# Early Insights - Team 2

## **Gun Violence in Southwest DC**

## Goals

## Overall goal:

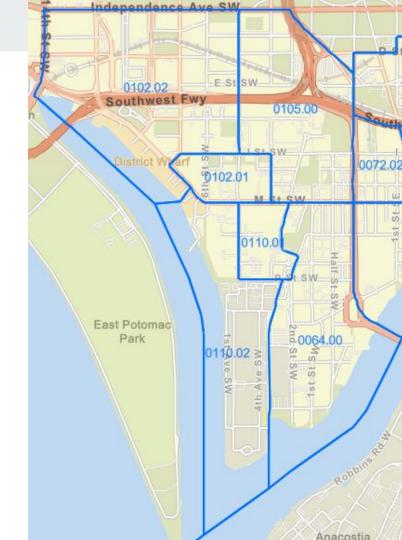
- Reconnect middle class and low income community
  - this requires the gun violence issue to be solved
  - people shouldn't be scared to walk down the road in certain parts of the Southwest District
- Convince businesses/funders to get rid of violence for their benefit
  - build a workforce in the district

### Our goal:

- Create data dashboard that showcases
  - disparity
  - evidence of (gun) violence

# Necessary Background Knowledge

- The Southwest District has seen a lot of change in the last few years and certain areas have been completely overhauled (construction of wharf, stadiums, etc.)
- This has caused a clear distinction between the west and the east part of the district
  - specifically, Tracts 102 and 110 on the west, and Tract 64 and 105 on the east



# Approach thus far

#### What have we done so far?

- focused on Demographic & Economic Vitality data
- looked for interesting correlations between variables, especially through the lens of race and gender
- began visualization and interpretation of certain variables and findings

#### How did we divide the work?

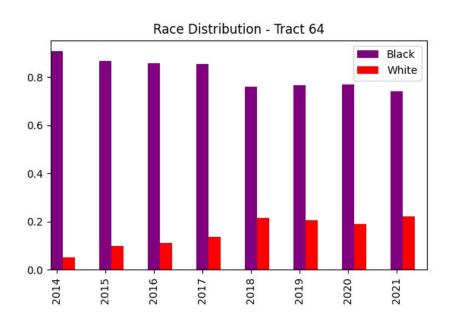
- in team meetings, we agree on interesting subvariables of bigger topics and divide them among ourselves for further inspection
  - for example: for the topic of Economic Vitality, we decided that income would be interesting to look at, especially when looked at in relation to race and gender → one person gets this task
  - we all perform our analysis on our task and try to produce a few interesting visualizations

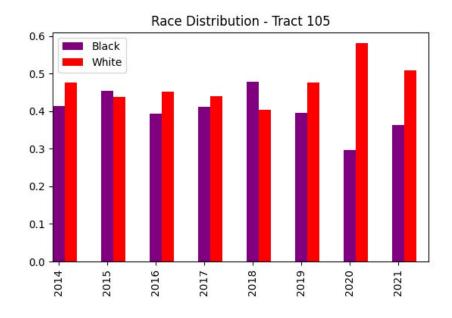
# Approach thus far

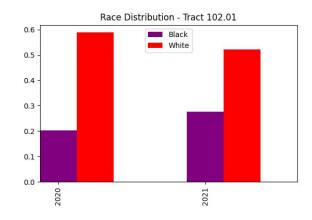
What data have we used?

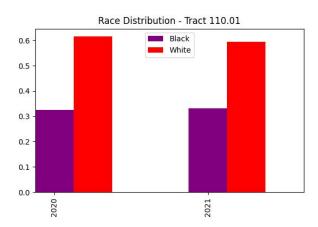
- US Census Data
  - Tracts 64, 102.01, 102.02, 105, 110.01, 110.02

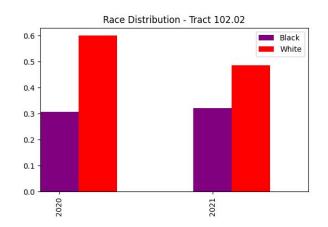
# Results - Race per Tract from 2014 to 2021

