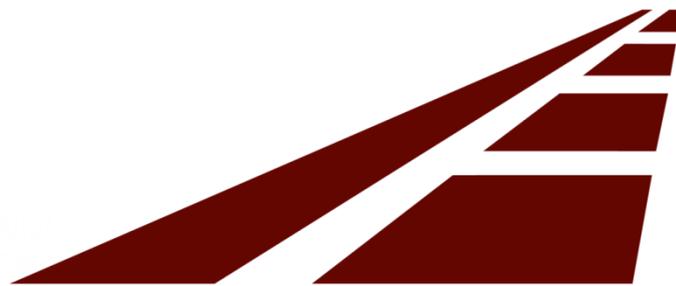


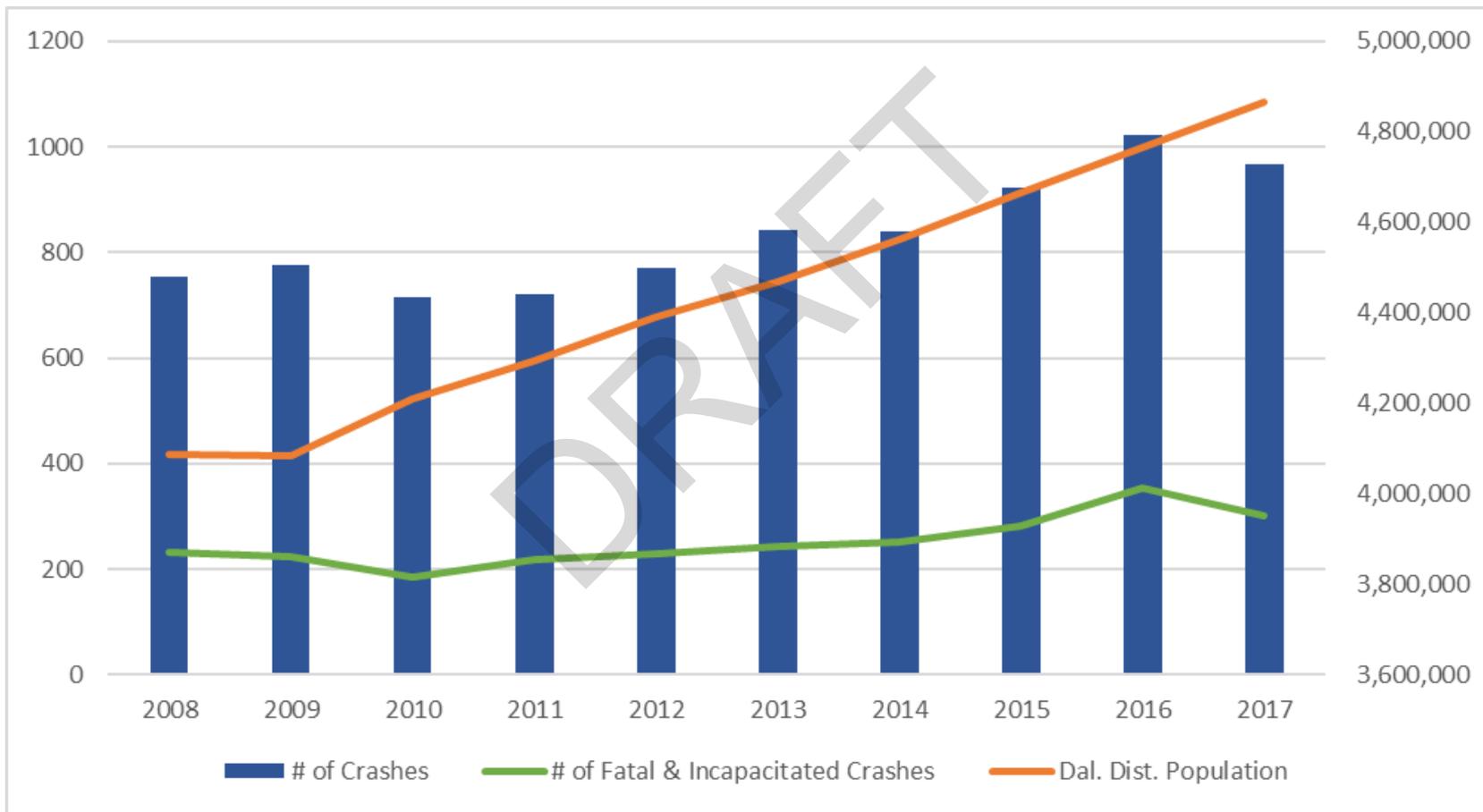


# Understanding Dallas District