

KEY TERMS

KSI: killed and severe injury crashes

Vulnerable user: non-motorized road user

Communities of concern: a diverse cross-section of populations and communities that could be considered disadvantaged or vulnerable in terms of both current conditions and potential impacts of future growth (Plan Bay Area 2040)

Indicators of potential disadvantage (IPD): an equity analysis tool developed by DVRPC

RESEARCH QUESTION

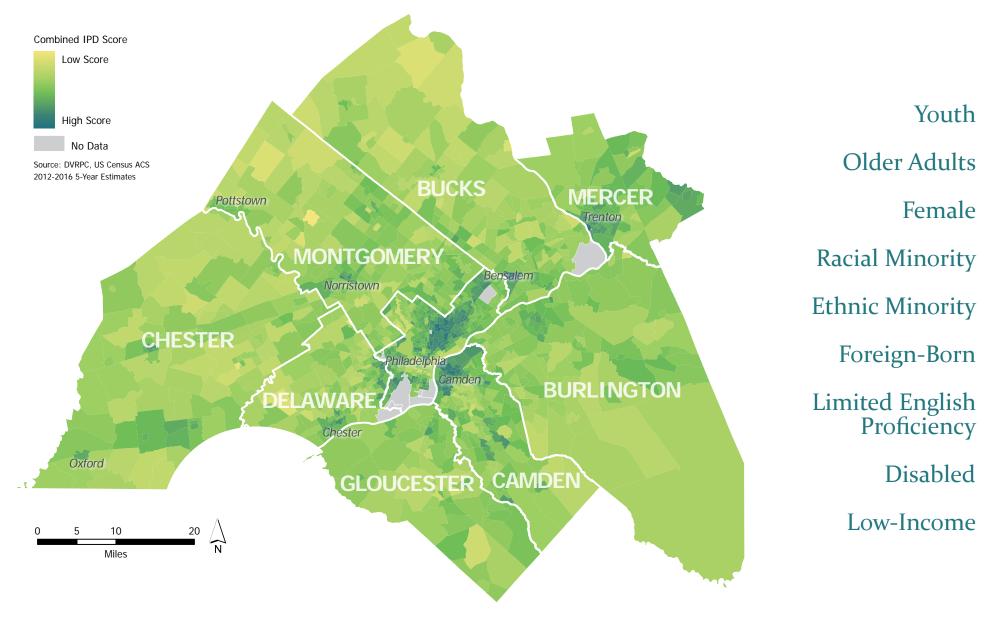
Do **communities of concern** in the region experience **severe traffic crashes** disproportionately and, if so, which populations are at the greatest risk and further, **where** is the impact most critical?

Where you live affects your exposure to health risk. >>

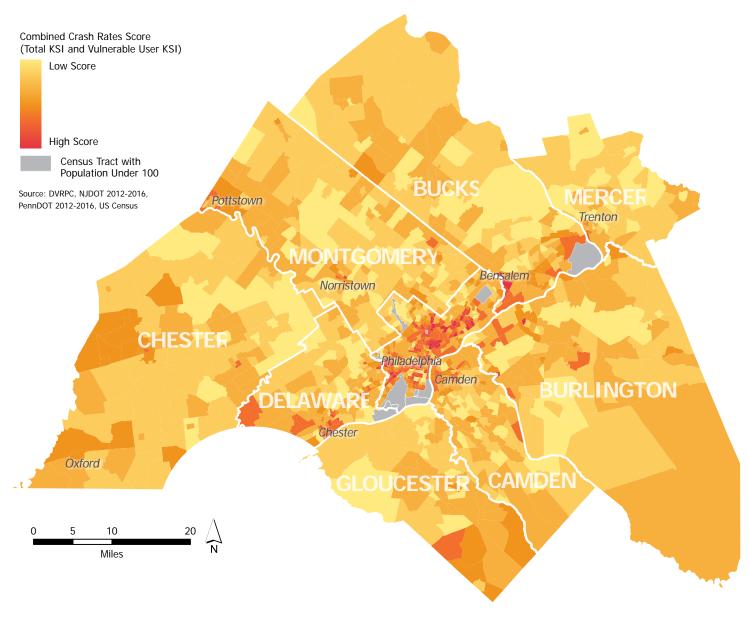
- Dr. Thomas LaVeist, Dean of the School of Public Health and Tropical Medicine, Tulane University