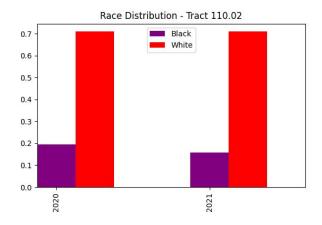




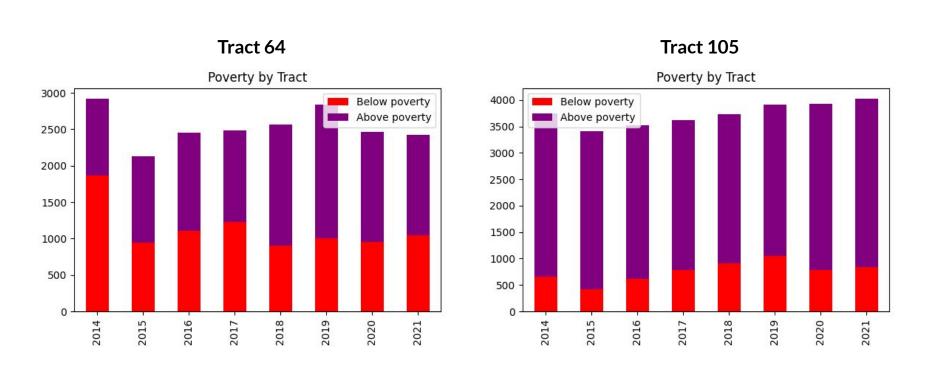


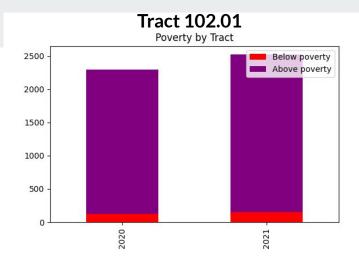


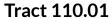


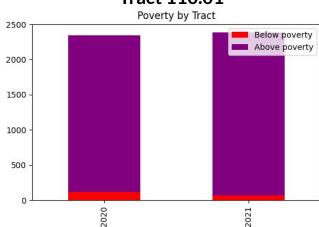


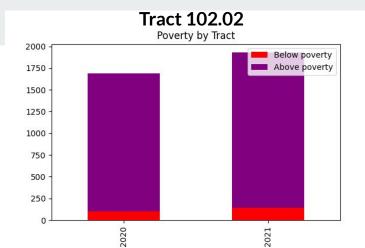
# Results - Poverty by Tract from 2014 to 2021



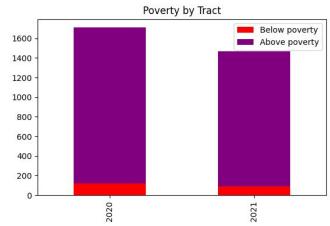








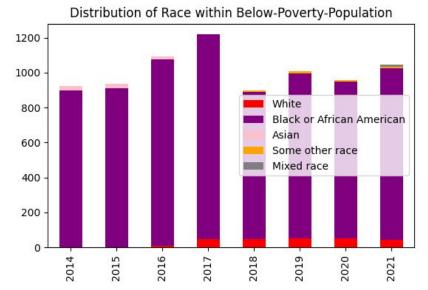
#### Tract 110.02



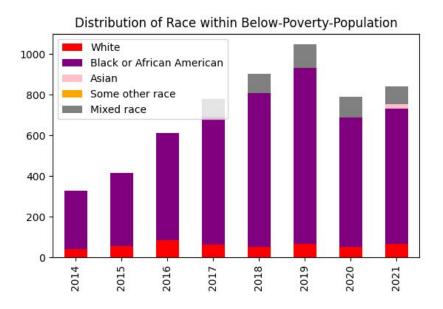
# **Results - Distribution of Race within Below-Poverty**

