

Considerations for Designing a Covid Response

Leah Brooks
George Washington
University

Jaclene Begley
Fannie Mae

Stan Veuger
American Enterprise
Institute

April 2021

The views expressed here are those of the authors and do not necessarily represent those of Fannie Mae.



Mission

- To improve the lives of people in Greater Washington area by studying the neighborhoods and communities of our region



Mission

- To improve the lives of people in Greater Washington area by studying the neighborhoods and communities of our region

We

- produce policy-relevant research on the Capital Region
- host events for the public on topical issues



Mission

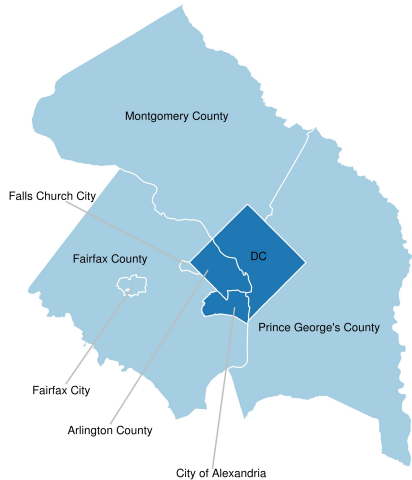
- To improve the lives of people in Greater Washington area by studying the neighborhoods and communities of our region

We

- produce policy-relevant research on the Capital Region
- host events for the public on topical issues

Show you our graphs, then explain how we made them

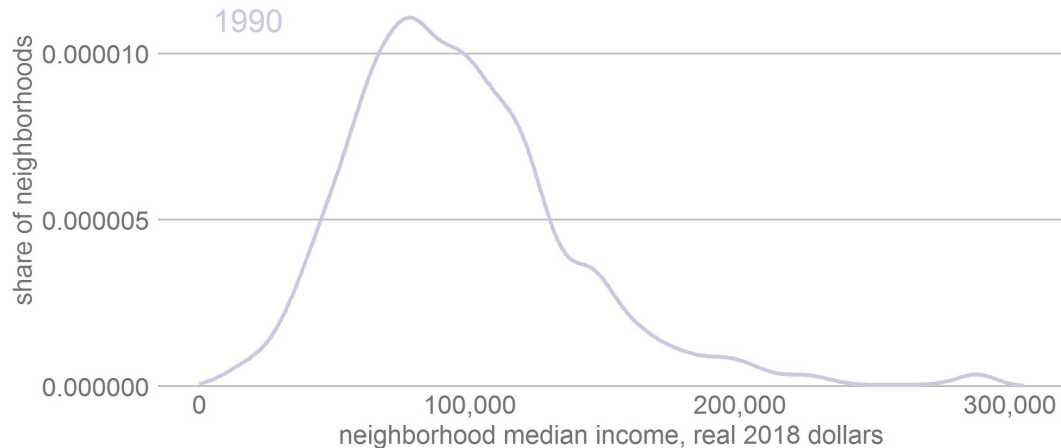
The Capital Region: Urban, Suburban, and Exurban Areas



