

UCLA

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DH M121: Race, Gender, and Data Systemically Unhoused

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Meet Our Team!



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Research Question



How have unhoused populations varied across Los Angeles neighborhoods from 2017 to 2022?

What demographic factors contribute to disparities in homelessness within these populations?

**Observation of Homelessness
While Living in LA and Personal
Ties**



**Using Data to Research
Trends on Homelessness**



**Areas of Focus
When Considering
Houselessness**

Scope

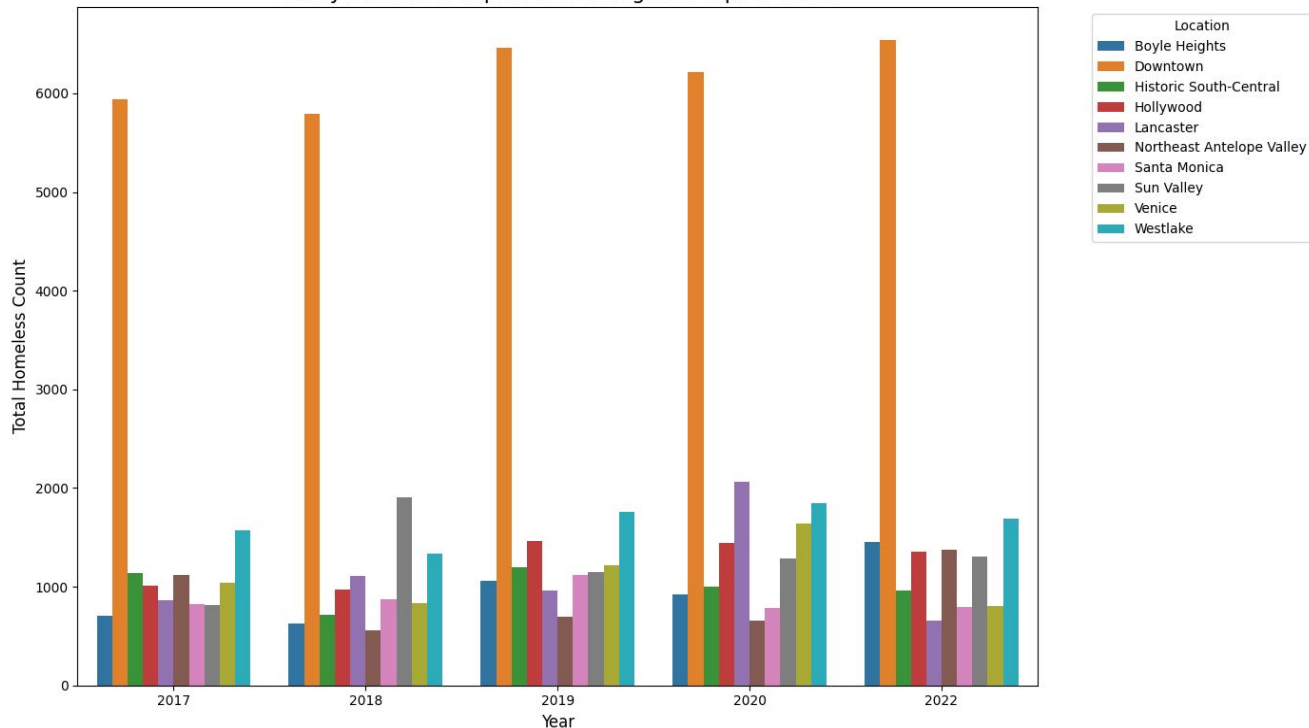
Causes

Dynamics

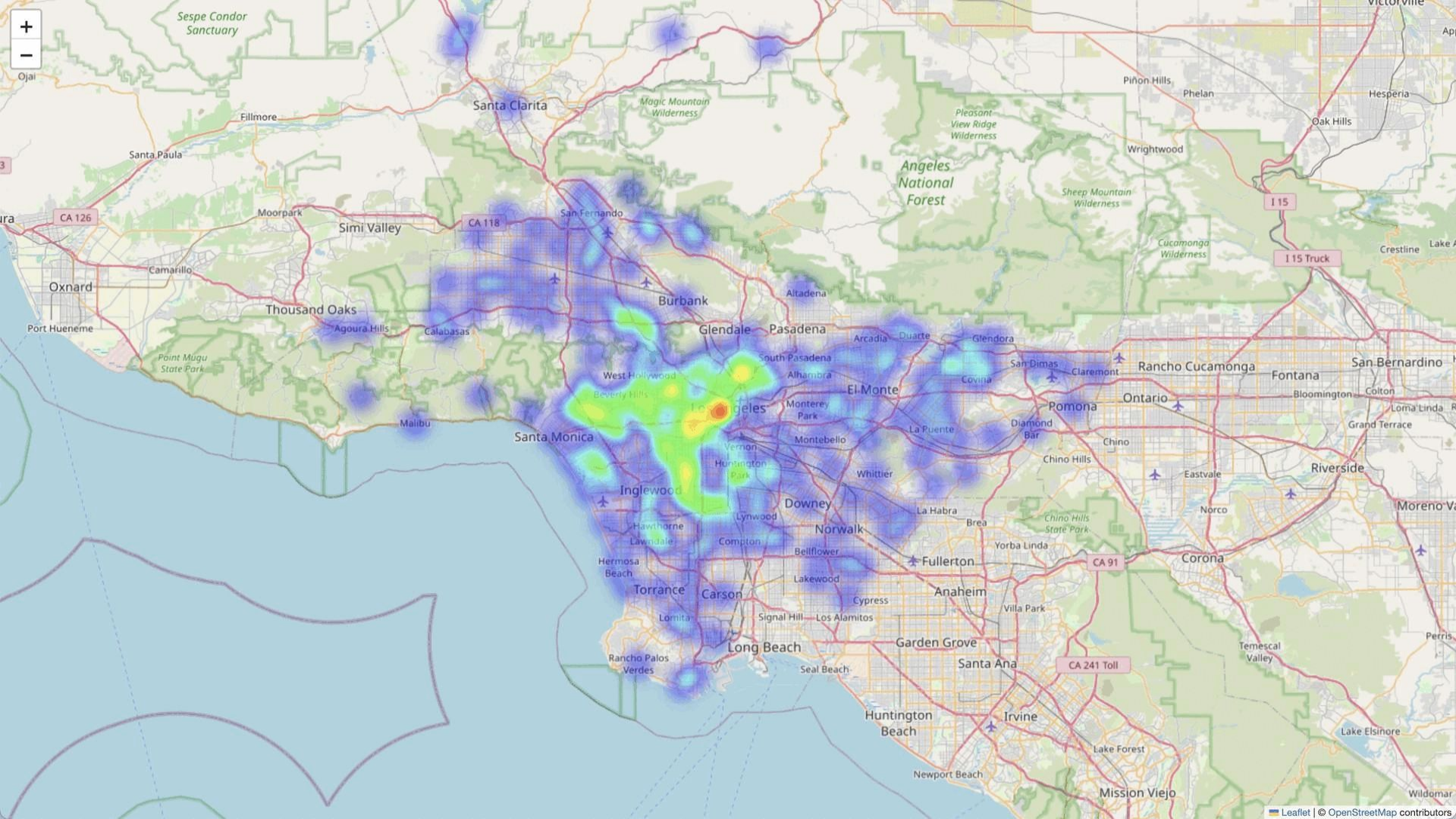