Pedestrian Safety Issues

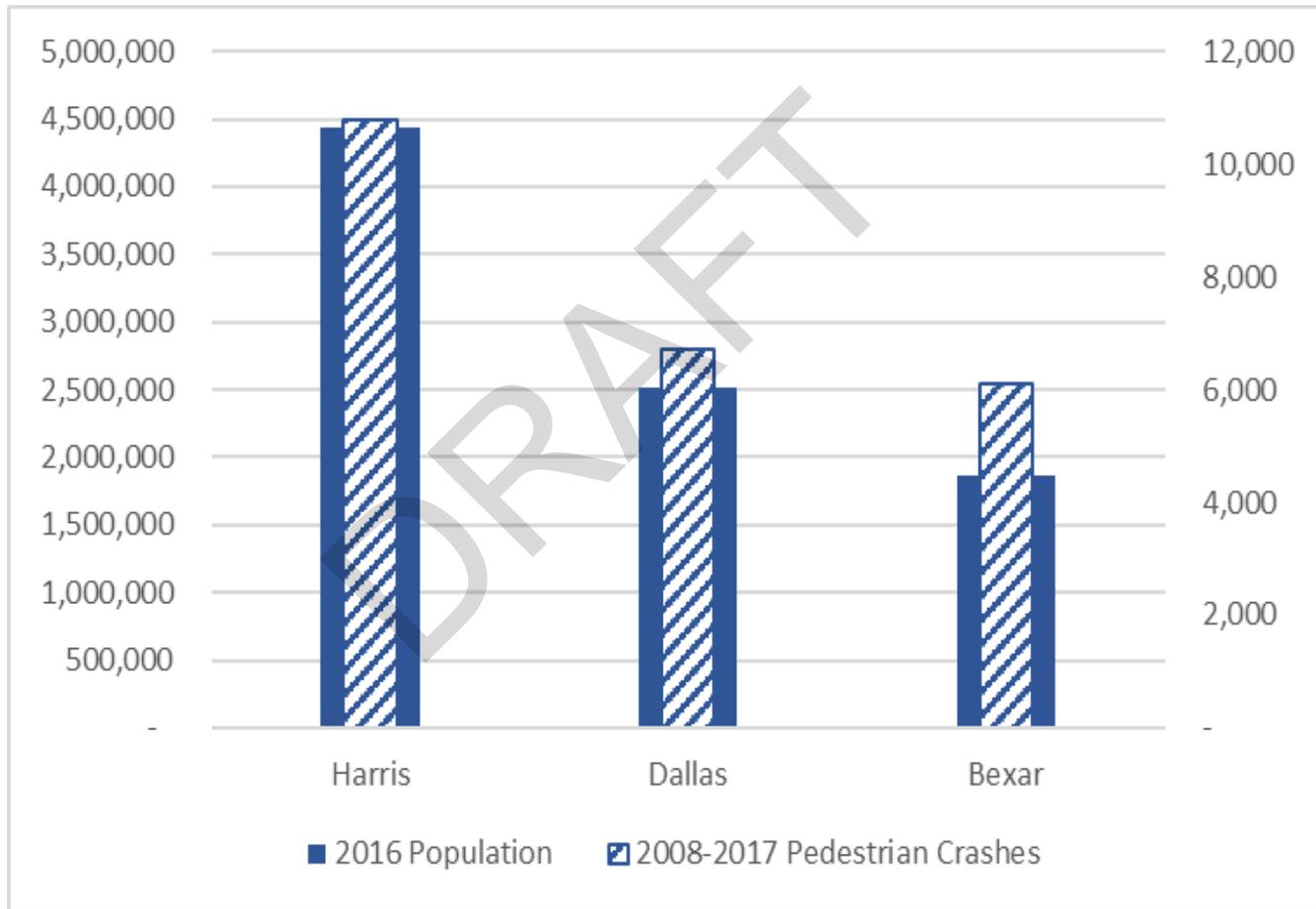
**Preliminary  
Findings**

 **Texas A&M  
Transportation  
