Metro Orlando Pedestrian Fatality Trends & Issues

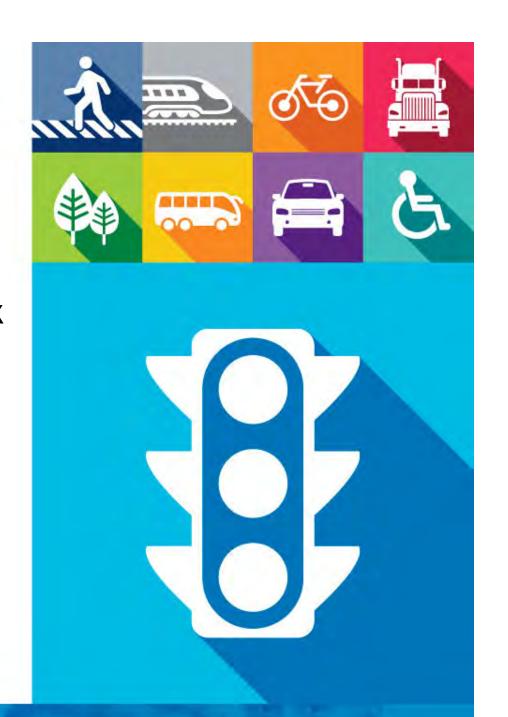


This Presentation

Dangerous By Design

- Pedestrian Danger Index
- Scenarios

Safe System Approach
Crossing Law
Crash Factors



Pedestrian Danger Index

Pedestrian Fatalities

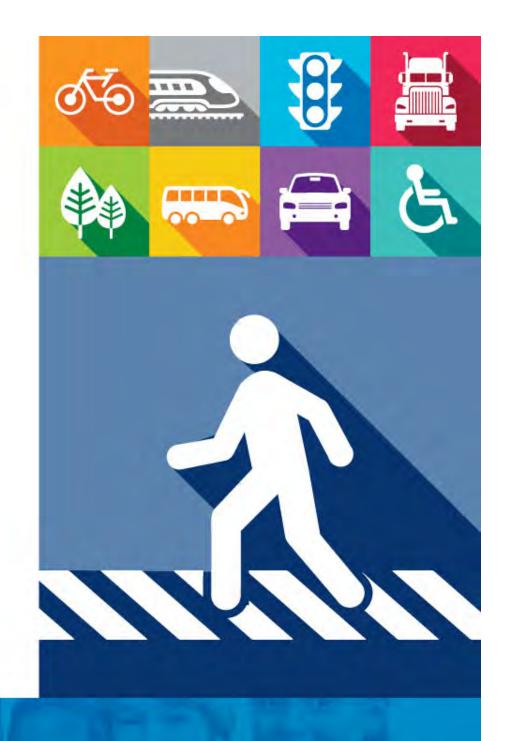
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(Population X 100,000)

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% Walking to Work

Dangerous By Design includes Lake County for the Orlando metro area



Scenarios



Accounting for Visitor Population

Without Visitor Population	With Visitor Population	Change
PDI = 284	PDI = 259	-9%

From 2012-13 Study of Metro Orlando Residence of Pedestrians Involved	Pedestrians Fatalities	
in Fatal Crashes	Number	Percent
Reside in Orlando Metro	77	79%
Florida, Outside Metro Orlando	14	14%
USA, Outside Florida	4	4%
Foreign	-	0%

Scenarios



Only Increase Walking to Work

Average PDI 2011-13	Average PDI 2017-19	Change
245	282	15%
Walk-to-Work 1.1%	Walk-to-Work 1.7%	+21%

Walk-to-Work 2011-13 1.1%	Walk-to-Work 2017-19 +100% 2.2%	Change
PDI = 245	PDI = 178	-27%

Scenarios



Only Decrease Fatalities 20%

Average Yearly Fatals 2011-13 60	Average Yearly Fatals 2017-19 Reduced 20% = 48	Change
PDI = 235	PDI = 136	-42%

