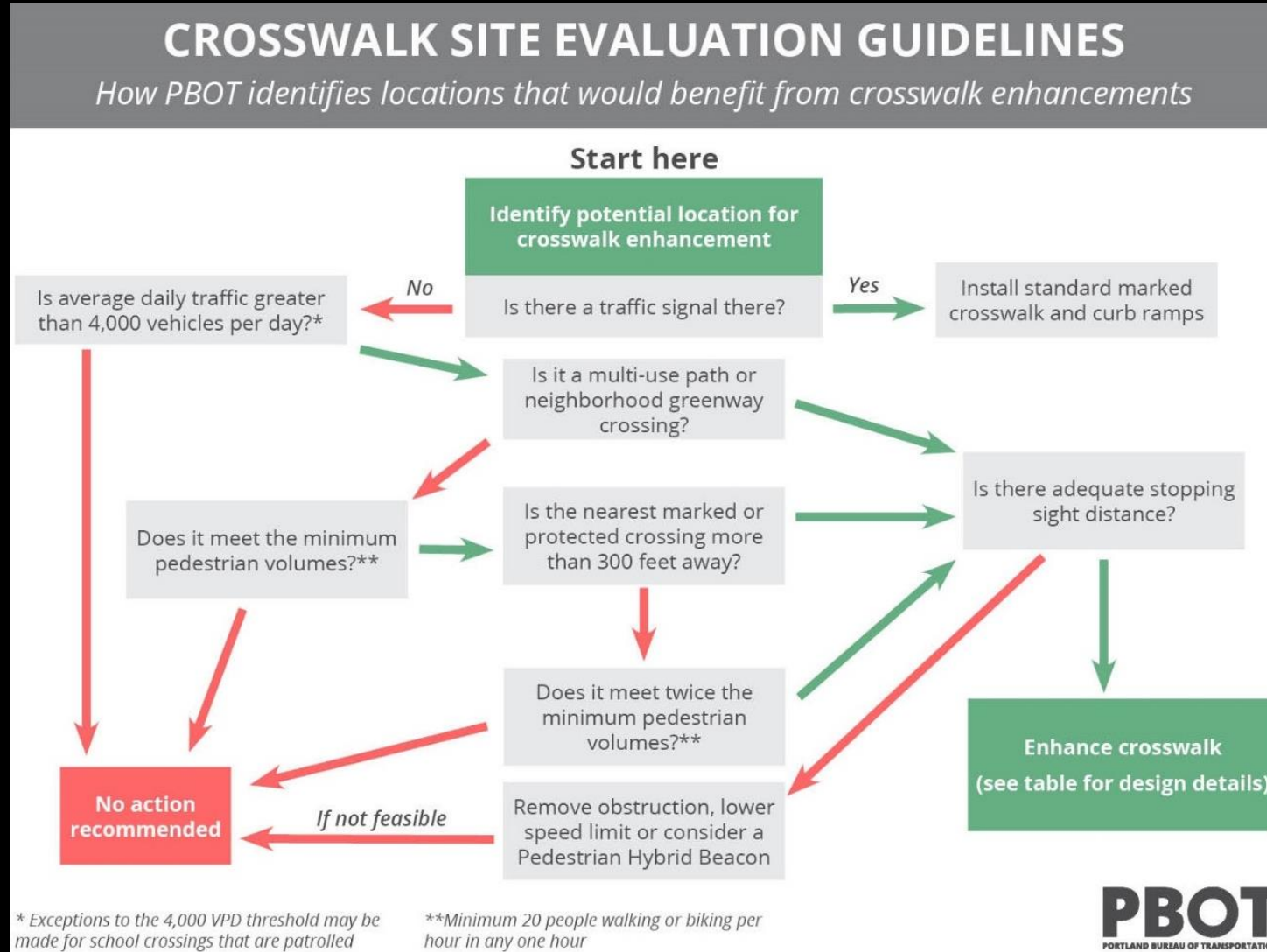
Barton Hills Drive

#### Proactive Projects





## Establish and fund a Pedestrian Crossing Improvement Program





# Pedestrian Safety Action Plan

## Chapter 5 – *Action Plan*

### Education recommendation highlight

Deploy Vision Zero Street Teams to conduct targeted outreach and educational campaigns promoting pedestrian safety



# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Deploy Vision Zero Street Teams to conduct targeted outreach and educational campaigns promoting pedestrian safety





# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Deploy Vision Zero Street Teams to conduct targeted outreach and educational campaigns promoting pedestrian safety



### MAKE SAFE MOVES

Give yourself more time and space to react to dangerous movements on the road.

- Slow down; commit to always drive the speed limit, or slower.
- Take extra care when changing lanes or passing. Use your blinker.
- Put more distance between you and the car ahead. The faster your speed, the greater the following distance needed.

### JOIN THE CONVERSATION

 [Twitter.com/AustinMobility](https://twitter.com/AustinMobility)

 [Facebook.com/AustinMobility](https://facebook.com/AustinMobility)

 [Twitter.com/Austin\\_Police](https://twitter.com/Austin_Police)

 [Facebook.com/AustinPolice](https://facebook.com/AustinPolice)

### WHAT IS VISION ZERO?

VISION ZERO is Austin's program to eliminate traffic deaths and serious injuries by 2025.

Vision Zero In Action is a collaborative effort by the Austin Transportation Department and the Austin Police Department. It implements the Vision Zero Action Plan adopted by Austin City Council in 2016.

### AUSTIN'S APPROACH TO SAFE STREETS IS BUILT ON 5 KEY THEMES

- Education
- Engineering
- Evaluation
- Enforcement
- Policy



HELP AUSTIN REACH  
ZERO TRAFFIC DEATHS

A U S T I N  
★  
T E X A S



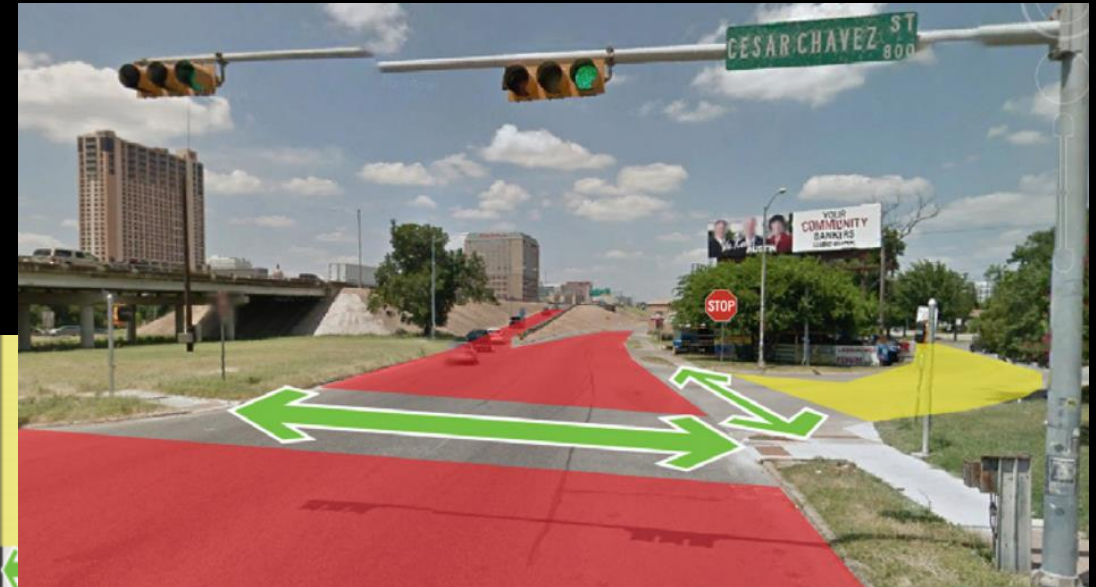
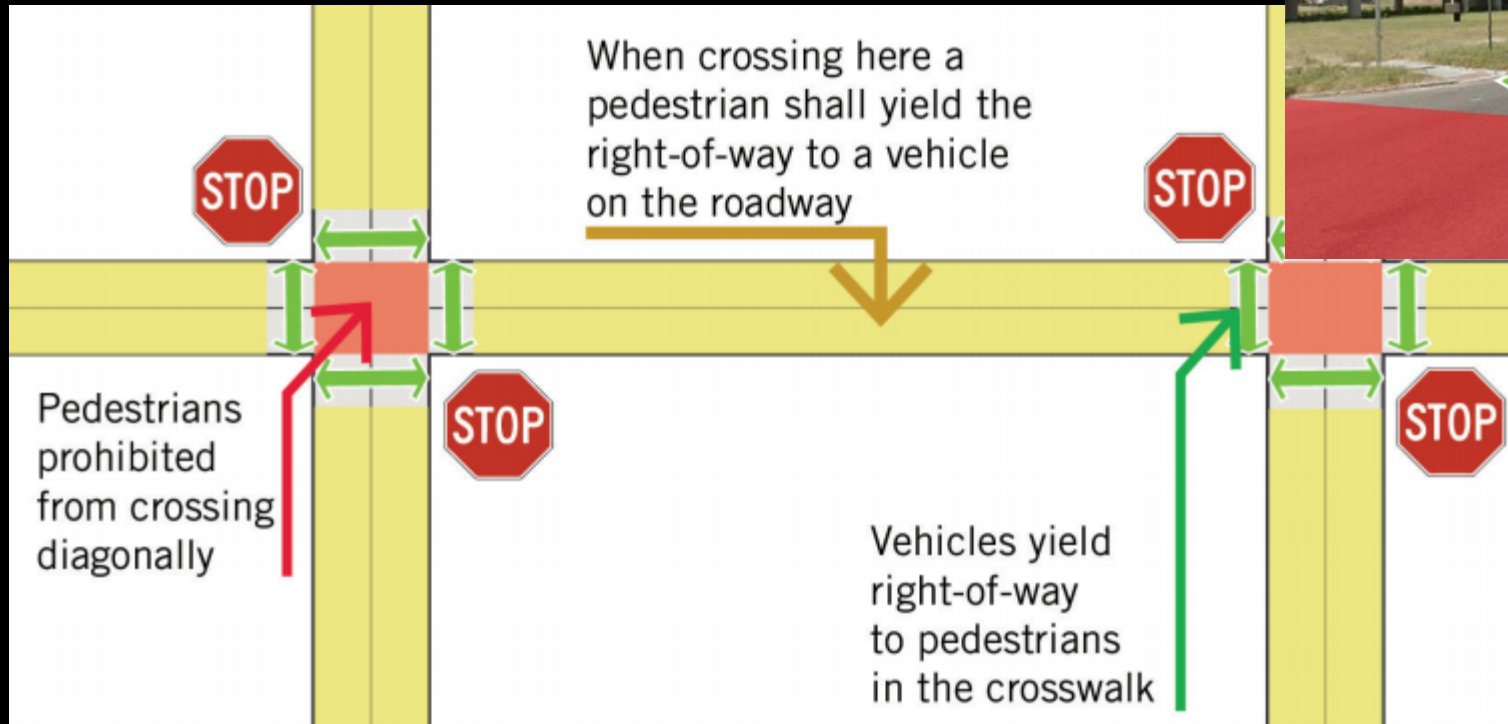
[AustinTexas.gov/VisionZero](https://austintexas.gov/visionzero)



# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Deploy Vision Zero Street Teams to conduct targeted outreach and educational campaigns promoting pedestrian safety



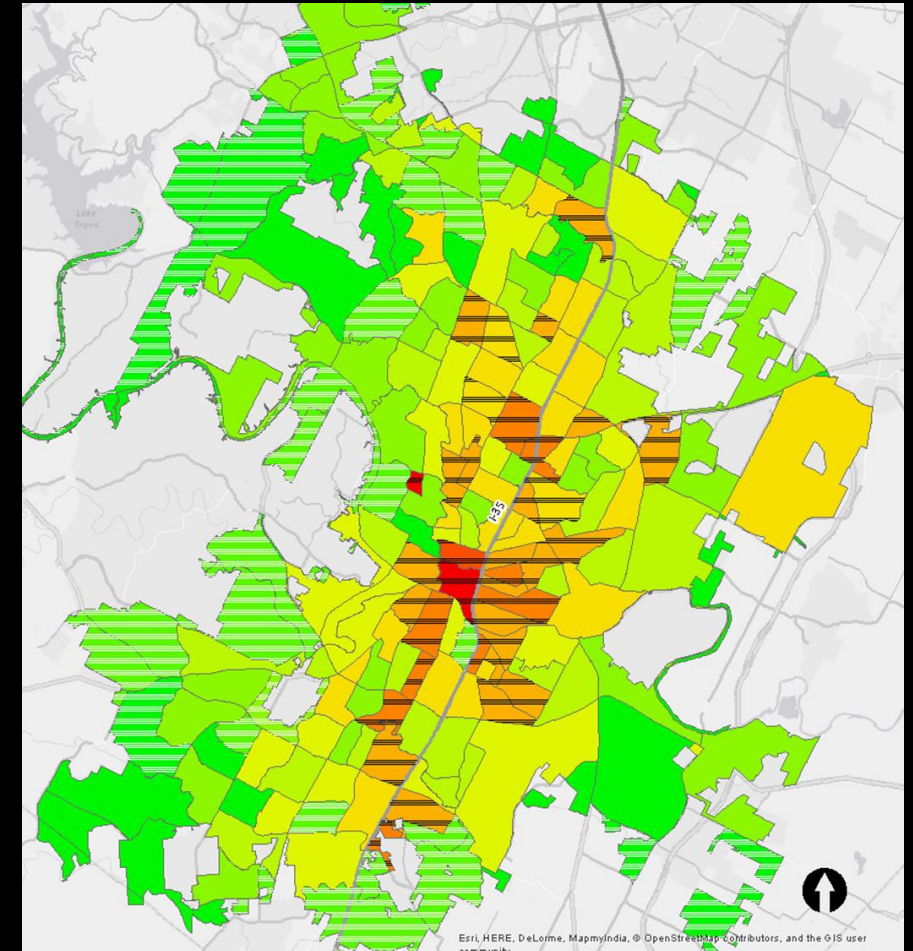
*PAC Pedestrian Crossing Rules and Regulations research*



# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Deploy Vision Zero Street Teams to conduct targeted outreach and educational campaigns promoting pedestrian safety





# Pedestrian Safety Action Plan

## Chapter 5 – *Action Plan*

### Evaluation recommendation highlight

Establish a robust pedestrian counting program to gain a better understanding of walking demand in Austin.



# Pedestrian Safety Action Plan

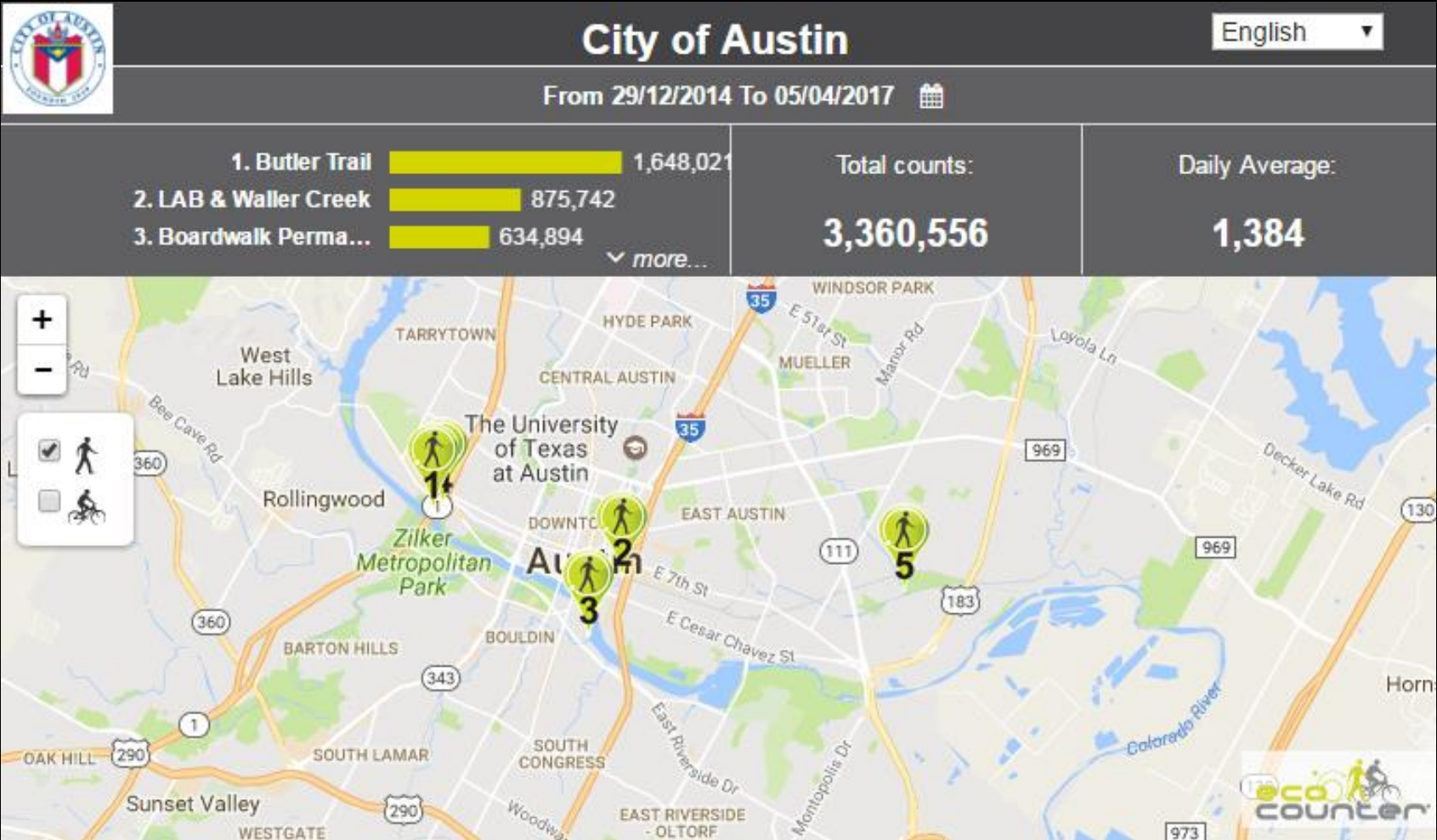
## Chapter 5 – Action Plan

Establish a pedestrian counting program

Current Practice:



