COUNTERMEASURES FOR Pedestrian and Bicycle HIGH CRASH LOCATIONS







Study Goals

- Develop multi-disciplinary strategies to reduce traffic crashes involving pedestrians and bicyclists.
- Develop an on-going process for continuing safety monitoring, analysis and improvement.



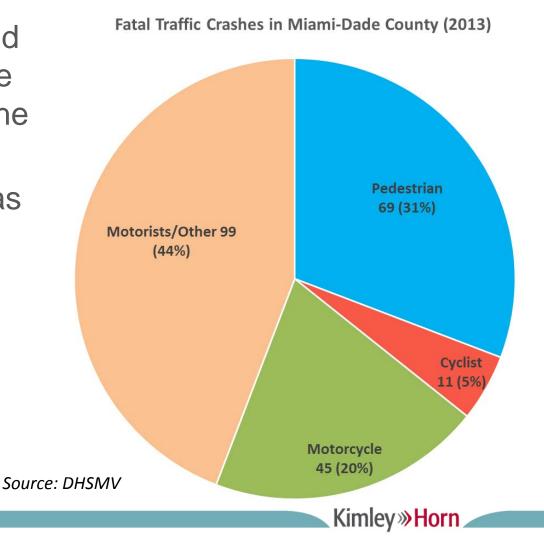


Miami-Dade's Traffic Safety Problem

 Florida's pedestrian and bicycle fatality rates are among the highest in the US.

Pedestrian and Bicycle

 Miami-Dade County has the highest number of pedestrian and bicycle crashes in Florida.





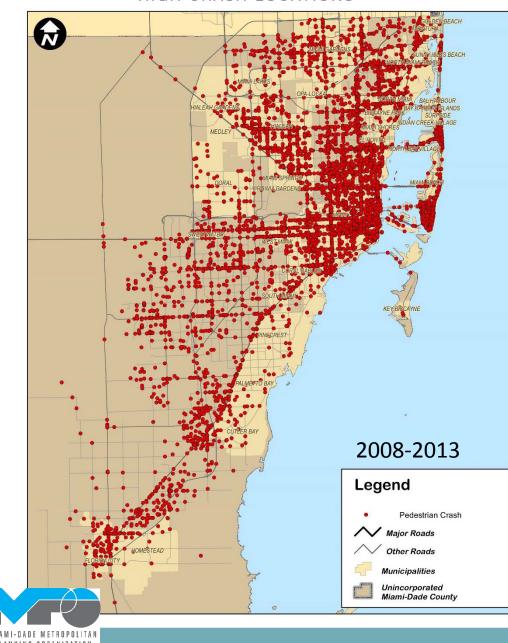


Pedestrian Crashes







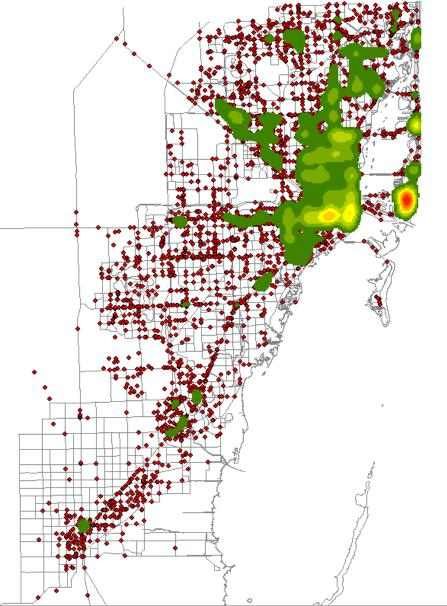


Pedestrian Crashes (2008-2013)

Year	Crashes
2008	1,307
2009	1,301
2010	1,207
2011	962
2012	1,089
2013	1,162
Total	7,028

 Pedestrian crashes declined each year between 2008 and 2011 but have increased in 2012 and 2013.