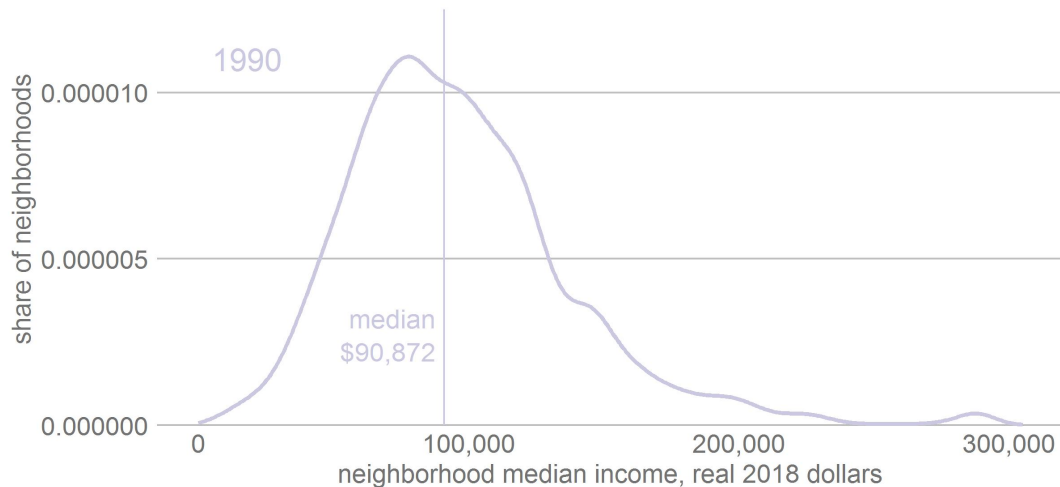
Questions as of Spring 2020

1. Are regional workers high income enough to withstand a big shock?
2. How viable is telework for the regional workforce?
3. Who can telework by sector, income, and location?
4. Areas of greatest concern: which areas are low telework potential and heavily rental?

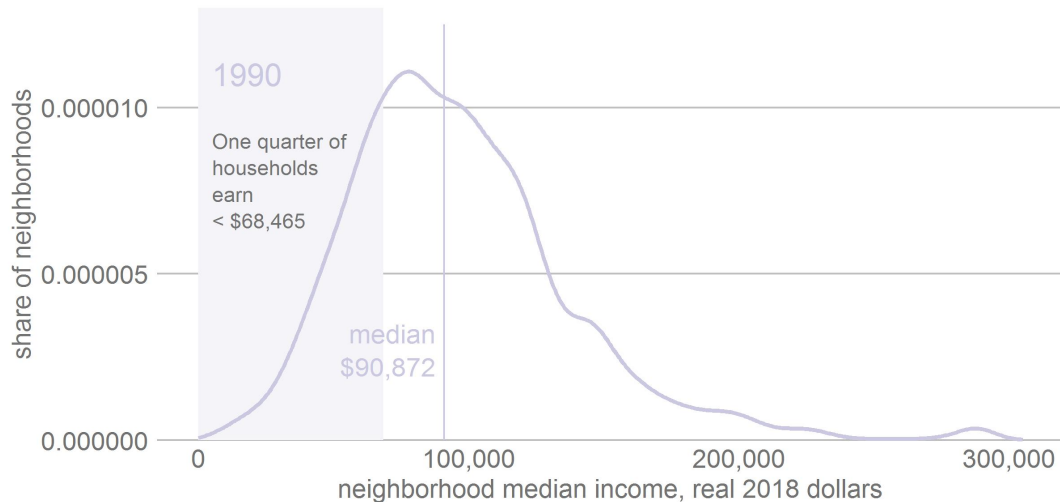
1 Incomes Have Grown, But the Middle Class Has Hollowed Out



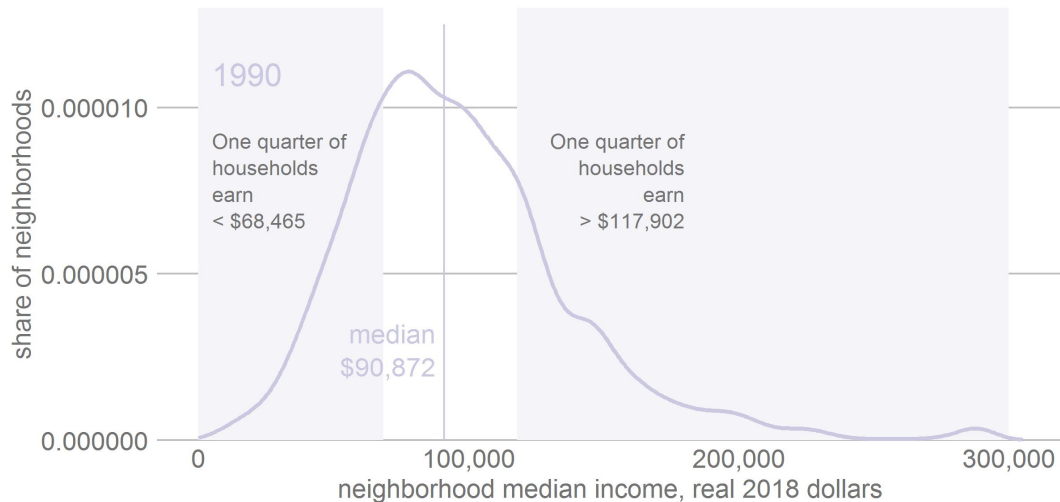
1 Incomes Have Grown, But the Middle Class Has Hollowed Out