Institute**

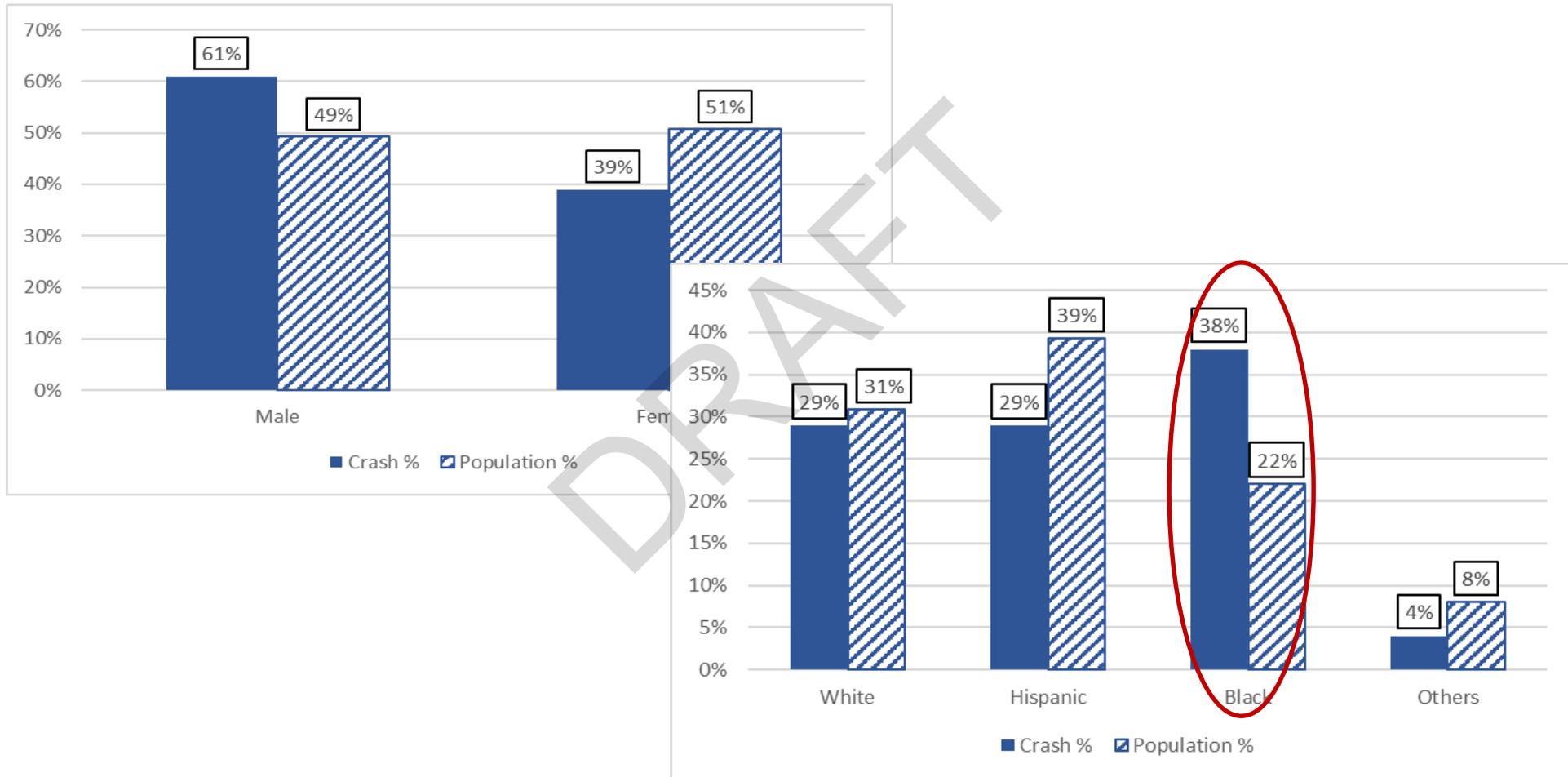
# Dallas District Pedestrian Crashes 2008-2017



