

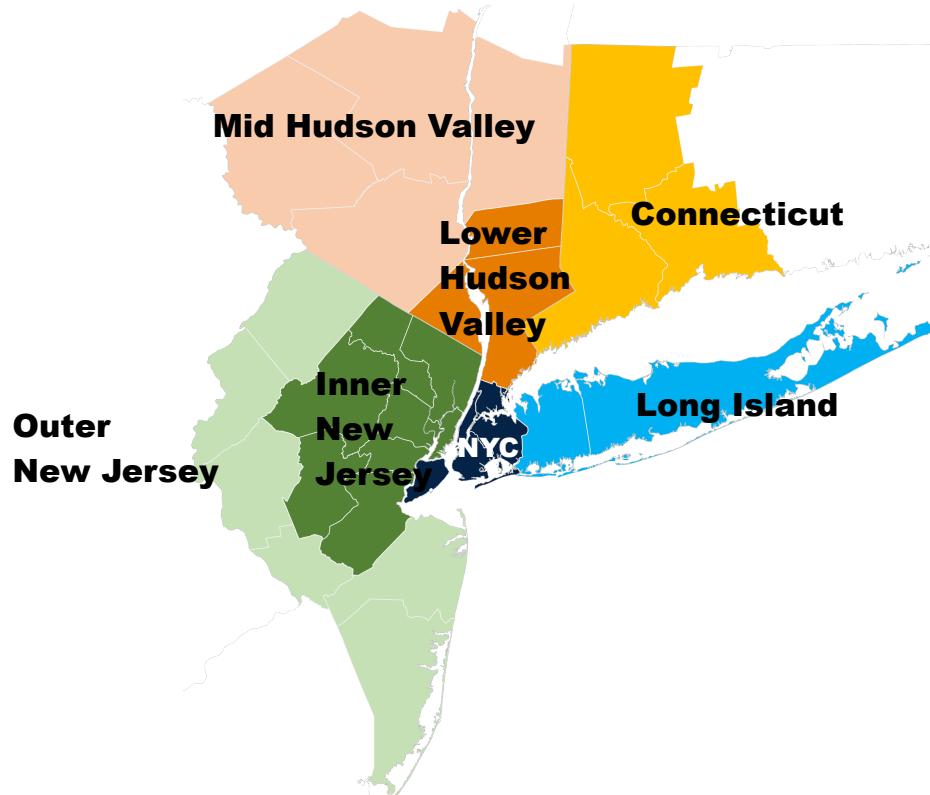
# Housing Production in NYC and the Region

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# Why does NYC care about the region?



# Housing trends in NYC and the region

- Automate data extraction and analysis for 40 years of publicly available housing permit data for 31 counties & ~700 municipalities in the metro, ensure longitudinal comparability and account for boundary changes and recoding over time; update annually
- QA/QC Census imputed vs. reported data and engage the Census Bureau on imputation methodology
- Analyze data and prepare briefing documents to report on regional housing construction, and support future actions to advocate for better data collection and reporting at the state level (potential legislative agenda)

# Tech Stack

Tools and workflow:

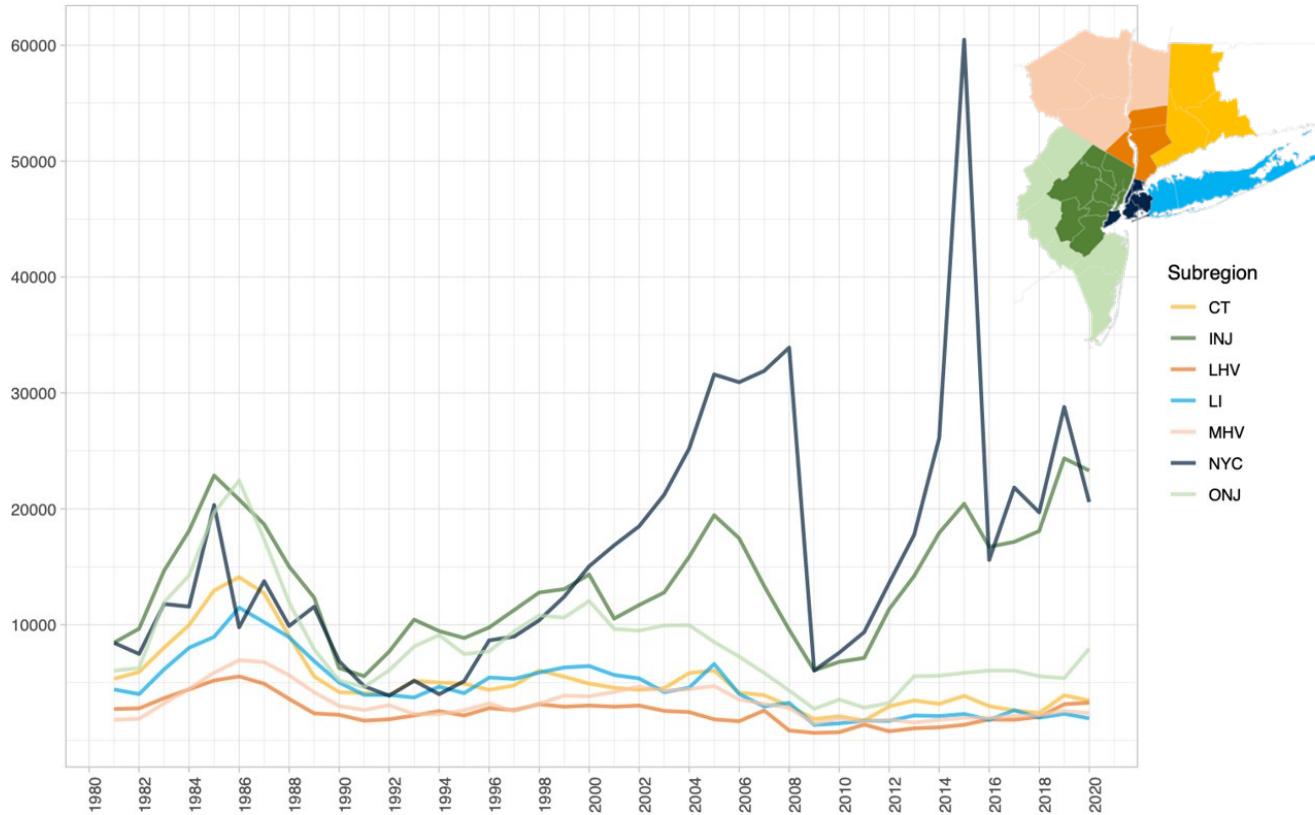
- Mostly Python and sometimes R to gather, clean, and visualize the data
- Census API to get some of the data (population and geographies)
- QGIS for dot density maps



