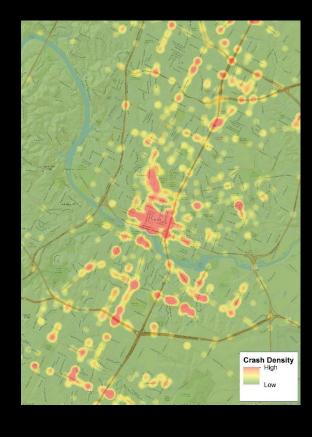
Austin Pedestrian Safety Action Plan

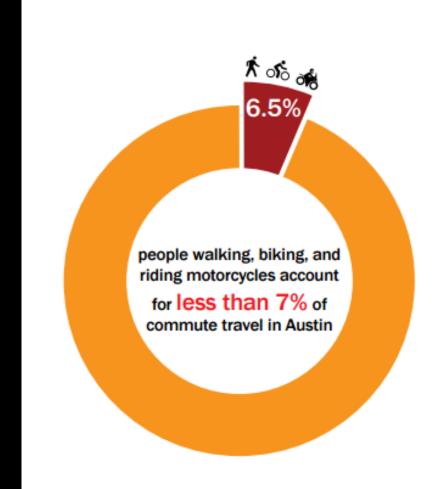
Pedestrian Advisory Council – Project Subcommittee November 30th, 2016

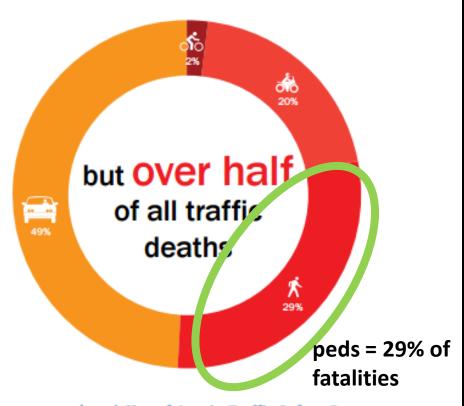






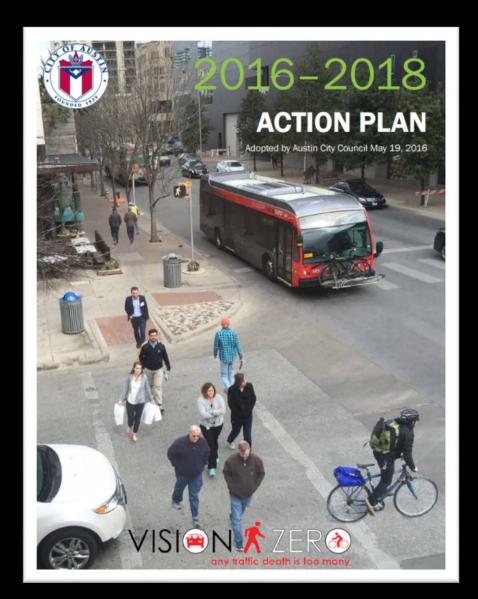
11/30/2016





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

A component of the Vision Zero Action Plan



Policy Act	Policy Actions							
48	Develop action plans for vulnerable user groups and coordinate these more specific plans with the Vision Zero Action Plan.							
Engineering Actions								
17	Enhance the current City Ordinance (§12-1-26, Pedestrians On Certain Roadways) for areas unsafe to pedestrians							
20	Direct engineering, enforcement, and education resources to high injury and fatal crash hotspot locations.							
Evaluation	n Actions							
5	Coordinate a data-driven procedure (and enhance tools as necessary) to prioritize high crash locations based on industry best practices and to focus limited resources.							
6	Incorporate TXDOT datasets to analyze, map, and/or improve for better understanding of factors contributing to fatal and serious injury crashes.							
7	Create a platform and/or process to better share data, including geospatial data and maps, across City departments and agencies that are affected by transportation safety. Create a platform to share anonymized information and maps with the public.							
9	Continue analysis of victims and suspects involved in fatal crashes, including demographics, to target education, enforcement efforts, and policy changes.							