Tract 64

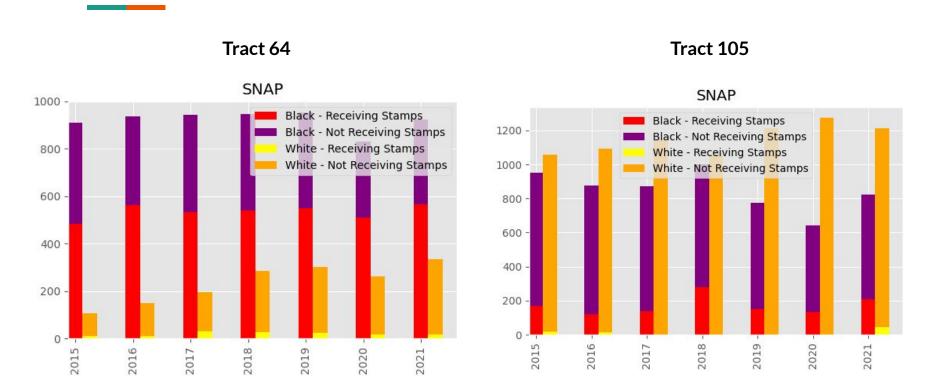




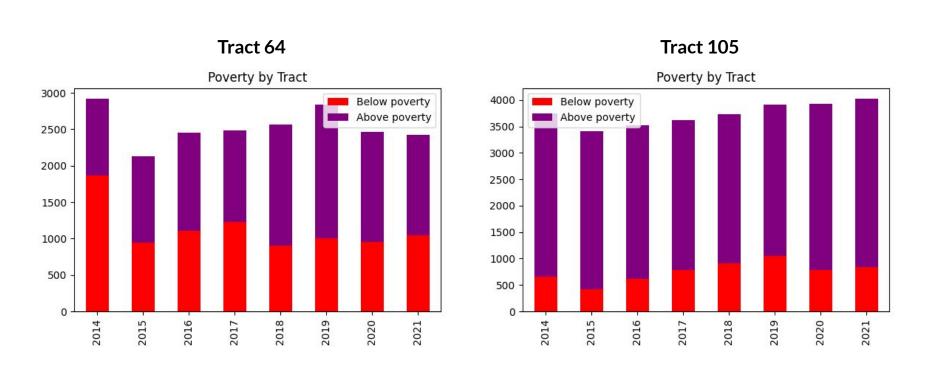
**Tract 105** 



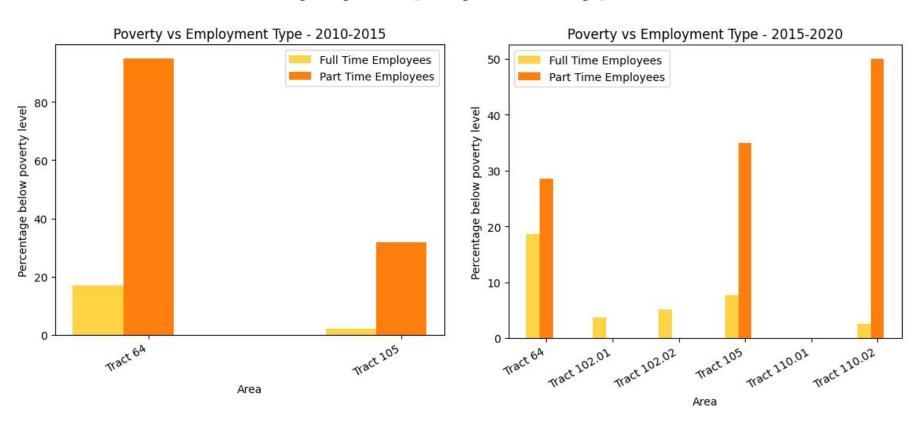
## **Results - SNAP Receivers**



# Results - Poverty by Tract from 2014 to 2021

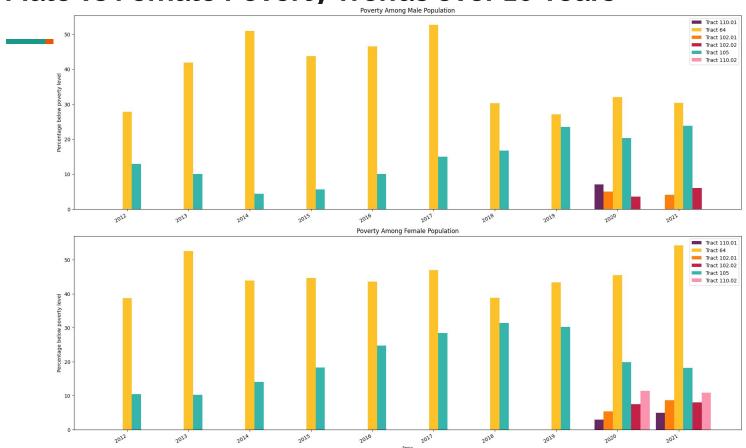