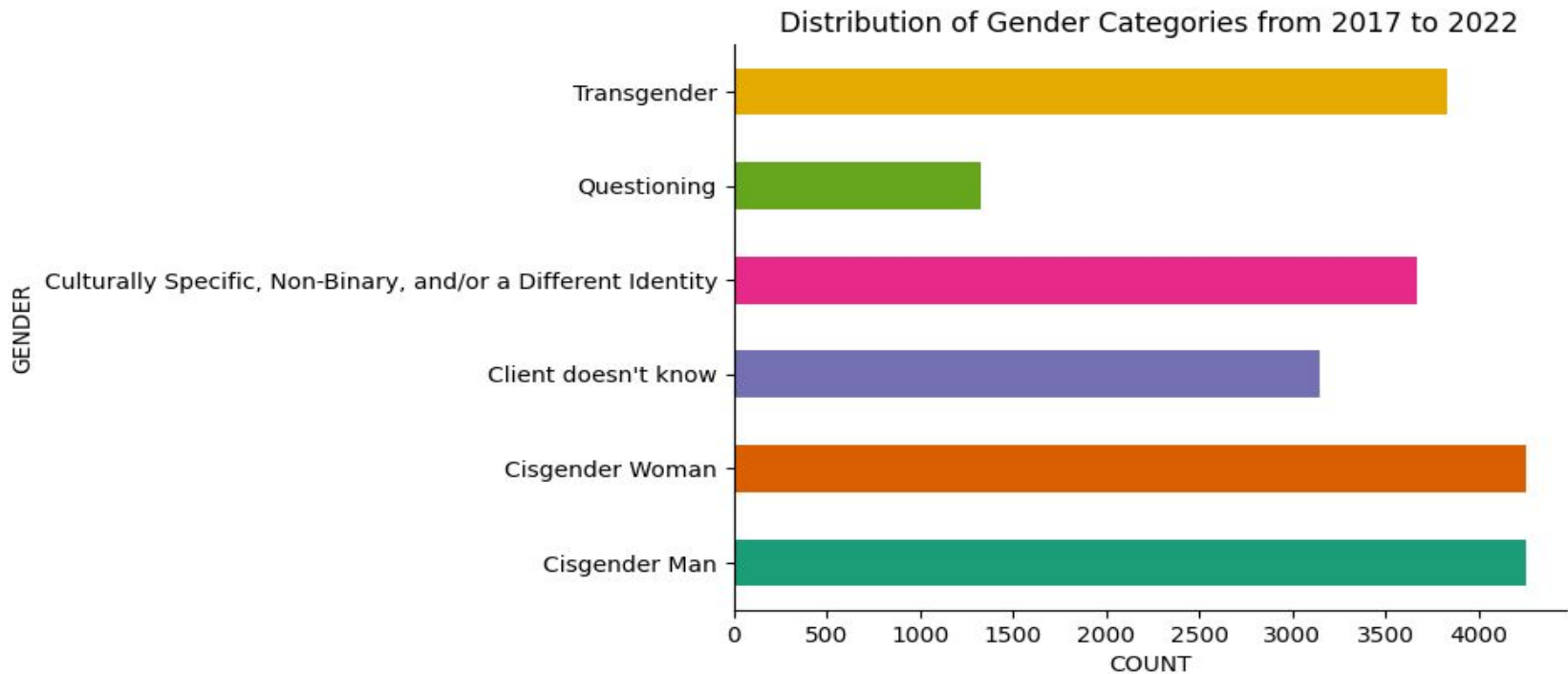
Data Visualizations

Yearly Homeless Population Changes in Top LA Cities

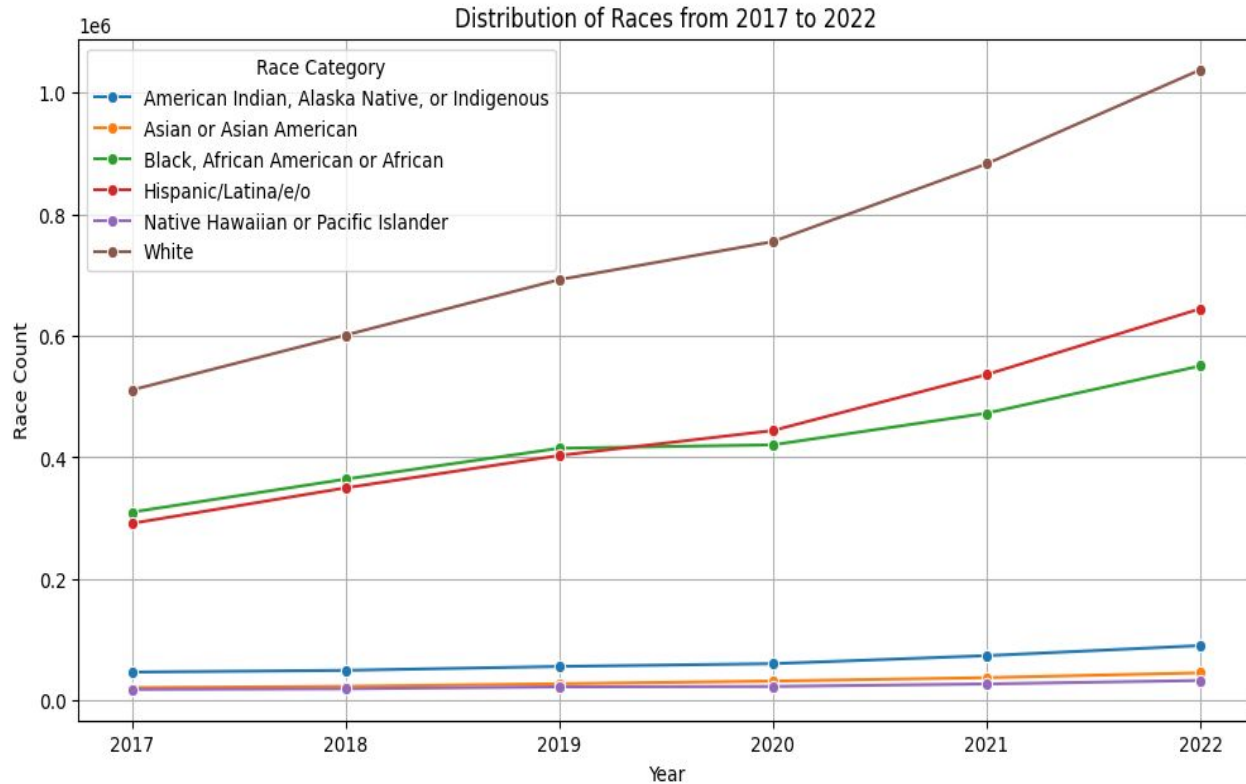


- This bar chart shows yearly changes in the homeless population (2017-2022, excluding 2021).
- Highlights neighborhoods with the highest and lowest homeless populations. Downtown leads with the largest homeless population.
- This visualization indicates areas with the greatest need and service allocation over time.





- This graph highlights the distribution of individuals across gender categories (2017–2022).
- Cisgender Men and Women are the largest groups (over 4,000 each).
- Questioning is the smallest group with significantly fewer individuals.
- This visualization provides insights into demographics influencing service distribution trends.



- White individuals are the largest racial group experiencing homelessness.
- **Black and Hispanic** populations are the second and third largest groups by 2022.
- **Asian, Native Hawaiian or Pacific Islander, and American Indian** populations remain the smallest groups with minimal growth.
- Homelessness consistently increased across all racial categories (2017–2022).
- Highlights disparities between **White and smaller racial groups**, showing uneven impacts.

Datasets and Process

Tools and Platforms

- **Jupyter Notebook/Google Colab**: used for data analysis and visualization.
- **Python**: primary programming language for data processing and analysis.
- **Zoom, Google Drive, and Slides**: utilized for communication, collaboration, and presentation.

Datasets

1. [Homelessness Demographics by Race and Gender](#)
 - A merged dataset from California's open data portal providing homelessness counts categorized by race and gender from 2017 to 2022. *California Interagency Council on Homelessness (Cal ICH)*
2. [LA Homeless Population](#)
 - A dataset by the *Los Angeles Homeless Services Authority (LAHSA)* and *USC Lusk Neighborhood Data for Social Change (NDSC)* summarizing homelessness counts across Los Angeles County for 2017–2022, excluding 2021 due to COVID-19.