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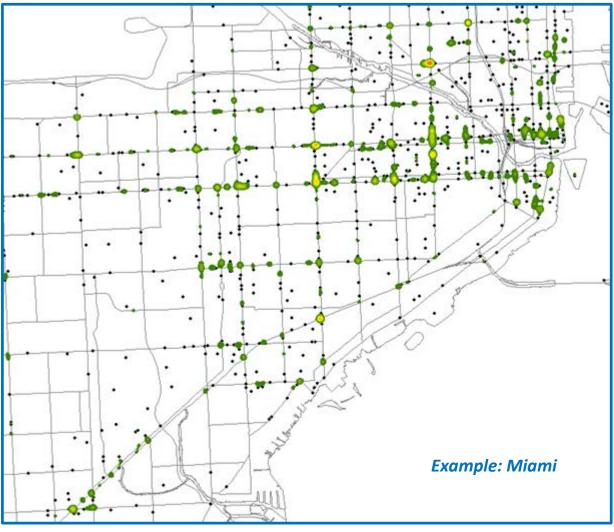


Pedestrian Crash Density



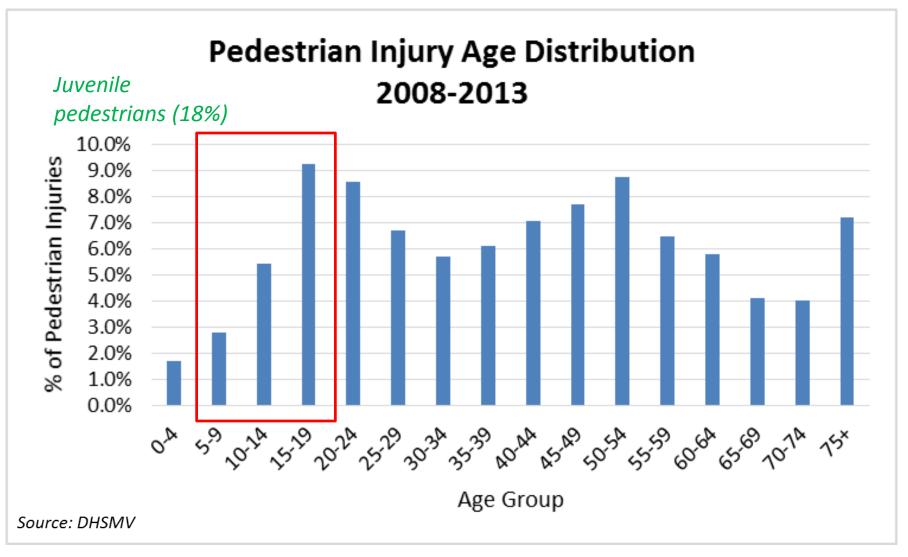


High Pedestrian Crash Locations



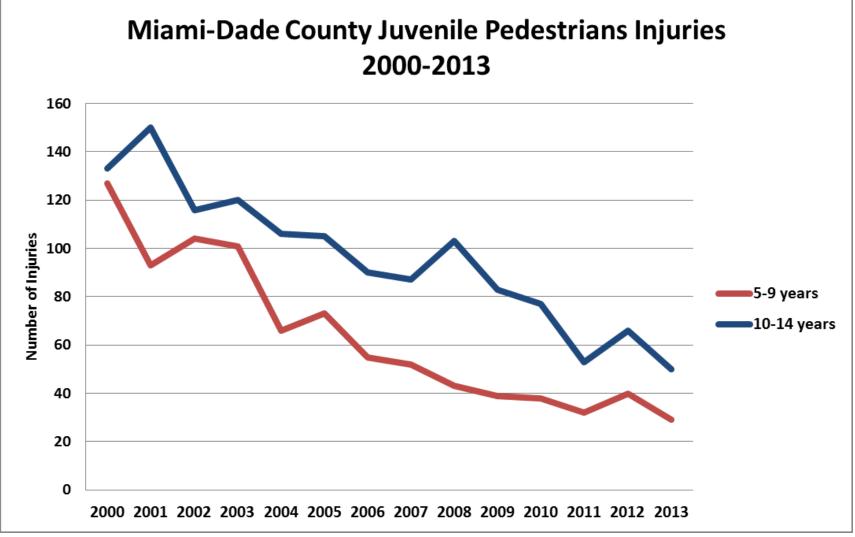


Pedestrian and Bicycle





