

# REGIONAL SAFETY STUDY

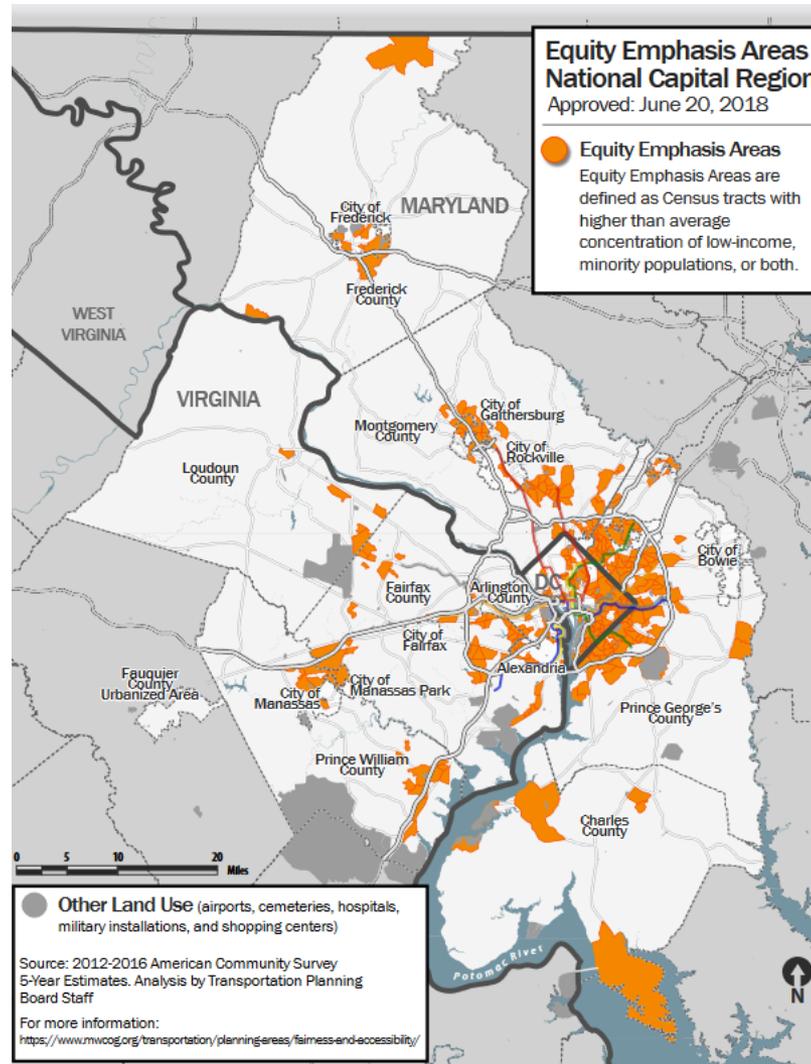
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## Equity Emphasis Area Analysis