A New Safety Principle



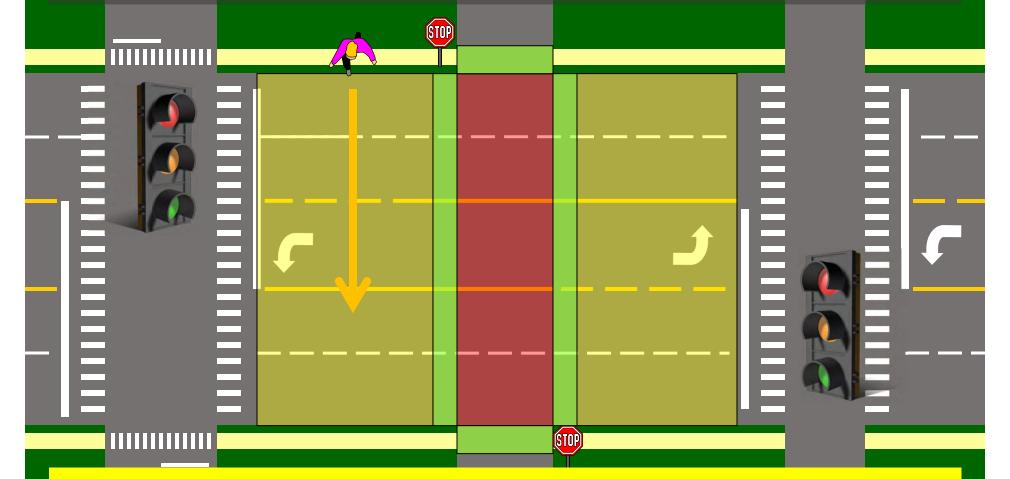
New 2021 Florida Highway Safety Plan introduces the **Safe System** approach ...

"... which acknowledges that humans make mistakes, the human body is vulnerable, and that we should design and operate our transportation system to ensure that if crashes do occur they do not result in serious human injury."