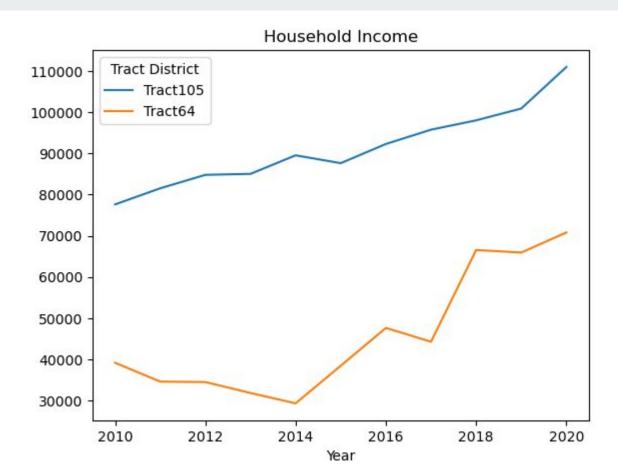
# **Results - Poverty by Employment Type**

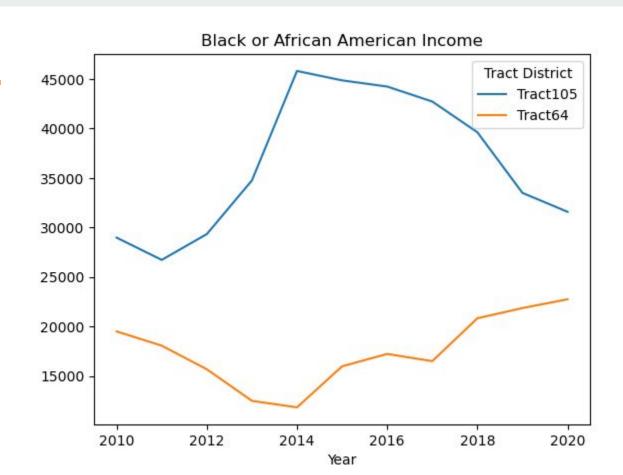


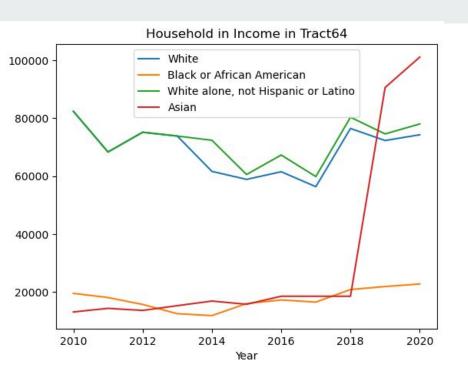


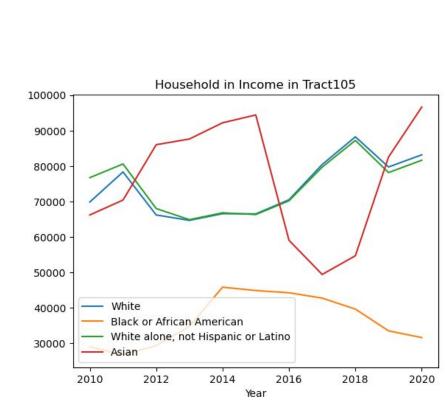
## Male vs Female Poverty Trends over 10 Years