+





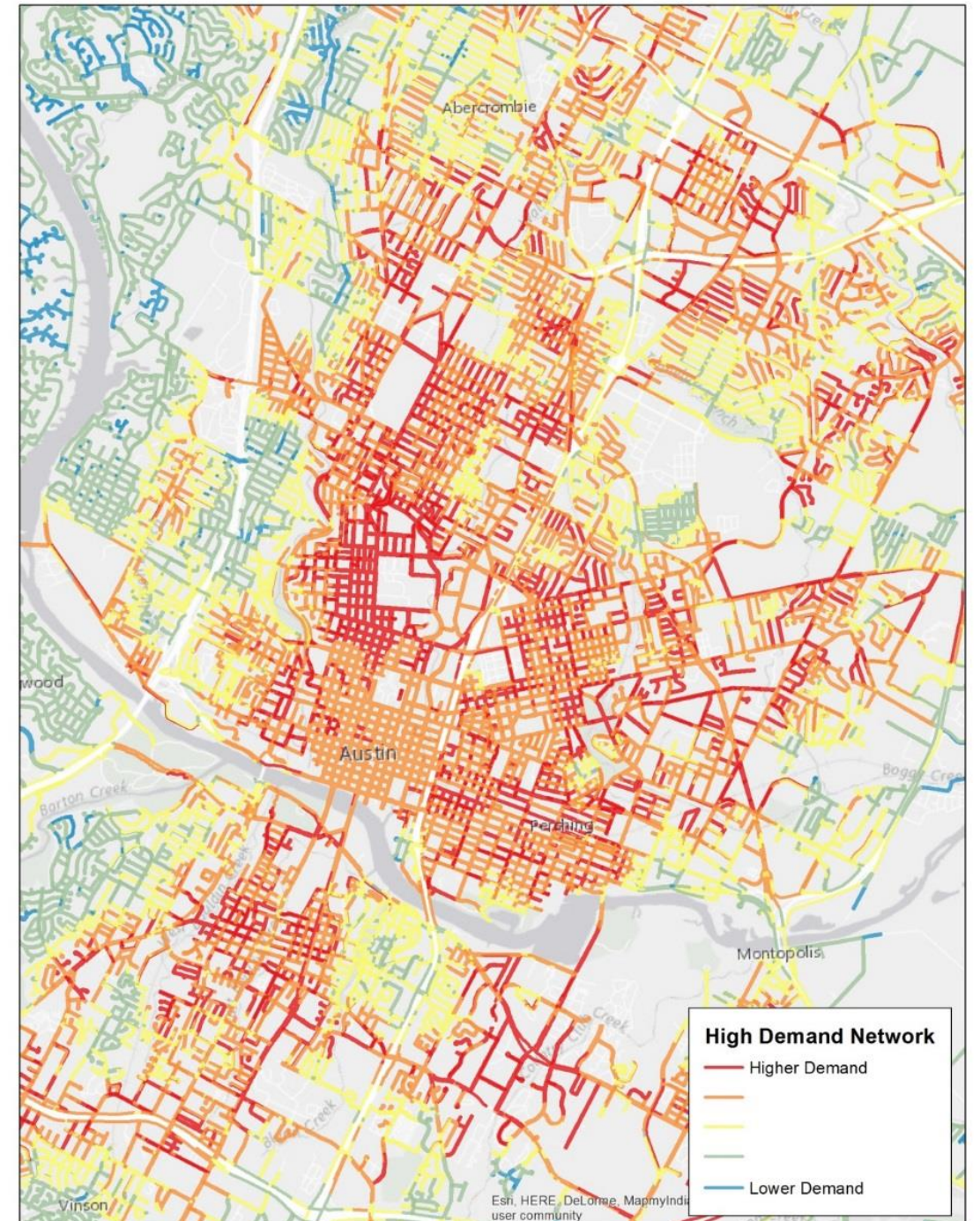
# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Establish a pedestrian counting program

### High Demand Score

- Based on proximity to:
  - Transit Stops
  - Public or Private Schools
  - Major Employers
  - Grocery Stores
  - Commuter Rail Stations
  - Government Offices
  - Places of Public Accommodation (parks, fire/police stations, hospitals, libraries, museums,, etc.)
  - Core Transit Corridors
  - Places that Older Adults Frequent (health care facilities, nursing homes, etc.)
  - Income Restricted Affordable Housing
  - Public Parking Facilities
  - Religious Institutions
  - Residential Population (density) of the surrounding area
  - Median Household Income of the surrounding area





# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Establish a counting program

### Opportunities:

- Need to account for exposure
- Crash prediction
- Enhanced project identification/prioritization

*‘The quality of Seattle’s data enabled ... the nation’s first model that predicts where future pedestrian and bicycle crashes will occur’*

Toole Design Group, Presented at Transportation Research Board in January 2017.



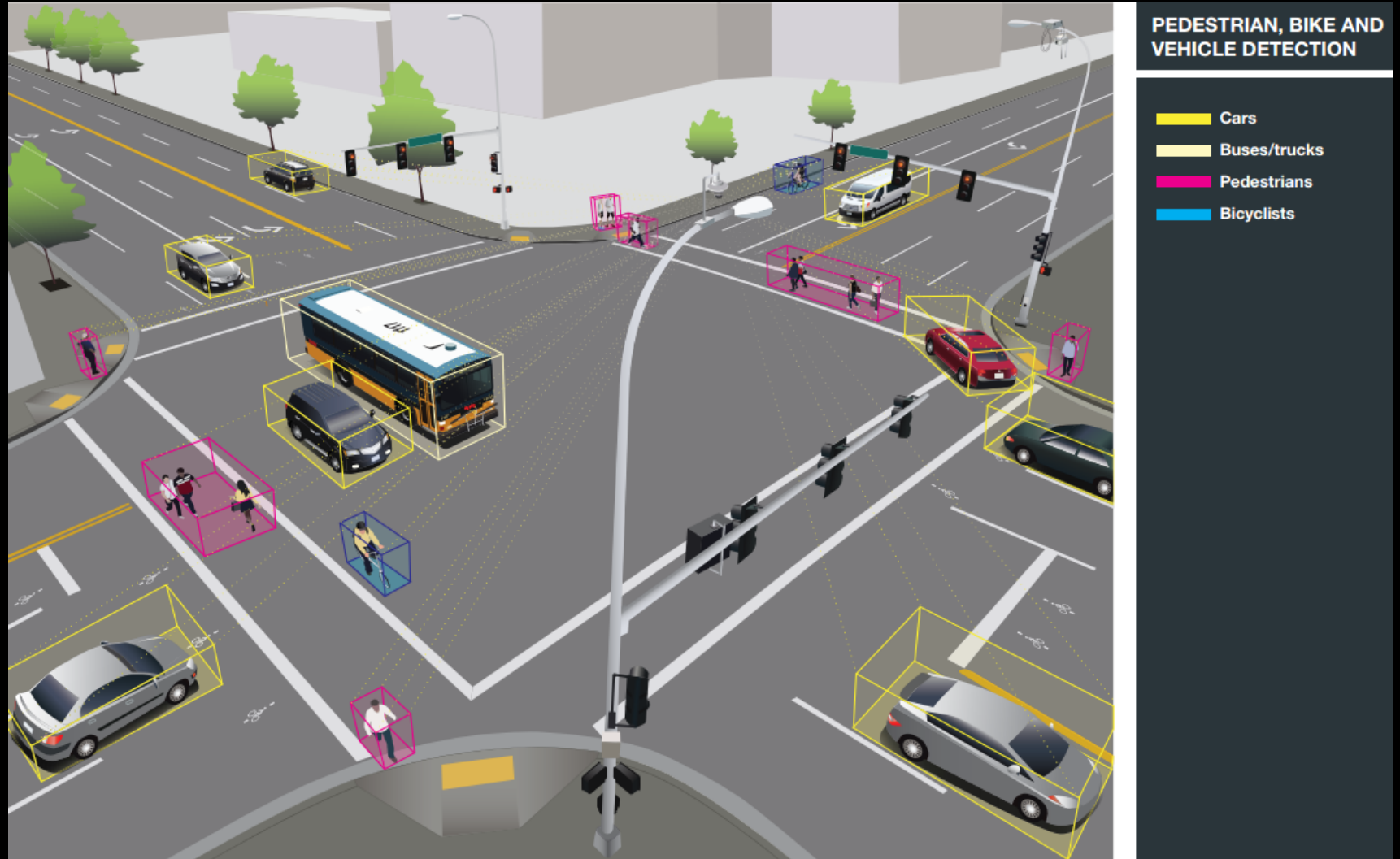


# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Establish a pedestrian counting program