Cory Hopwood  
Cambridge Systematics

TPB Technical Committee  
May 7, 2021

# Equity Emphasis Areas



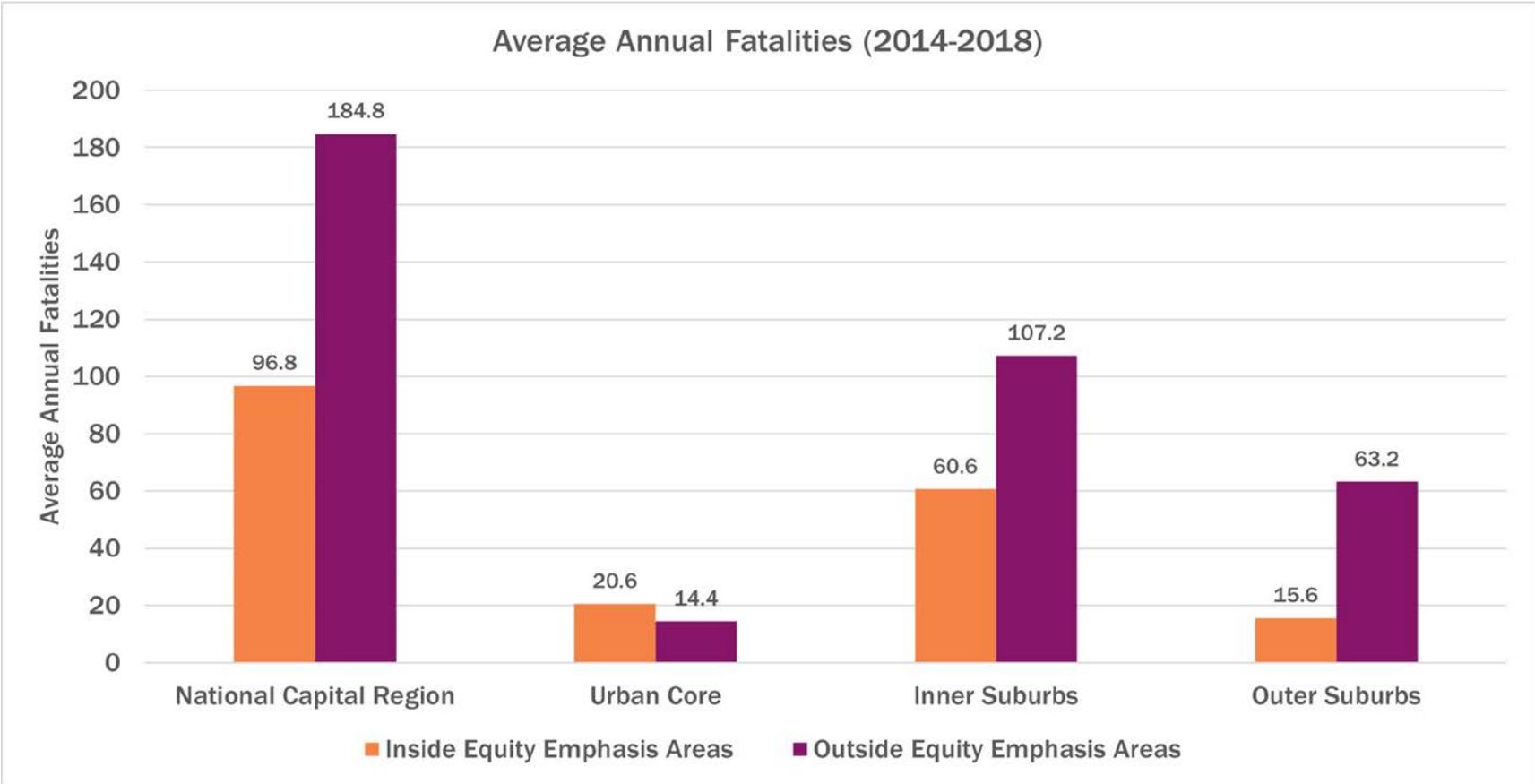
# Equity Emphasis Area Analysis

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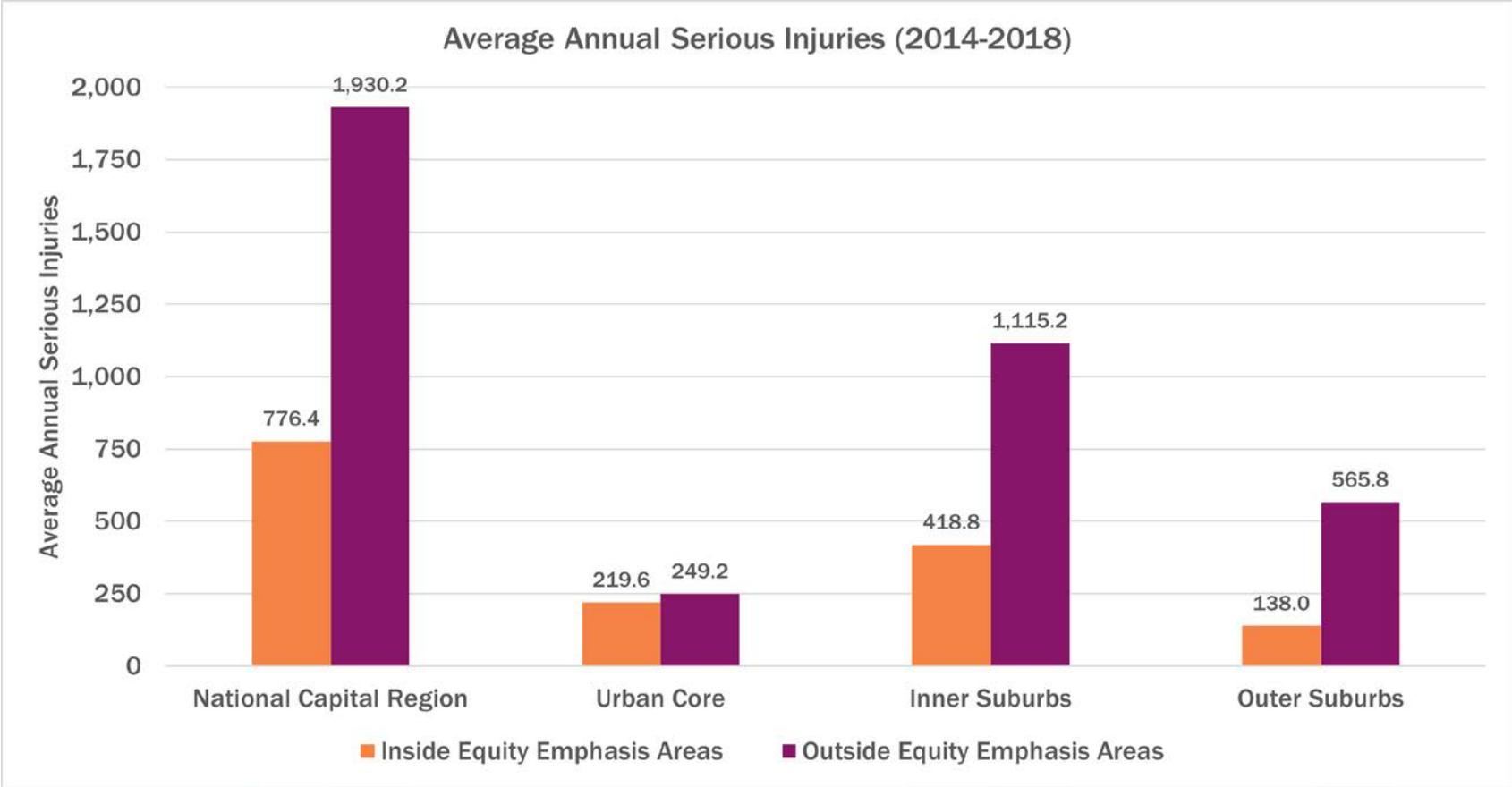
- Equity Emphasis Areas:
  - Geographic areas with significant concentrations of low-income, minority populations, or both
  - Approved by the Board in 2017, updated to most recent U.S. Census data June 2018
- Equity Emphasis Area Safety Analysis
  - How do Equity Emphasis Areas compare to the region when it comes to roadway fatalities and serious injuries?