Austin Pedestrian Safety Action Plan

plan objectives

- Support the Vision Zero Action Plan by developing a holistic strategy for addressing pedestrian safety through engineering, education, enforcement and encouragement strategies;
- 2 Utilize crash data to gain a detailed understanding of the frequency, location and causes of pedestrian-related crashes, with a **focus on serious injuries and fatalities**;
- Identify and prioritize intersections and corridors with unsafe pedestrian conditions for further study and implement appropriate countermeasures at these locations;

- Identify and prioritize areas with latent pedestrian demand that could benefit from safer crossings (i.e. Safe Routes to Schools, proximity to transit, Imagine Austin Activity Centers, etc.);
- Develop a framework for evaluating the effectiveness of pedestrian safety countermeasures in Austin and for reporting these results;
- **Develop an ADA Transition Plan** for crossings and signals as part of the PSAP.

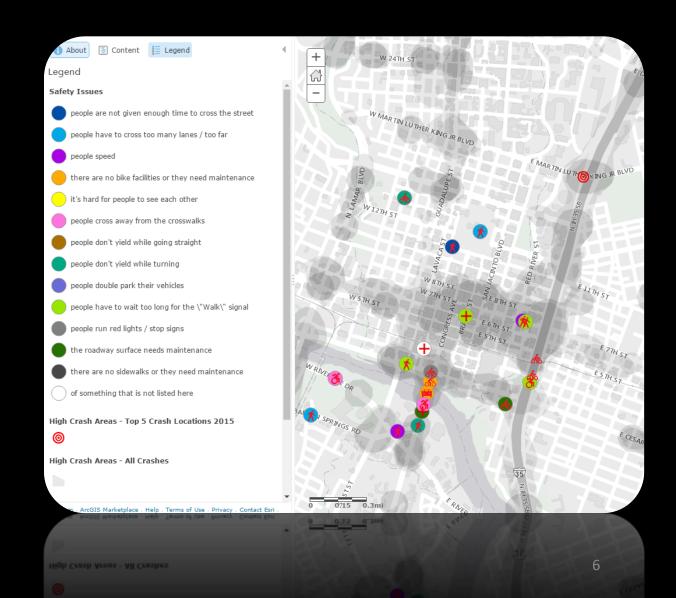
contents

- 1. Letter from Director of Transportation
- 2. Table of Contents
- 3. Executive Summary
- 4. Introduction/Narrative
- 5. Crash Analysis
- 6. Priority Pedestrian Safety Networks
 - High Crash Network
 - High Risk Network
 - High Demand Network

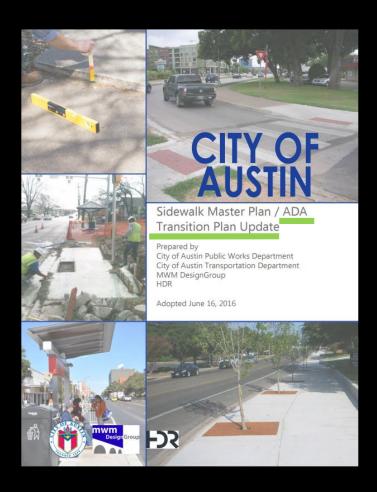
- 7. Action Plan/Implementation Strategies
 - Engineering
 - Enforcement
 - Education/Encouragement
 - Land Use/Site Design
 - Other policies
 - Partners
 - Funding
- 8. Appendix A: ADA Transition Plan for Crossings and Signals

public outreach

- Internal Advisory Group: ATD Departments
- Vision Zero Task Force
 - PAC representation
- One-on-one coordination with regional partners
 - e.g. TxDOT, Cap Metro, CAMPO
- Pedestrian Safety Workshop
 - Spring 2017
- Vision Zero Mapping Tool



