



November 1, 2019

PRESENTED TO:

2019 Pennsylvania Health
Equity Summit

PRESENTED BY:

Sarah Moran



BICYCLE LTS

**& CONNECTIVITY
ANALYSIS**



dvrpc



SE PA Suburban Bike Lanes Working Group



PennDOT



Suburban
Counties



Bicycle
Coalition



DVRPC



Level of Traffic Stress (LTS)



LTS	Comfortable Enough For (Cyclist Type)	Characteristics
1	Most People	Lowest stress Comfortable for most ages and abilities
2	Interested, but Concerned	Suitable for most adults Presenting little traffic stress
3	Enthused and Confident	Moderate traffic stress Comfortable for those already biking in American cities
4	Strong and Fearless	High traffic stress Multilane, fast moving traffic





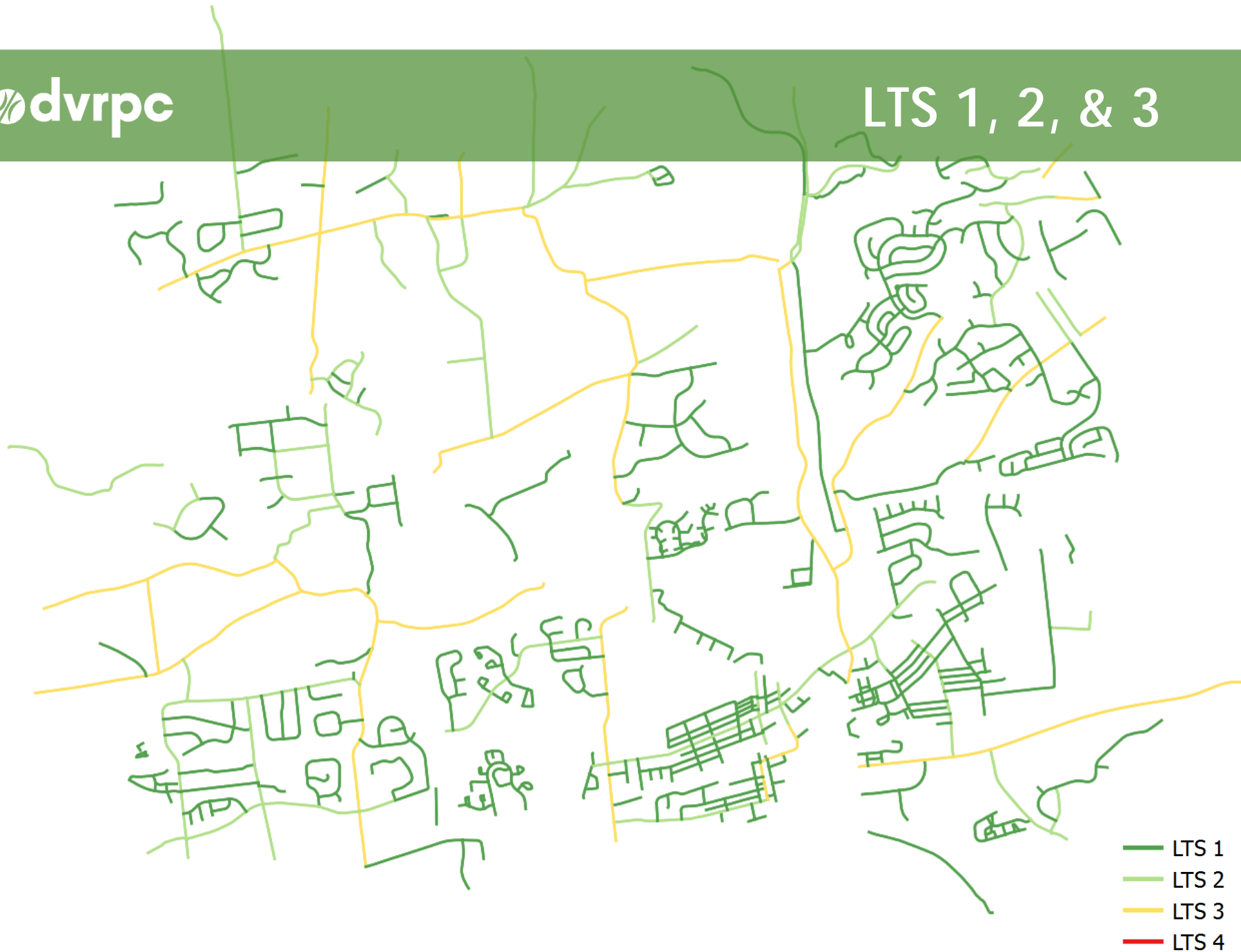


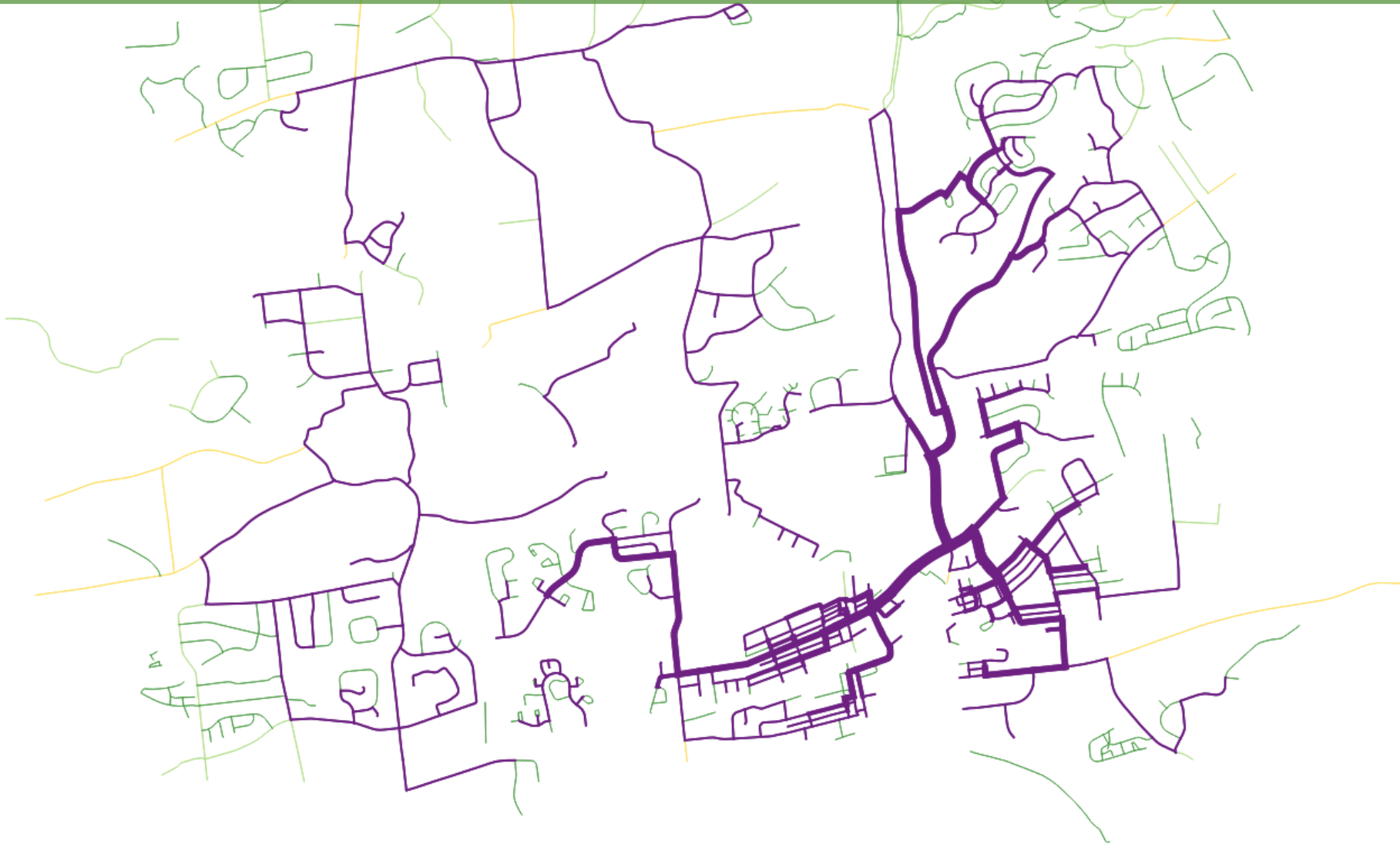
 **dvrpc**

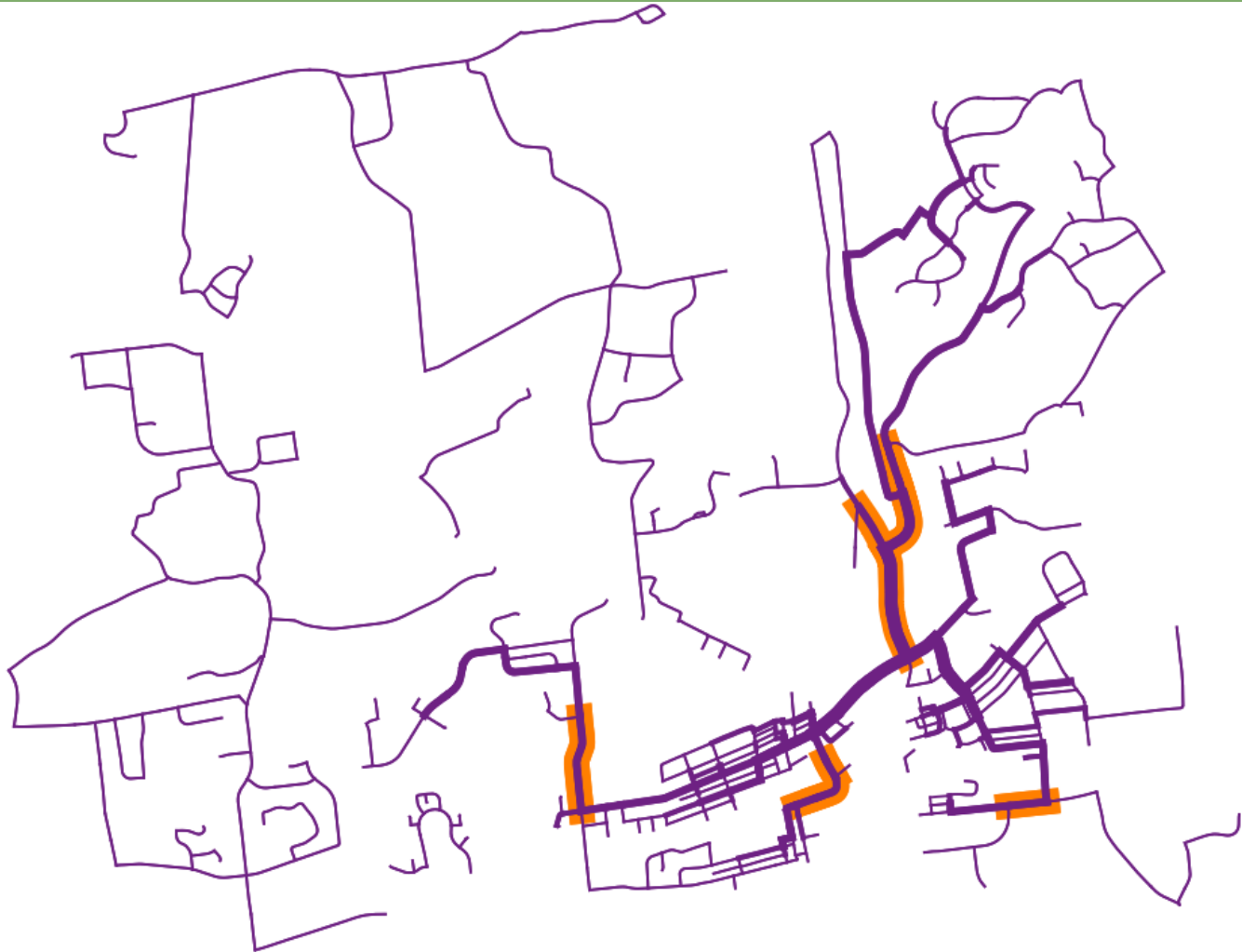


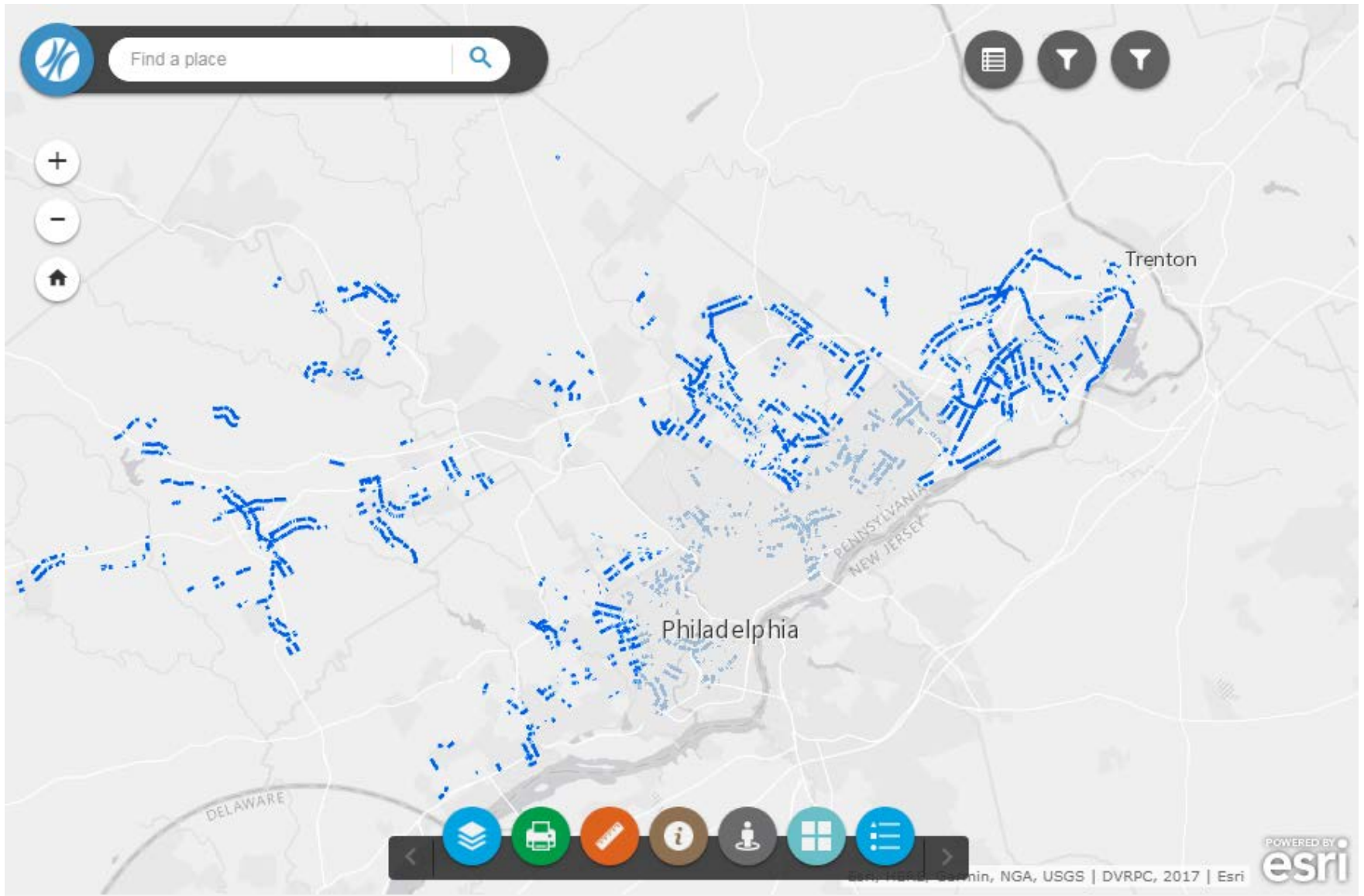


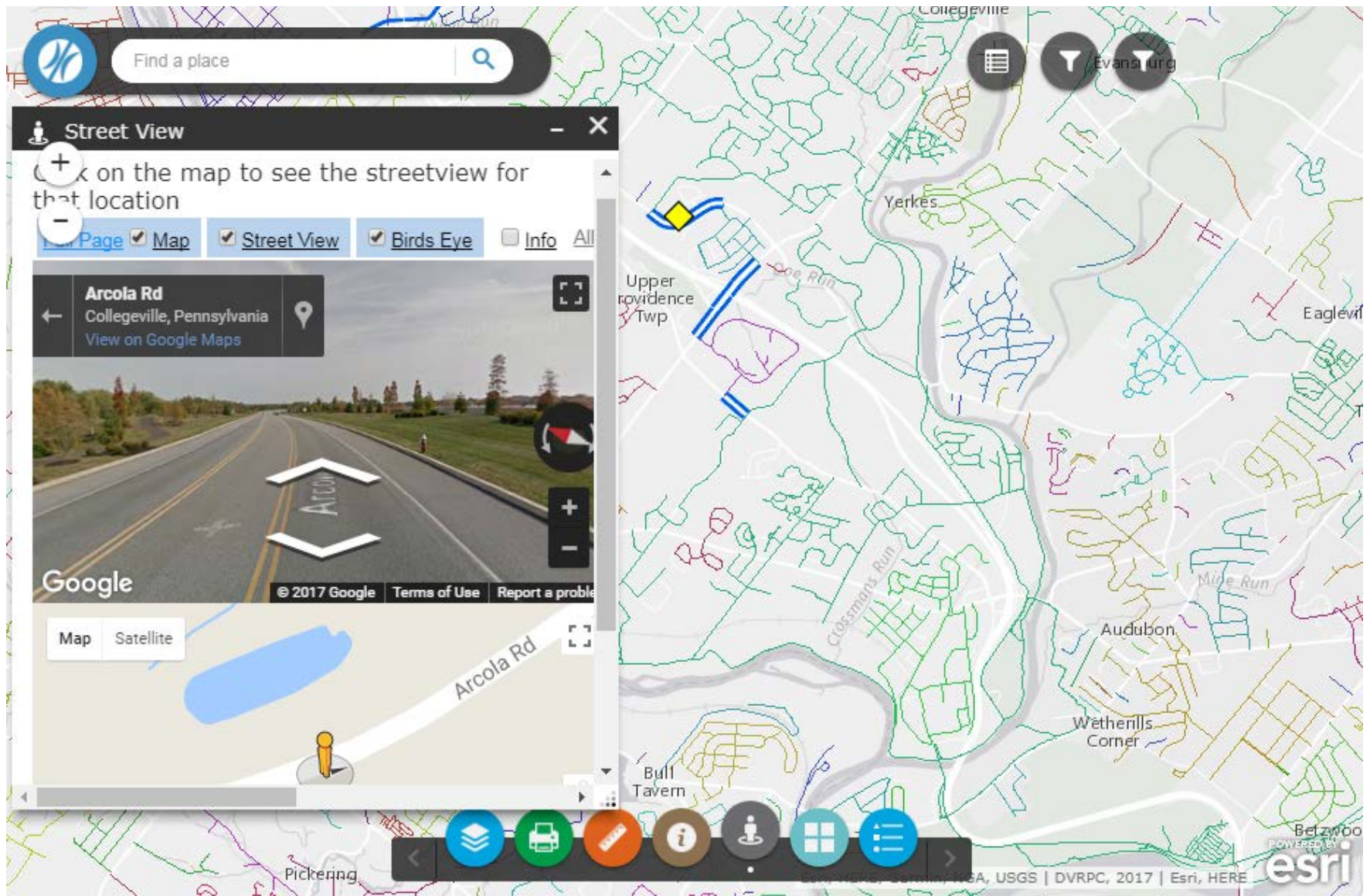
- LTS 1
- LTS 2
- LTS 3
- LTS 4











Community Impact Index (CII)

- Criteria taken into account:
 - Equity -- [Indicators of Potential Disadvantage](#) (DVRPC)
 - Density -- both population and employment
 - Transportation -- distance to circuit trails, proportion of household with 0 vehicles available, distance to transit
 - Health -- obesity rate and rate of respiratory hazards