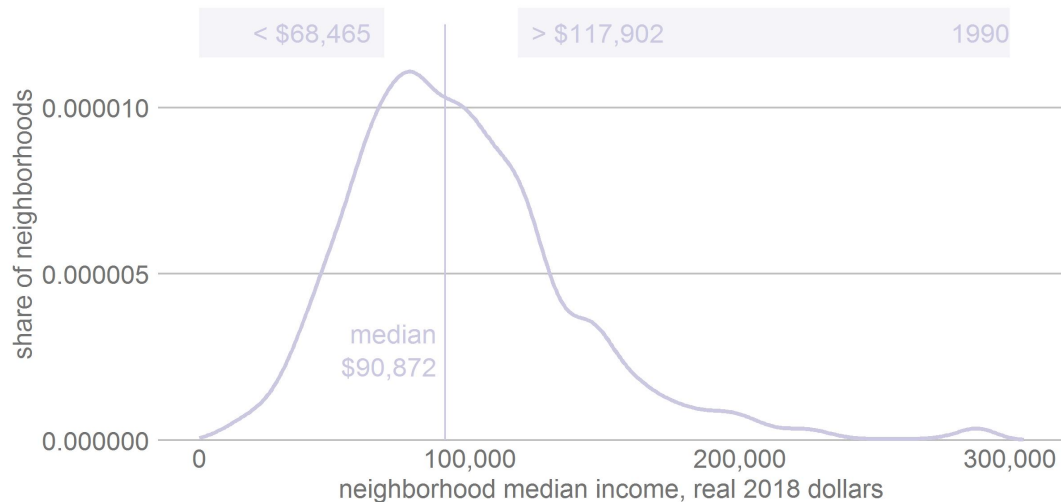
1 Incomes Have Grown, But the Middle Class Has Hollowed Out



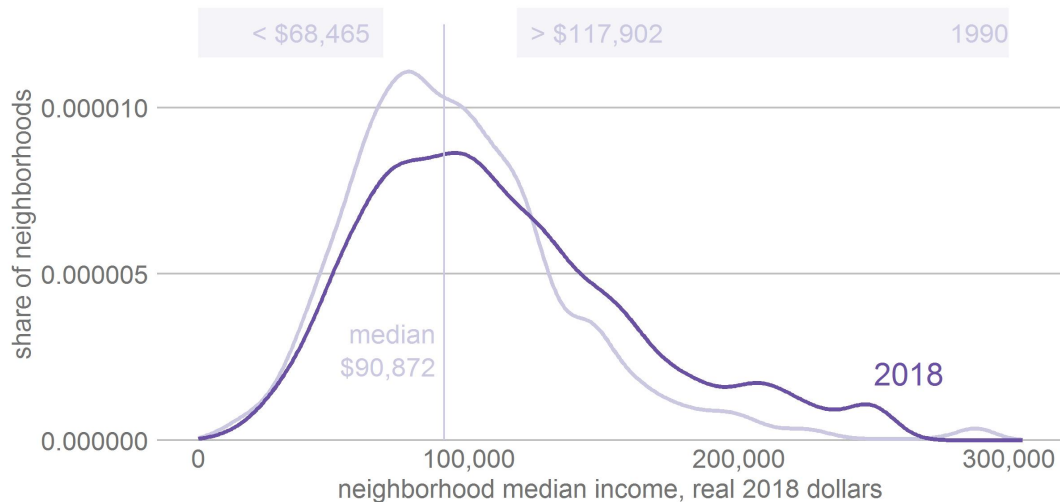
1 Incomes Have Grown, But the Middle Class Has Hollowed Out



