NATIONAL WALKABILITY INDEX

PROJECT 4

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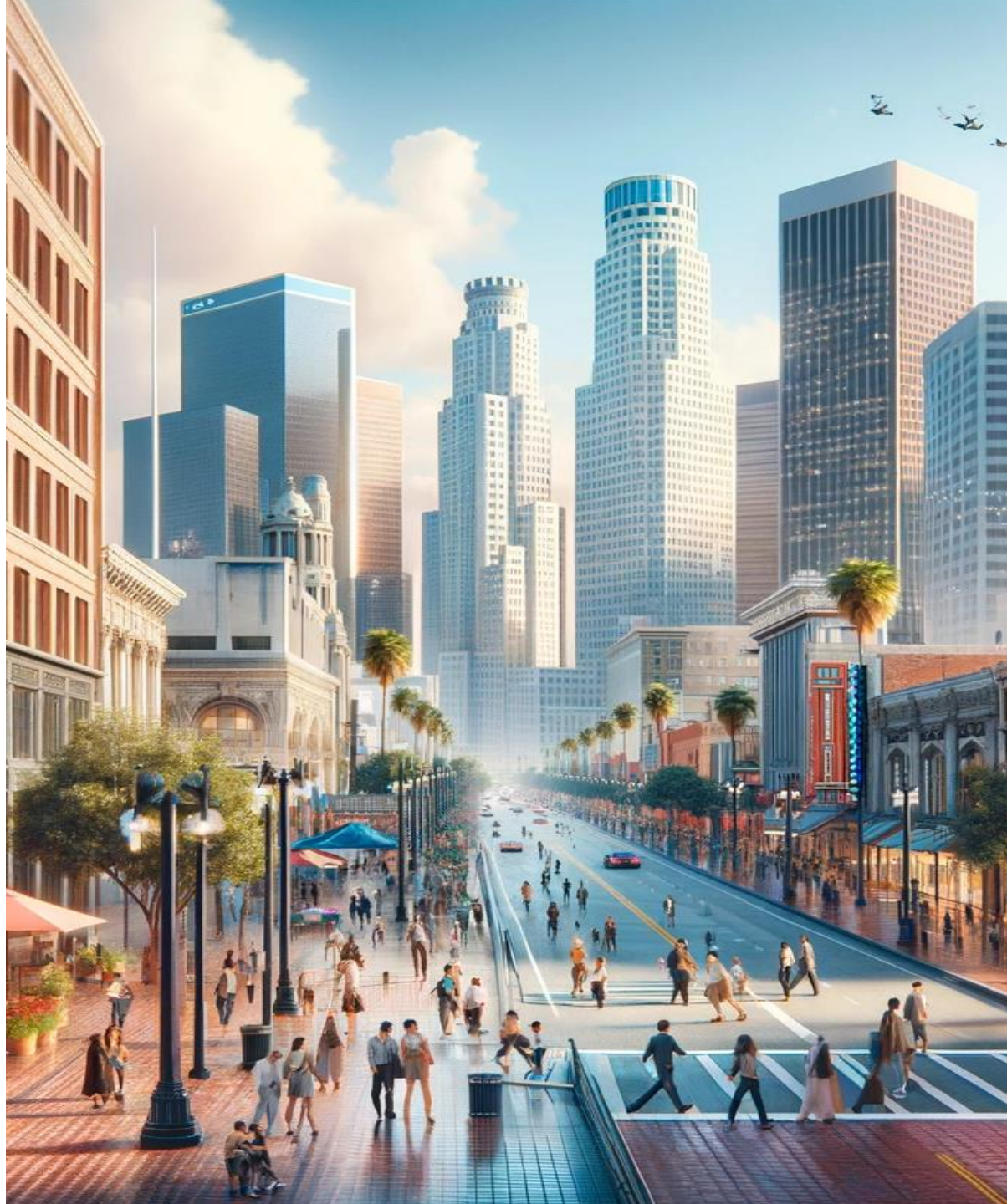


INTRODUCTION

- The definition of walkability is simple: a walkable place that is easy to navigate on foot.

