

December 5, 2022

Examining the Environmental Legacy of White Flight

Davis Cover

Background

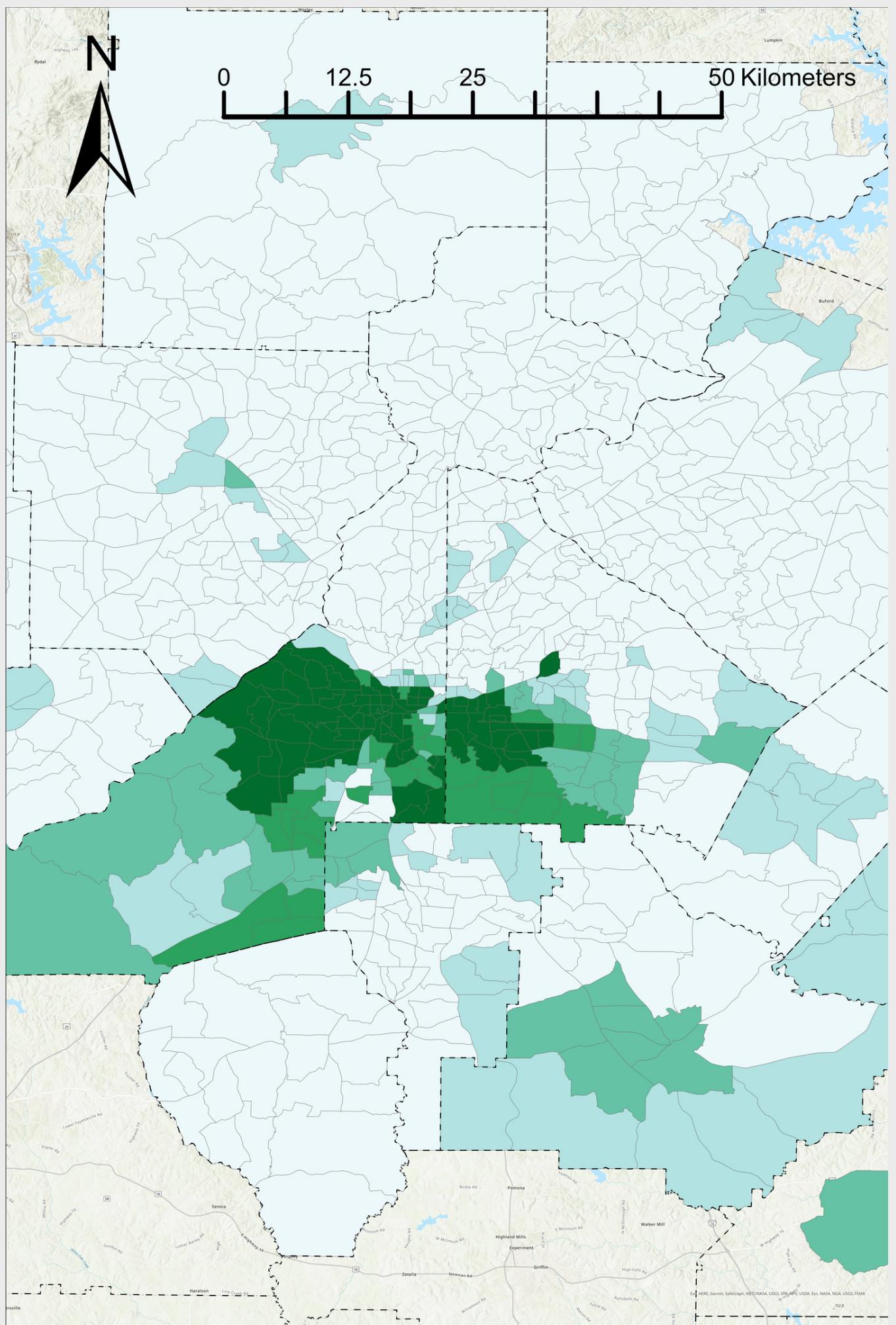


How Jackson
became a
city without