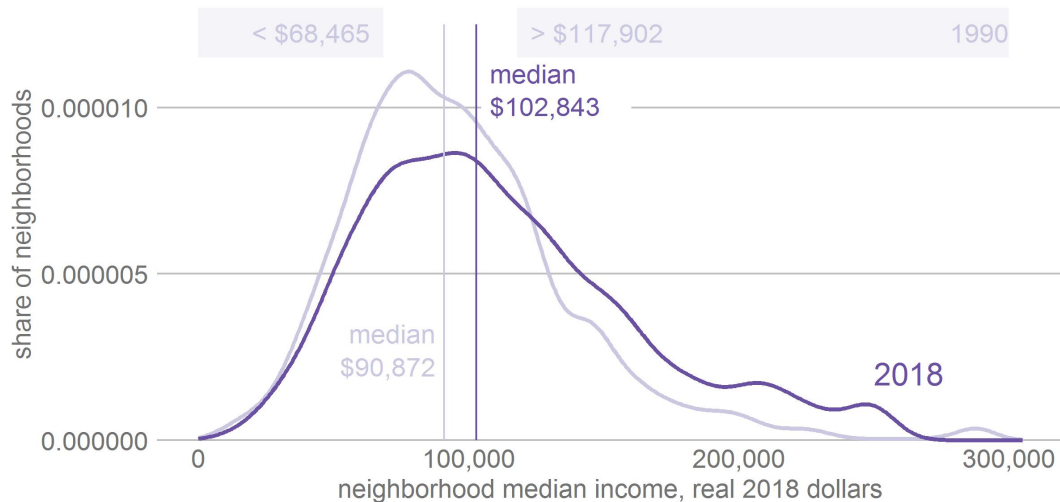
1 Incomes Have Grown, But the Middle Class Has Hollowed Out



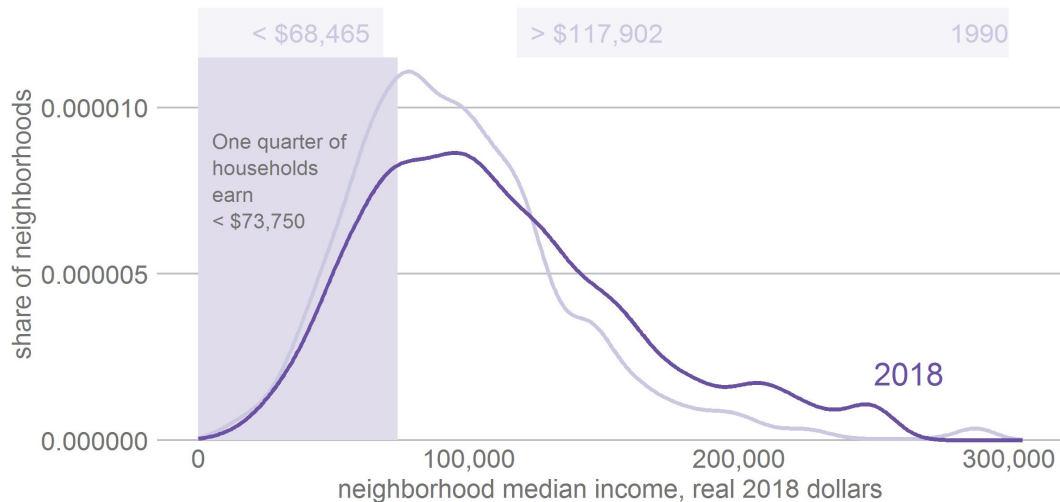
1 Incomes Have Grown, But the Middle Class Has Hollowed Out



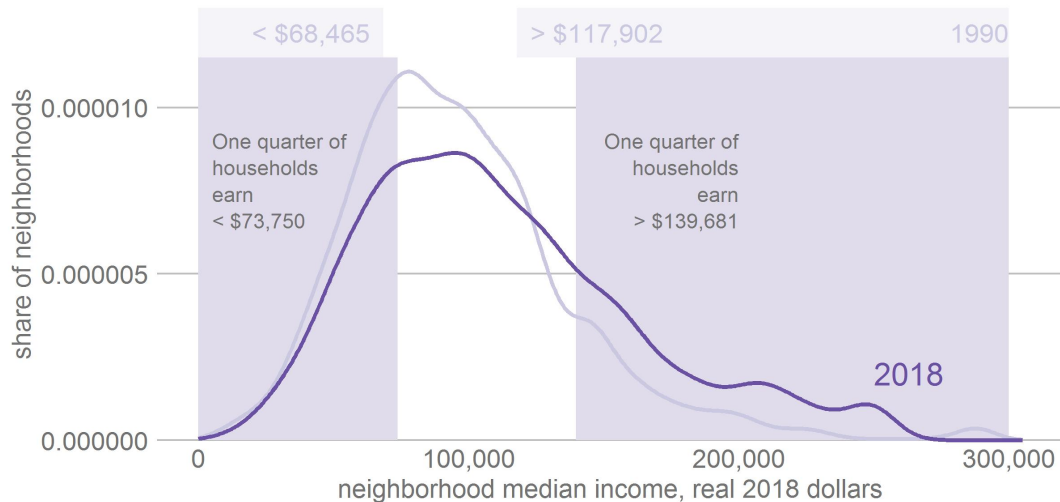
1 Incomes Have Grown, But the Middle Class Has Hollowed Out