# Average Annual Fatalities (2014-2018)



# Average Annual Serious Injuries (2014-2018)



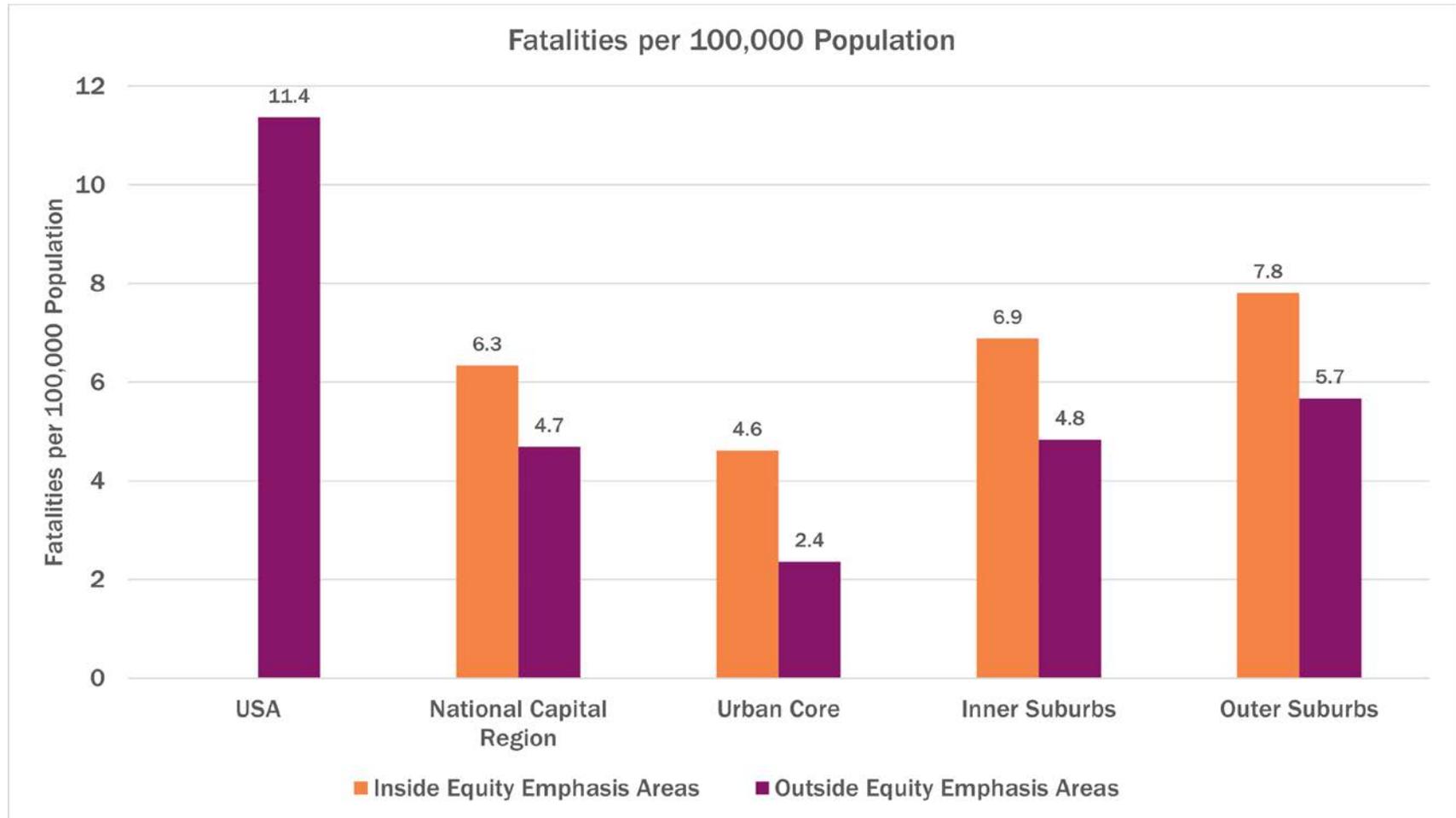
# Equity Emphasis Areas Population

Jurisdiction	Average Population in EEAs	Percentage of Population in EEAs	Percentage of Fatalities in EEAs	Percentage of Serious Injuries in EEAs
<b>Urban Core</b>	<b>447,026</b>	<b>42.3%</b>	<b>58.9%</b>	<b>46.8%</b>
District of Columbia	355,176	55.0%	65.9%	54.4%
Arlington County	46,778	20.7%	14.3%	16.4%
City of Alexandria	45,072	29.8%	57.9%	25.6%
<b>Inner Suburbs</b>	<b>880,947</b>	<b>28.4%</b>	<b>36.1%</b>	<b>27.3%</b>
Montgomery County	254,559	24.8%	44.0%	28.9%
Prince George's County	412,062	45.9%	41.0%	39.2%
Fairfax County	214,326	18.9%	16.2%	18.0%
<b>Outer Suburbs</b>	<b>199,793</b>	<b>15.5%</b>	<b>19.8%</b>	<b>19.6%</b>
Charles County	18,058	11.7%	13.9%	21.7%
Frederick County	39,929	16.4%	21.4%	24.2%
Loudoun County	25,837	7.1%	11.9%	8.7%
Prince William County	101,648	22.9%	30.0%	29.7%
Manassas	7,556	18.4%	16.7%	11.0%
Manassas Park	6,765	42.7%	0.0%	42.9%
<b>National Capital Region</b>	<b>1,527,766</b>	<b>28.0%</b>	<b>34.4%</b>	<b>28.7%</b>

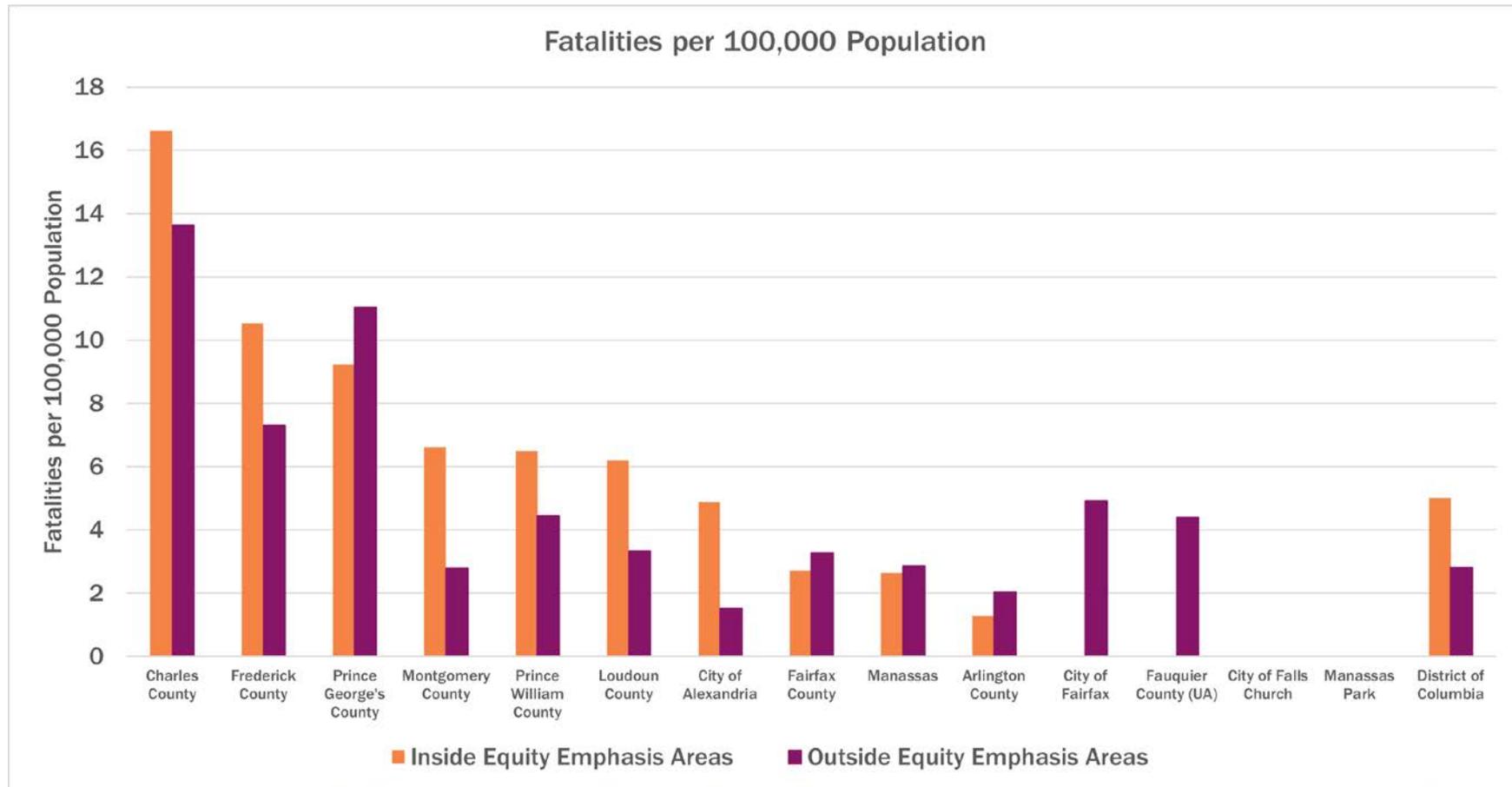
Source data for EEA Populations: Analysis of U.S. Census 2012-2016 ACS 5-year estimates