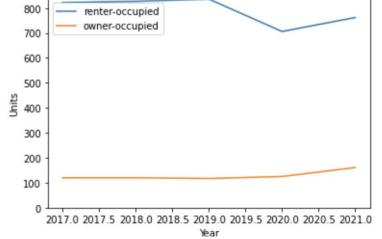


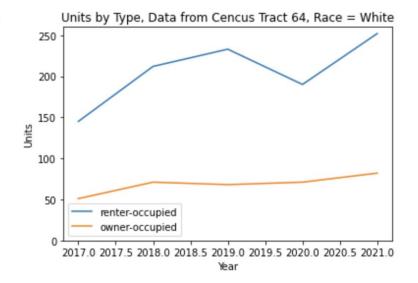




# Homeownership Trends from 2017 to 2021 - Race-Centered Census Tract 64

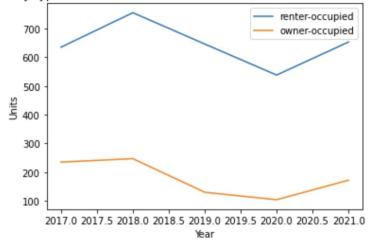




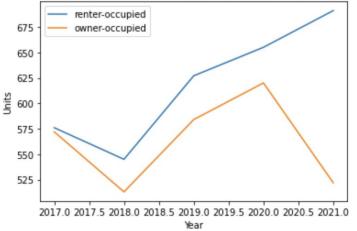


## Homeownership Trends from 2017 to 2021 Census Tract 105





#### Units by Type, Data from Cencus Tract 105, Race = White



# Challenges & Next Steps

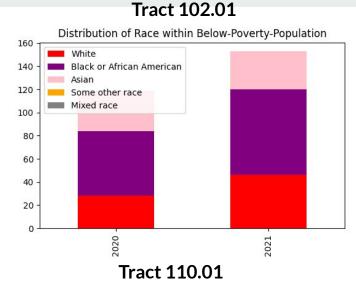
## Challenges

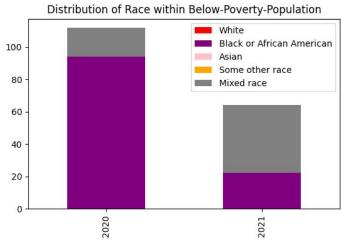
- no data in some tracts for years before 2020
- sometimes it's difficult to find good data for certain variables (e.g. public safety)
- there does not seem to be data available for anything more specific than tract-level

## Next Steps

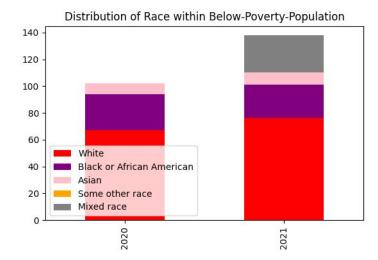
- more correlation analysis between variables to get more insights
- focus on a few selected variables in a lot more detail (for story-telling purposes)



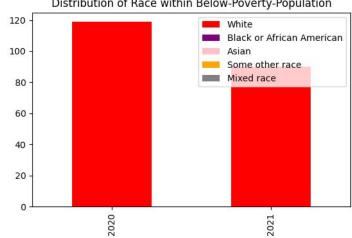




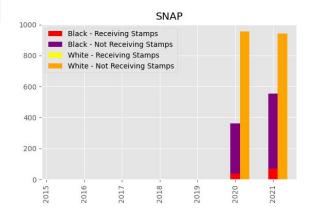




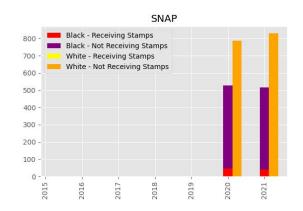
Tract 110.02
Distribution of Race within Below-Poverty-Population



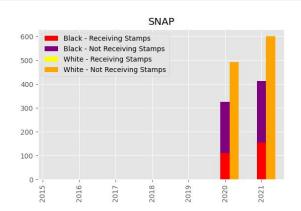
Tract 102.01



Tract 110.01



### Tract 102.02



### **Tract 110.02**