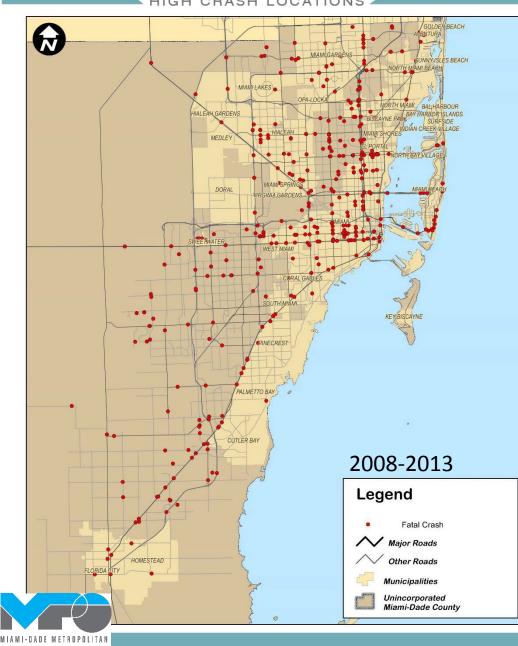








Pedestrian and Bicycle

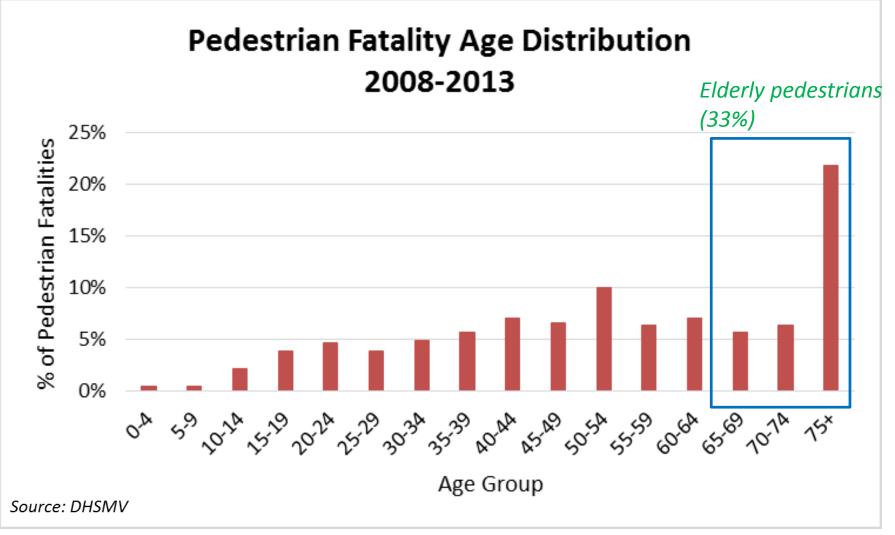


Fatal Pedestrian Crashes (2008-2013)

	atal rashes
2008	64
2009	65
2010	75
2011	68
2012	47
2013	68
Total	388

On average, 1 in 18 crashes involving a pedestrian resulted in a fatality.