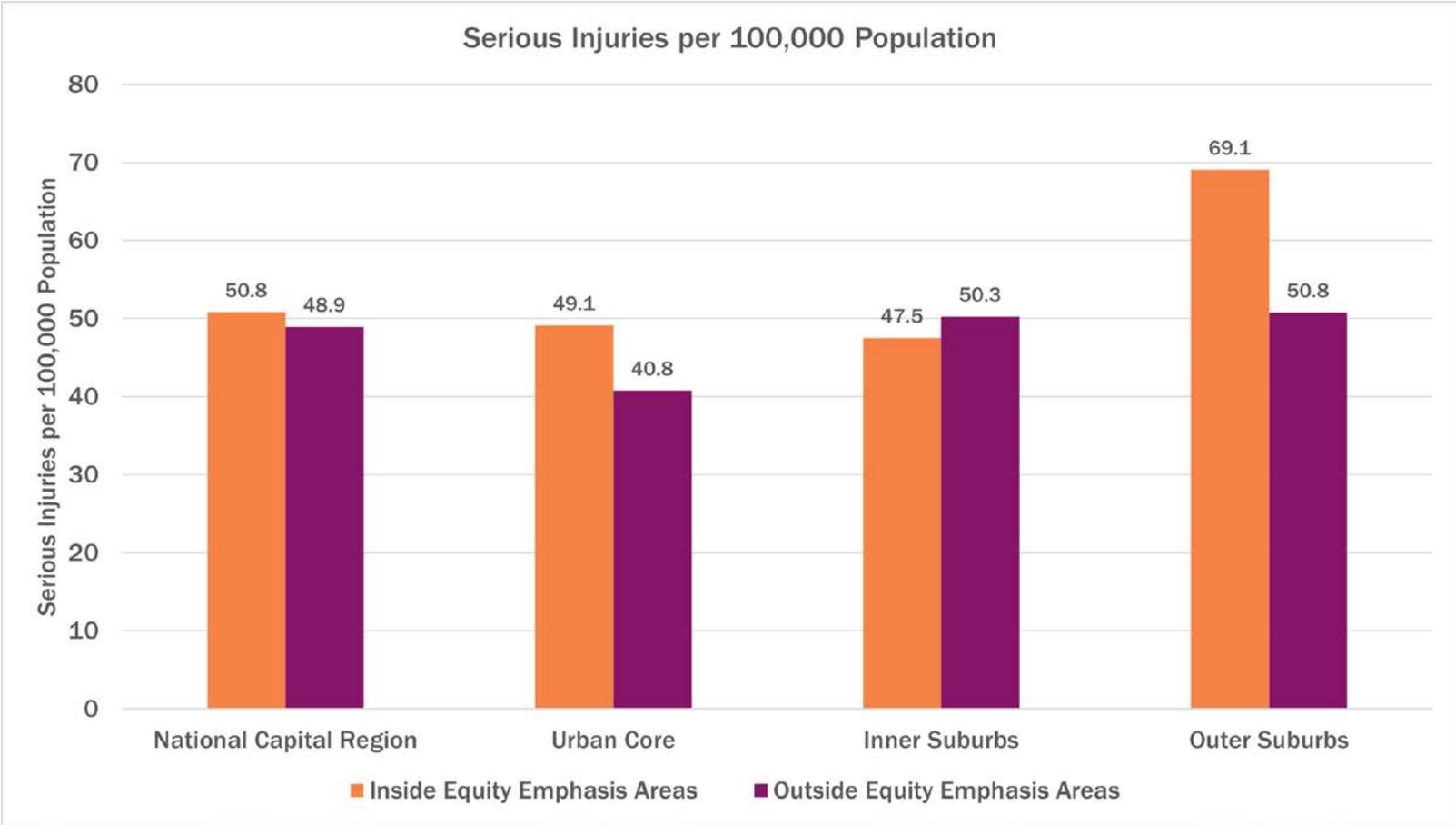
# Fatalities per 100,000 Population (2014-2018)



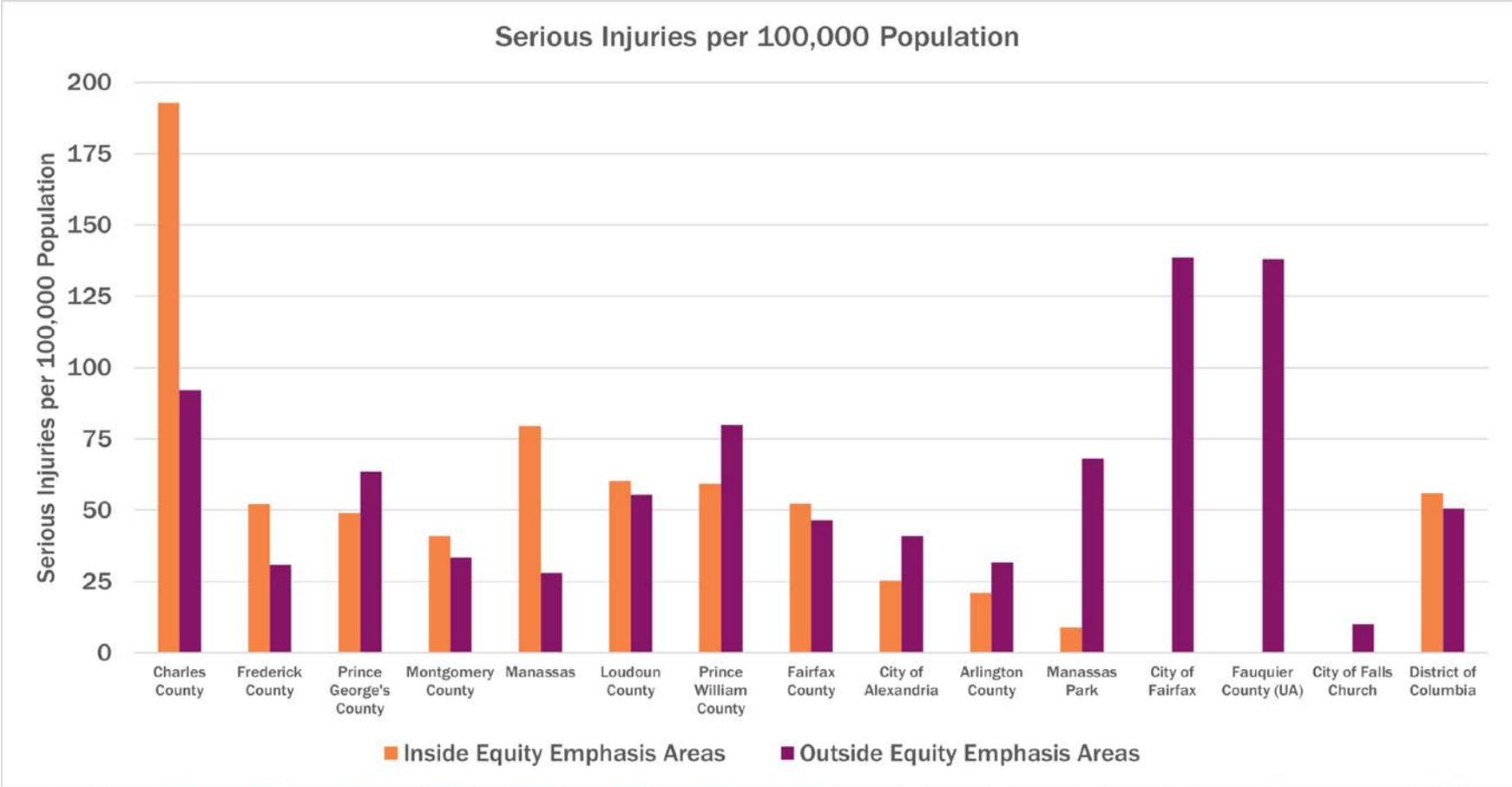
# Fatalities per 100,000 Population (2014-2018)