Near-miss analytics:



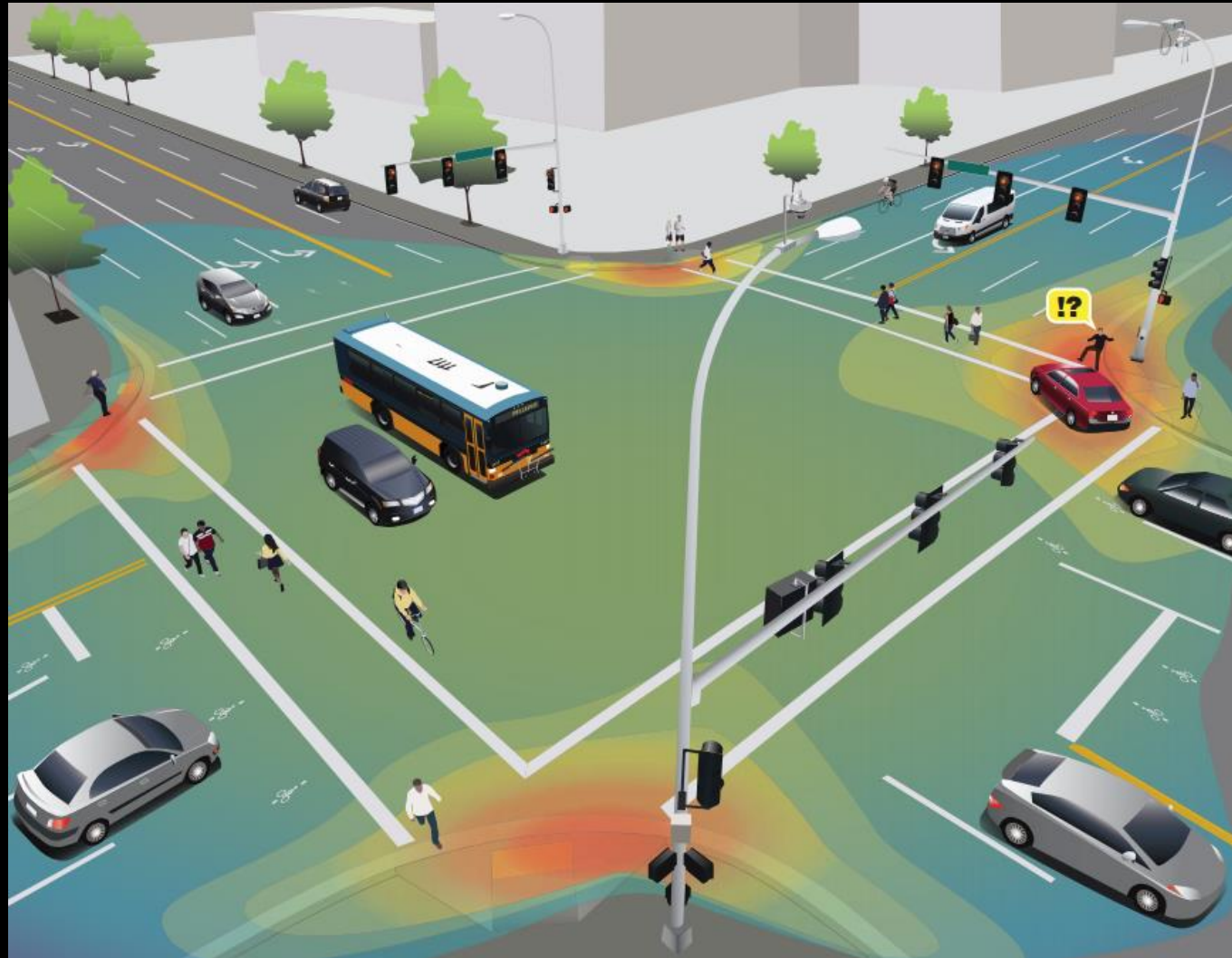


# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Establish a pedestrian counting program

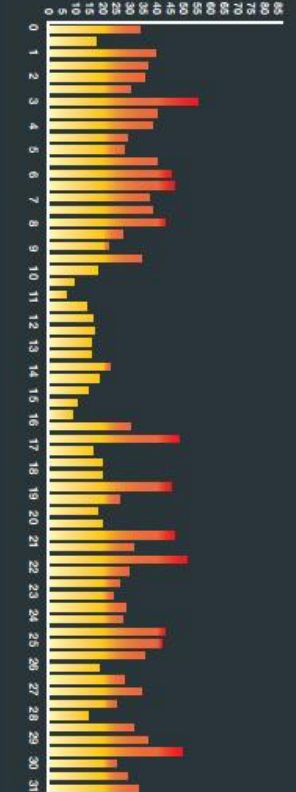
### Near-miss analytics:



#### QUANTITY, LOCATION & SEVERITY OF NEAR MISS EVENTS

MONTH: MAY, 2016

DATE: 5.1.2016 - 5.31.2016





# Pedestrian Safety Action Plan

## Chapter 5 – *Action Plan*

### Land Use + Policy recommendation highlight

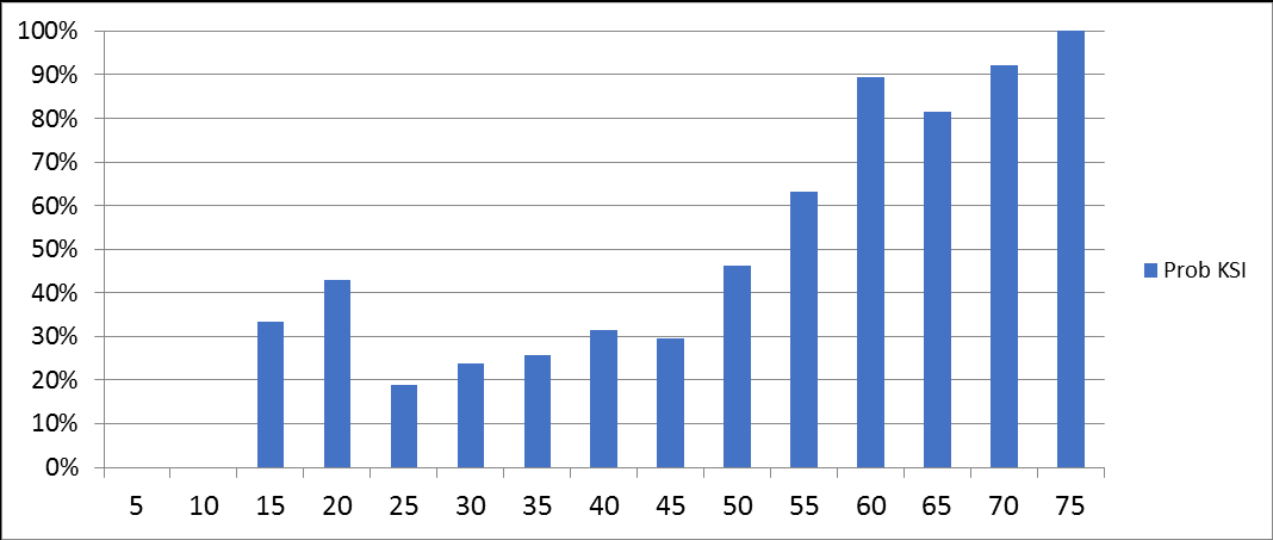
Include pedestrian safety and comfort as principal considerations in all City policies governing street and site design