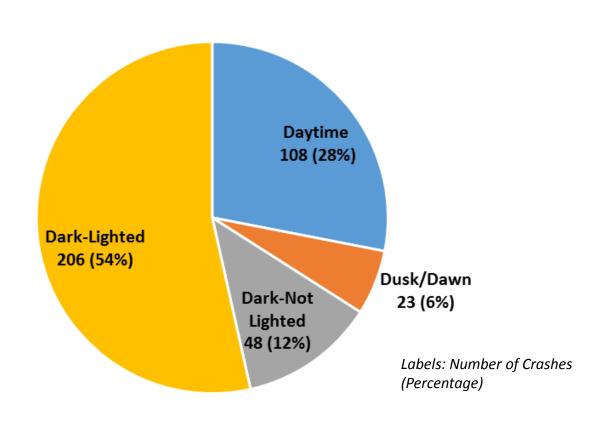






Lighting Condition

Pedestrian Fatalities 2008-2013

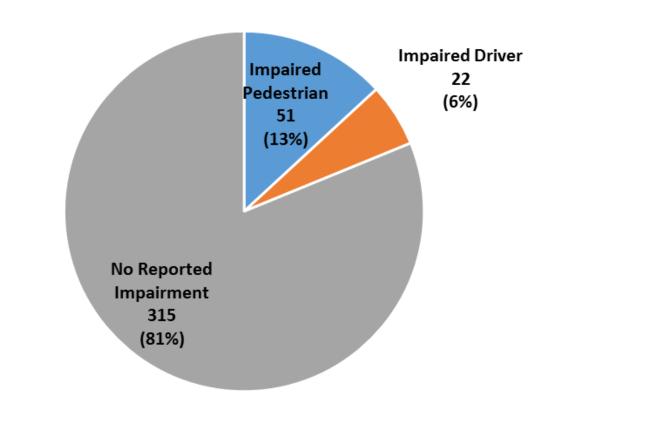






Impairment

Pedestrian Fatalities 2008-2013

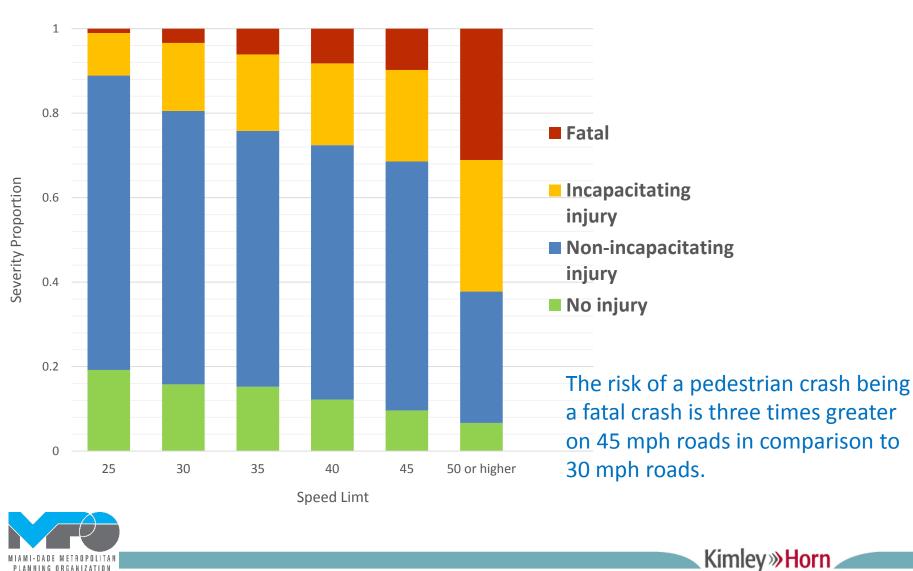








Speed Limit vs. Pedestrian Injury Severity