# Serious Injuries per 100,000 Population (2014-2018)

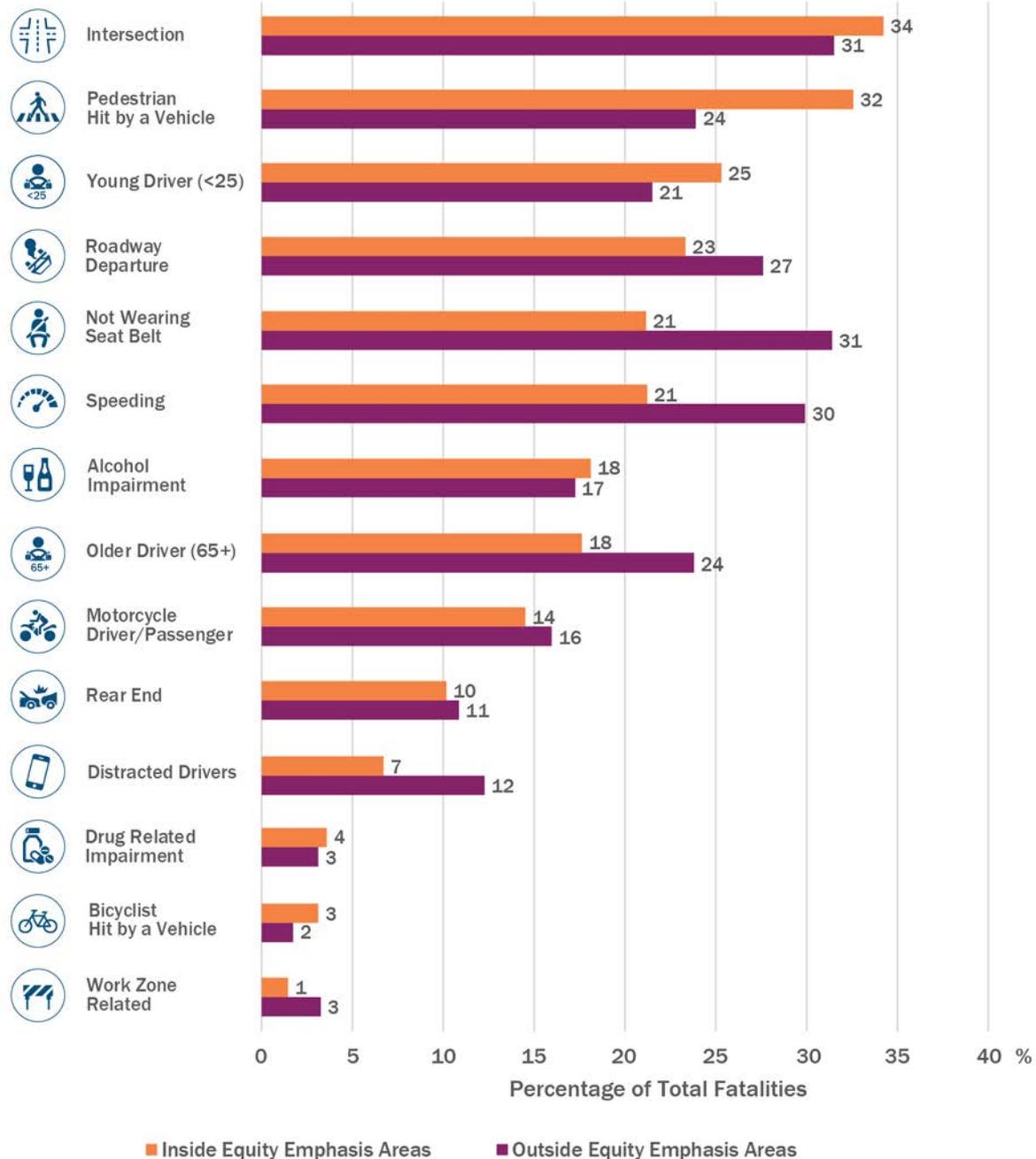


# Serious Injuries per 100,000 Population (2014-2018)



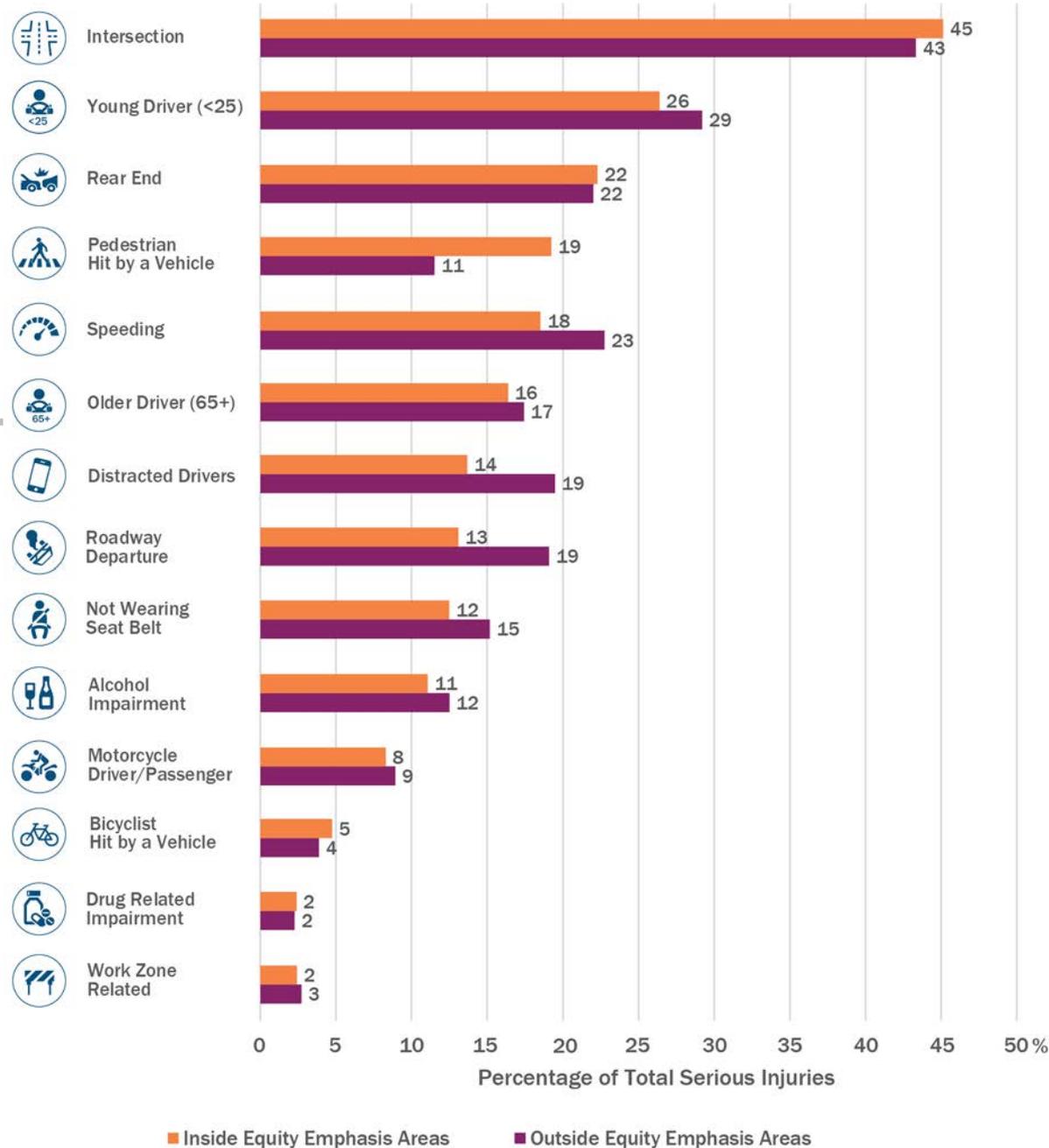