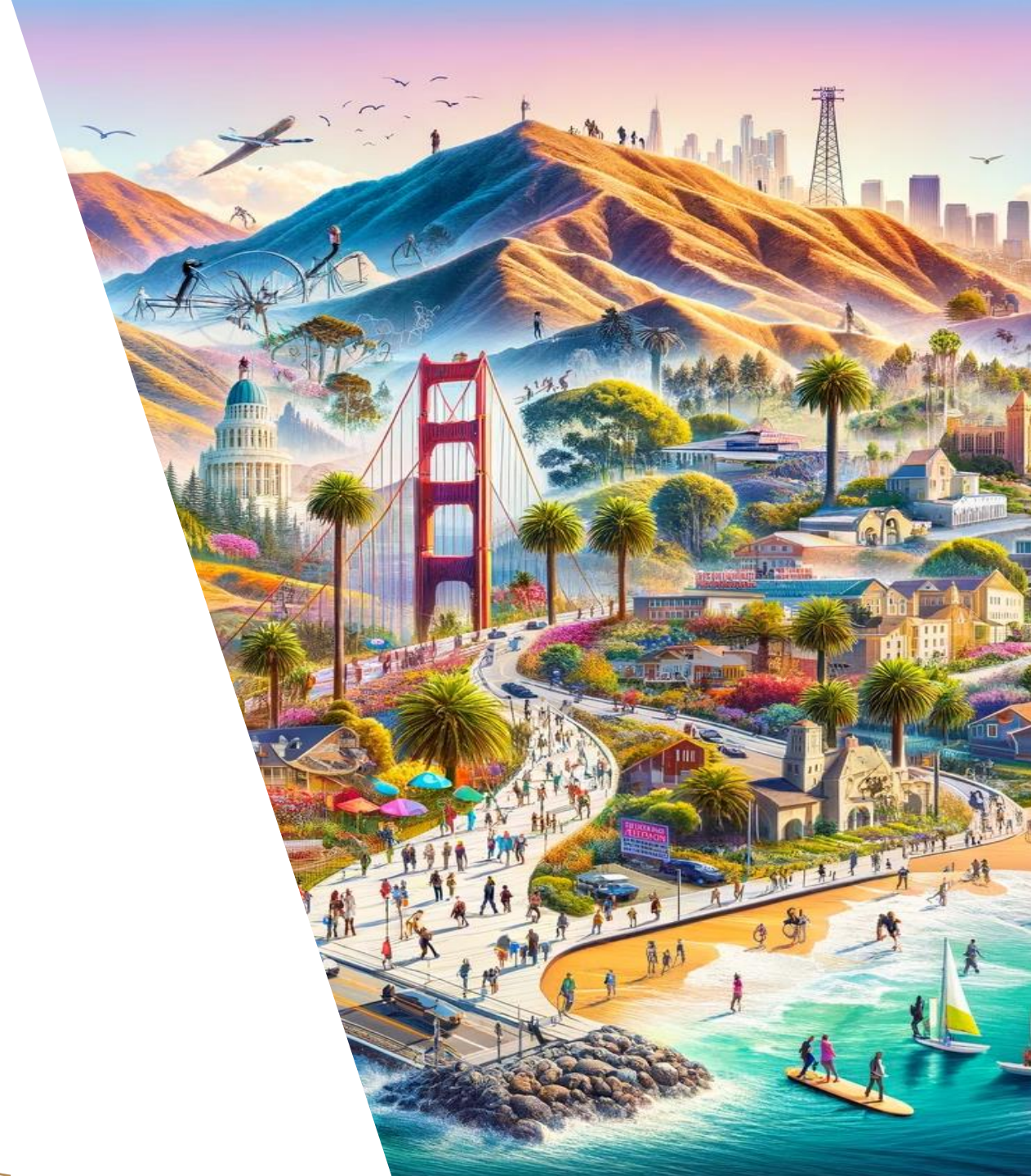
- Neighborhoods nationwide are changing – former parking lots and industrial sites are being replaced by homes and mixed-use spaces, such as apartments and condos above offices and retail. People prefer areas with easy access to amenities like transit and restaurants, driving demand for walkable communities. These communities vary based on location and access to public transit.

- We specifically took a closer look at three states – Texas, California, and New York – to determine walkability and how accessible public walking spaces are in these areas.