water

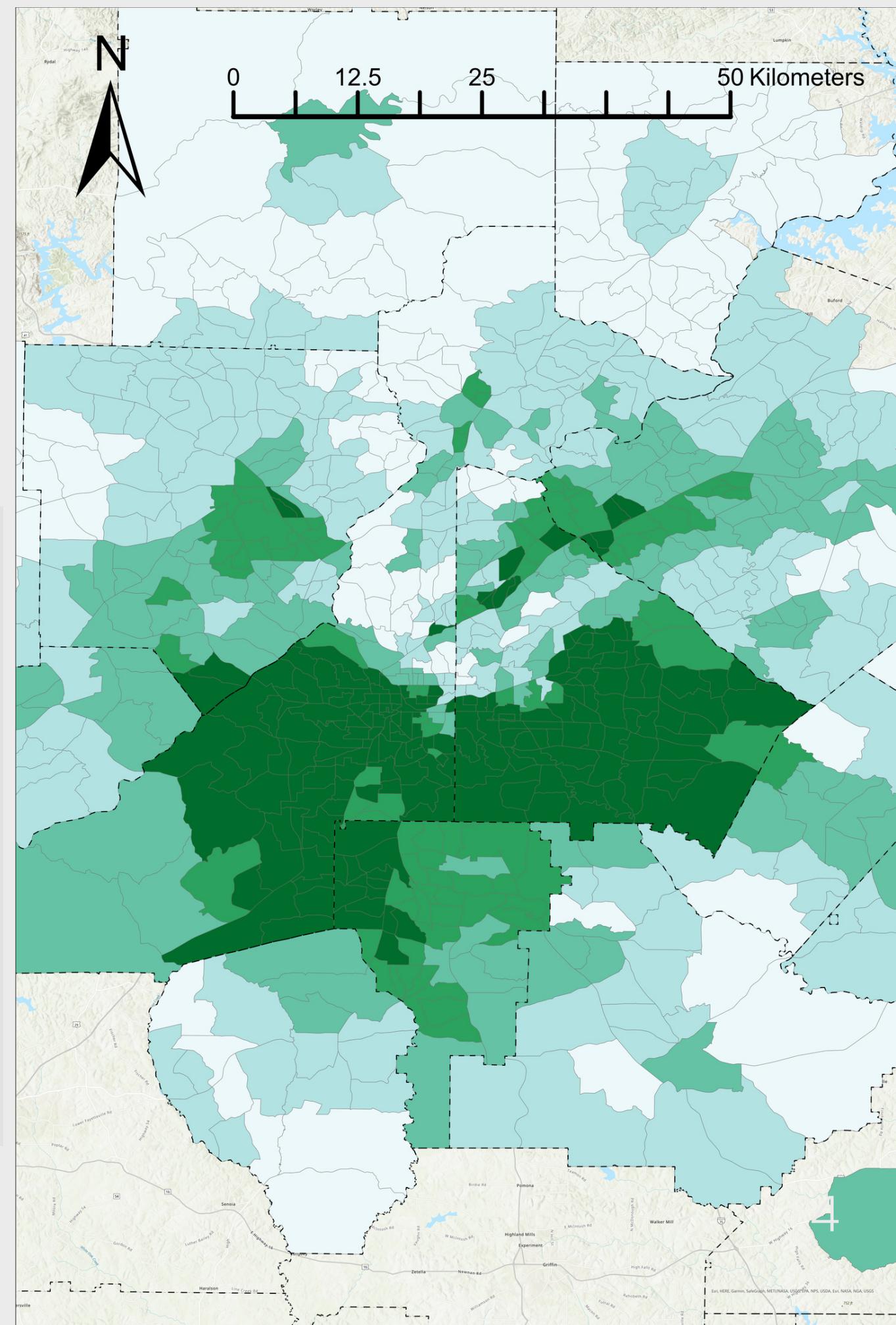
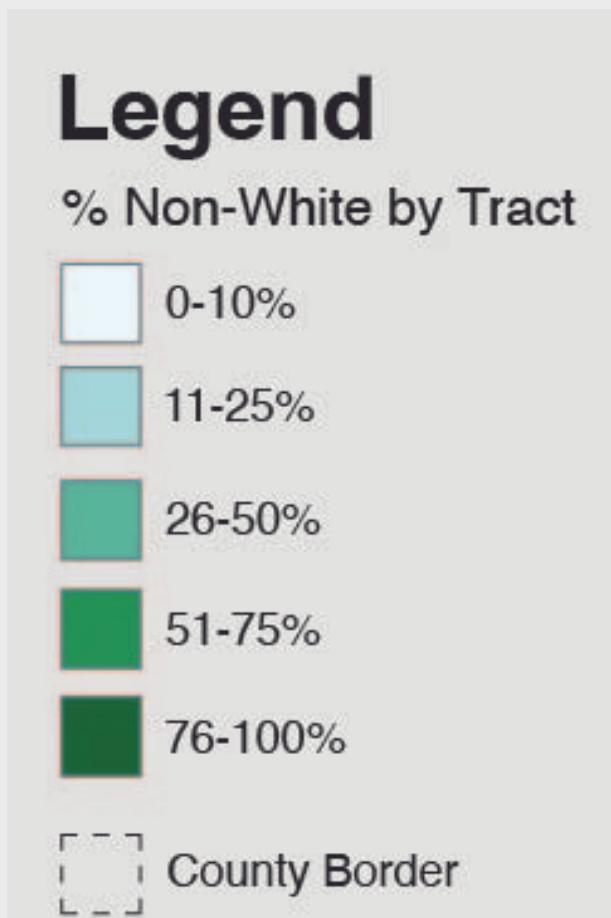
White flight and
the departure of
the Black middle
class propelled
the crisis