# Main takeaways

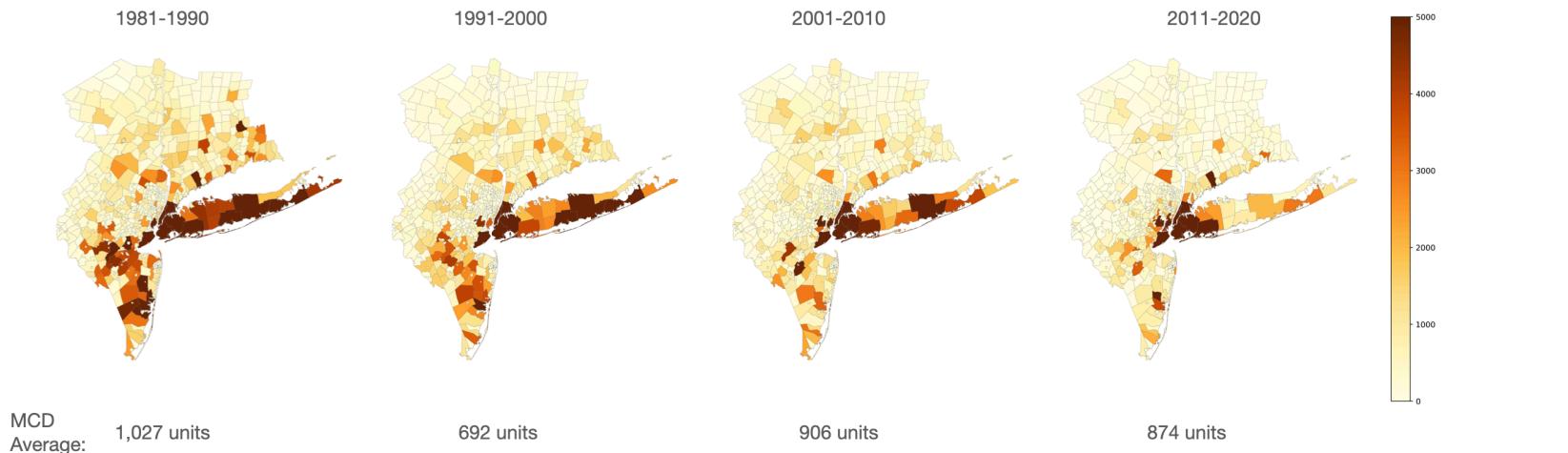
- Limited decline in housing production in 2020 despite Covid-19
- **Growth is centralizing:** outer areas used produced more housing in the past, which declined over time, and the opposite pattern is observed from NYC and adjacent areas
- In the last decade, the region produced much less housing compared to the other major metropolitan areas

# Total Units Permitted per Year, NYC Metro Subregions



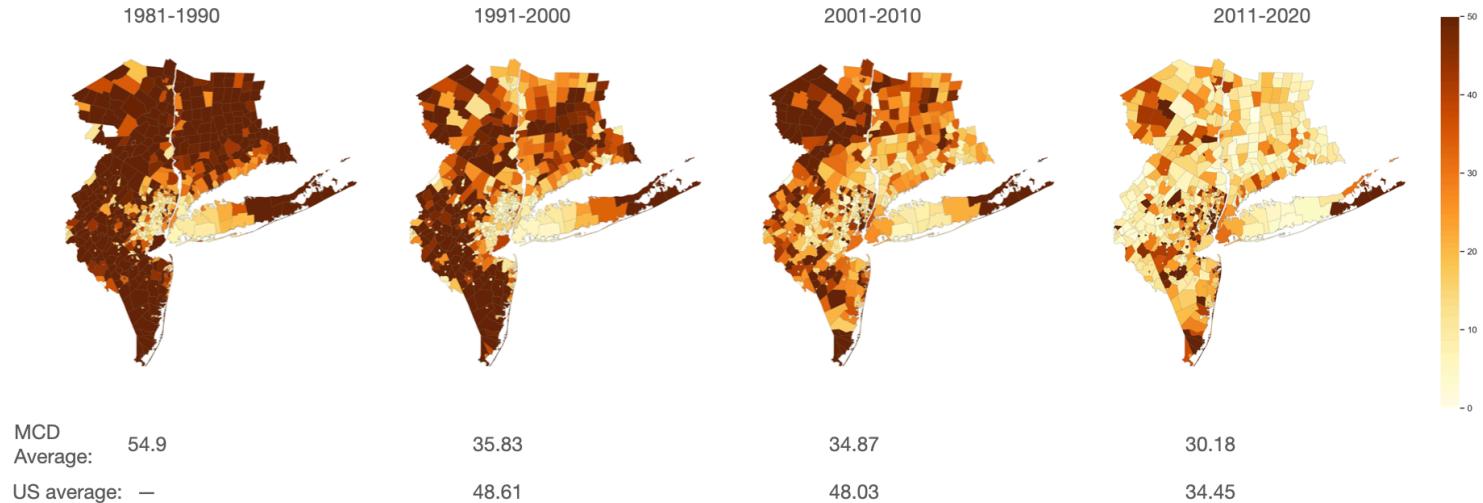
# Total Units Permitted by Decade, Municipalities