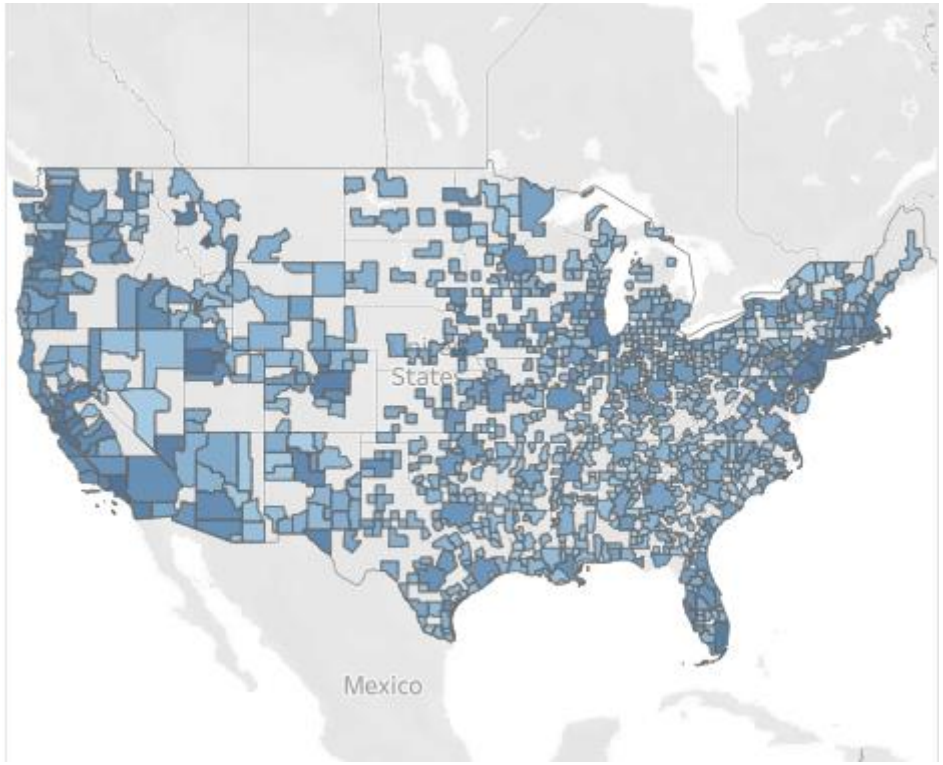
OBJECTIVE

THIS DATASET WILL BE USED TO BUILD A MACHINE LEARNING MODEL THAT CAN ACCURATELY PREDICT VARIOUS OUTCOMES RELATED TO URBAN PLANNING, REAL ESTATE, PUBLIC HEALTH, AND TRANSPORTATION. IT CONTAINS INFORMATION REGARDING WALKABILITY IN DIFFERENT CITIES ALL OVER THE UNITED STATES. USING THESE PREDICTIONS, WE SHOULD BE ABLE TO GET VALUABLE INSIGHTS INTO VARIOUS ASPECTS OF URBAN LIFE AND INFORM FUTURE DECISION-MAKING PROCESSES.

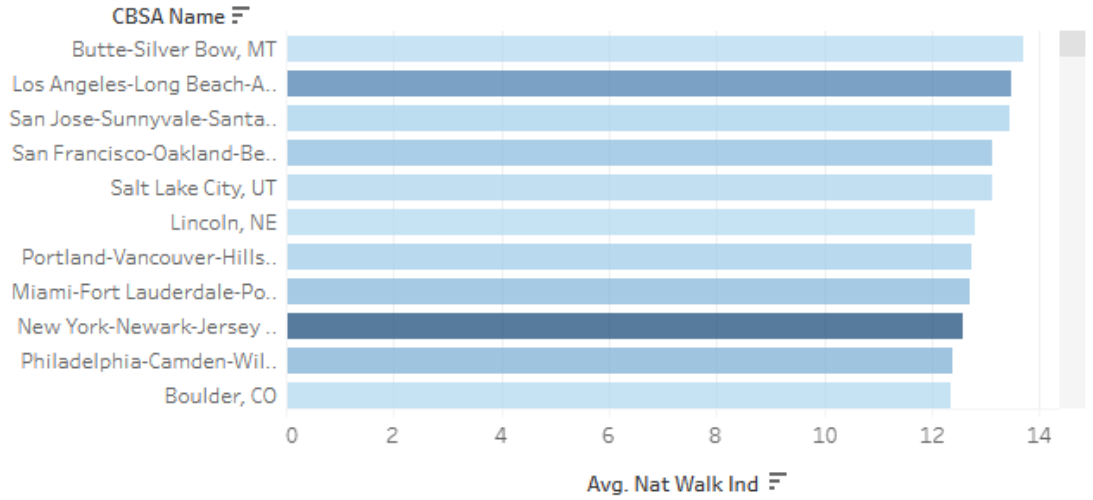
THIS DATASET CONTAINS THOUSANDS OF COLUMNS AND ROWS OF DATA. OUR FIRST STEP WAS CLEANING OUR DATA AND PUTTING IT IN A MORE USABLE FORM FOR MACHINE LEARNING AND VISUALIZATIONS.