- Failure to Yield
- Darkness
- Distraction
- Speed

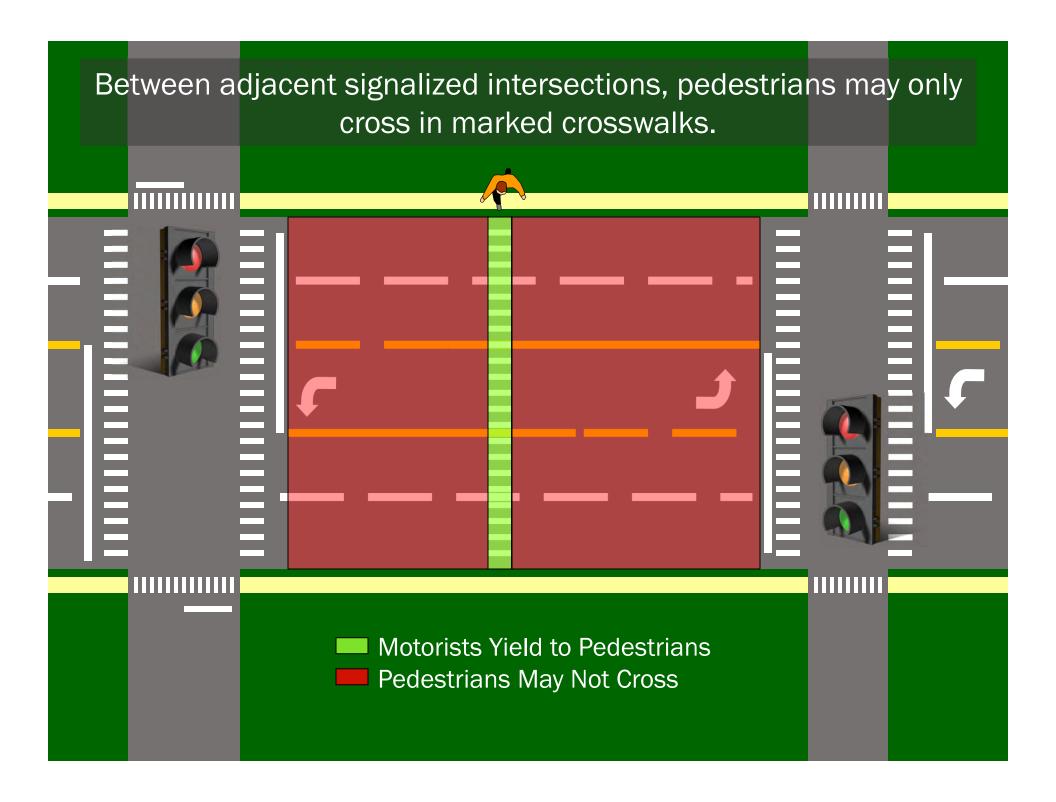


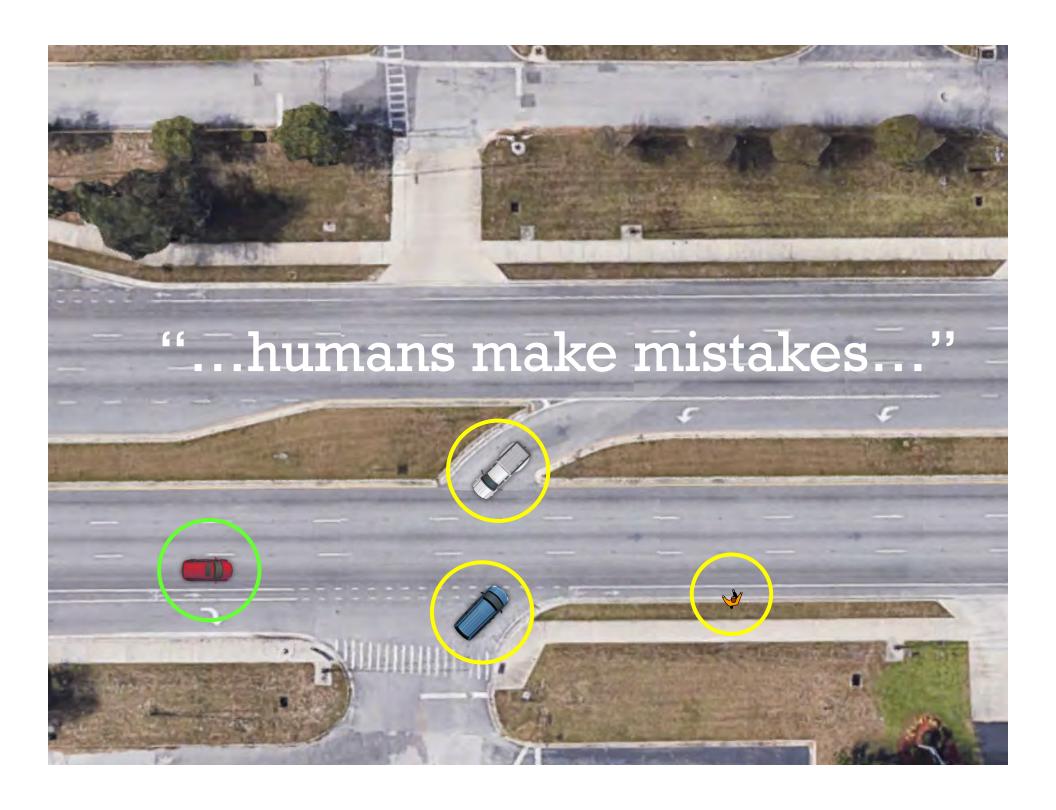
When at least one of the nearest intersections are <u>not</u> signalized, pedestrians may cross mid-block, provided they yield to traffic.



A crosswalk is the continuation of the lateral lines of the sidewalk across the roadway.

Most crosswalks are unmarked.