# Contributing Circumstances - Fatality Percentage (2014-2018)

Percentage of Total Fatalities by Contributing Circumstance



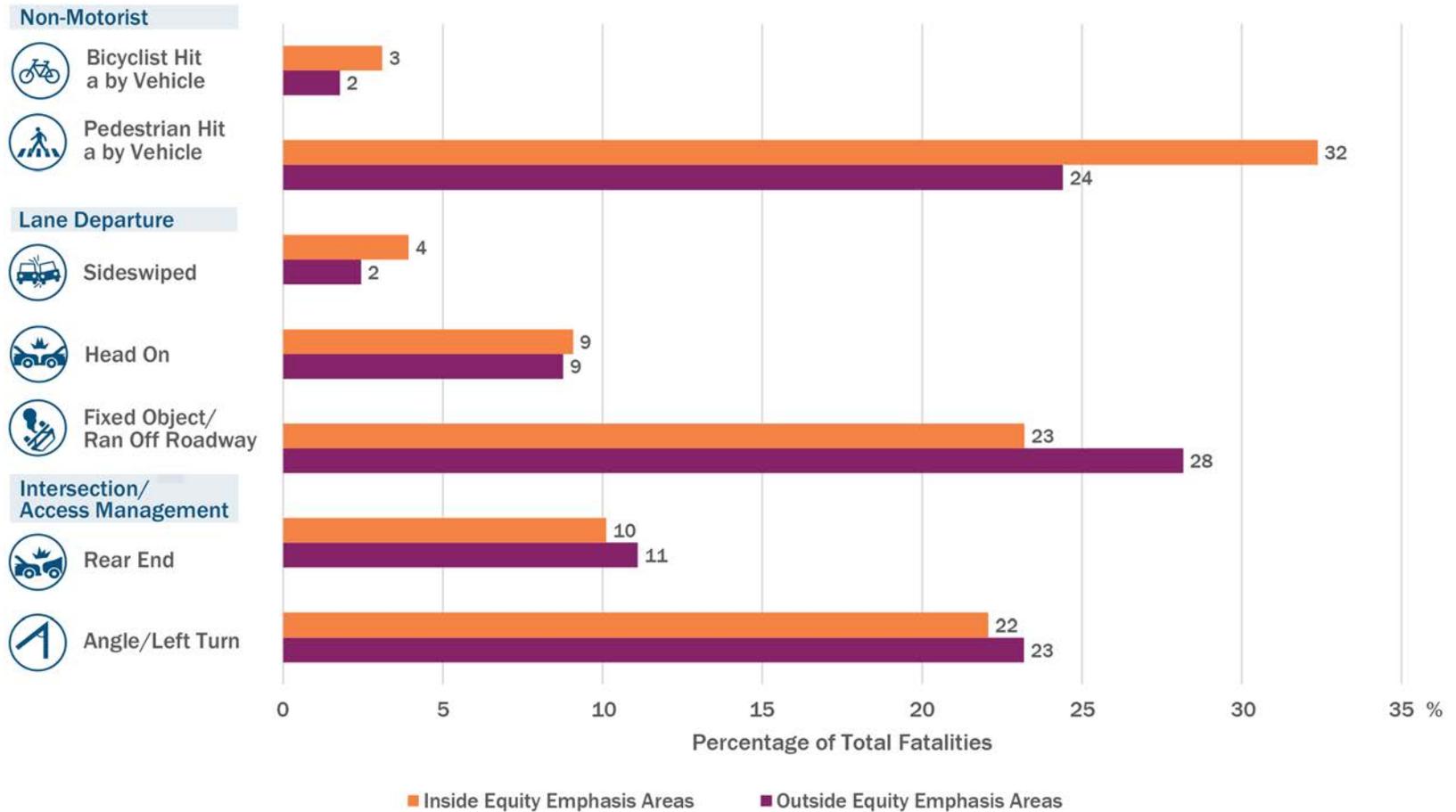
# Contributing Circumstances – Serious Injury Percentage (2014-2018)