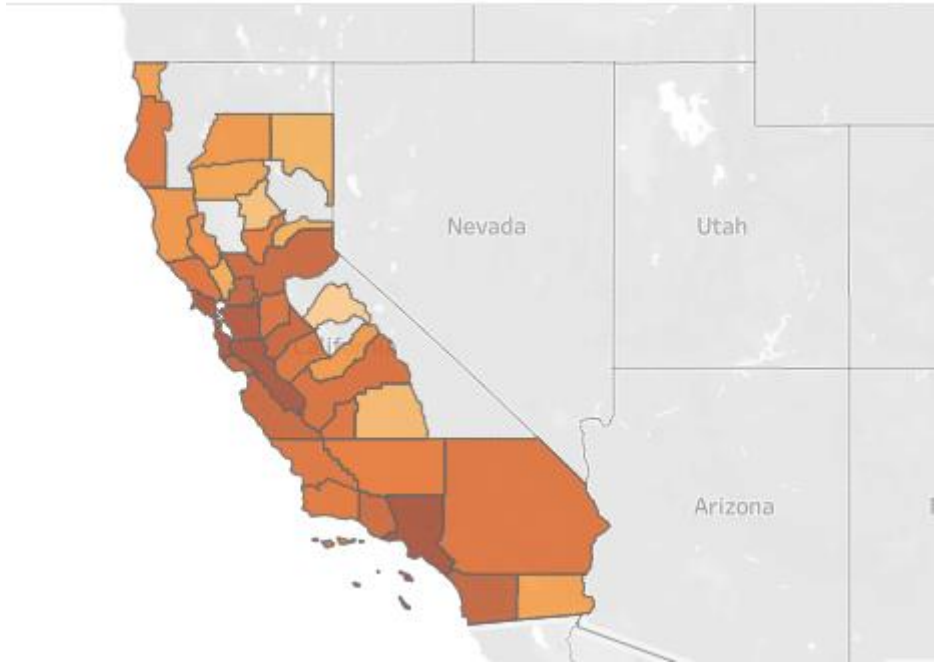
U.S.



[US, TX, NY & CA Walkability Index | Tableau Public]