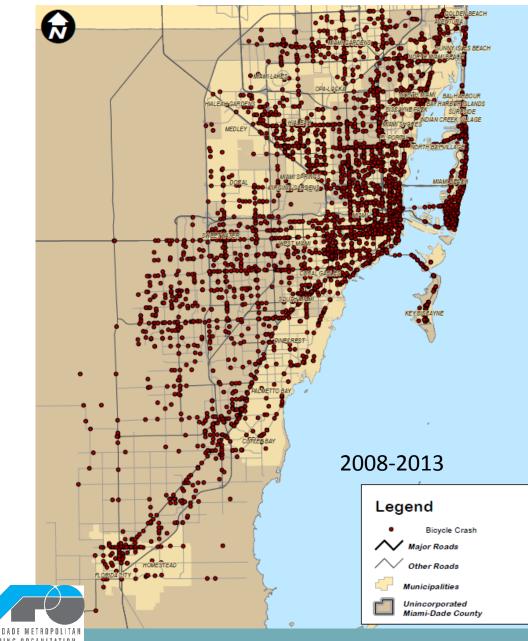
Bicycle Crashes





Pedestrian and Bicycle

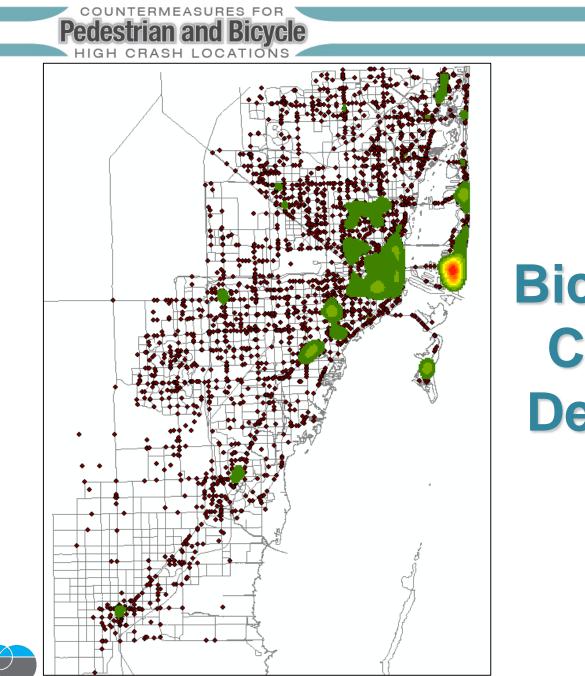
HIGH CRASH LOCATIONS



Bicycle Crashes (2008-2013)

Year	Crashes
2008	492
2009	528
2010	583
2011	667
2012	727
2013	857
Total	3,854

 74% increase in bicycle crashes between 2008 and 2013.