# Population and Pedestrian Crashes by County



# Dallas County Ped. Crashes





**Dallas District**

2008 – 754
2009 – 776
2010 – 716
2011 – 720
2012 – 770
2013 – 842
2014 – 840
2015 – 924
2016 – 1023
2017 - 967

**KABC Crashes**  
**8332**

TxDOT reportable crashes only  
Period: 2008-2017  
PDO and Unknown severity not used

K – 680 (8%)
A – 1841 (22%)
B – 3539 (43%)
C – 2272 (27%)

**County**

Collin 685 (8%)	Dallas 6707 (80%)	Denton 620 (7%)	Ellis 136 (2%)	Kaufman 74 (1%)	Navarro 63 (1%)	Rockwall 47 (1%)
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**City**

Dallas 4696 (70%)	Garland 430 (6%)	Grand Prairie 174 (3%)	Irving 412 (6%)	Mesquite 216 (3%)	Richardson 160 (2%)	Others 619 (9%)
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**Roadway**

Freeway 328 (7%)	Non-Freeway 4368 (93%)
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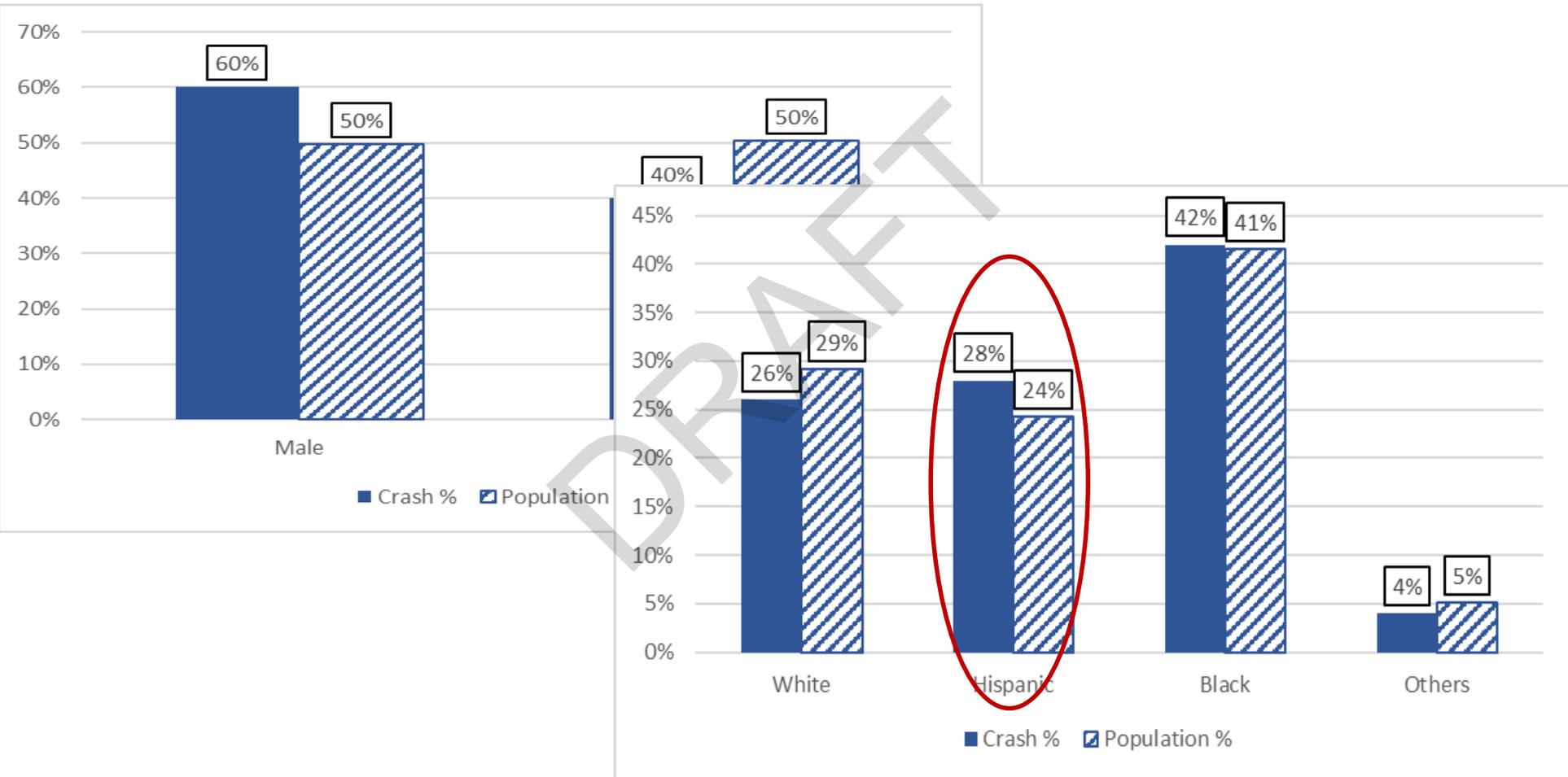
**On/Off- System**

