

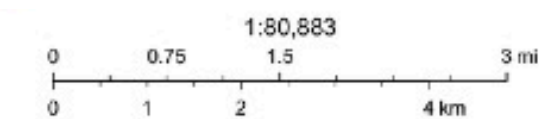
I am focusing my project on the pattern of development of neighborhoods in the city of Boston and analyzing various parameters such as census data, racial occupancy, and land use distribution over the past 20 years. I believe that this analysis is critical for designing effective transportation policies and ensuring equitable access to transportation for all residents.

In my research, I have identified several population groups that require special attention in Boston's transportation analysis, such as low-income communities, elderly residents, and people with disabilities. I am aware that these groups may face transportation barriers that can lead to social isolation, reduced economic opportunities, and lower quality of life. Therefore, it is essential to understand their transportation habits and challenges to design policies that meet their needs.

I am also paying attention to several policy issues and debates in Boston's transportation system, such as fare pricing and affordability, transit-oriented development, community development, and sustainability. I believe that a comprehensive understanding of these factors is critical for designing effective transportation policies and ensuring equitable access to transportation for all residents.

To study the shift in parameters over the last 20 years, I plan to analyze census data and demographic changes in different neighborhoods. Additionally, I will examine the distribution of land use in different areas and how it has changed over time. I am also considering the impact of COVID-19 on transportation patterns and accessibility in Boston, and I am keen to explore the challenges and opportunities facing the city's transportation system.

Overall, my project aims to develop a comprehensive understanding of evolution of Boston city in response to transportation systems focusing on two main historical transit lines.

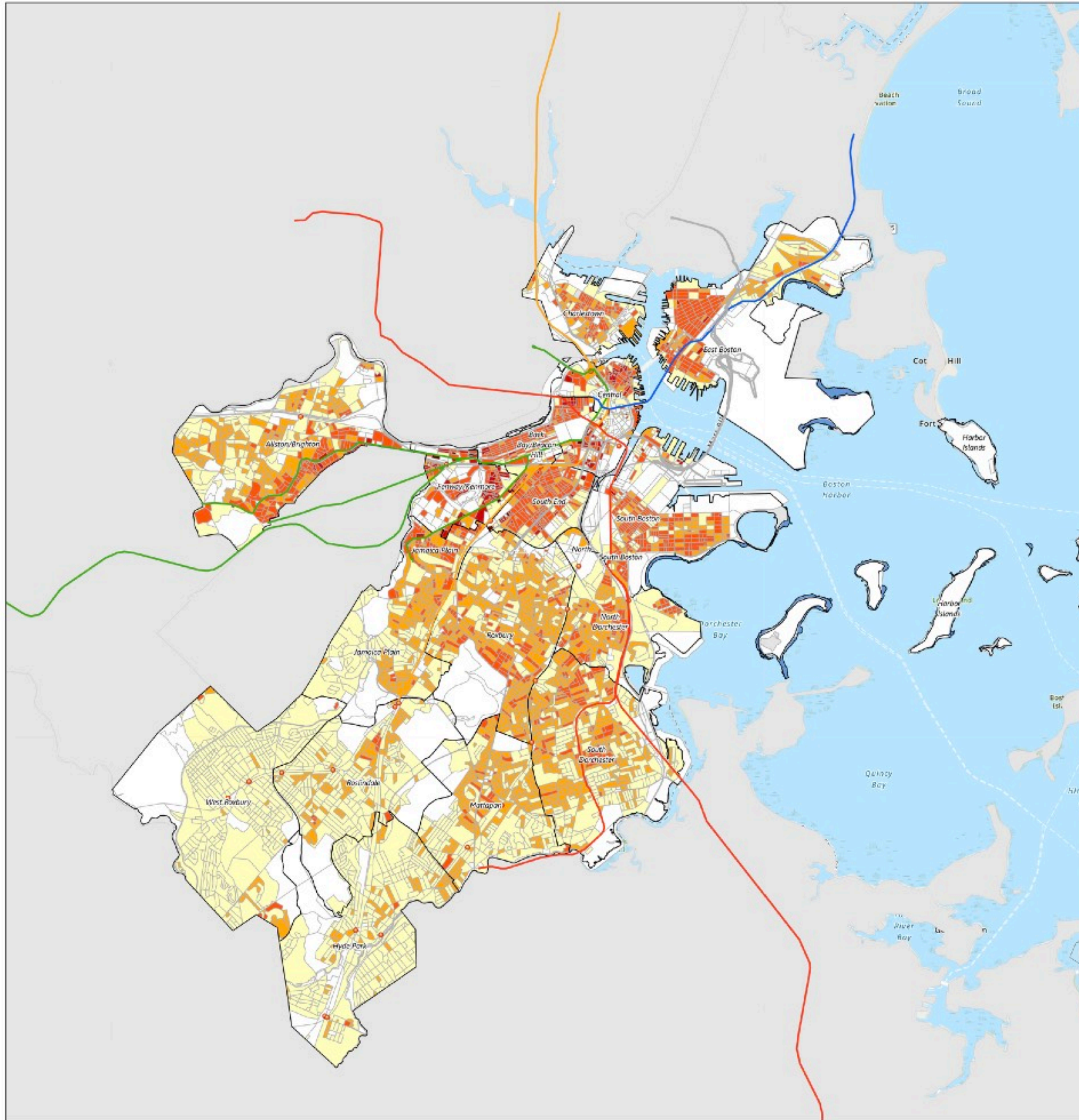
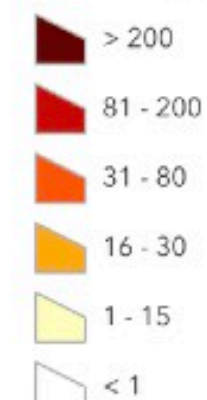