Percentage of Total Serious Injuries by Contributing Circumstance



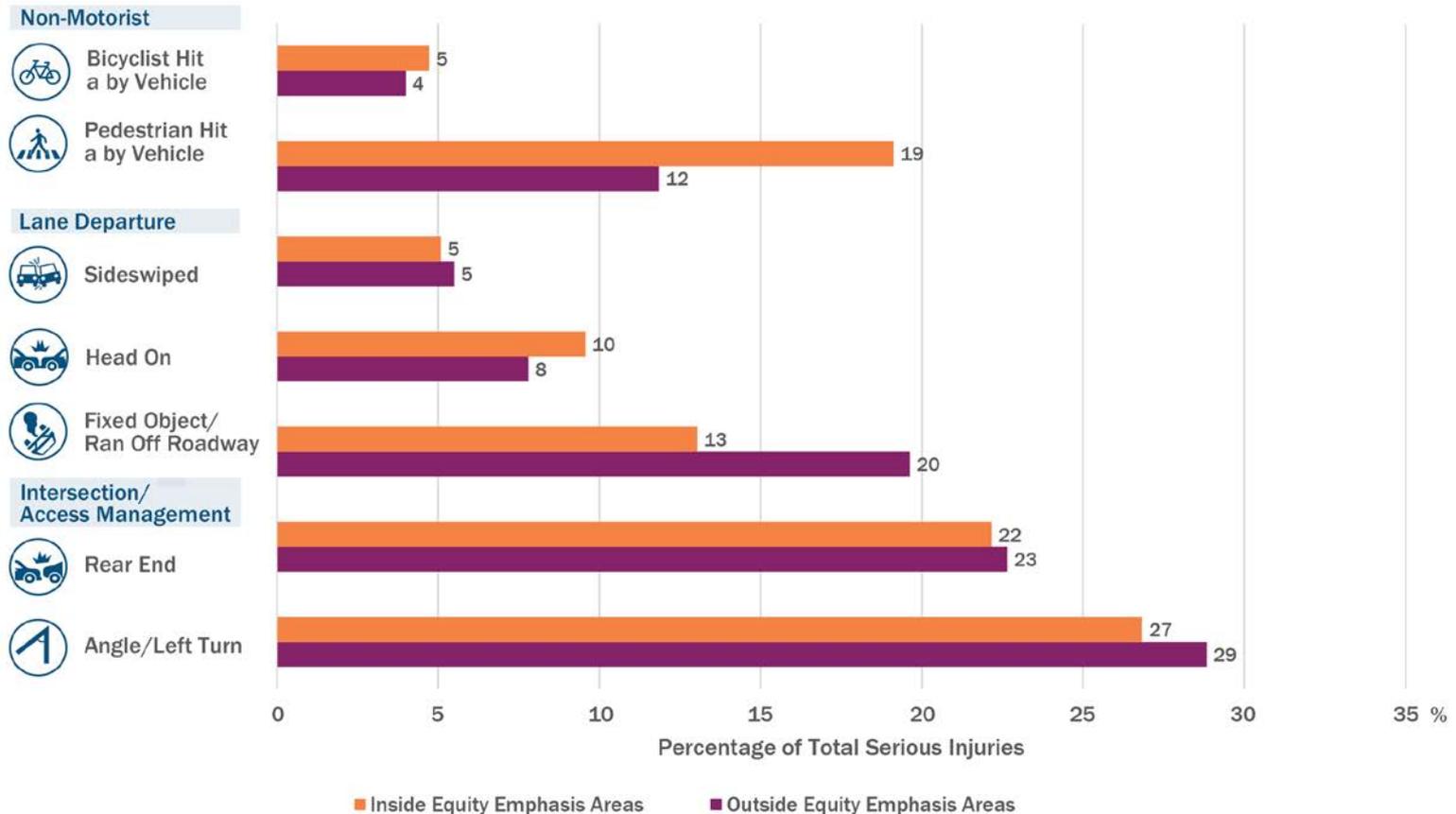
# Crash Types - Fatality Percentage (2014-2018)