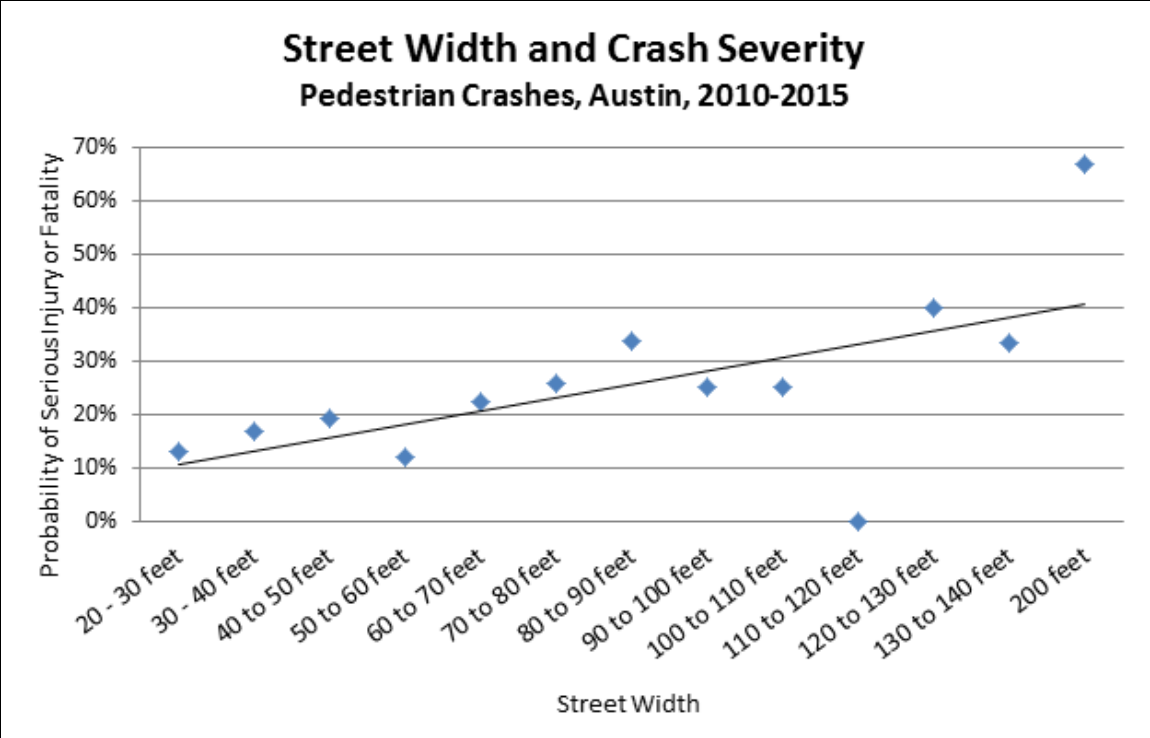
# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Include pedestrian safety and comfort as principal considerations in all City policies governing street and site design



Posted Speed Limit

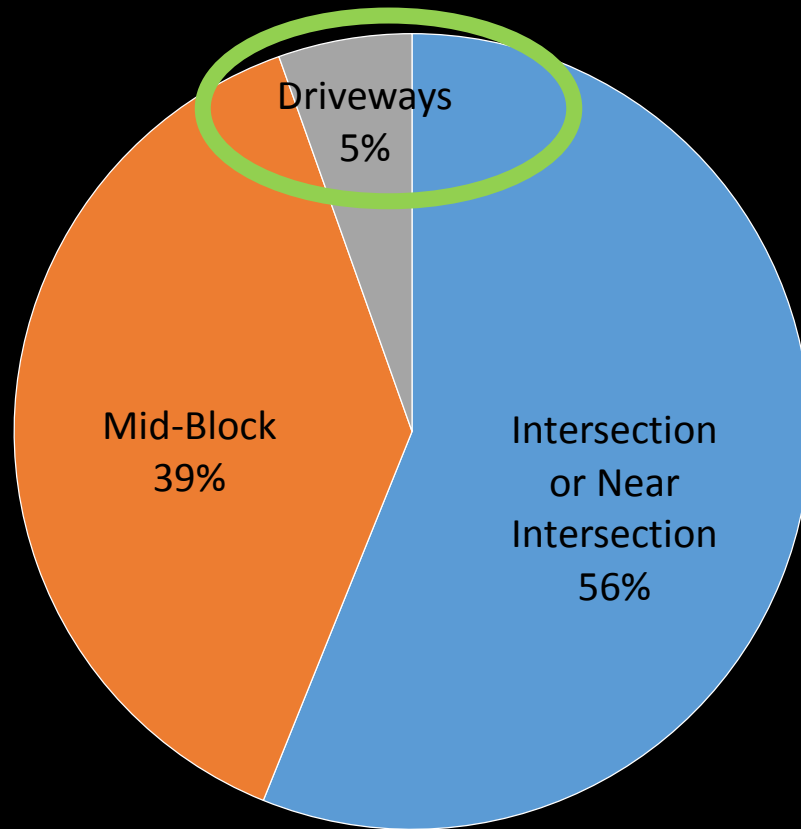




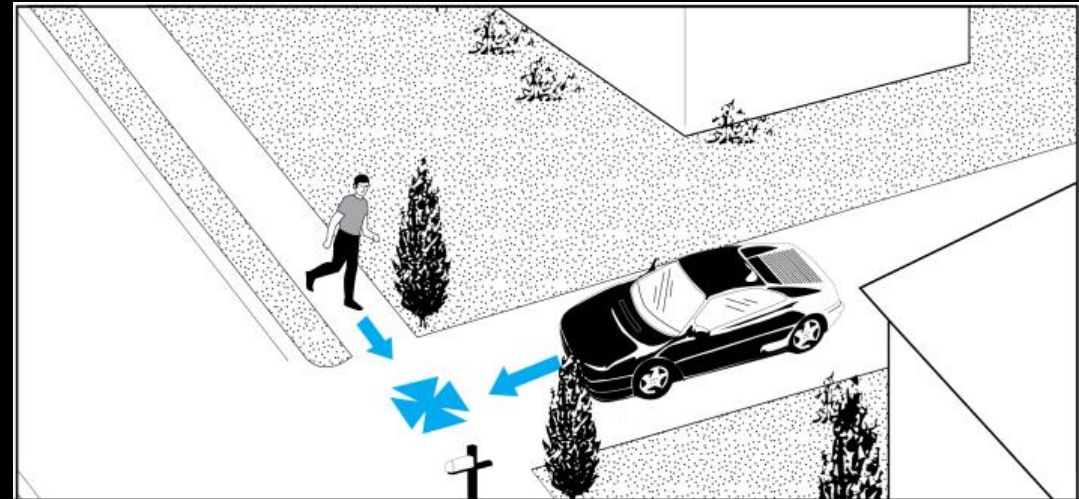
# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Include pedestrian safety and comfort as principal considerations in all City policies governing street and site design



Exiting Driveway/Alley





# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Include pedestrian safety and comfort as principal considerations in all City policies governing street and site design

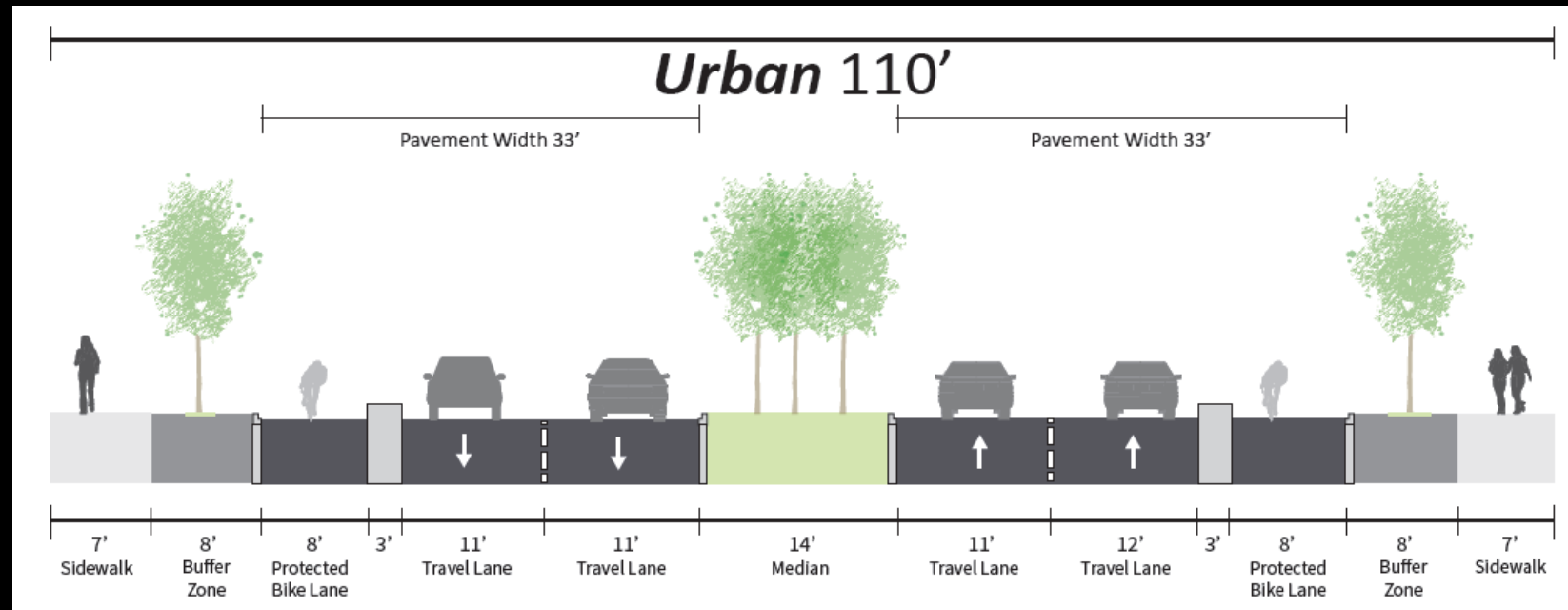
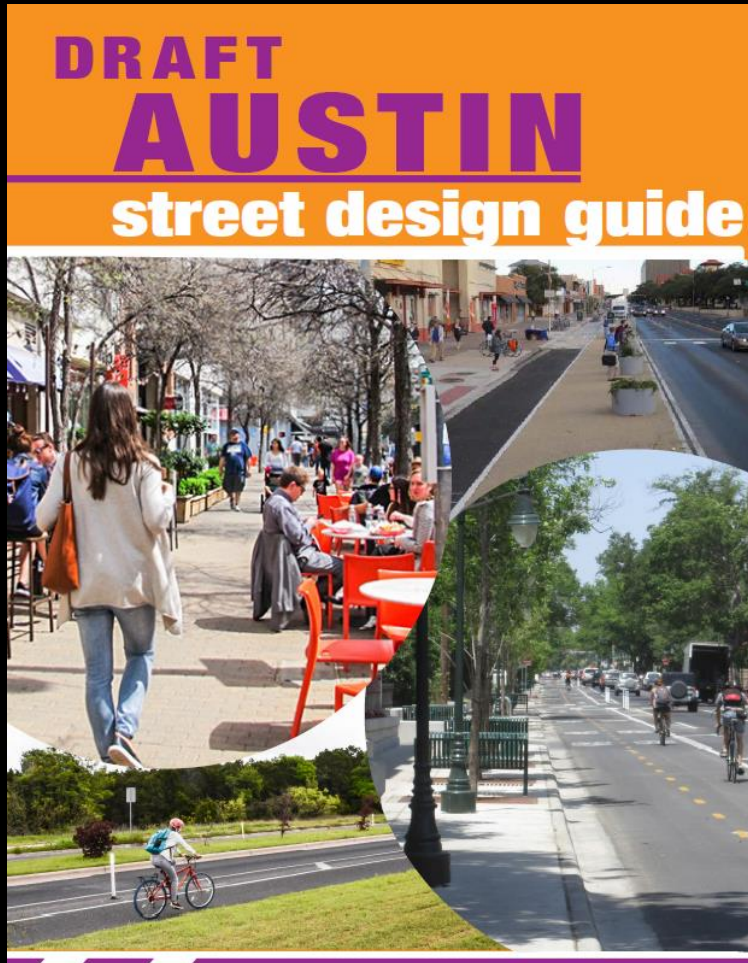




# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Include pedestrian safety and comfort as principal considerations in all City policies governing street and site design





# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Include pedestrian safety and comfort as principal considerations in all City policies governing street and site design

### DRAFT AUSTIN street design guide



#### Pedestrian Supportive Design Strategies

Walking, as the basic form of transportation, must be prioritized to provide a safe environment for all users. Strategies vary for designing pedestrian elements depending on context.

**Sidewalk** treatments in urban areas should provide wide zones that allow for easy cross-access and movement in and out of store fronts. In suburban areas, sidewalks should be adequately sized, provide shading, and be buffered from the roadway.

At **intersections** or **mid-block**, strategies such as striped crosswalks, pedestrian refuge islands, curb extensions/ bulb-outs or raised crossings can be used to increase pedestrian visibility and safety.

##### Sidewalks -Urban



##### Sidewalks -Suburban



##### Intersections - Striped Crosswalks



##### Pedestrian Refuge Island



##### Curb Extensions/Bulb-outs



For additional information and more detailed guidance for Pedestrian design, please visit the following websites:

- City of Austin Pedestrian Program <http://austintexas.gov/page/pedestrian>
- CNUITE Manual Designing Walkable Urban Thoroughfares <https://www.cnu.org/four-projects/cnu-ite-manual>
- ITE Context Sensitive Solutions <http://www.ite.org/css/>

#### Multimodal Design Table

Context	Level	Typical ADT Range (vpd) <sup>1</sup>	Number of Lanes <sup>1</sup>	Target Speed (mph) <sup>1</sup>	Bus Frequency	Bike Facility* Type <sup>2</sup>	Pedestrian Facilities Safe Crossing Density*** Sidewalks	Transit Facility* Type <sup>3</sup>	Parking Facility*** Type <sup>3</sup>
All (Except Alternatives)	1	< 2,000	2	20	Very Low	Quiet Street	Every Block	None	Parallel
Urban	2	2,000 - 5,000	2	25	Low	Conventional, Buffered, or Raised Bicycle Lane	1/8 Mile	Boarding islands/bulbs	Parallel
		5,000 - 10,000	2	25	Medium	Buffered or Raised Bicycle Lane		Peak-only dedicated lanes	Parallel
	3	10,000 - 20,000	3	35	High	Raised Bicycle Lane		Dedicated to Peak-only lanes	Parallel
		15,000 - 40,000	4 (Divided)	35	Very High	Raised Bicycle Lane		Dedicated Transit Lanes	
Suburban	4	35,000 - 45,000	4 (Divided)	40	High	Raised Bicycle Lane	1/4 Mile	Dedicated or Peak-only lanes	Access Lanes
		40,000 +	6 (Divided)	40	Very High	Raised Bicycle Lane		Dedicated Transit Lanes	
	2	2,000 - 5,000	2	25	Very Low	Conventional, Buffered, or Raised Bicycle Lane		None	Parallel
		5,000 - 10,000	2	30	Low	Buffered or Raised Bicycle Lane		Boarding islands/bulbs	Parallel
Industrial	3	10,000 - 20,000	3	35	Medium	Raised Bicycle Lane	1/4 Mile	Peak-Only dedicated lanes	Curb Extensions
		20,000 - 40,000	4 (Divided)	40	High	Raised Bicycle Lane		Dedicated or Peak-Only lanes	None
	4	35,000 - 45,000	4 (Divided)	40	Medium	Raised Bicycle Lane OR Shared Use Path	1/2 Mile	Peak-Only dedicated lanes	None
		40,000 +	6 (Divided)	45	High	Raised Bicycle Lane OR Shared Use Path		Dedicated or Peak-only lanes	None
Alternative	2	< 20,000	3	25	N/A	Buffered Bicycle Lane	1/2 Mile	None	Parallel
	3	10,000 - 30,000	5	30	N/A	Raised Bicycle Lane		None	None
Alternative	1	< 3,000	2	25	N/A	Wide Outside Lane	1/2 Mile	None	Shared Space
	2	3,000 - 10,000	2	35-40	N/A	8' Shoulder OR Share Use Path		None	None
	3	8,000 - 20,000	3	45-55	N/A	8' Shoulder OR Shared Use Path		None	None
	4	20,000 +	5	50-65	N/A	(8+)' Wide Shoulder OR Shared Use Path		None	None



# Pedestrian Safety Action Plan

## Chapter 5 – *Action Plan*

### Enforcement recommendation highlight

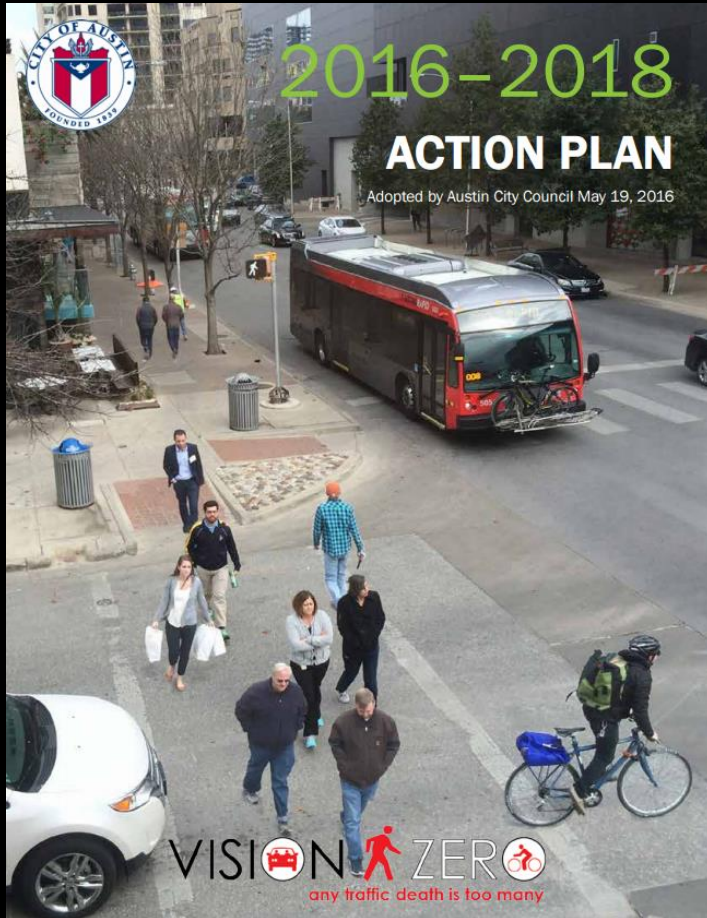
Work with Austin Police Department to organize enforcement campaigns targeting the top contributing factors and crash types for pedestrian crashes



# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Work with Austin Police Department to organize enforcement campaigns ...