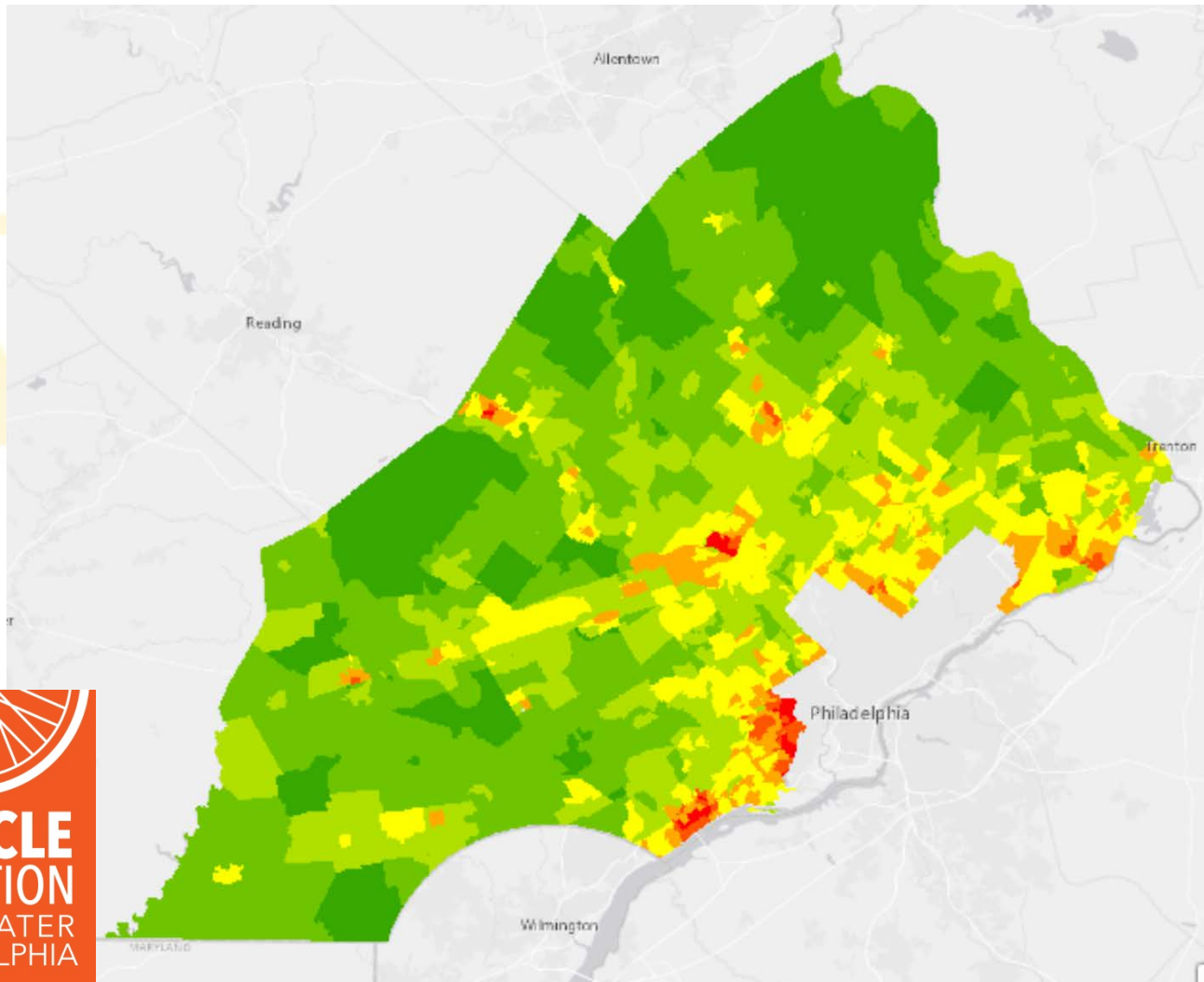
Indicators of Potential Disadvantage



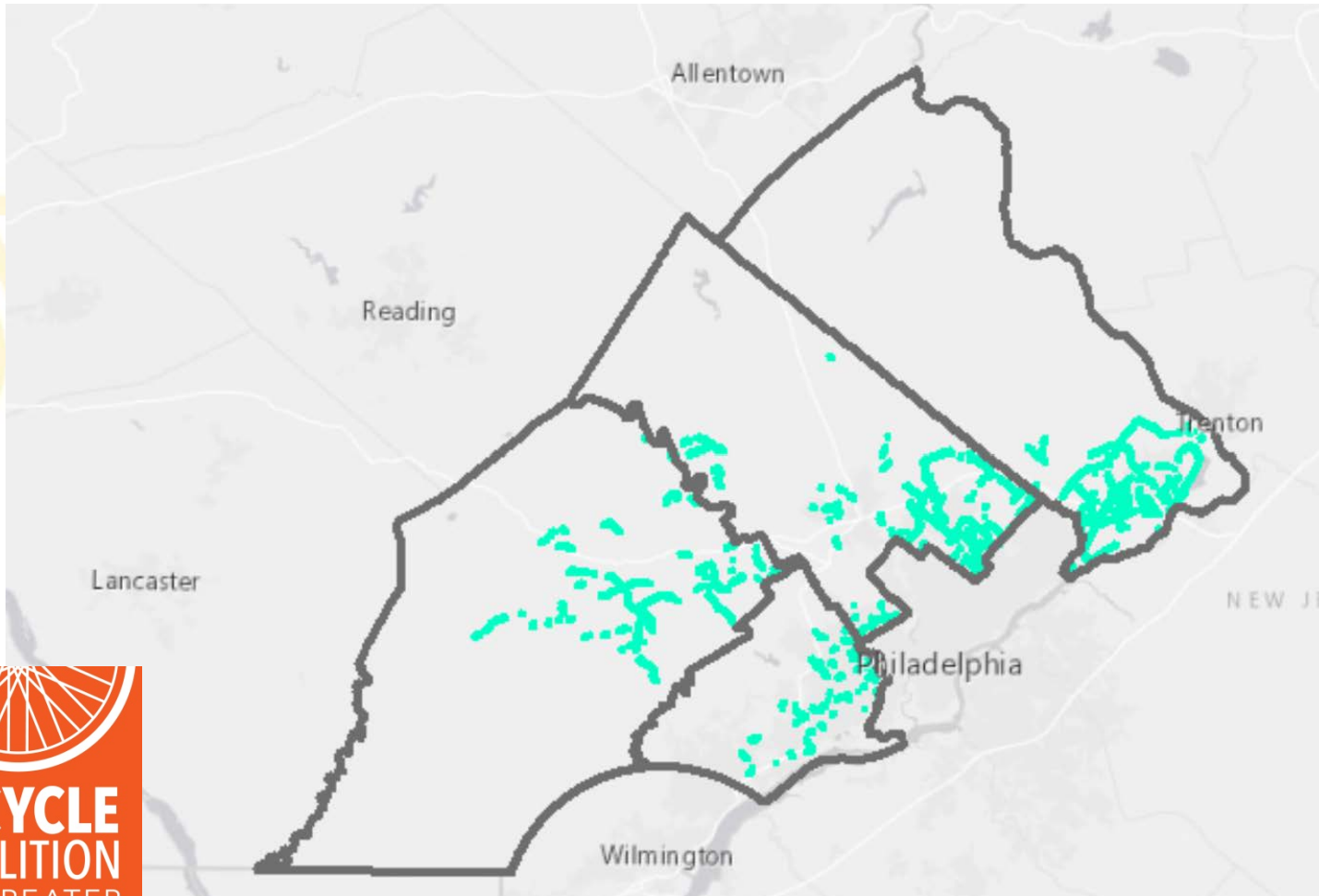
- Identifies populations of interest under Title VI and EJ
- Based on U.S. Census American Community Survey (ACS) 2013-2017 5-year estimates
- Each population group is an “indicator”
 - Youth
 - Older Adults
 - Female
 - Racial Minority
 - Ethnic Minority
 - Foreign-Born
 - Limited English Proficiency
 - Disabled
 - Low-Income