ADA Transition Plan for Crossings and Signals

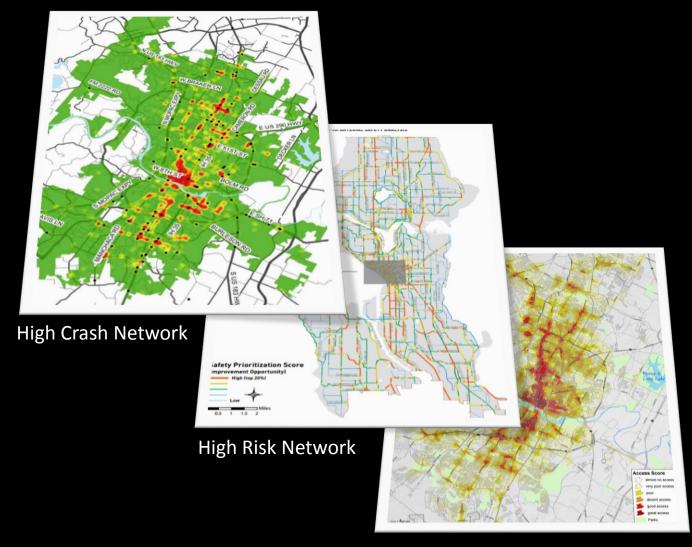


"Any project for construction or alteration of a facility that provides access to pedestrians must be made accessible to persons with disabilities."

42 U.S.C. §§ 12131 - 12134; 28 CFR §§ 35.150, 35.151; Kinney v. Yerusalim, 9 F.3d 1067 (3d Cir. 1993), cert. denied, 511 U.S. 1033 (1994). (9-12-06)"

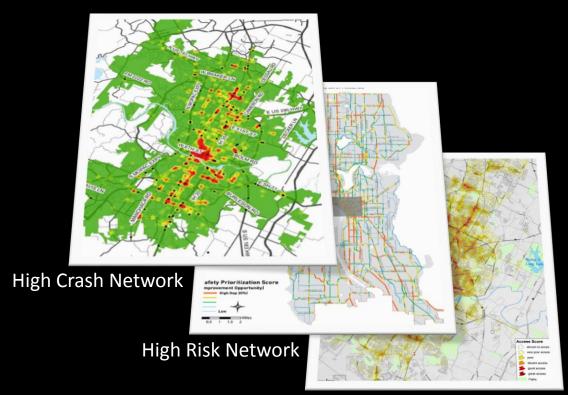
Table 5-7: Existing Sidewalk and ADA Transition Plan Program 10-year Target							
Target	Implementation Schedule	Estimated Annual Budget					
Achieve 95% functionality for very high and high priority sidewalks and Achieve 55% functionality for citywide sidewalk network	10 years	\$15 million per year ¹					

prioritization



High Demand Network

prioritization



High Demand Network

Example Goal:

Proactively identify and implement pedestrian safety treatments at X number of locations per year:

x# of low-cost/medium-cost treatments at High Crash locations

x# of low-cost/medium-cost treatments at High Risk locations

x# of low-cost/medium-cost treatments at High Demand locations

Action Plan/Implementation Strategies

Focus Areas

Engineering

Enforcement

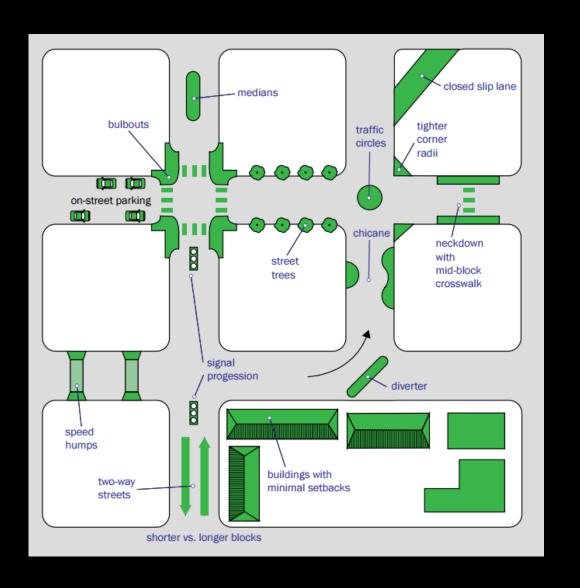
Education/Encouragement

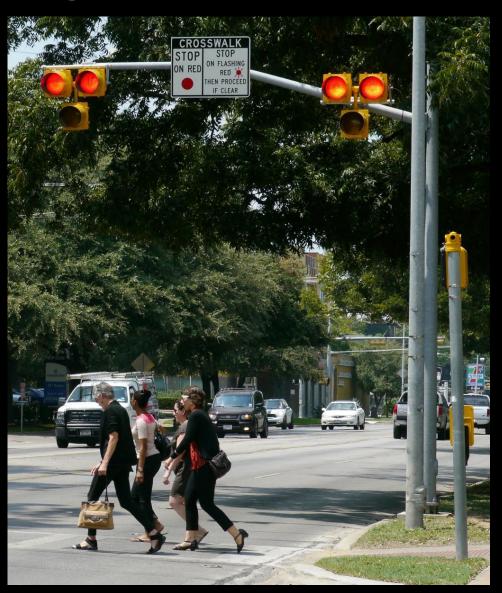
Land Use +Site Design

Partners + Funding

Evaluation

Other policies











	VEHICLE ADT > 4,000 - 9,000		VEHICLE ADT > 9,000 -12,000		VEHICLE ADT > 12,000 - 15,000		VEHICLE ADT > 15,000					
	<30 MPH	35 MPH	40+ MPH	<30 MPH	35 MPH	40+ MPH	<30 MPH	35 MPH	40+ MPH	<30 MPH	35 MPH	40+ MPH
TWO LANES		0						•		0		
THREE LANES WITH RAISED MEDIAN		0		0				•		0		
HREE LANES WITHOUT RAISED MEDIAN	•	•				•			•			
MULTILANE WITH RAISED MEDIAN	•	•	0	•								
MULTILANE WITHOUT RAISED MEDIAN				•		•			•			

^{*}All crossings must be scoped by an engineer to ensure recommended treatment is appropriate and ADA ramps and illumination are in place.

- Marked Crosswalk
- Marked Crosswalk, island or curb extensions, enhanced signing and striping
- Marked Crosswalk and enhanced/active warning (islands and RRFB's).
- Marked Crosswalk and pedestrian hybrid or full signal



crash analysis

Objective 1: Characterize Victim Characteristics

• Who is involved in pedestrian crashes/injuries/fatalities?

Objective 2: Map **High Crash Network** (Hot Spots) of pedestrian serious injuries and fatalities

 Answers the question, where are serious pedestrian crashes occurring?

Objective 3: Identify and quantify **High Risk Factors** associated with pedestrian crashes, serious injuries and fatalities

- Answers the *what, when, why, and how of pedestrian* crashes.
- e.g. roadway characteristics, contributing factors,
 previous movement, etc.

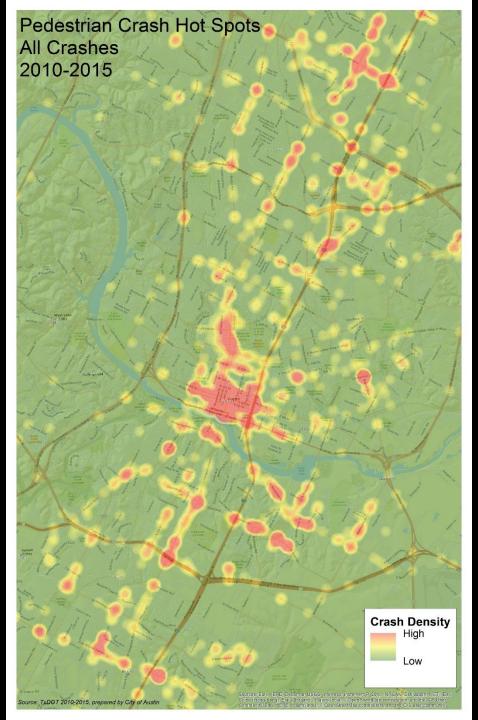
Objective 4: Map **High Risk Network** based on top roadway risk factors

 Answers the question, what streets are prone to serious pedestrian crashes (but may not appear in the crash history)?