Subway Lines

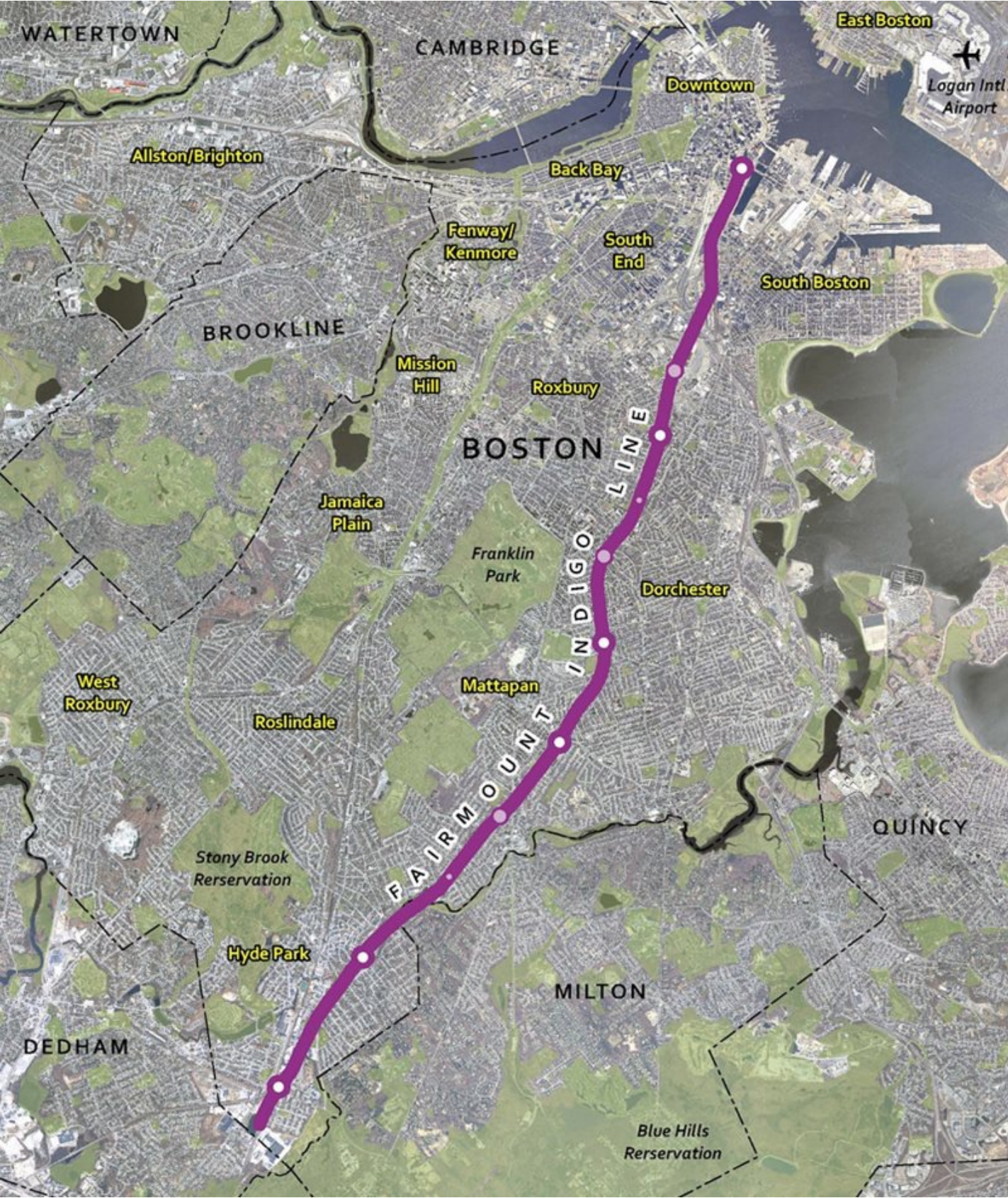


Blocks PopDensity

Population per Acre