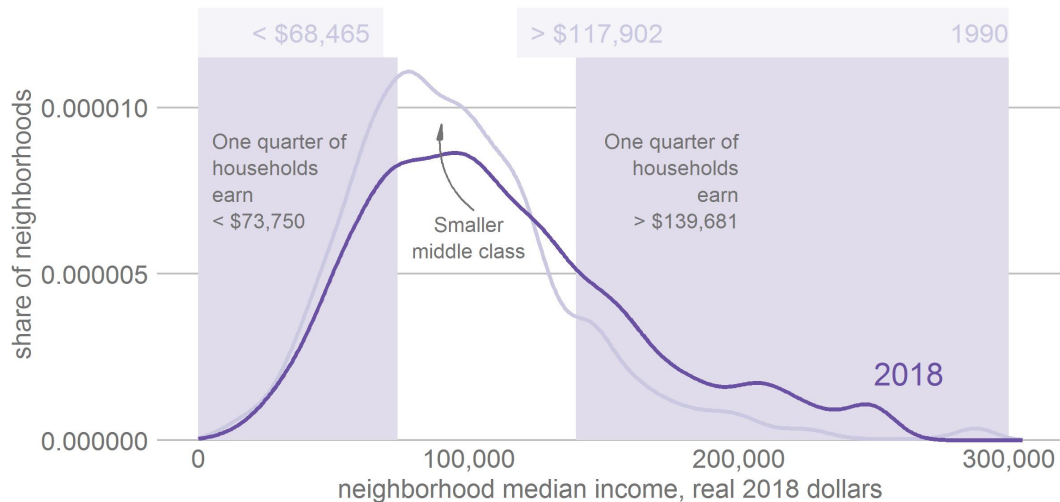
1 Incomes Have Grown, But the Middle Class Has Hollowed Out



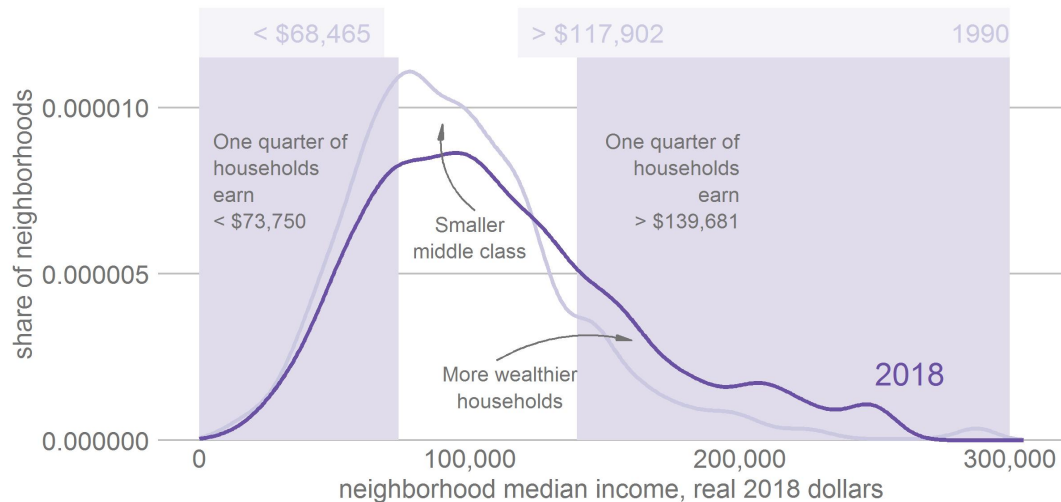
1 Incomes Have Grown, But the Middle Class Has Hollowed Out