On-System 699 (16%)	Off-System 3669 (84%)
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K – 95 (14%) A – 194 (28%) B – 233 (33%) C – 177 (25%)	K – 178 (5%) A – 810 (22%) B – 1563 (43%) C – 1118 (30%)
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# City of Dallas Ped. Crashes

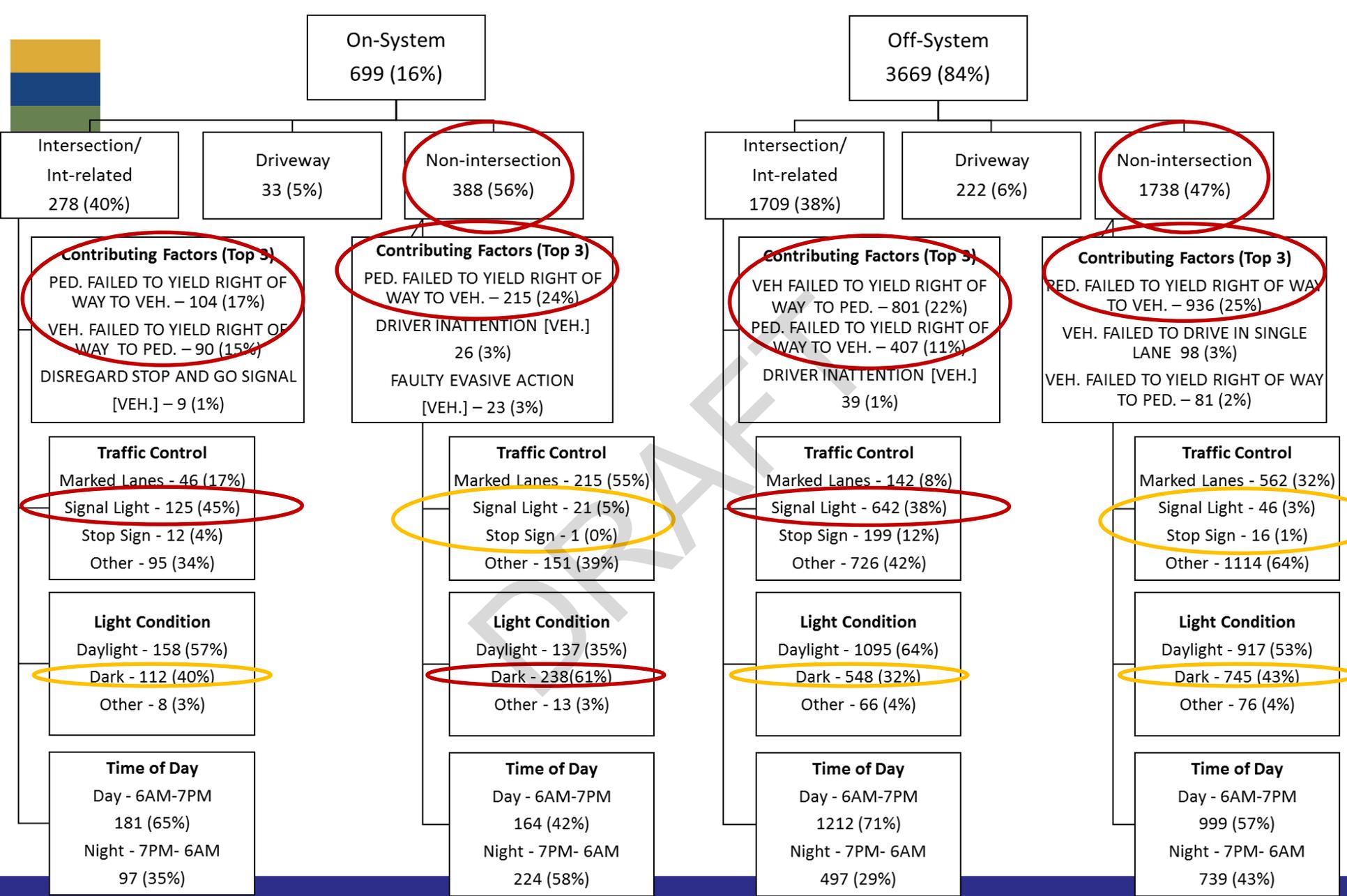




# Fatal Freeway Pedestrian Crashes

Pedestrian Action	Intended	Unintended*	Not stated	Grand Total
Crossing	38	4		42