(Joshua Lott/The Washington Post)





1980 Demographics

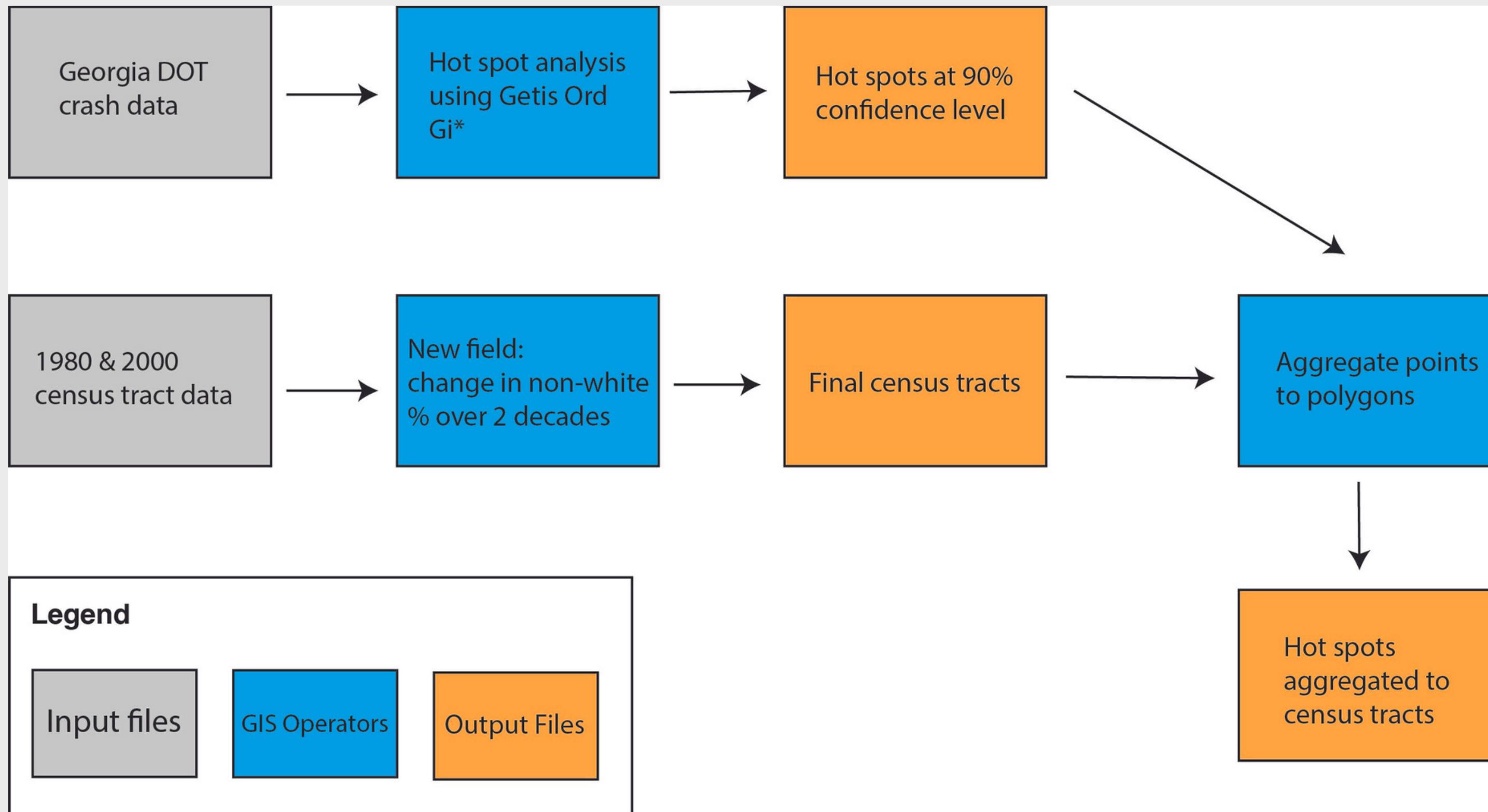


2000 Demographics

Data

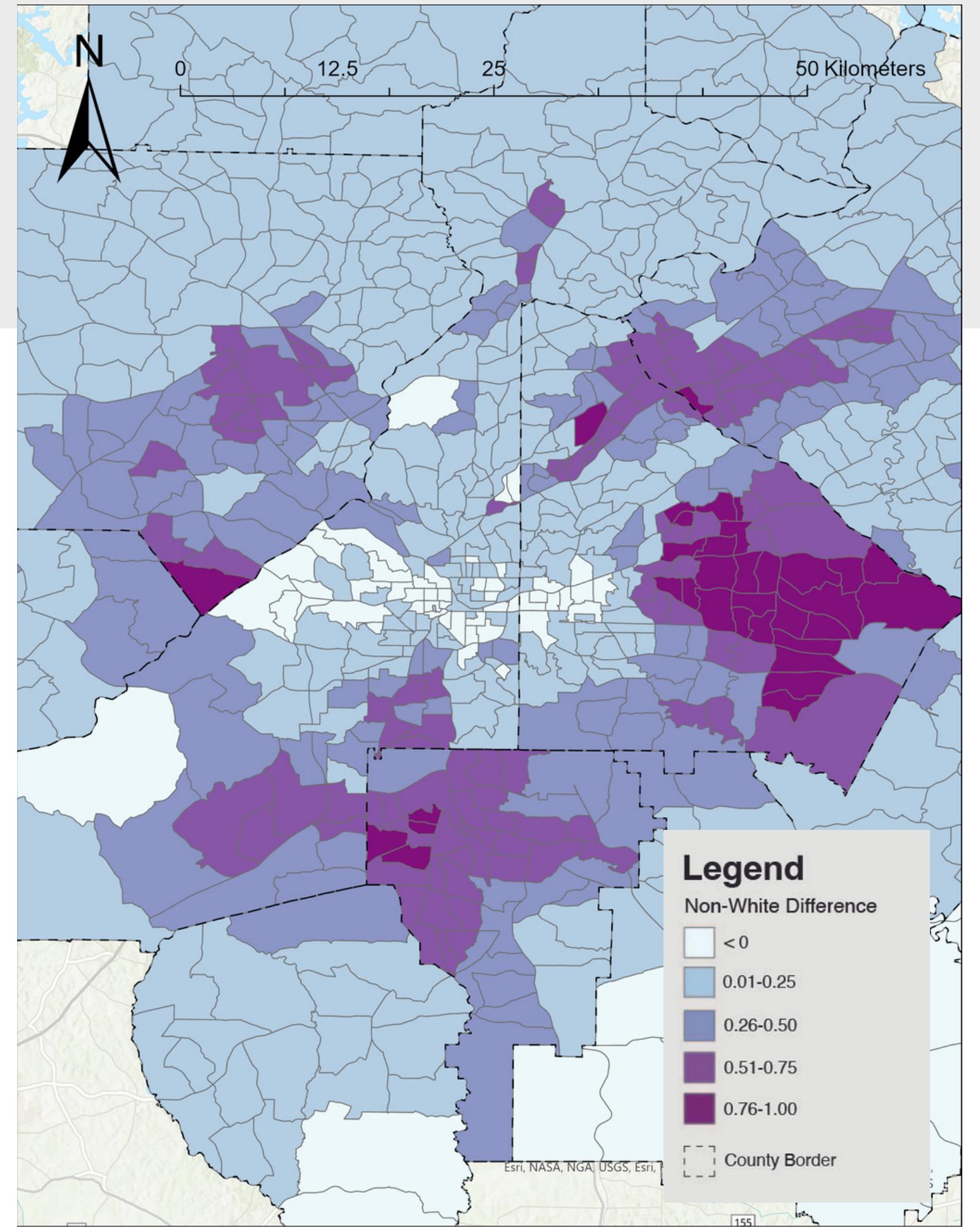
- Crash data: Georgia Department of Transportation
 - Pedestrian-car collisions from January 1, 2016 to December 31, 2021
- Demographic data:
 - 1980 & 2000 US Census gathered from the Geolytics dataset via the McGill library
 - Contained all race and income data within 2010 census tract boundaries
 - 2020 US Census data gathered from the US Census Bureau