CALIFORNIA



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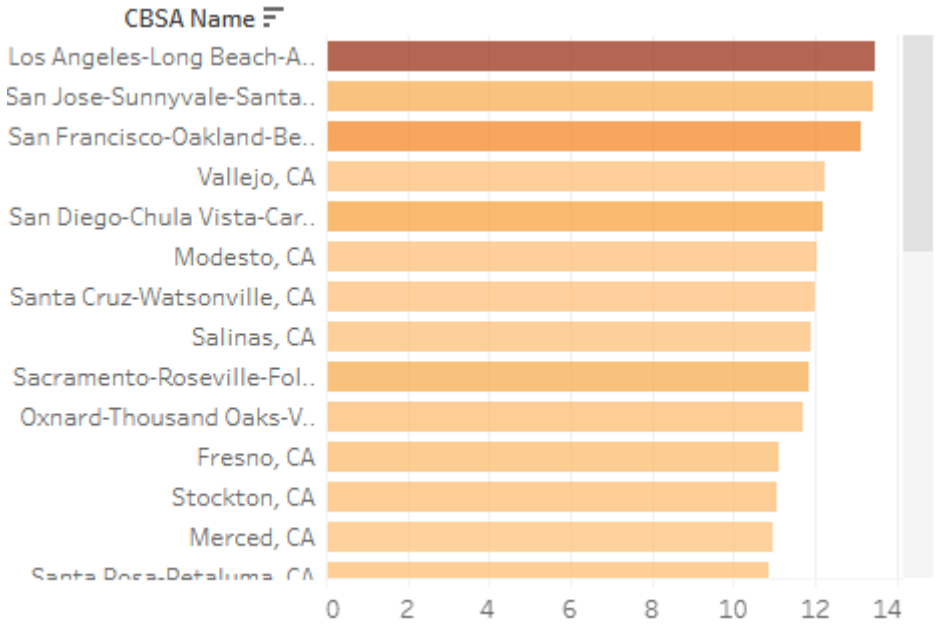
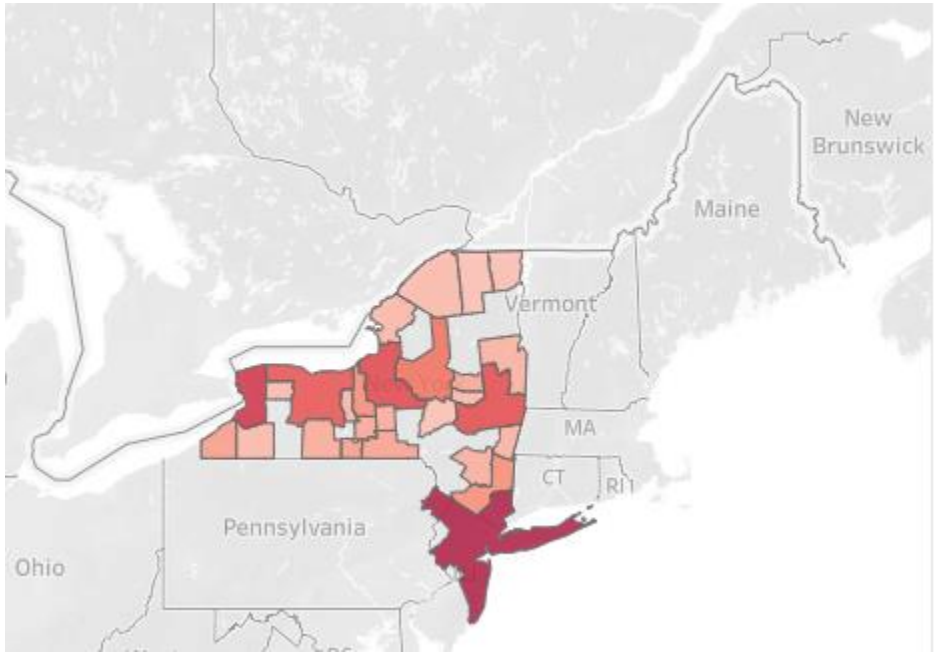