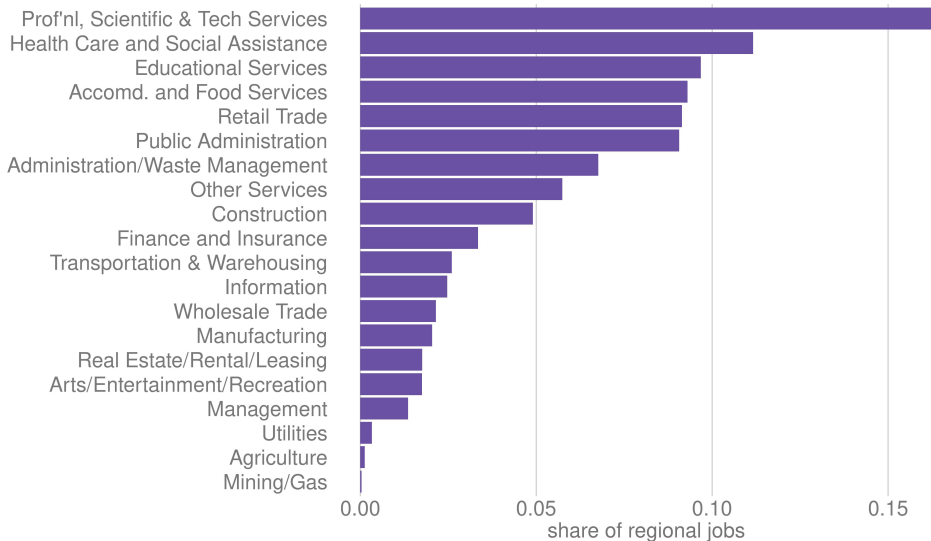
1 Incomes Have Grown, But the Middle Class Has Hollowed Out



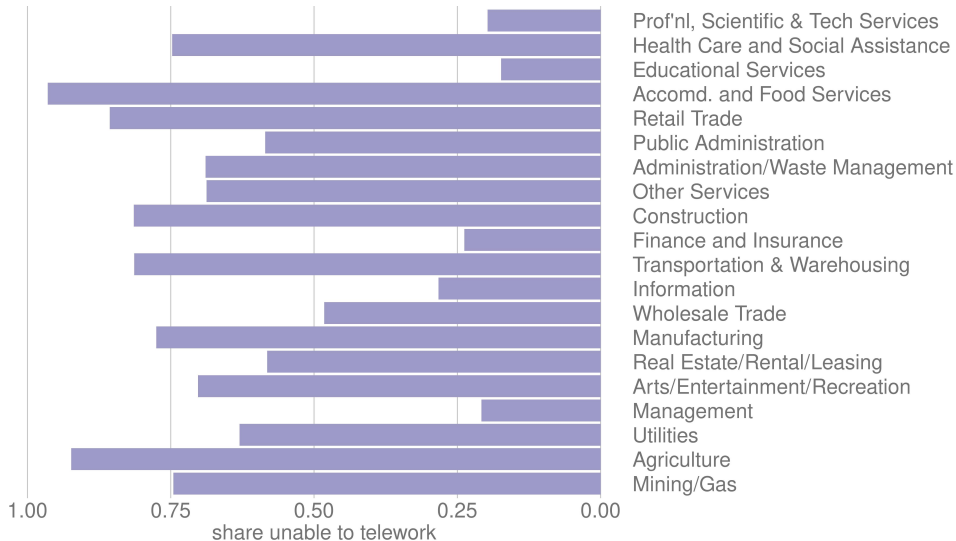
1 Incomes Have Grown, But the Middle Class Has Hollowed Out