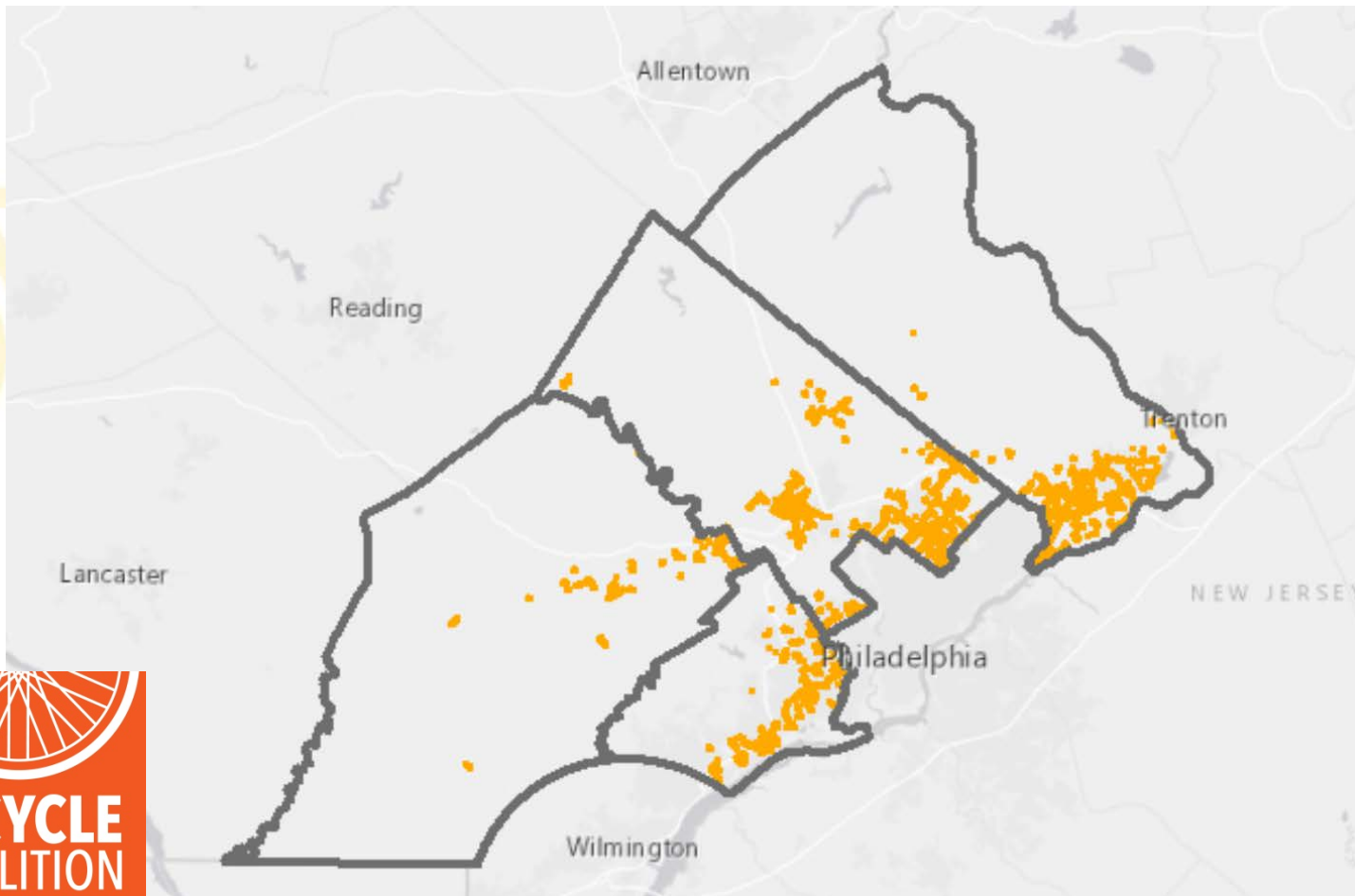
Community Impact Index (CII)