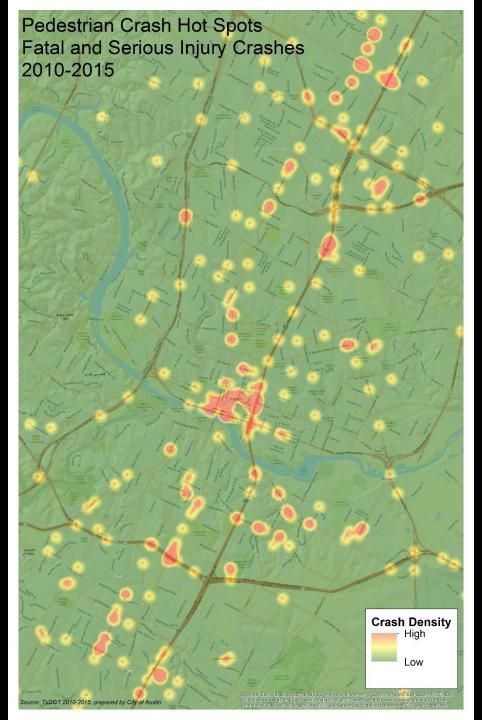
Objective 5: Map **High Demand** locations

- Map areas where a safer pedestrian realm might serve latent pedestrian demand
- Answers the question, how can we help achieve citywide objectives through a safer pedestrian environment?