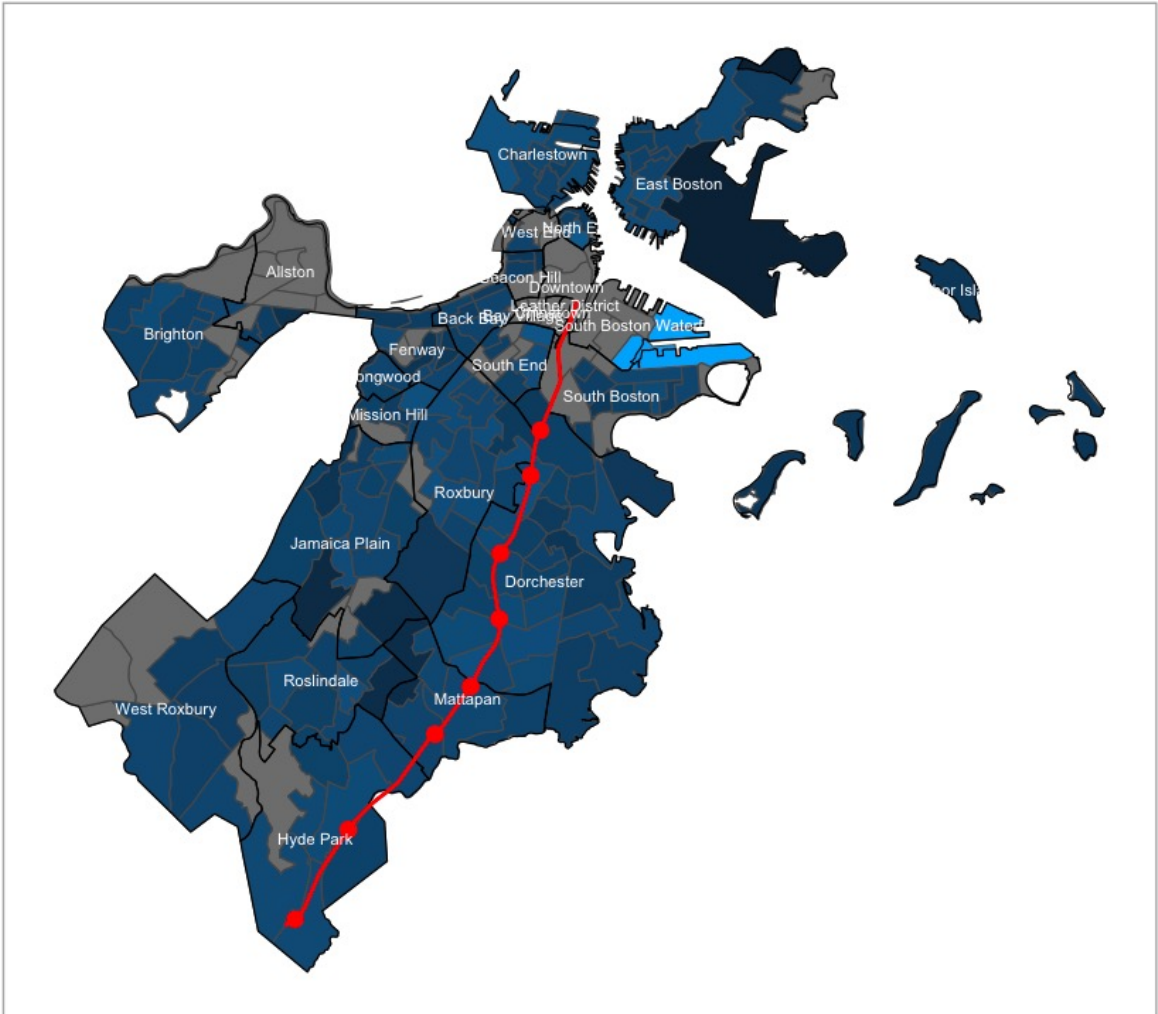
Accessibility to Fairmount Corridor in Boston City