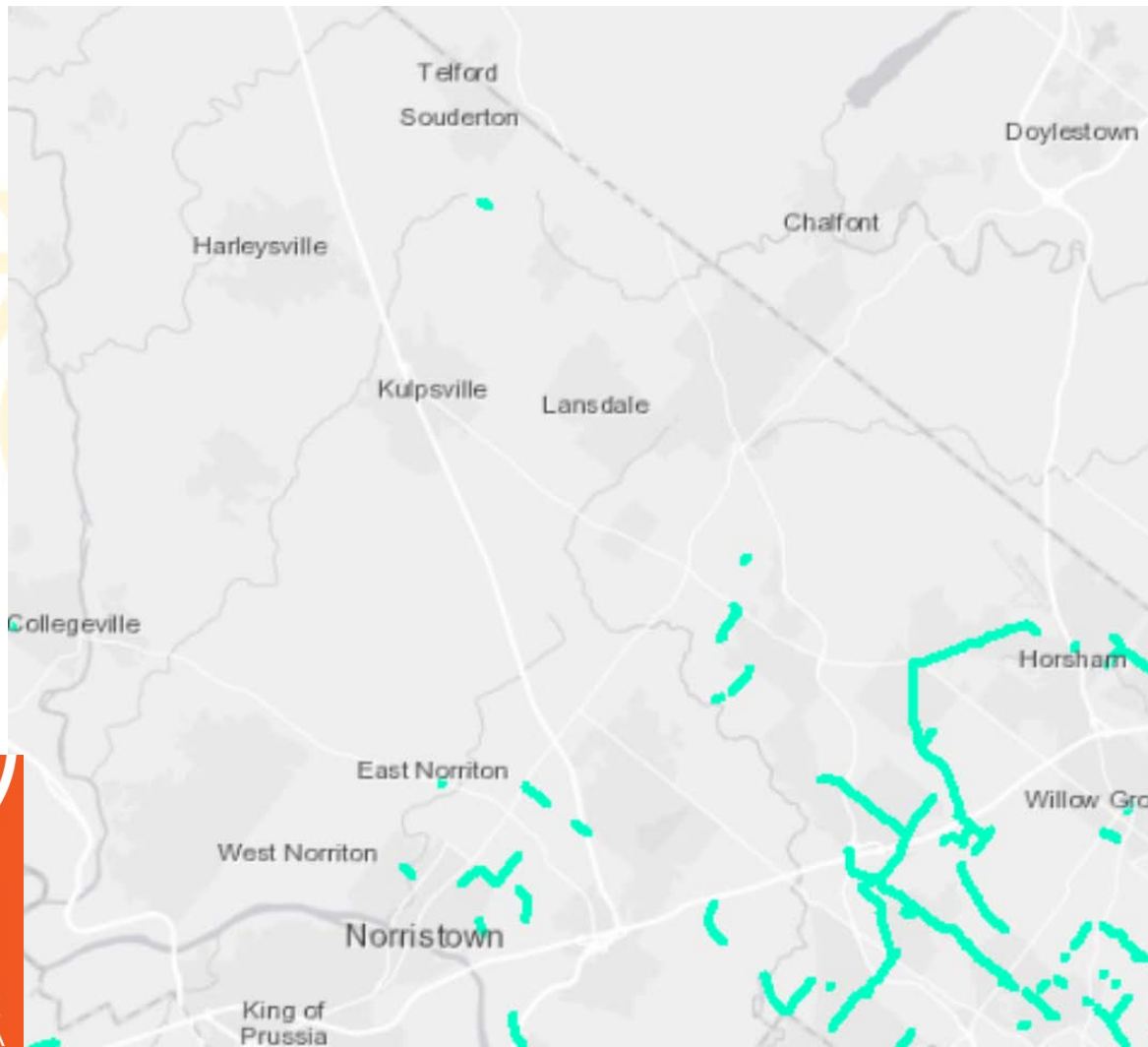
Original Top 10%



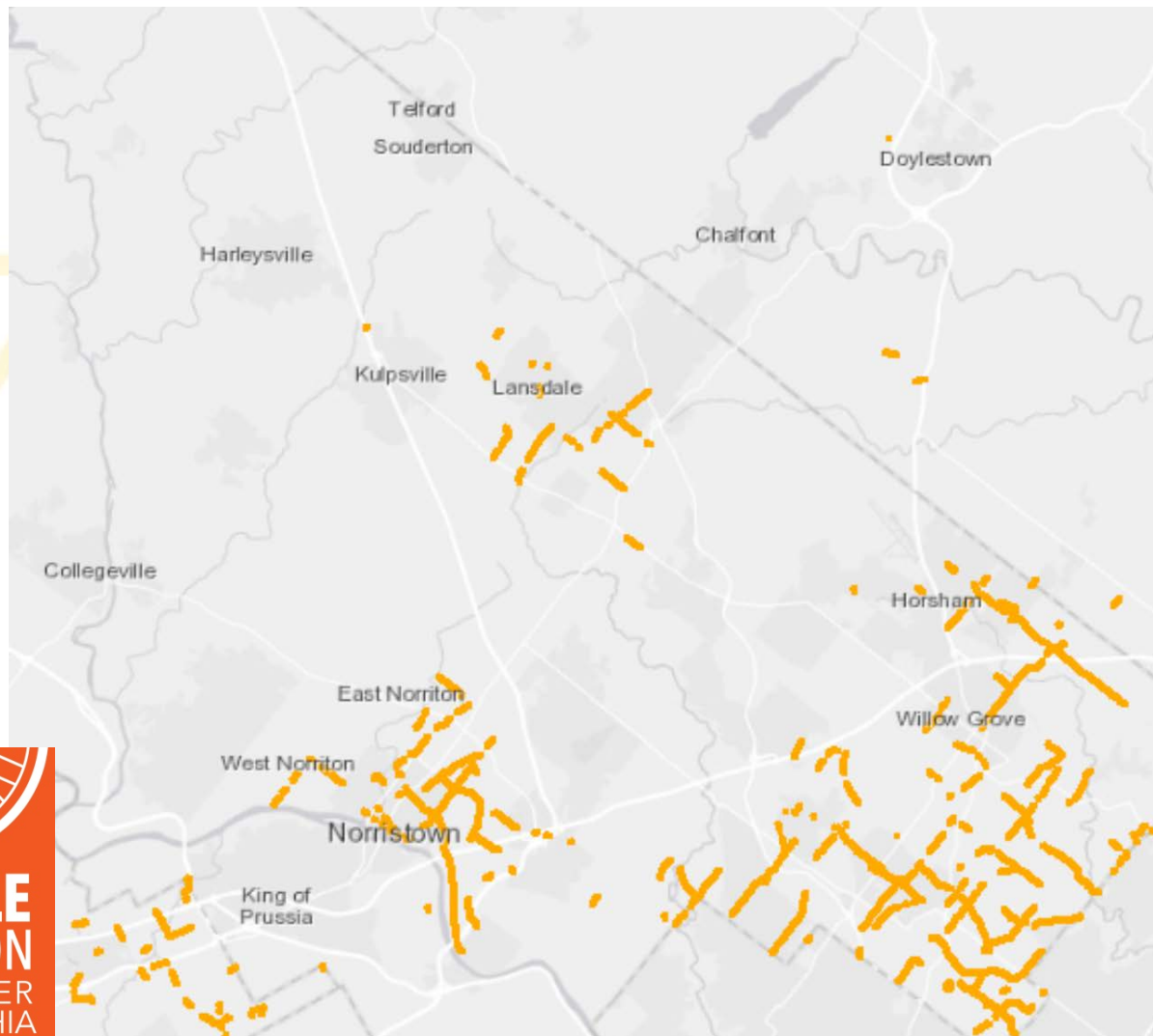
New Top 10%



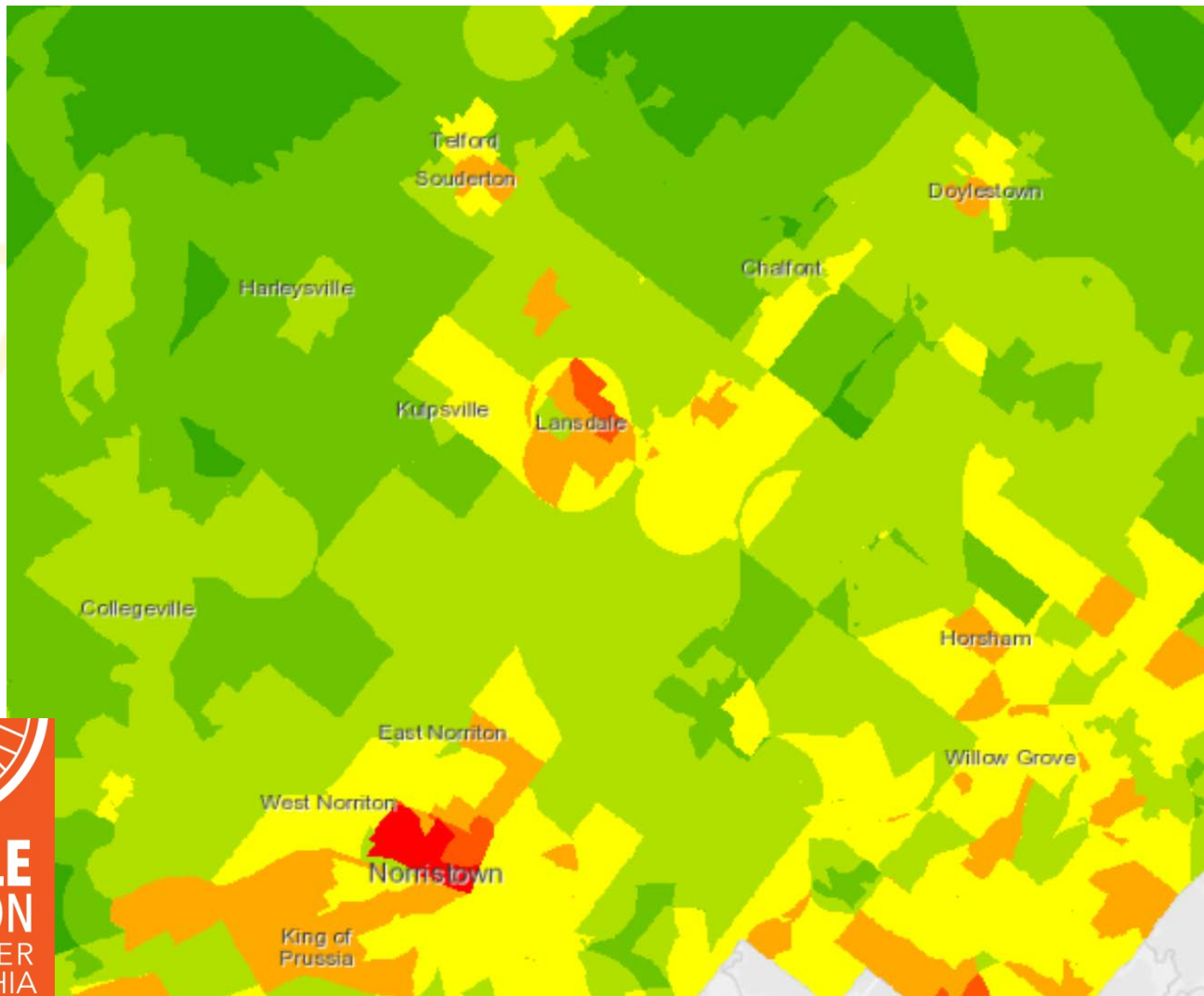
Original Top 10% (details)



New Top 10% (details)



Community Impact Index (details)



Next Steps



- Incorporate CII into shortest path analysis
 - Weight origin and destinations?
 - Weight area covered by islands?
- Include the entire DVRPC region





Questions?

Sarah Moran, AICP
Manager, Corridor Planning
Programs
smoran@dvrpc.org



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www.dvrpc.org/webmaps/BikeStress/