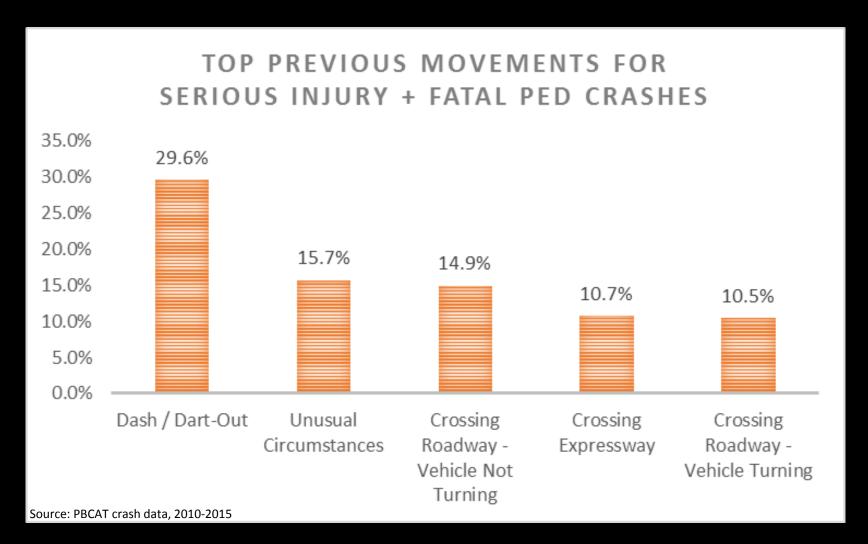
Preliminary Crash Analysis



Preliminary Crash Analysis

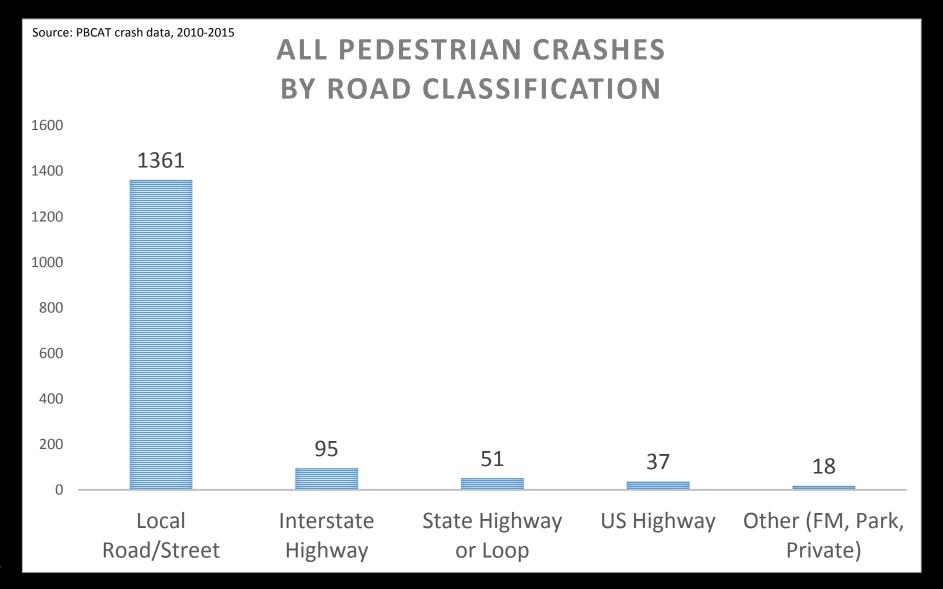


Preliminary Crash Analysis

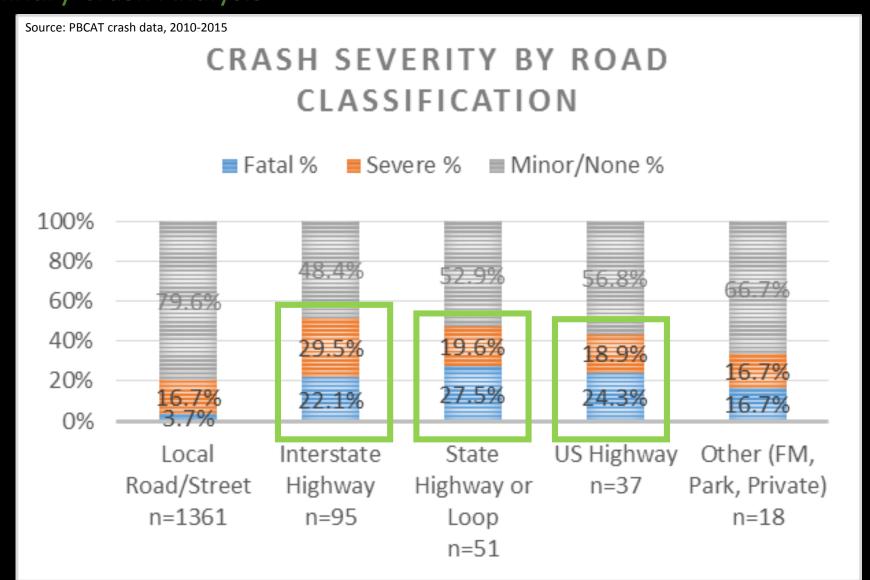


11/30/2016

Preliminary Crash Analysis



Preliminary Crash Analysis



Preliminary Crash Analysis

Presence of Sidewalks



All KAB Crashes (n =1,116) by Sidewalk Presence and Severity

	#KAB	#Fatal	#KA	Prob K	Prob
		(K)			KA
Sidewalk	867	30	231	3.5%	26.6%
Present					
Sidewalk	144	41	84	28.5%	58.3%
Absent					
Not	105	17	67	16.2%	63.8%
Applicable					
Total	1116	88	382	7.9%	34.2%
10141	T	00	302	71370	3 11270

Source: PBCAT crash data, 2010-2015

K = killed

A = incapacitating injury

B = non-incapacitating injury

Preliminary Crash Analysis

Presence of Lighting



All Crashes, by lighting conditions and severity Source: PBCAT crash data, 2010-2015										
Condition	All	K	SI	K+SI	%Total	%K	%K+SI	Prob K	Prob	
									KSI	
Daylight	846	16	110	126	54.2%	16.3%	33.8%	1.9%	14.9%	
Dark, Lighted	483	50	118	168	20 g%	51 0%	15 0%	10.4%	34.8%	
Dark, Not	132	29	27	56	8.5%	29.6%	15.0%	22.0%	42.4%	
Lighted										
Dawn/Dusk	48	2	10	12	3.1%	2.0%	3.2%	4.2%	25.0%	
Unknown	53	1	10	11	3.4%	1.0%	2.9%	1.9%	20.8%	
Grand Total	1,562	98	275	373	100%	100%	100%	6.3%	23.9%	

K = killed

SI = seriously injured

Preliminary Crash Analysis

Time of Day

Percent of Crashes, by time of day									
Time of Day	% of Ped	Crashes	% of I	KSI Crashes	% of Fatal Crashes				
12AM-3AM		10.7%		16.7%		19.4%			
3AM-6AM		2.7%		4.4%		10.7%			
6AM-9AM		10.7%		8.9%		12.6%			
9AM-12PM		8.7%		5.7%		2.9%			
12PM-3PM		11.3%		5.5%		1.9%			
3PM-6PM		19. 9%		13.8%		4.9%			
6PM-9PM		23.4%		22.9%		23.3%			
9PM-12AM		12.7%		22.1%		24.3%			