NEW YORK



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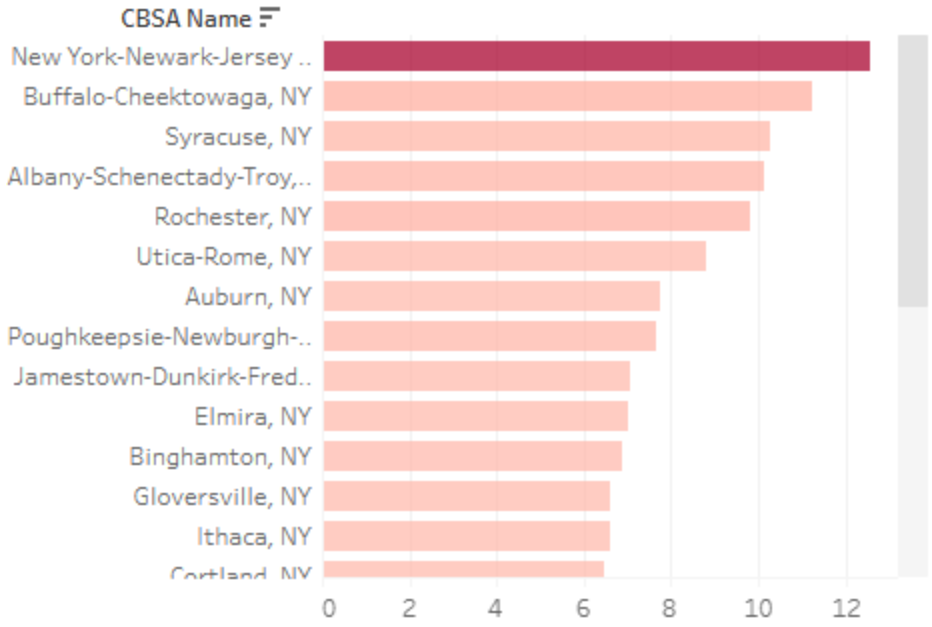
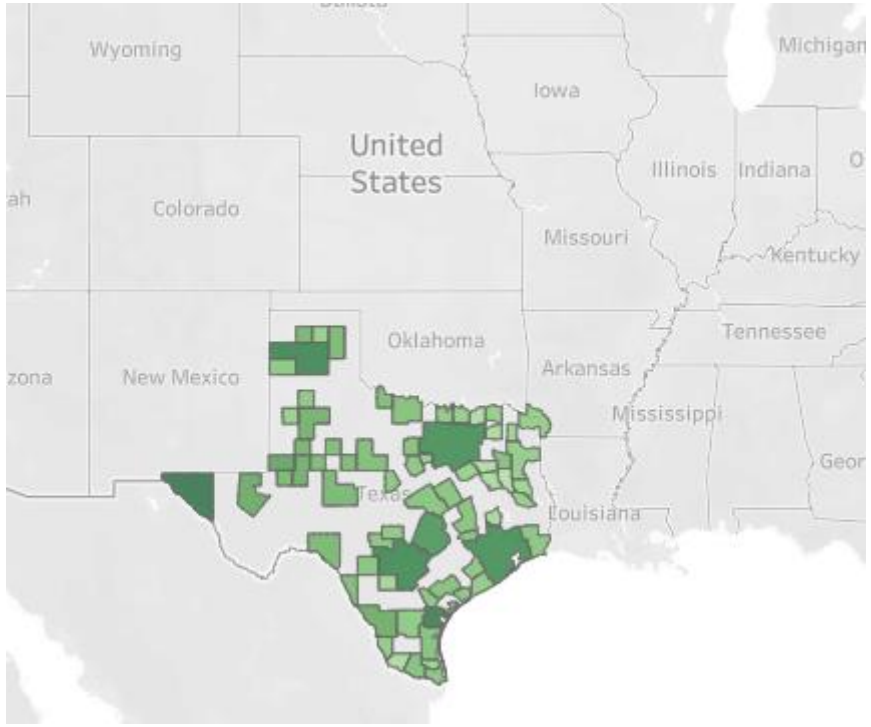