Night Versus Daytime

		Avg. 2011-13	Avg. 2017-19	Change
All Crashes	All Crashes	277	316	+14%
Night	Fatals	38	65	+71%
	% Fatal	14%	21%	
		Avg. 2011-13	Avg. 2017-19	Change
Day	All Crashes	360	382	+6%
Day	Fatals	8.7	9.3	+7%
	% Fatal	2%	2%	Pop. +14%



Pedestrian Failure to Yield, Mid-Block

		Avg. 2011-13	Avg. 2017-19	Change
.	All Crashes	98	103	+5%
Night	Fatals	15	27	+84%
	% Fatal	15%	26%	
		Night, With Street Lighting +14		ing +148%
		Avg. 2011-13	Avg. 2017-19	Change
Day	All Crashes	72	63	-13%
2 3.5	Fatals	1.7	2.3	40%
	% Fatal	2%	4%	
Pedestrian Failure to Yield as % of All		29%	25%	



Distracted Driving

Pedestrian Crash Factor (All Injury Levels)	Avg. 2011-13	Avg. 2017-19	Change
All Pedestrian, Public ROW, No Freeway	691	741	+7%
Motorist Failure to Yield, Distracted (All Lighting)	17	38	+119%
Night, Distracted Driving	18	23	+27%
Smart Phone Ownership*	44%	78%	+77%

^{*} Pew Research



Alcohol & Drugs, Hit & Run

Pedestrian Crash Factor (All Injury Levels)	Avg. 2011-13	Avg. 2017-19	Change
All Pedestrian Public ROW, No Freeway	691	741	+7%
Alcohol or Drugs	61	43	-29%
Hit & Run	145	174	+21%

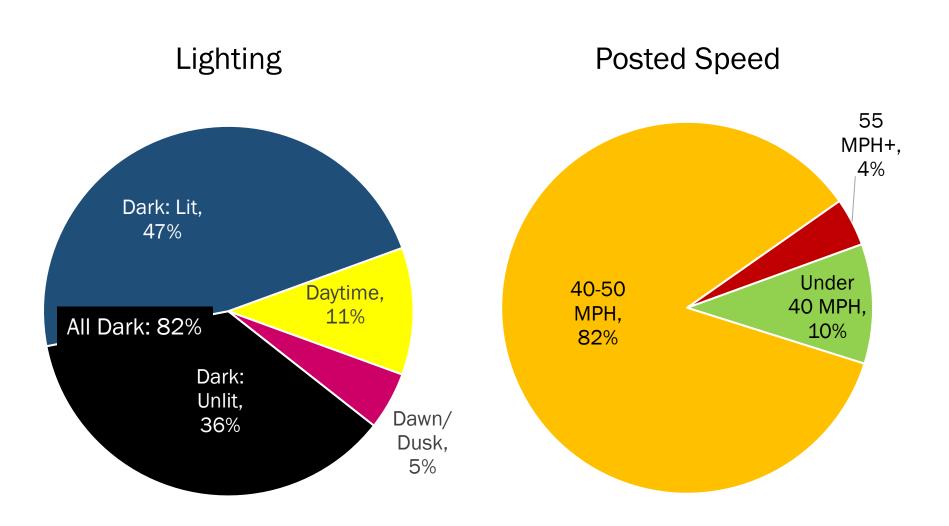


Motorist Failure to Yield

		Avg. 2011-13	Avg. 2017-19	Change
Motorist	All Crashes	158	197	+25%
Failure to Yield	Daytime Only	73	135	+85%
to rieiu	Fatals	5.7	6	+5%
	% Fatal	4%	3%	