INDICATORS OF POTENTIAL DISADVANTAGE



CRASH RATES



Total KSI normalized by non-interstate VMT

Vulnerable User KSI normalized by road miles

CORRELATION: IPD + HIGH CRASH RATE

IPD	Total KSI Rate	Vulnerable User KSI Rate
LOW-INCOME	0.44	0.49
RACIAL MINORITY	0.35	0.38
ETHNIC MINORITY	0.35	0.29
DISABLED	0.33	0.28
LIMITED ENGLISH PROFICIENCY	0.23	0.29
YOUTH	0.16	-0.09
FOREIGN-BORN	0.03	0.16
FEMALE	-0.01	0.07
OLDER ADULTS	-0.20	0.18
COMBINED IPD SCORE	0.38	0.38



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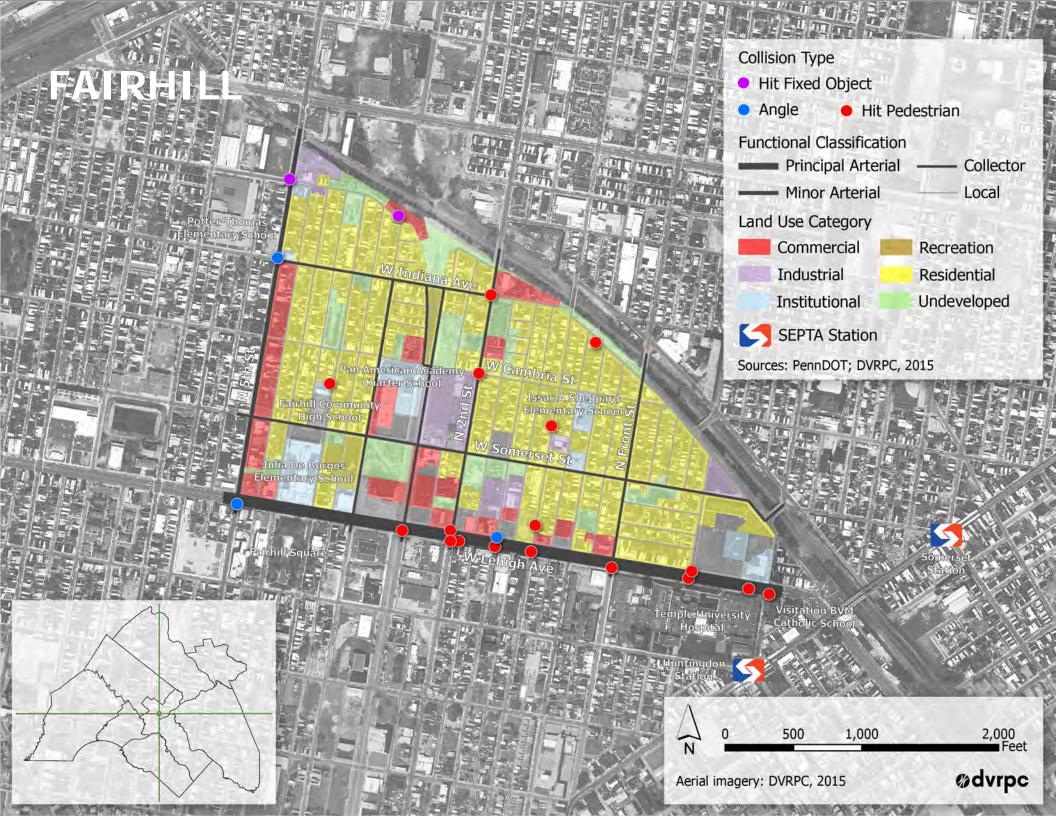


In the DVRPC Region...