Fairmount Planning Initiative The Fairmount Line is the only Massachusetts Bay Transportation Authority (MBTA) commuter rail branch serving Boston through downtown, South Boston, Roxbury, Dorchester, Mattapan, and Hyde Park neighborhoods.

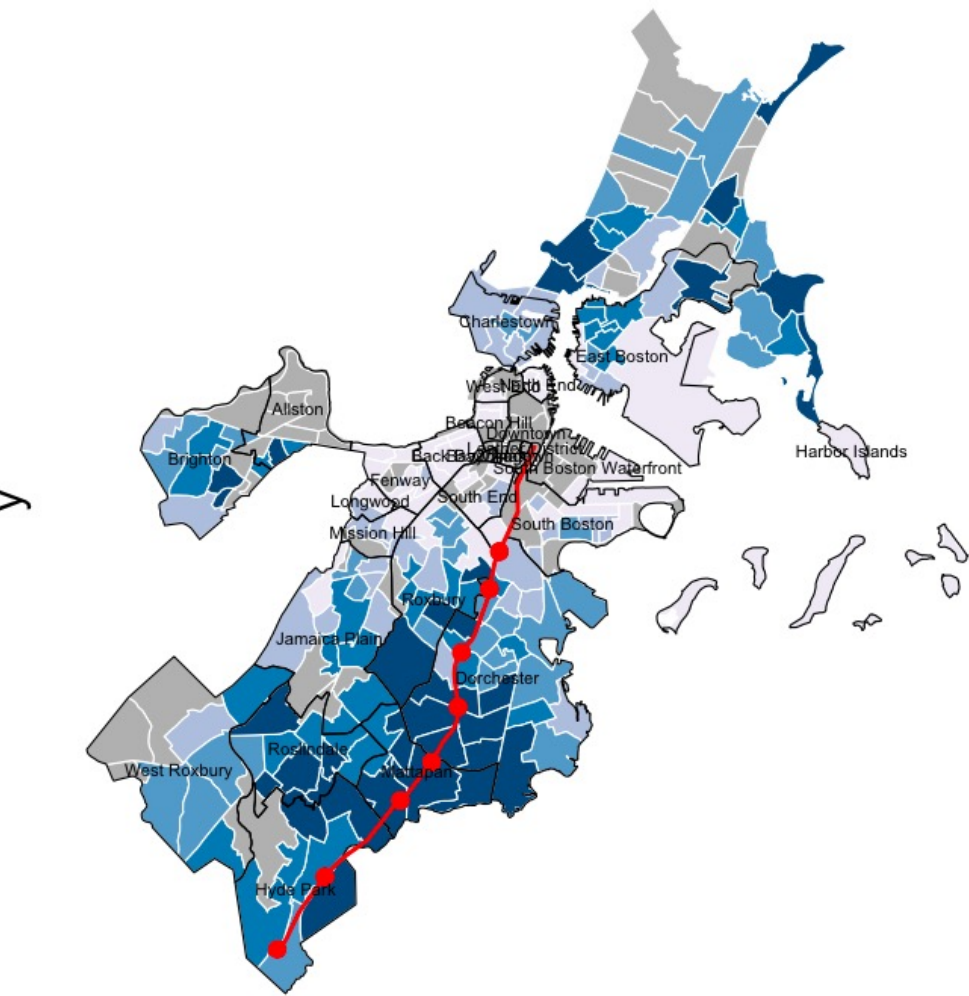
Understanding accessibility and disparity between these neighborhoods.