1. Housing production was highest in the 1981-1990 decade, went down significantly in the 1991-2000 decade
2. Only NYC boroughs and select areas have been issuing 5000+ units for 40 years
3. Housing production in New Jersey and Long Island goes down with time, but not as much in municipalities that border NYC

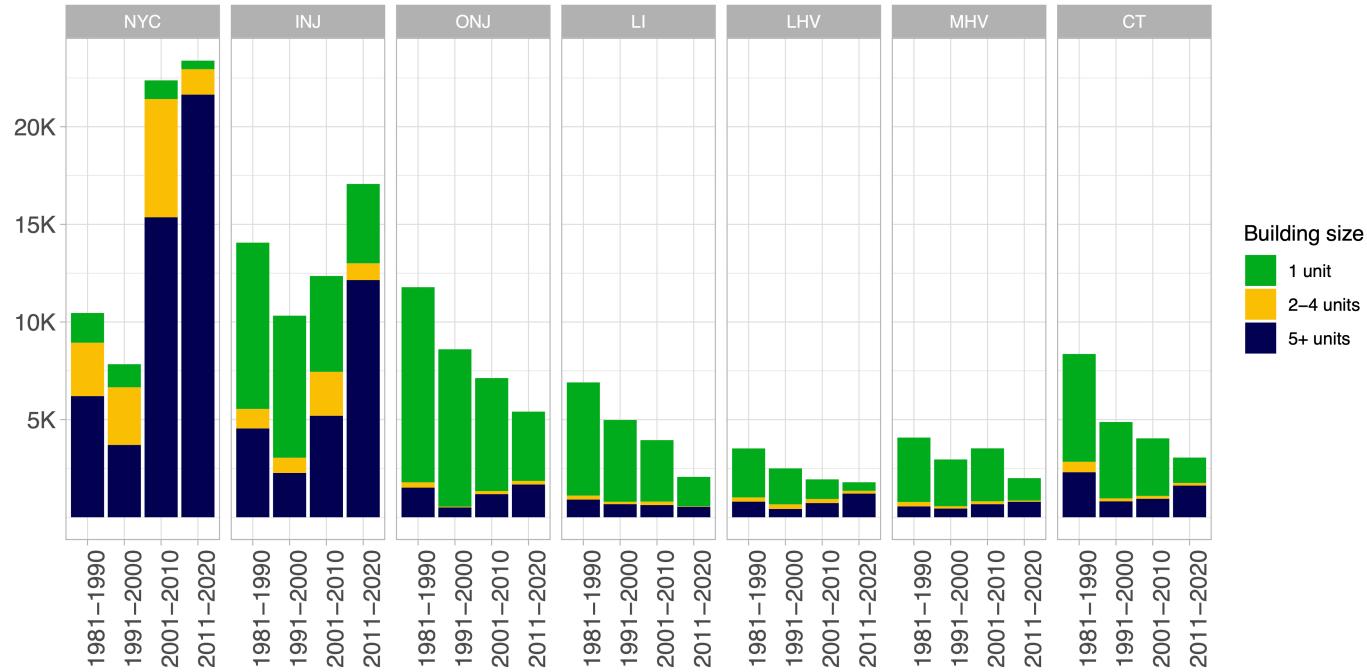


# Total Units Permitted per Capita (1,000 residents) by Decade, Municipalities

1. Per capita housing production goes down with time
2. Outer MCDs started with the highest per capita production, while inner MCDs were the lowest. By 2011-2020 they're on roughly the same level
3. Compared to the country's average, we're underproducing



# Average Units permitted Per Year by Building Size and Decade



# Average Units Permitted per Year per Capita (1,000 residents) by Major Metro