Lying Down	2	2	1	5
Other	2	3		5
Standing	7	25		32
Unknown	1		2	3
Walking on main lanes	13			13
Walking on shoulders	4			4
<b>Grand Total</b>	<b>67</b>	<b>34</b>	<b>3</b>	<b>129</b>
<b>Percent of Total</b>	<b>52%</b>	<b>26%</b>	<b>2%</b>	

\* Pedestrians that are hit once they are out of their vehicles.  
 Note, 25 crash reports (19%) unavailable.

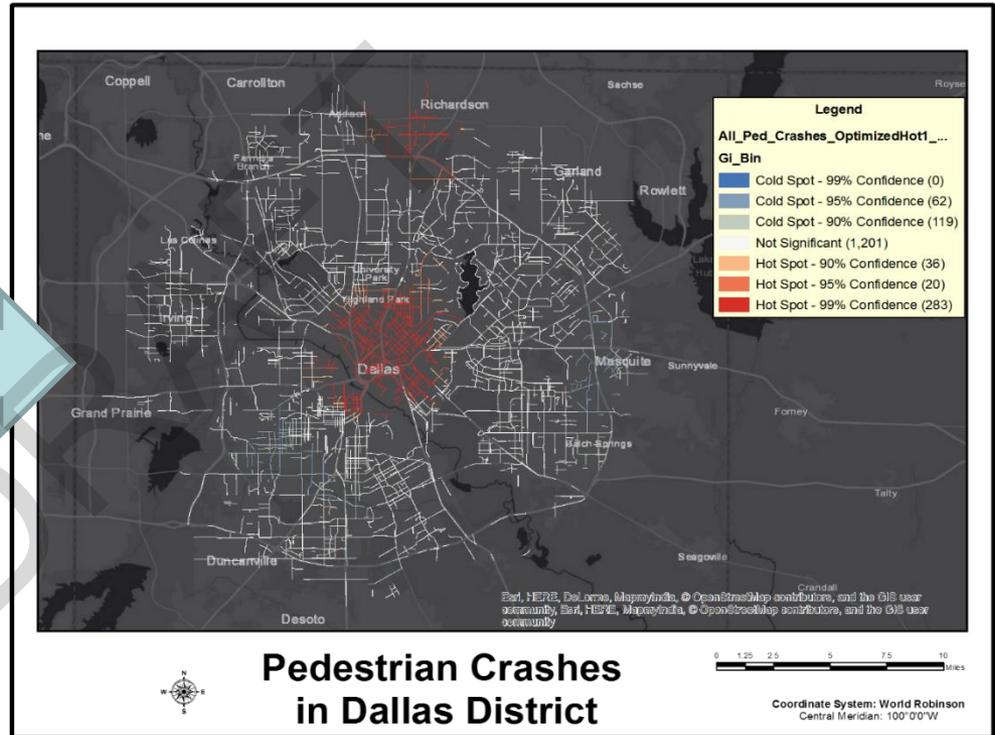
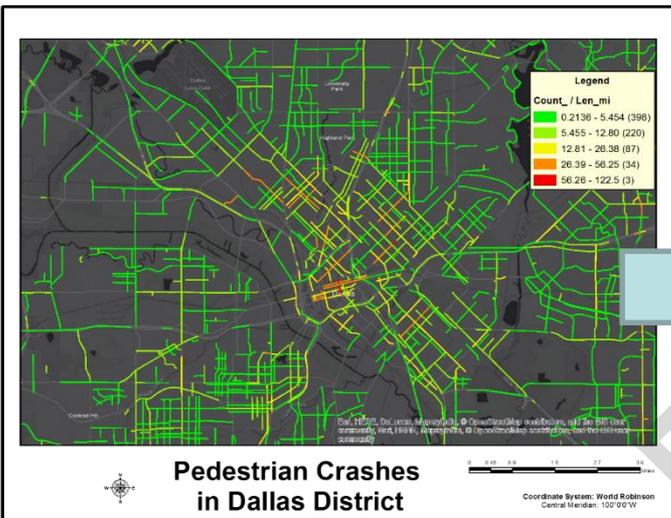