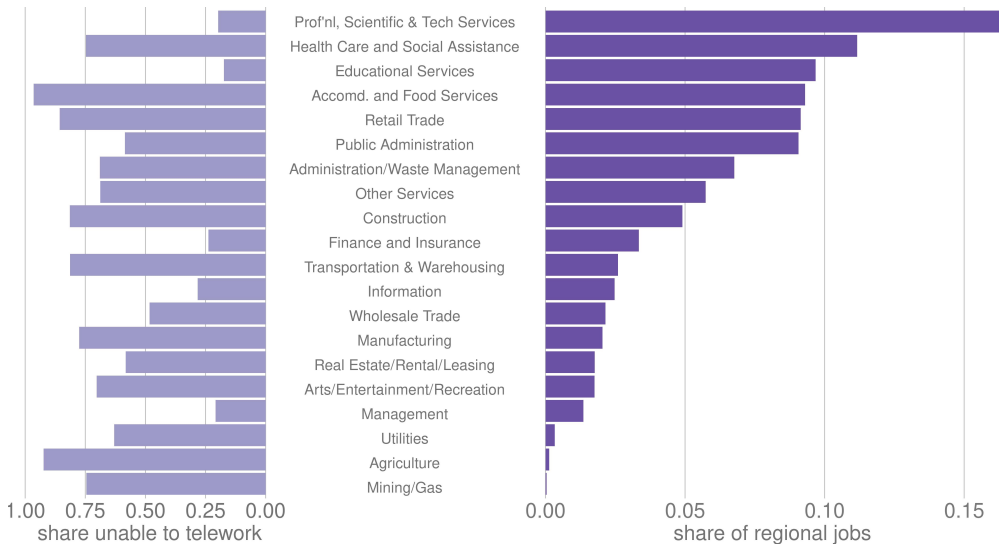
2 Region Specializes in Professional Services



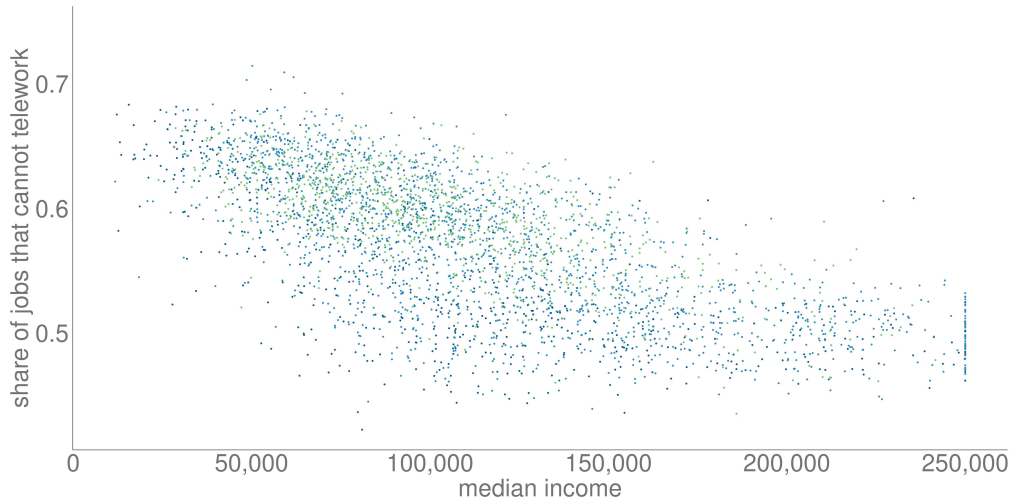
2 Many Regional Jobs Can Be Done From Home – But Some Cannot



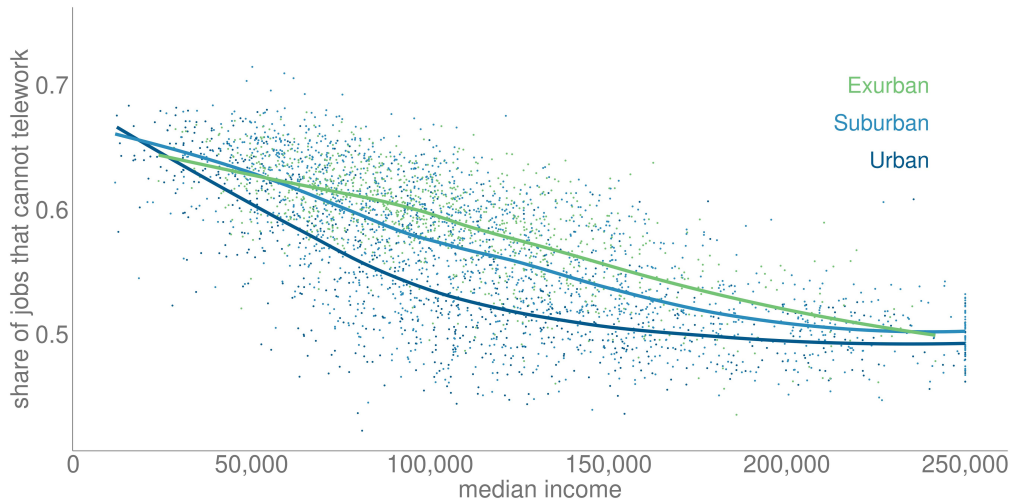
2 Telework is Difficult in Some of the Region's Largest Industries