Policy Context

- **Housing First**
 - A policy focused on providing housing quickly, alongside services aimed at improving well-being.



What We Learned

Technical Skills:

- Data analysis & visualization via Python & Jupyter Notebook/Google Colab.
- Geospatial mapping with Folium to interpret unhoused trends.
- Aggregating and cleaning large datasets from multiple sources (HDIS, CoC).

Interpersonal and Teamwork Skills:

- Effective team collaboration and communication through Zoom, messaging platforms, and Google Workspace.
- Problem-solving and adaptability in handling data inconsistencies and challenges.
- Leveraging individual strengths to achieve group goals.
- Insightful discussions to connect quantitative data with real-world contexts.



Interactive Mapping Exercise



1. Scan the QR Code

- Use your phone or device to scan the QR code provided.
This will take you to [the interactive map](#) displaying homelessness data for LA cities.

2. Group Activity

- Each group has been assigned a specific neighborhood to analyze:
 - **Policing Group:** Explore **Compton** in South LA.
 - **Reproductive Justice Group:** Explore **Arcadia** in the San Gabriel Valley.
 - **Poverty Group:** Explore **Santa Monica** in West LA.
- Discuss and answer the following within your group:
 - Is the homeless count in your assigned neighborhood consistently high, low, or fluctuating over the years (2017–2022, excluding 2021 due to the pandemic)?
 - What factors might explain the trends in this neighborhood?
Consider policy changes, demographic shifts, or geographic influences.