# Systemic Approach

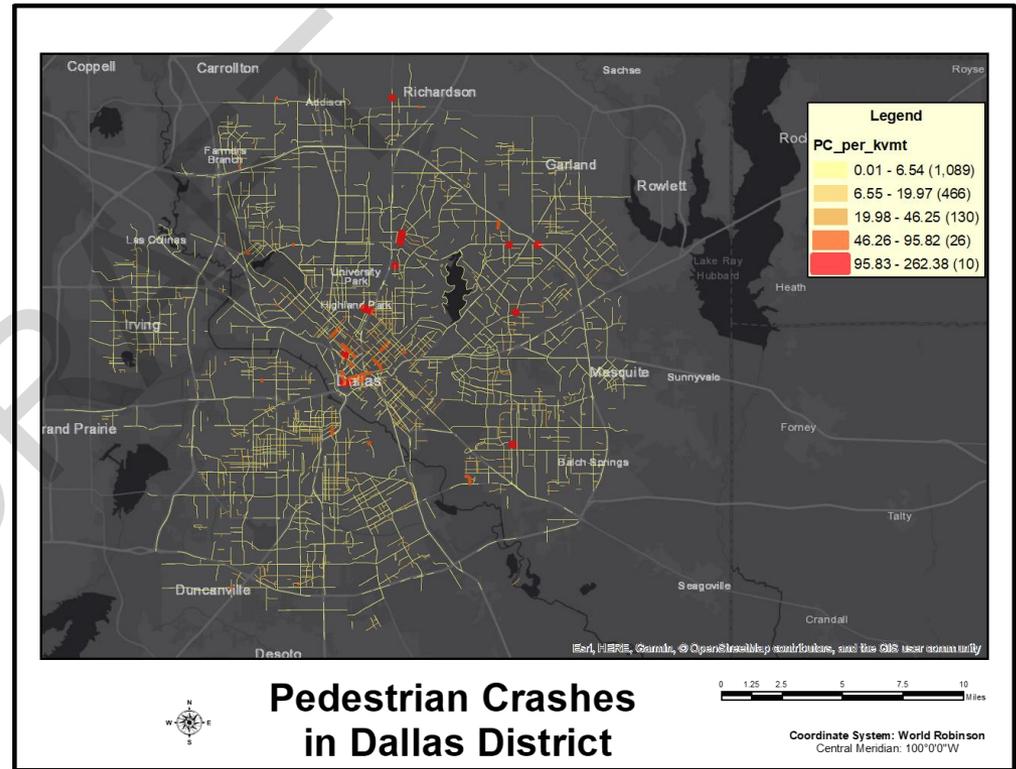
- Crash History - GIS Spatial Analysis
- Pedestrian Exposure - using land use, bus/LRT stops, and schools as possible surrogates
- Develop model/weighting of factors to prioritize locations with most risk