43% of census tracts region-wide are above average for at least one correlated IPD

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43% of census tracts region-wide are above average for at least one correlated IPD 91% of census tracts where crash rates are above average are also above average for at least one correlated IPD







TRENDS AND RECOMMENDATIONS

Key issue: wide roads with **fast moving** traffic near **residential areas** where car ownership rates are lower (meaning people are **more likely to walk**)

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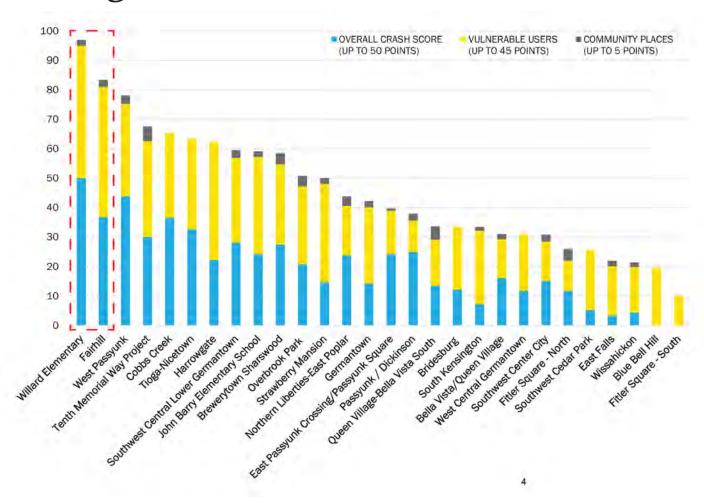
Recommendations:

- Consider **systemic safety measures** to slow traffic in communities of concern
- **Prioritize safety investments** that benefit communities of concern with traffic safety challenges

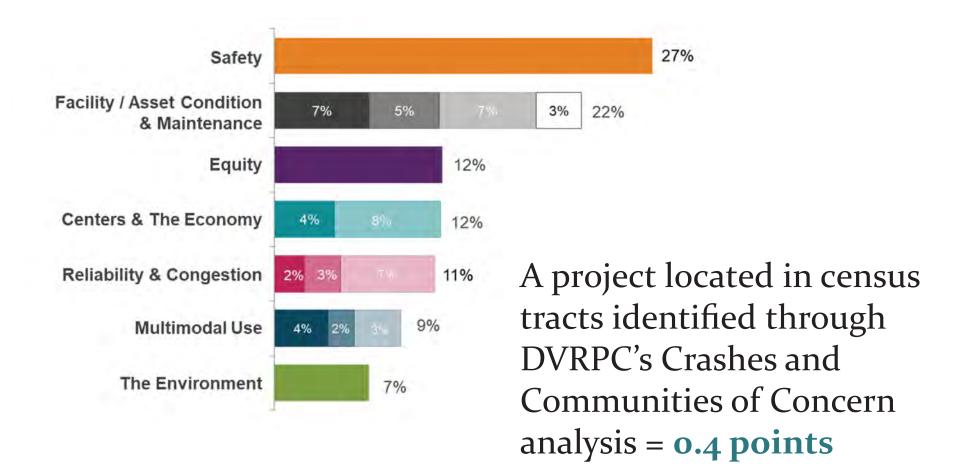
Target safety investments to correlated
 Communities of Concern through score multipliers and similar strategies

- Target safety investments to correlated Communities of Concern through score multipliers and similar strategies
 - » Vision Zero Philadelphia
 - » Transportation Improvement Program (TIP)

 Vision Zero Philadelphia Slow Zone Program scoring criteria



• TIP Project Benefit Evaluation Criteria



To download the full report, visit: https://www.dvrpc.org/Products/

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