Cartographic Model/Methods



Initial Findings

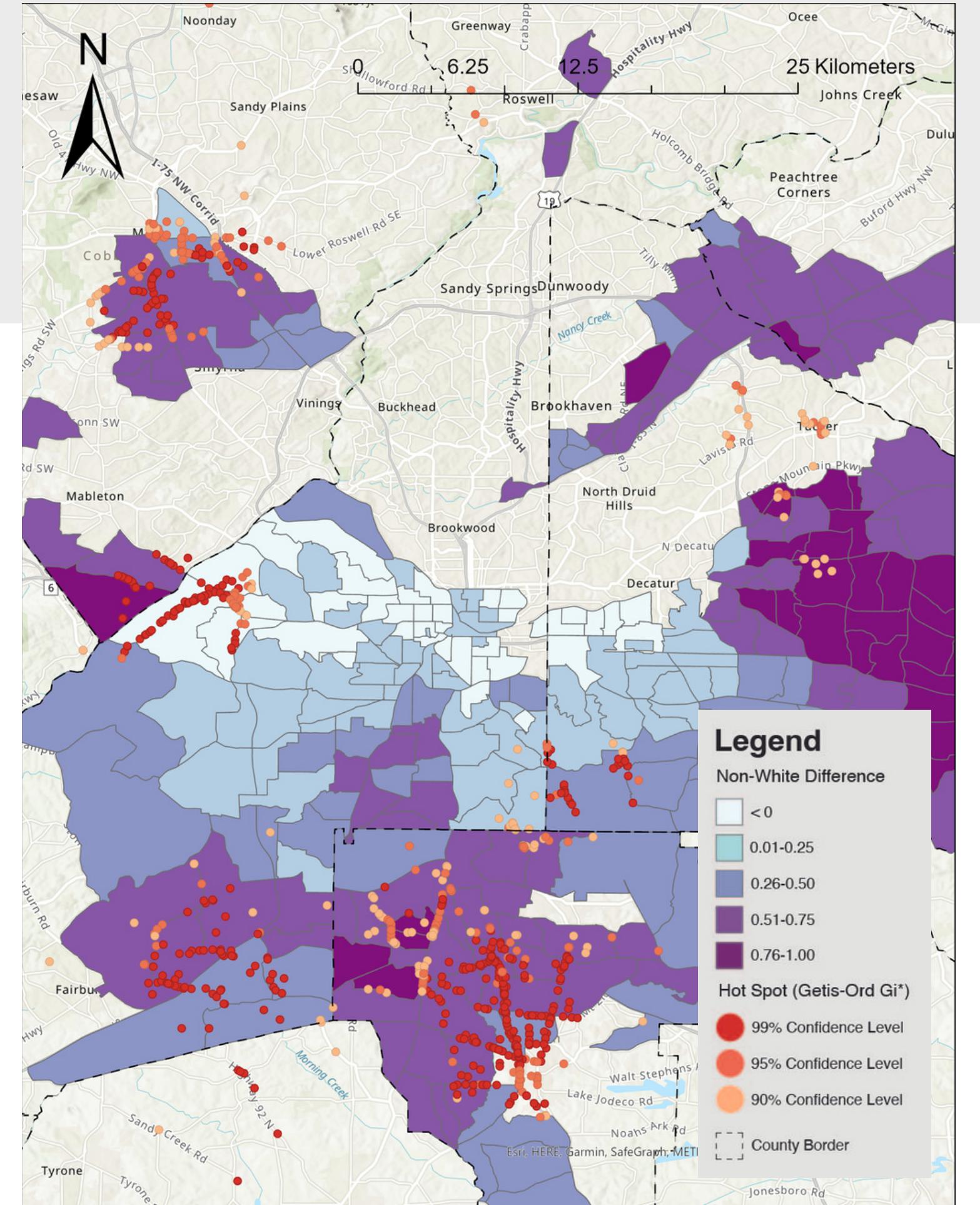
- Mean differential: 0.23 percentage points
- Initial Statistical Analysis:
 - Multiple Regression
 - Non-White population in 2000 was a statistically significant predictor of pedestrian fatalities within a census tract
 - Holds true even when controlling for average household income in 2000



Non-White Differential: 2000 vs 1980

Initial Findings

- Hot Spot Analysis Points:
 - Mean differential with 1+ points in a hot spot: 0.33
 - Non-White Majority Tracts: 0.51
 - Mean differential with above-average points: 0.49
 - Non-White Majority Tracts: 0.49



Non-White Differential: 2000 vs 1980

Thank you