Fig 3 Population Change in Boston City



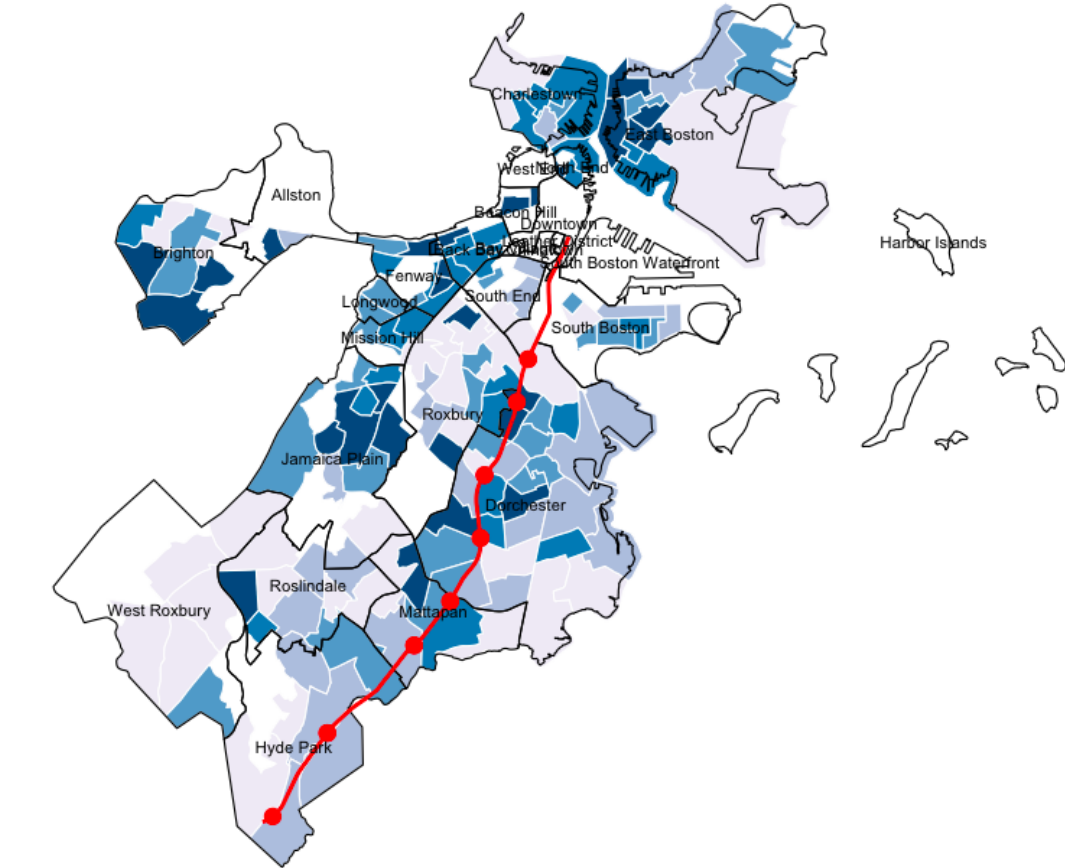
Source: ACS, 2021 & 2011

Percentage of Workers with Public Transportation by Census Tract



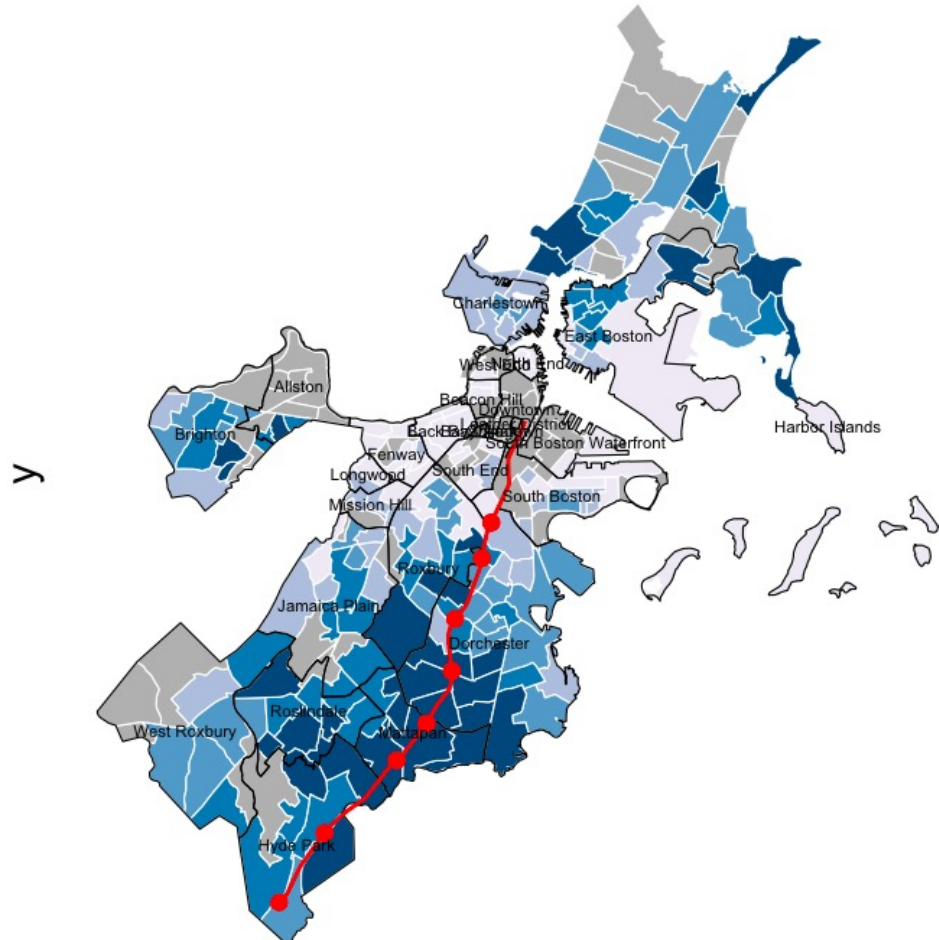
Source: US Census Bureau ACS 5-Year Estimates, 2019

Bus Stations per Census Tract in Suffolk County
Number of Bus Stations



Source: Census data and Bus Stations data

Average Commute map by Census Tract in Suffolk County



Source: US Census Bureau ACS 5-Year Estimates, 2019