Percentage of Total Fatalities by Contributing Circumstance

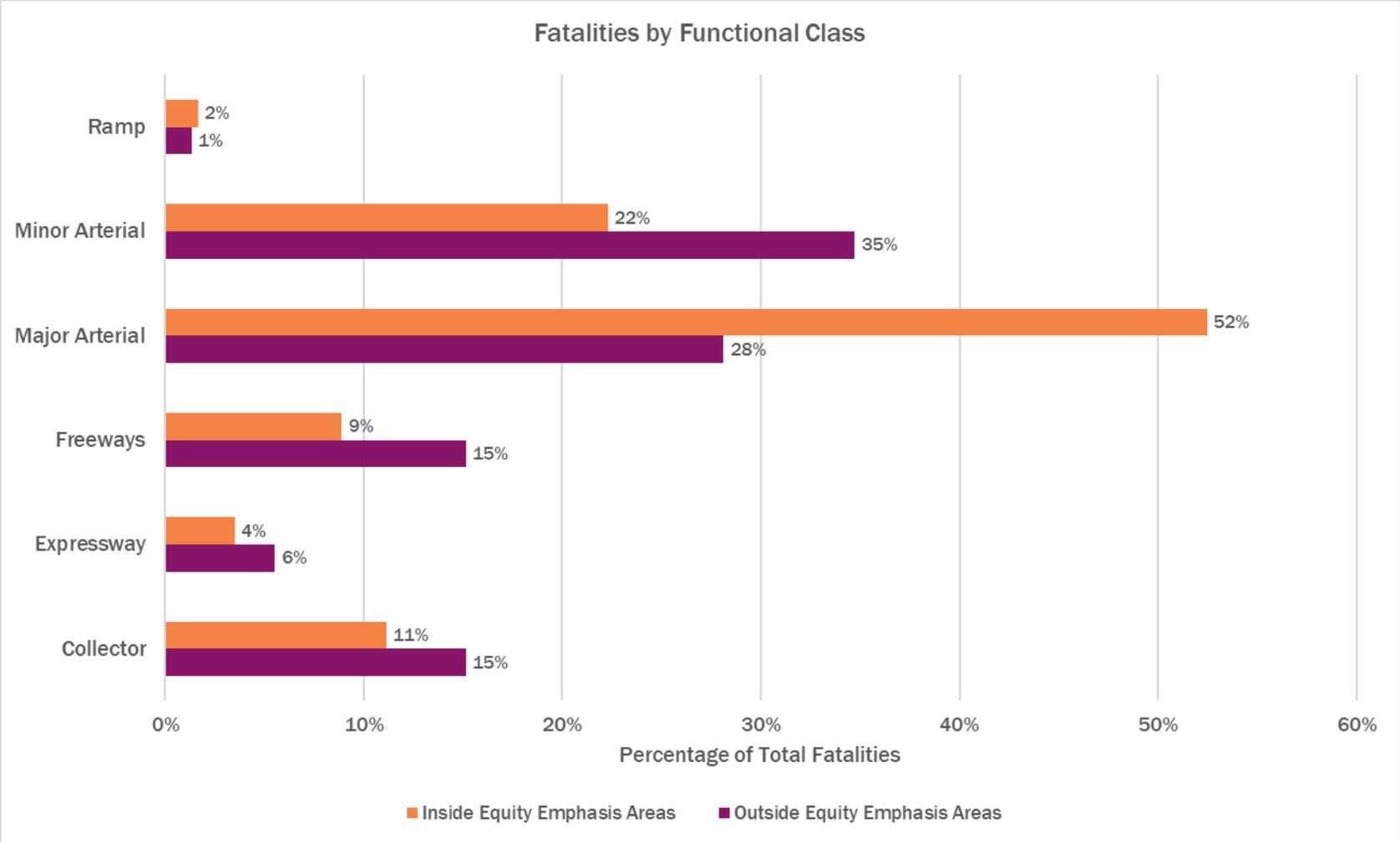


# Crash Types – Serious Injury Percentage (2014-2018)

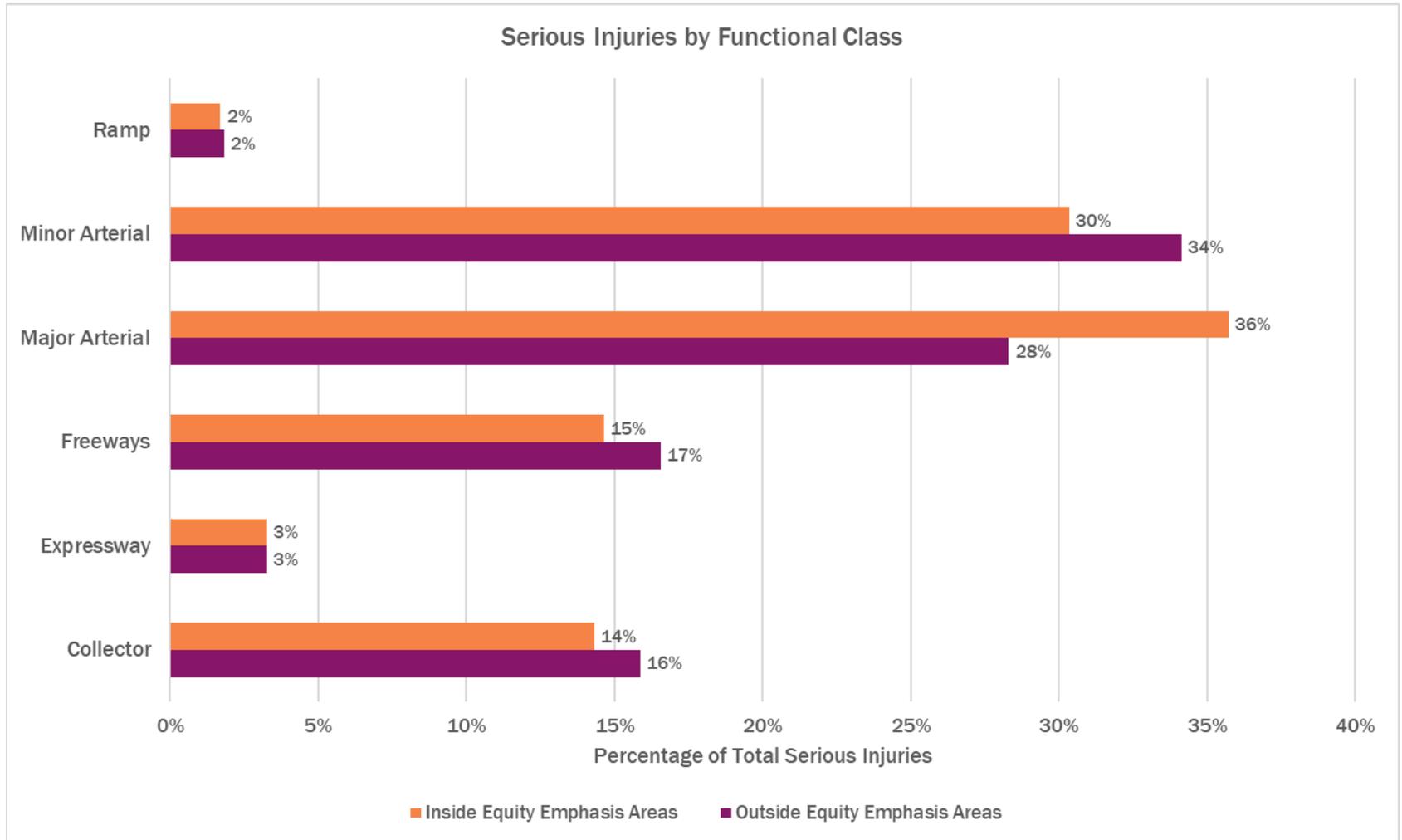
Percentage of Total Serious Injuries by Contributing Circumstance



# Fatalities by Functional Class (2014-2018)



# Serious Injuries by Functional Class (2014-2018)



# Key Takeaways

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- Equity Emphasis Areas:
  - Contain 29 percent of the region's population yet they account for 34 percent of the region's fatalities
  - Have higher percentages of fatalities involving young drivers, pedestrians, crashes at intersections, and crashes on major arterials
  - Have lower percentages of fatalities involving older drivers, excessive speed, fixed objects, and minor arterials



# Key Takeaways

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- Equity Emphasis Areas:
  - Contain 42 percent of the Urban Core's population yet they account for 59 percent of the Urban Core's fatalities
  - Contain 16 percent of the Outer Suburb's population yet they account for 20 percent of the Outer Suburb's serious injuries
  - Have higher fatality and serious injury rates per population in the District of Columbia, Charles County, Frederick County, Montgomery County, Loudon County, and Prince William County



## Cory Hopwood

Traffic Safety Engineer

(646) 364-5502

[chopwood@camsys.com](mailto:chopwood@camsys.com)

[mwcog.org/tpb](http://mwcog.org/tpb)

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Metropolitan Washington Council of Governments

777 North Capitol Street NE, Suite 300

Washington, DC 20002



National Capital Region  
Transportation Planning Board