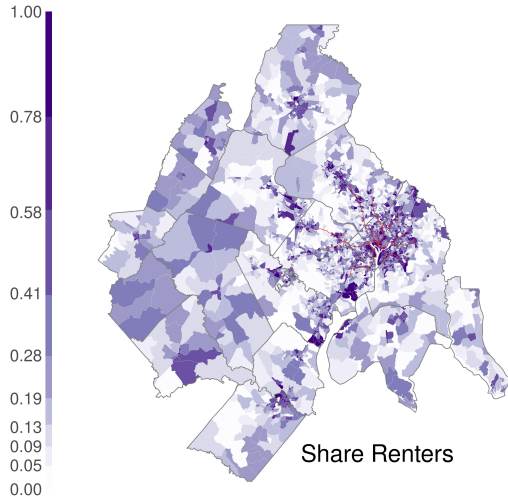
3 Telework More Likely in Higher Income Neighborhoods



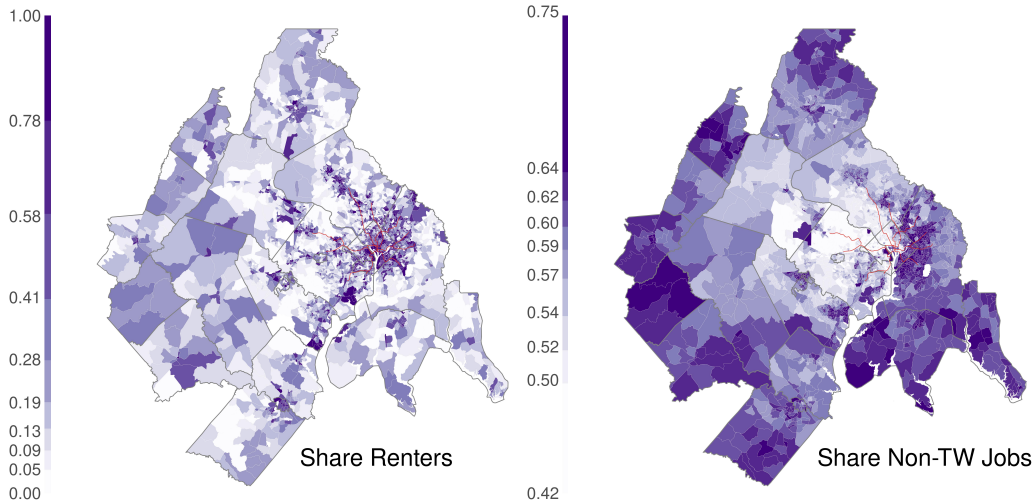
3 Same Income: Less Central Neighborhoods → Less Telework



4 Areas of Greatest Concern: Low Telework, High Share of Renters



4 Areas of Greatest Concern: Low Telework, High Share of Renters



Behind the Scenes

How Do We Make These?

Data

- Income
 - American Community Survey tract level data
- Jobs by residence
 - LODES block data
 - Glad federal workers are back in LODES
- Telework
 - Dingel and Neiman (2020) by industry

How Do We Make These?

Data

- Income
 - American Community Survey tract level data
- Jobs by residence
 - LODES block data
 - Glad federal workers are back in LODES
- Telework
 - Dingel and Neiman (2020) by industry

Methods

- R
 - data loading
 - data manipulation
 - map and graph creation
- tidyverse, esp ggplot
 - for graphics
- sf
 - new-ish package for maps and spatial analysis

Thank you all for listening

Thanks to the Census for the great data