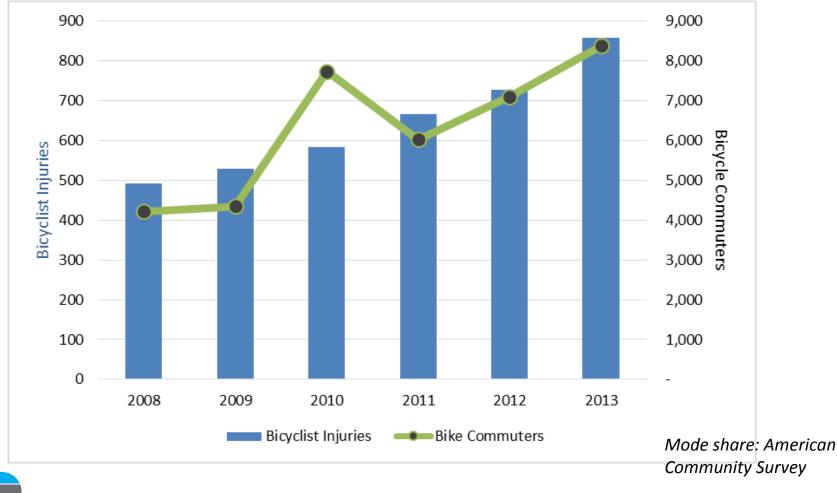


Bicyclist Crash Density





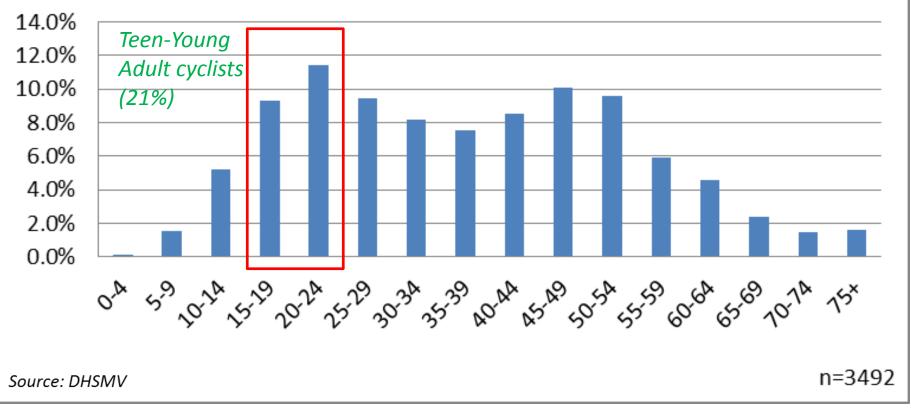
Bicycle Crashes and Commuting







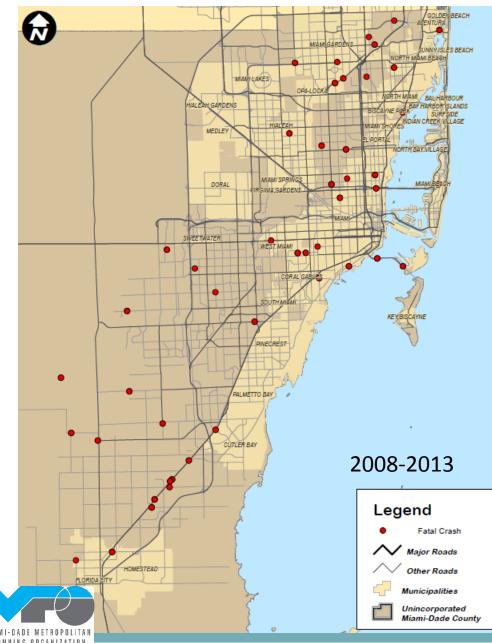
Bicyclist Injury Age Distribution 2008-2013





Pedestrian and Bicycle

HIGH CRASH LOCATIONS

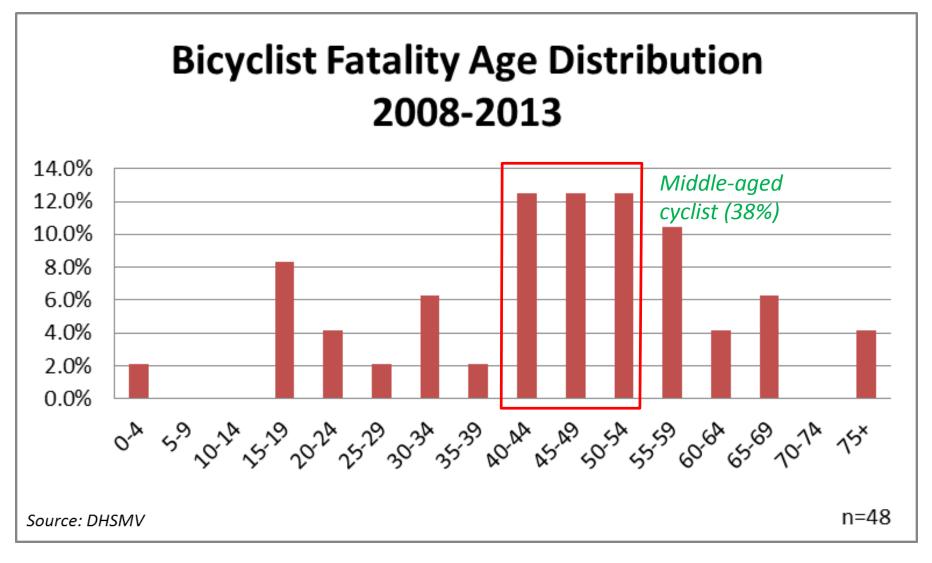


Fatal Bicycle Crashes (2008-2013)

Year	Fatal Crashes
2008	6
2009	12
2010	7
2011	6
2012	6
2013	10
Total	47

- In general, fatal bicycle crashes are scattered.
- On average, 1 in 82 crashes involving a bicyclist resulted in a fatality.