## 2

## Enforcement

### Key Actions

TARGET enforcement where it is needed most

12

Target enforcement on high injury and fatal roadways and on the most dangerous driving behaviors.

13

Enforce improper driver behavior around traffic calming devices, crossing devices, and bicycle facilities.



# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Work with Austin Police Department to organize enforcement campaigns ...

### Top Contributing Factors

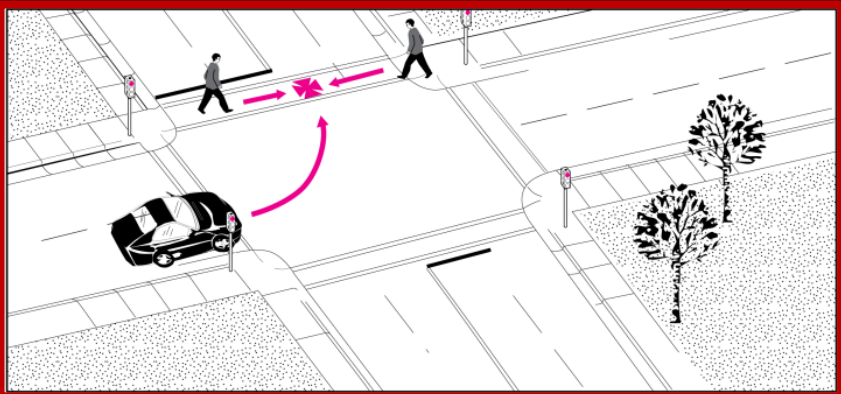
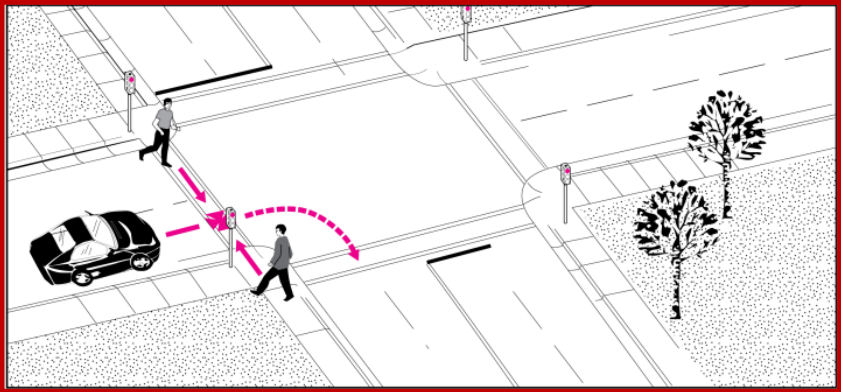
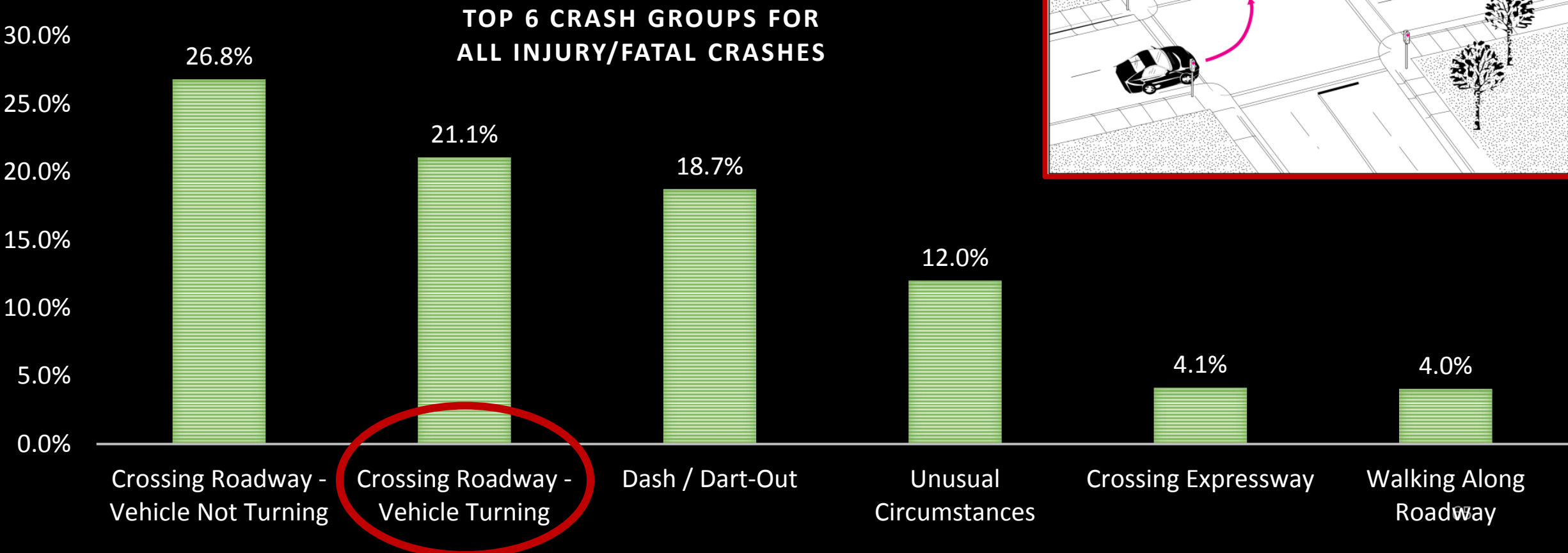
Factor	n	% of total
Failure to Yield	965	51%
Distraction	315	17%
Impairment	162	9%
Improper Maneuver	132	7%
Speed	60	3%
Failure to Stop	46	2%
Other	209	11%
Total Mentions	1889	



# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Work with Austin Police Department to organize enforcement campaigns ...

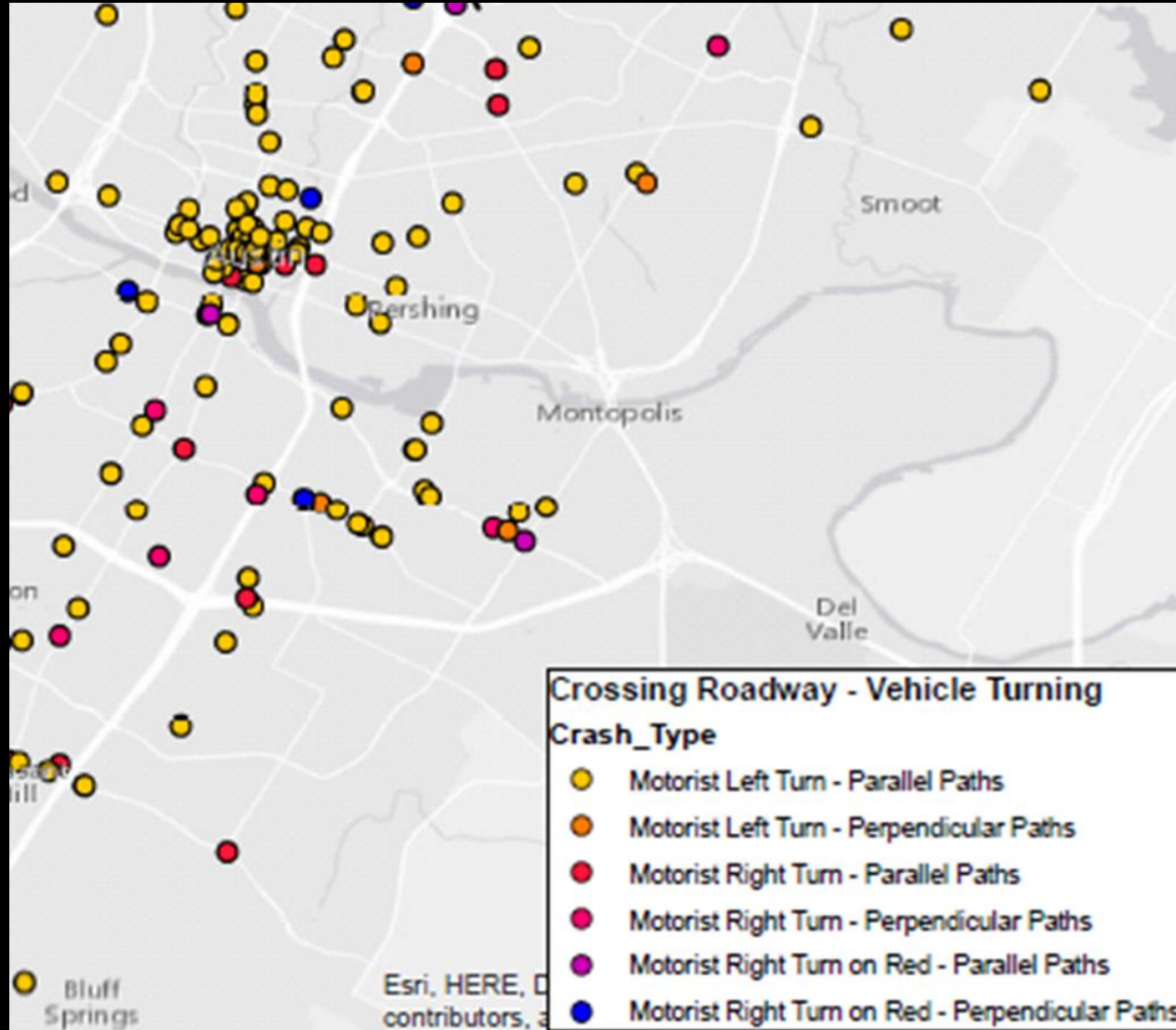




# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Work with Austin Police Department to organize enforcement campaigns ...