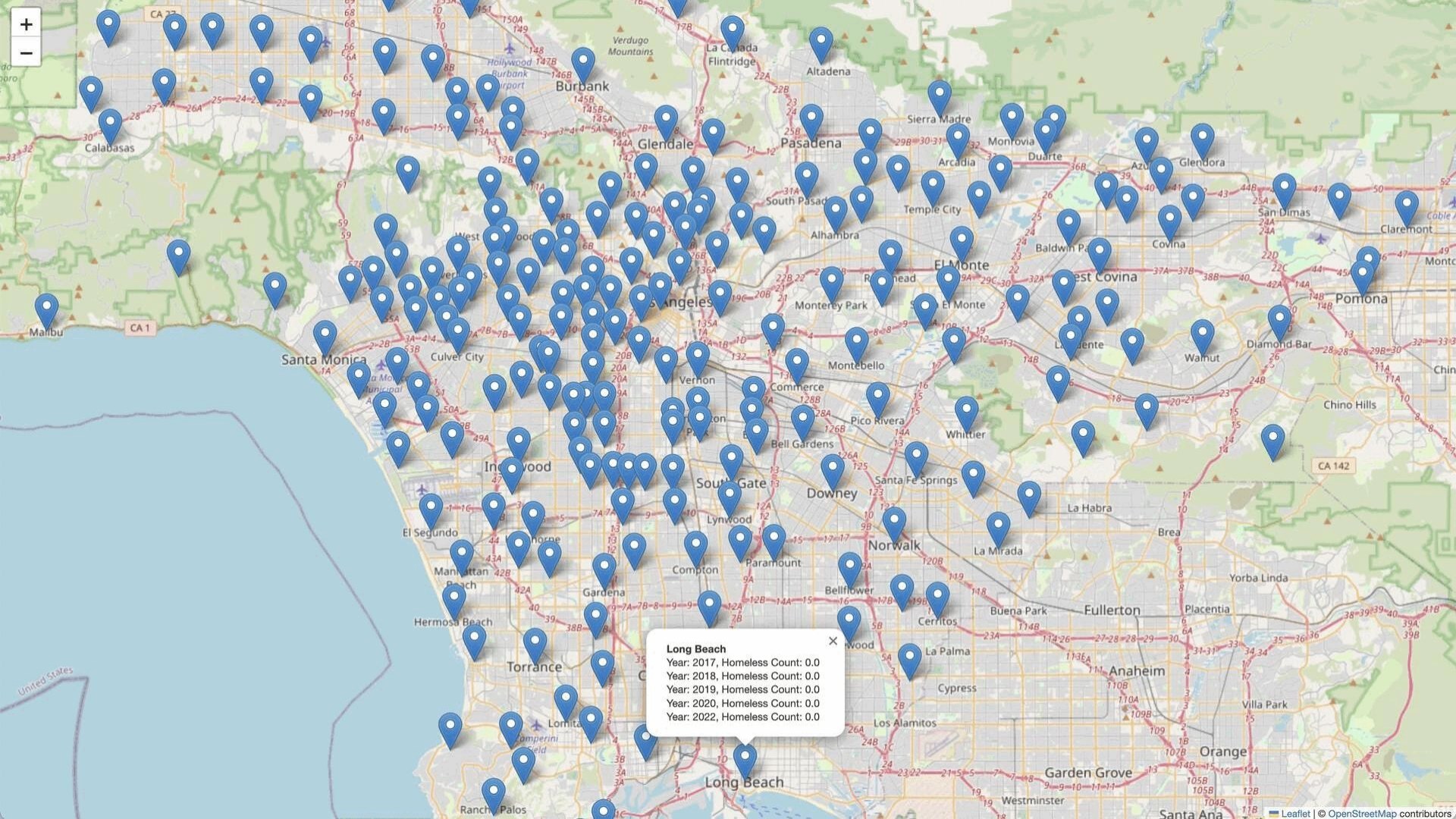
3. Prepare an Observation

- As a group, prepare one **key observation** about your assigned city.
Be ready to share:
 - The trend you observed.
 - A possible explanation for this trend.

4. Share and Discuss

- After five minutes, each group will briefly share their observation with the class.
- After all groups have shared their thoughts, we will discuss common themes and how these trends relate to disparities in homeless response services across cities.

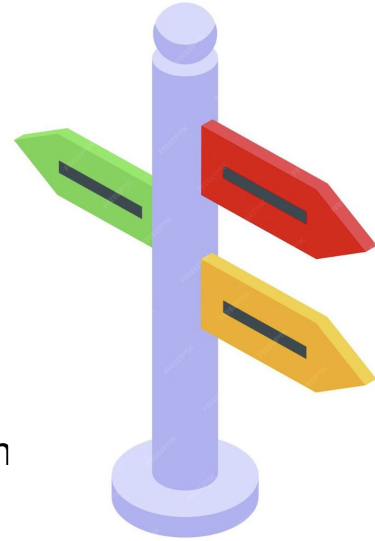




Long Beach
Year: 2017, Homeless Count: 0.0
Year: 2018, Homeless Count: 0.0
Year: 2019, Homeless Count: 0.0
Year: 2020, Homeless Count: 0.0
Year: 2022, Homeless Count: 0.0

Future Directions

- **Deepen Demographic Analysis:**
Examine intersections of race, gender, and age with service disparities.
- **Policy Impact Study:**
Investigate the long-term effects of "Housing First" policies on service allocation.
- **Community Engagement:**
Incorporate qualitative data from community organizations or surveys for rich insights.
- **Temporal Trends:**
Focus on post-2022 data to assess the evolving landscape of homelessness in LA County.
- **Expand Geographic Scope:**
Analyze homeless response services in neighboring counties for regional trends.



Conclusion/Q&A

- **Key Findings:**

Downtown consistently receives the highest level of homeless counts, while Northeast Antelope Valley shows significantly lower engagement.

- **Demographics and Policies:**

Demographic factors and policies play a critical role in shaping resource allocation and addressing service disparities.

- **Interactive Insights:**

The interactive mapping tool highlights trends effectively, underscoring the importance of equitable resource distribution across different cities in Los Angeles County.