Crash Severity Probability, by time of day

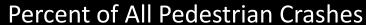
Time of Day	% of Ped	Crashes	Probab	ility KSI	Probabili	ty K
12AM-3AM		10.7%		35.8%		11.2%
3AM-6AM		2.7%		37.8%		24.4%
6AM-9AM		10.7%		19.0%		7.3%
9AM-12PM		8.7%		15.1%		2.1%
12PM-3PM		11.3%		11.1%		1.1%
3PM-6PM		19.9%		15.9%		1.5%
6PM-9PM		23.4%		22.5%		6.1%
9PM-12AM		12.7%		40.1%		11.8% ta, 2010-2015
				Source: PB	CAT CIASII UA	ta, 2010-2015

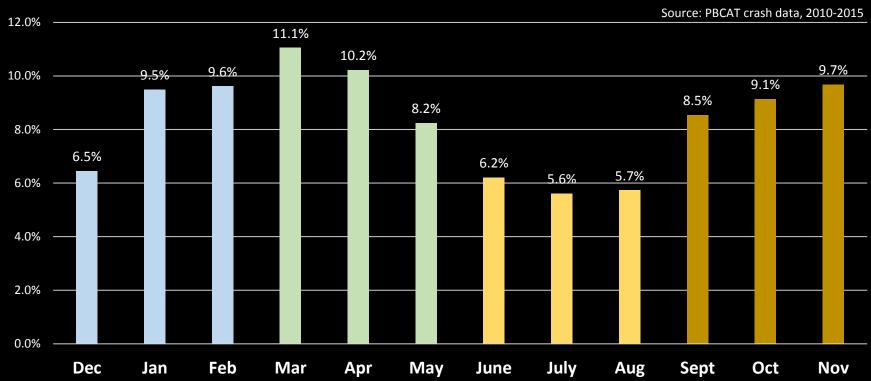
K = killed

SI = seriously injured

Preliminary Crash Analysis

Time of Year

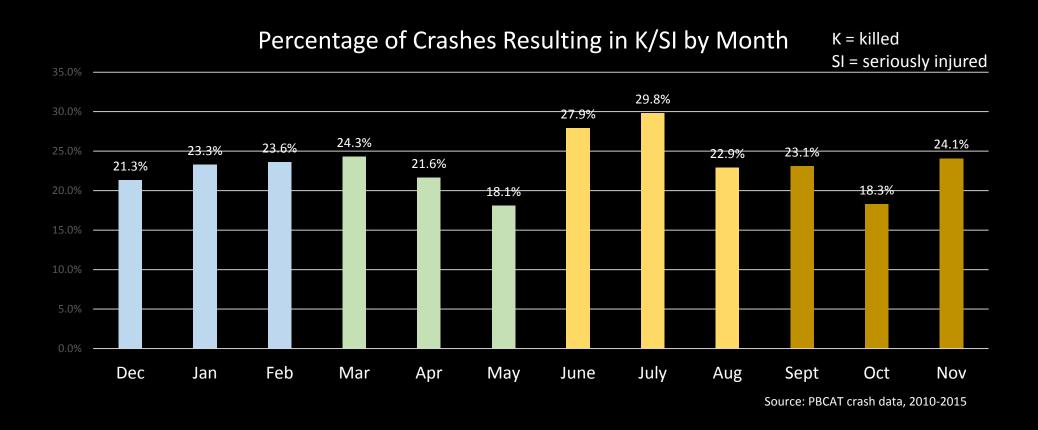




11/7/2016

Preliminary Crash Analysis

Time of Year



11/7/2016

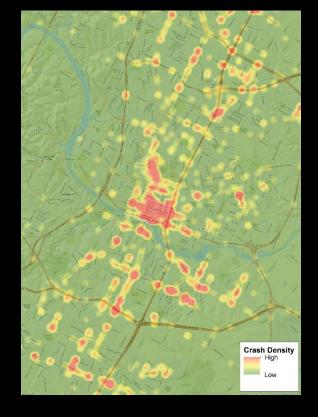
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Questions?







11/30/2016

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