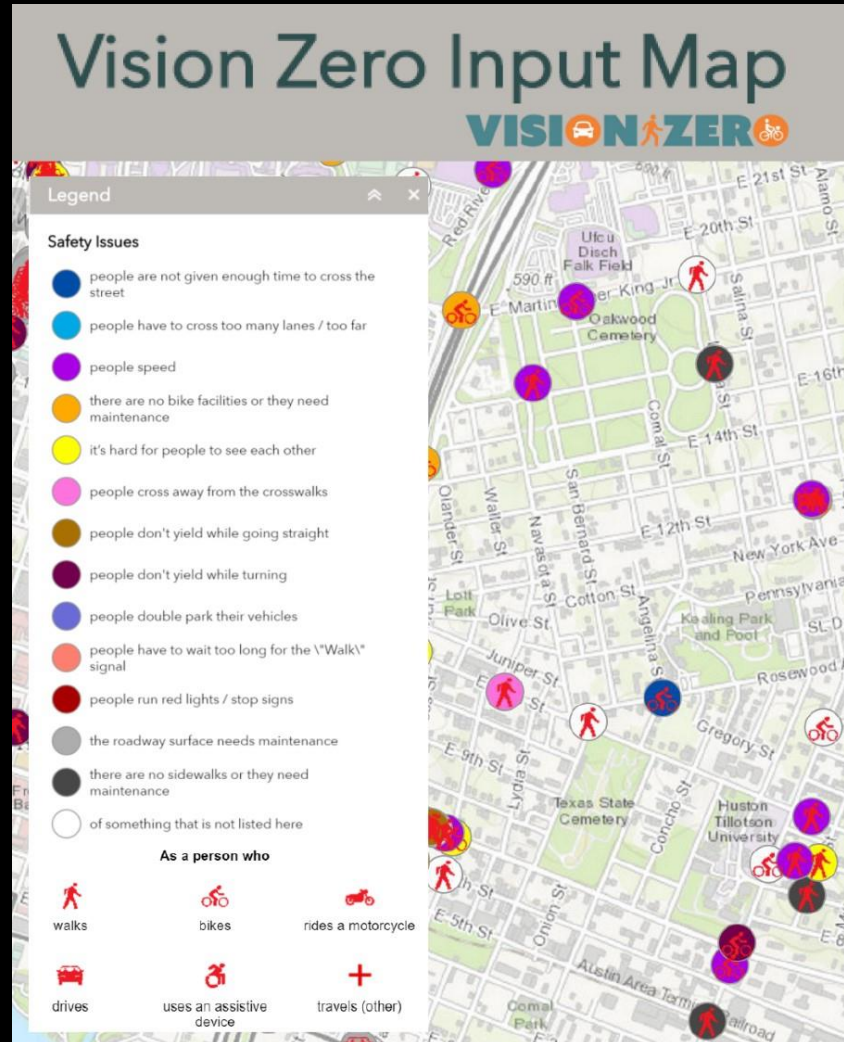




# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Work with Austin Police Department to organize enforcement campaigns ...





# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Work with Austin Police Department to organize enforcement campaigns ...



Crash Score



Demand Score



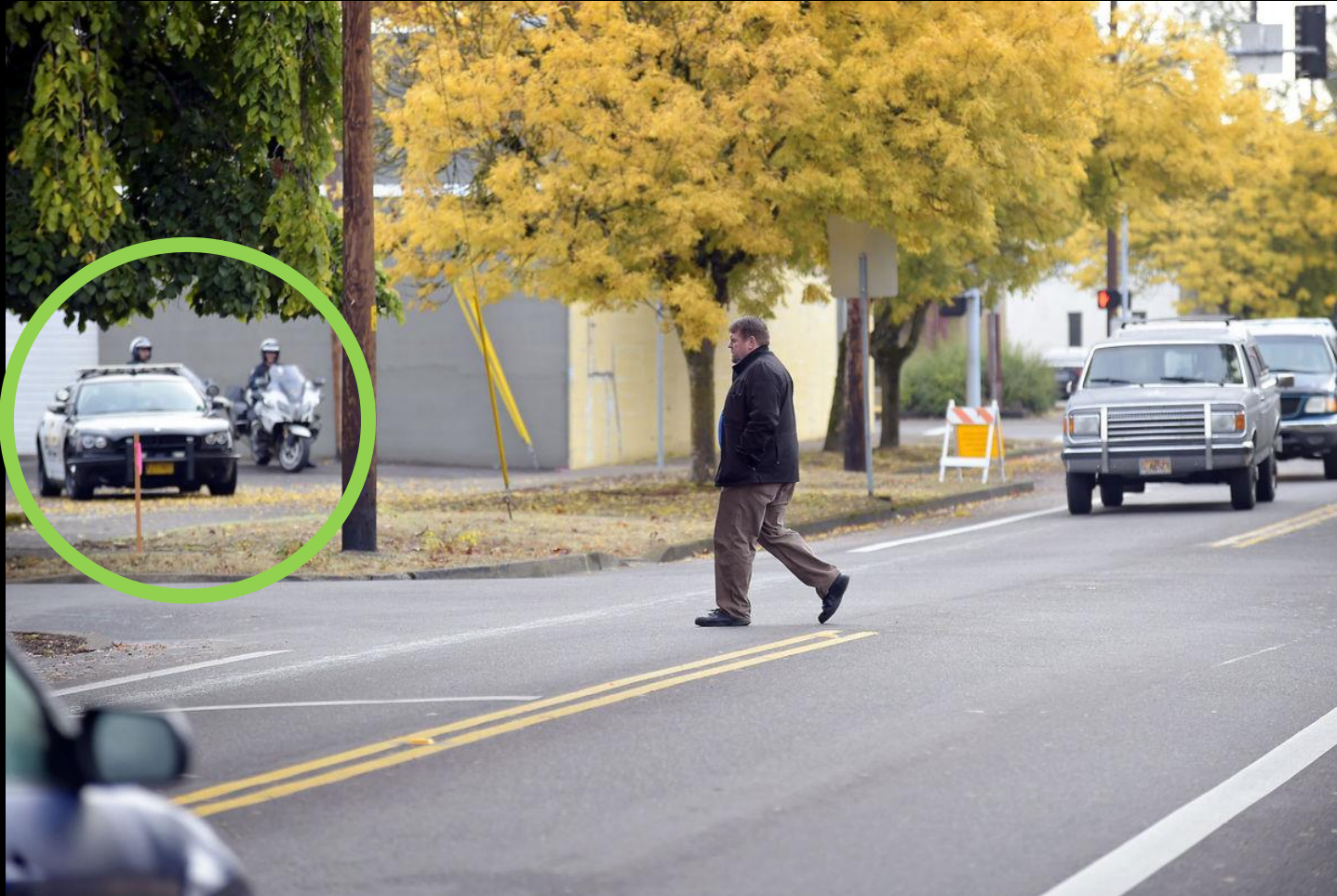
Risk Characteristics Score



# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Work with Austin Police Department to organize enforcement campaigns ...



[St Paul Stop for Me Campaign](#)





# Pedestrian Safety Action Plan

## Chapter 5 – *Action Plan*

Work with Austin Police Department to organize enforcement campaigns ...





# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Work with Austin Police Department to  
organize enforcement campaigns ...





# Pedestrian Safety Action Plan

## Chapter 5 – Action Plan

Work with Austin Police Department to organize enforcement campaigns ...





# Pedestrian Safety Action Plan

## timeline

<i>June 29<sup>th</sup></i>	PAC briefing
Mid-July	Draft PSAP available for public review
July 26 <sup>th</sup>	PAC Project Subcommittee workshop on PSAP
August 7 <sup>th</sup>	Full PAC recommendation
<i>August</i>	boards + commissions + other stakeholder consultation revisions to draft plan
<i>~September:</i>	Council considers plan



# Austin Pedestrian Safety Action Plan

June 29<sup>th</sup>, 2017

*Questions/Comments?*

**Joel Meyer** | Pedestrian Coordinator  
Austin Transportation Department  
[joel.meyer@austintexas.gov](mailto:joel.meyer@austintexas.gov)  
(512) 974-1405