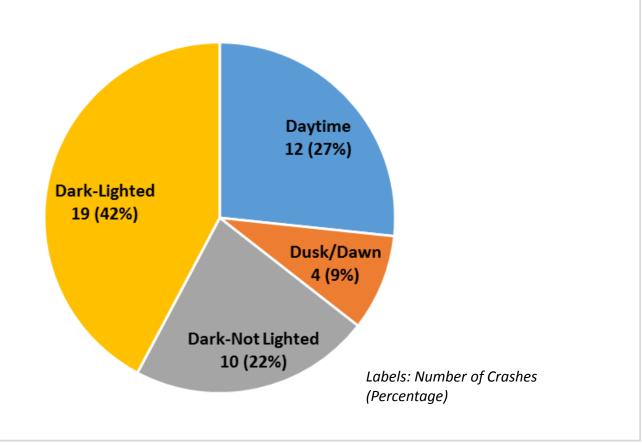






Lighting Condition

Bicyclist Fatalities 2008-2013

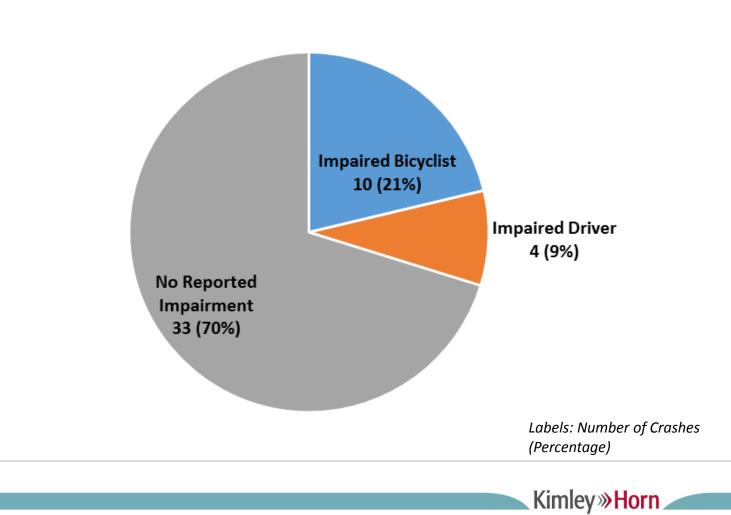






Impairment

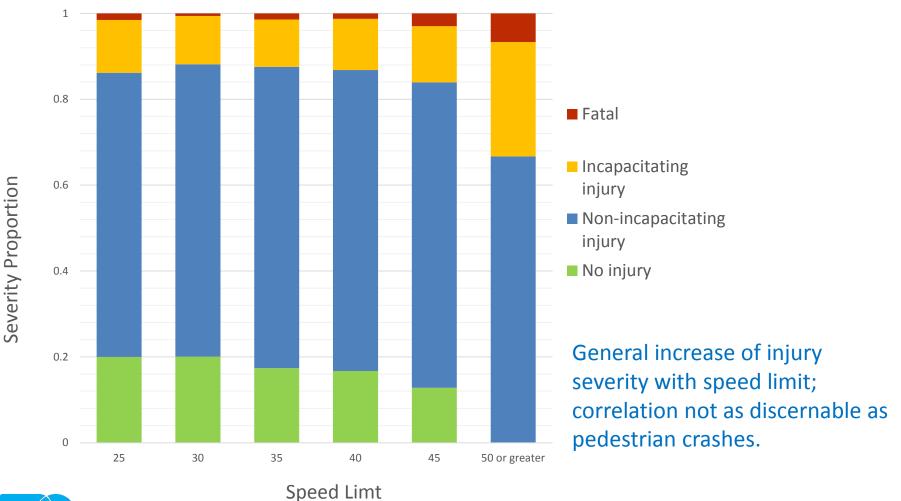
Bicyclist Fatalities 2008-2013







Speed Limit vs. Bicycle Injury Severity







Next Steps

- Coordinate with stakeholder agencies.
 - FDOT
 - Miami-Dade County
 - Municipalities
 - WalkSafe, Alliance on Aging, Miami-Dade Public Schools, and outreach groups
 - Enforcement agencies
 - Miami-Dade Transit
- Conduct field reviews and develop countermeasures

Kimley **Whorn**

- Engineering
- Education, and
- Enforcement strategies.