# Crashes per mile:

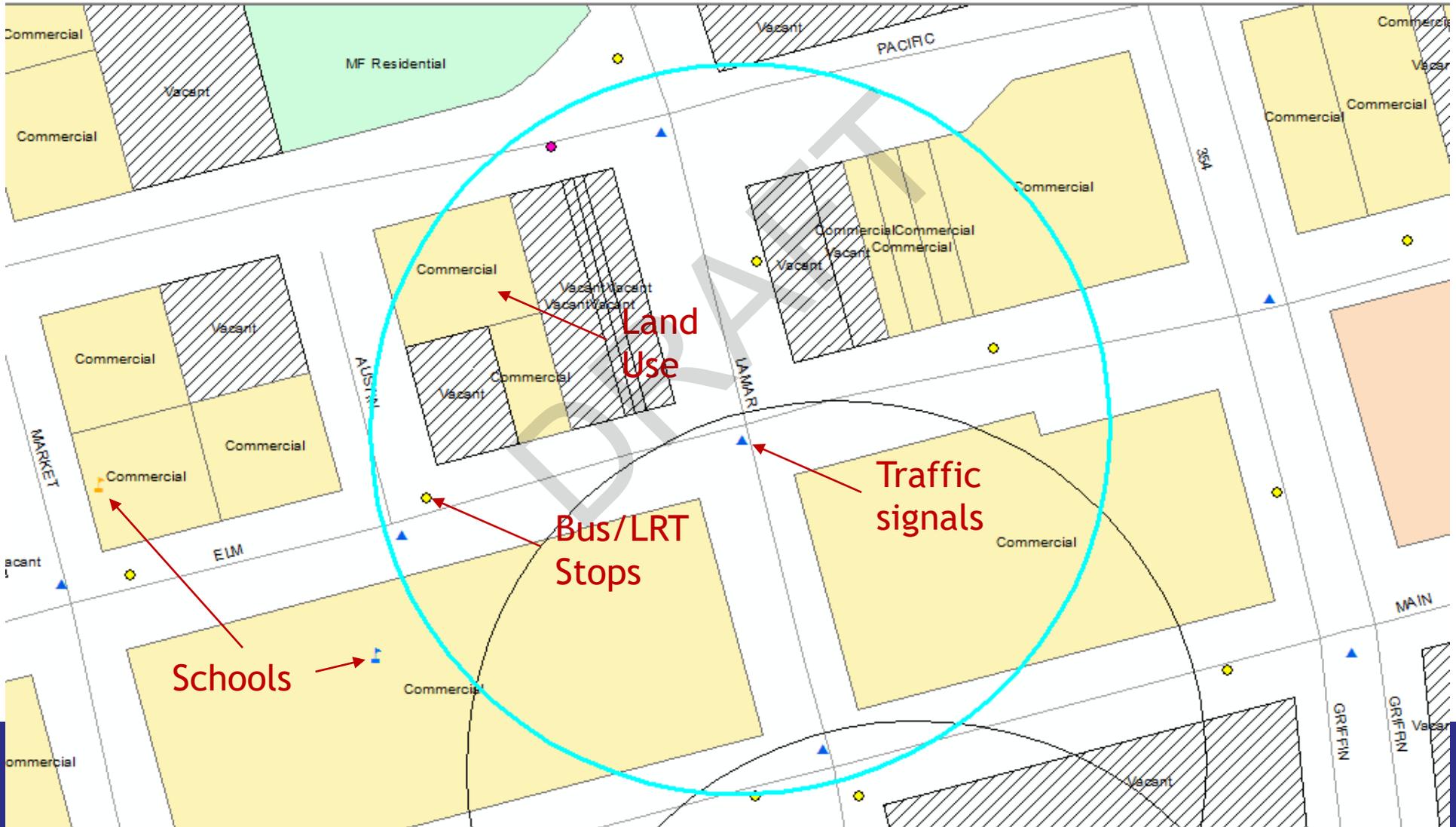


# Crash Clusters per 1000 VMT

- 36 Locations > 45 ped crashes per 1000 vmt
- These locations have significantly higher crash rates than 98% of all segments



# Est. Pedestrian Activity (Exposure)





# Next Steps

- Continue systemic approach
- Develop countermeasures for top 10/20 City of Dallas locations
- Use FHWA's Pedestrian and Bicycle Crash Analysis Tool 2.0



# Questions?



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