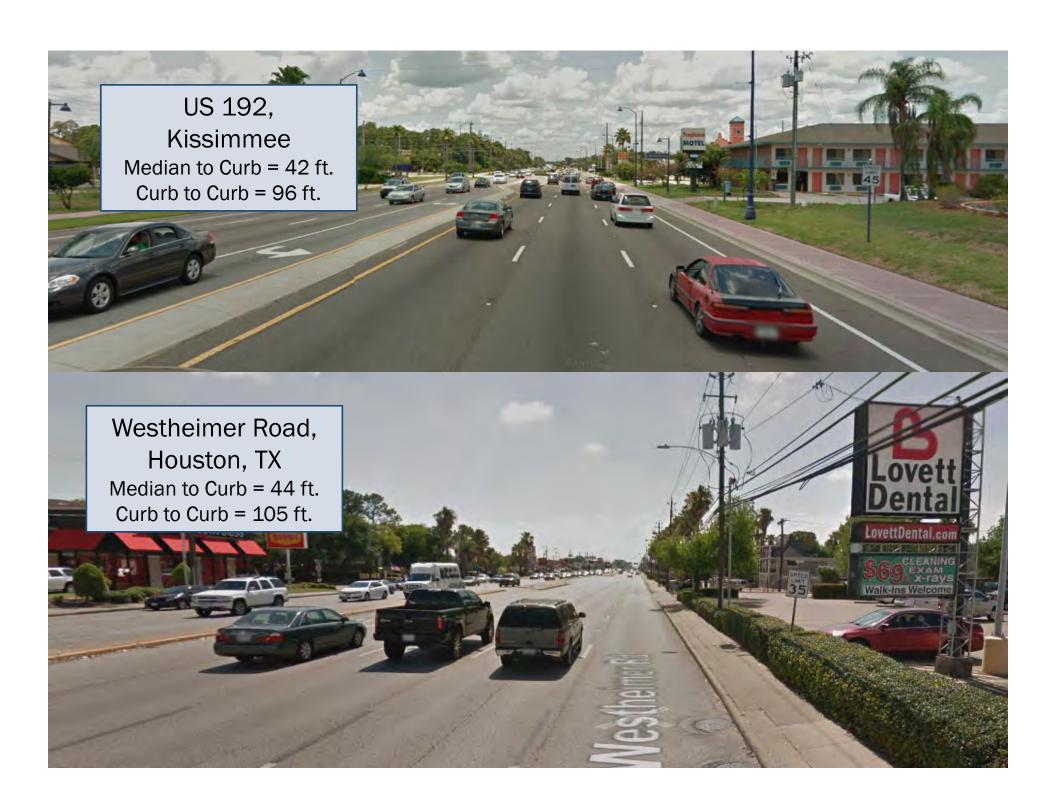
Pedestrian Fatalities: Lighting & Speed

Crossing Roadway - Vehicle Not Turning









The Deadly Trio

Darkness

+

Distraction

+

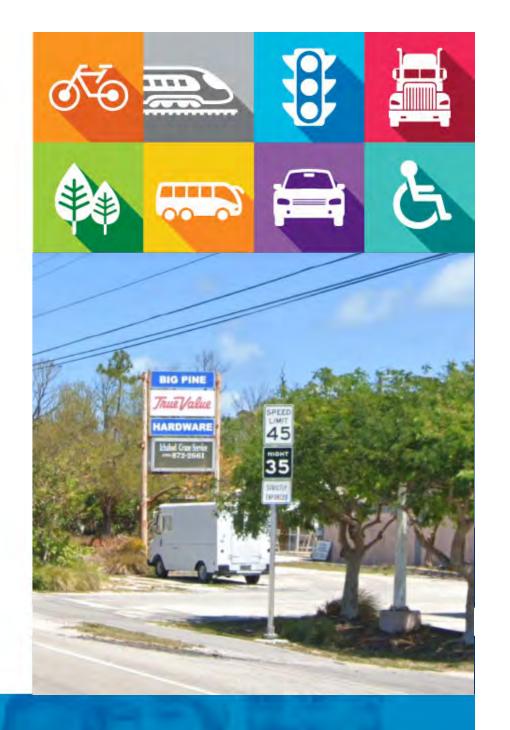
Speed

+ Fewer Regular Passenger Cars
More Trucks and SUVs



Reduced Night-time Posted Speed

- US 1 on Big Pine Key
- 45 MPH Daytime
- 35 MPH Night-time
- To protect endangered key deer



Pedestrian Fatalities By Jurisdiction



Pedestrian Fatalities 2011-2019				
Jurisdiction	# of Pedestrian Fatalities % of Total			
Unin. Orange	308	49%		
Orlando	95	15%		
Unin. Osceola	87	14%		
Unin. Seminole	42	7%		
Kissimmee	16	3%		
Apopka	15	2%		
Sanford	14	2%		
All Others	48	8%		
Unin. Orange - North/West	122	19%		
Unin. Orange - South	98	15%		
Unin. Orange - East	85	13%		
Orlando - Central/East	66	10%		

Thank You

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