TEXAS



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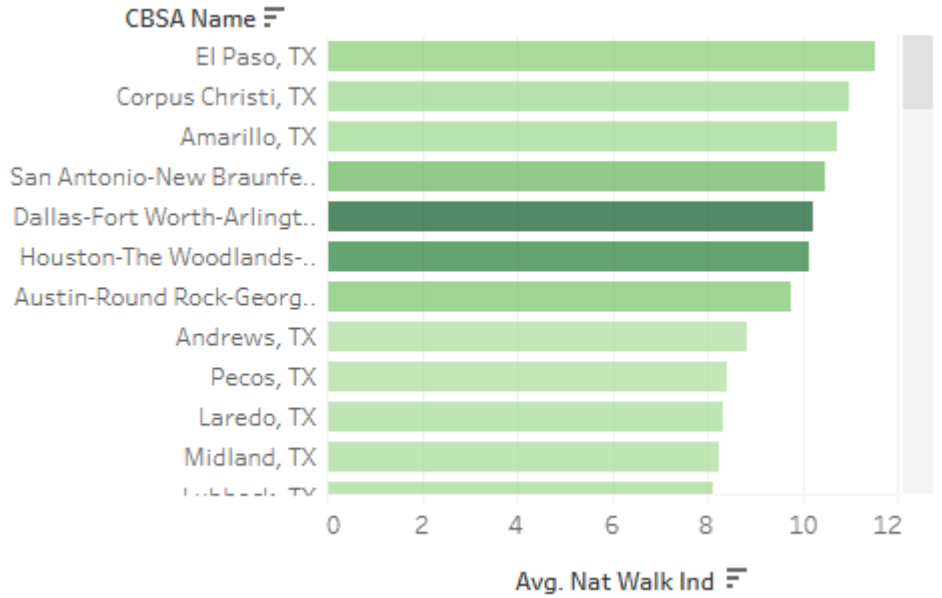
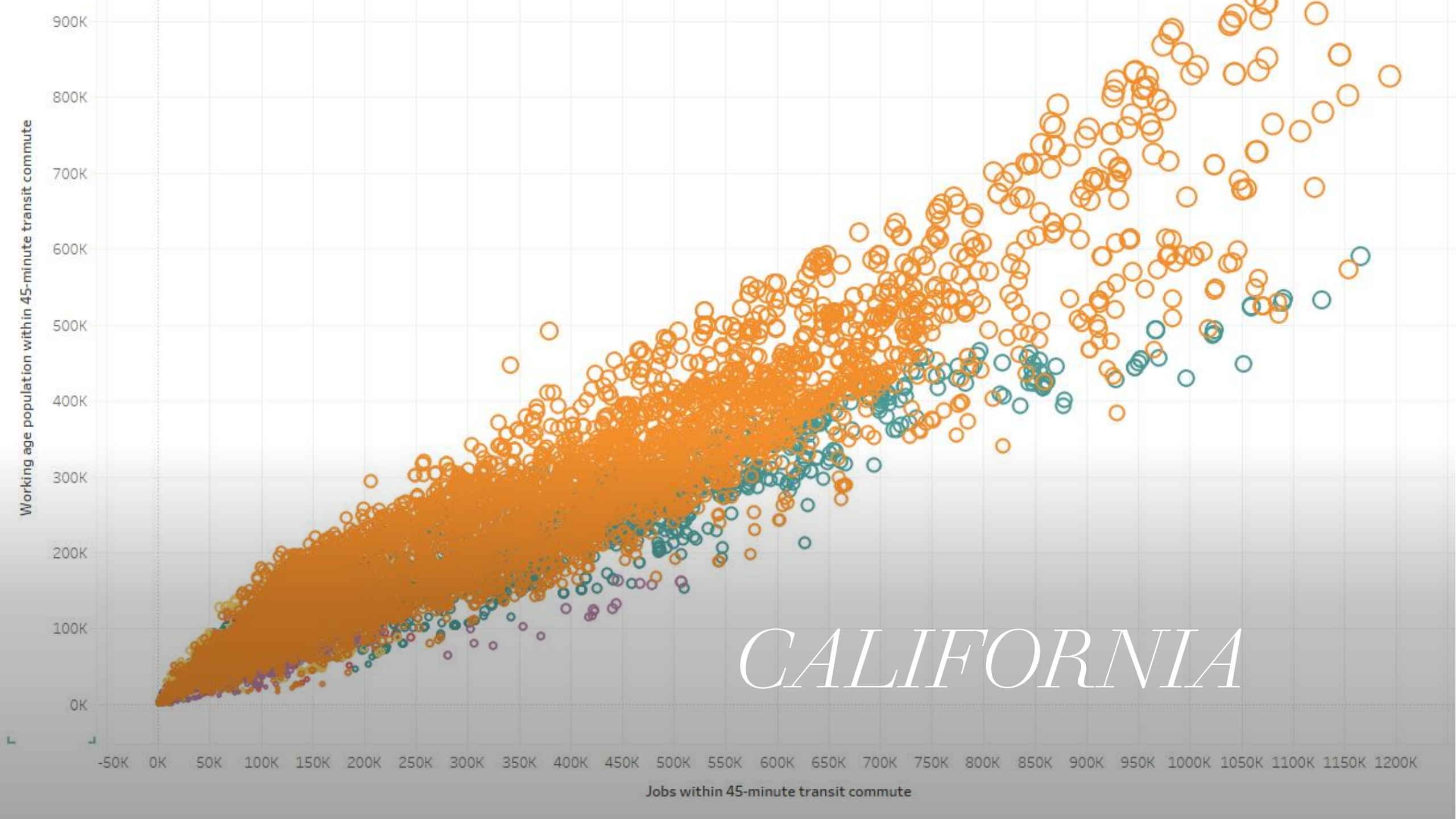
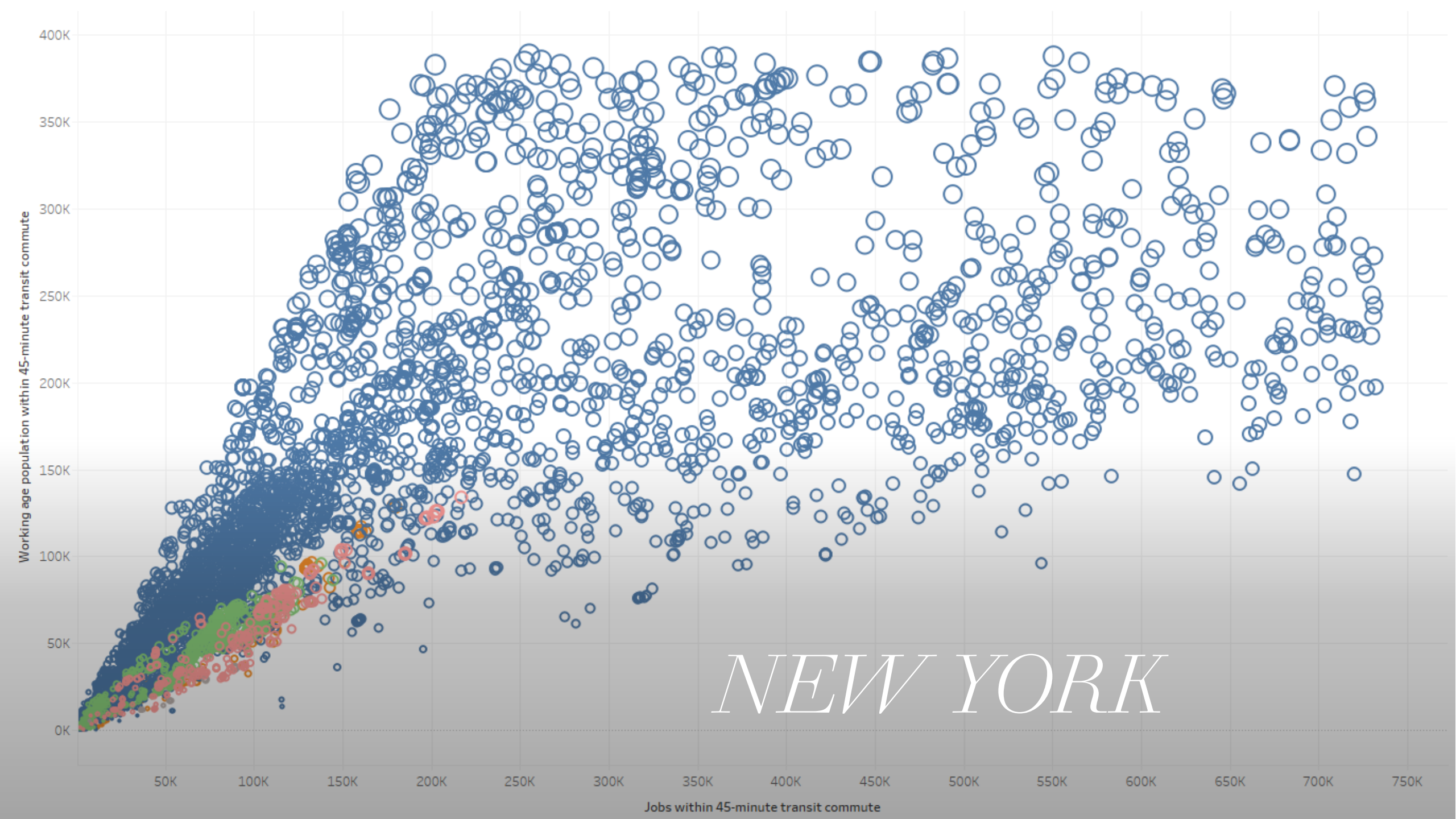



Working age population within 45-minute transit commute
900K
800K
700K
600K
500K
400K
300K
200K
100K
0K
-50K
0K
50K
100K
150K
200K
250K
300K
350K
400K
450K
500K
550K
600K
650K
700K
750K
800K
850K
900K
950K
1000K
1050K
1100K
1150K
1200K
Jobs within 45-minute transit commute
CALIFORNIA


NEW YORK
Working age population within 45-minute transit commute
400K
350K
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650K
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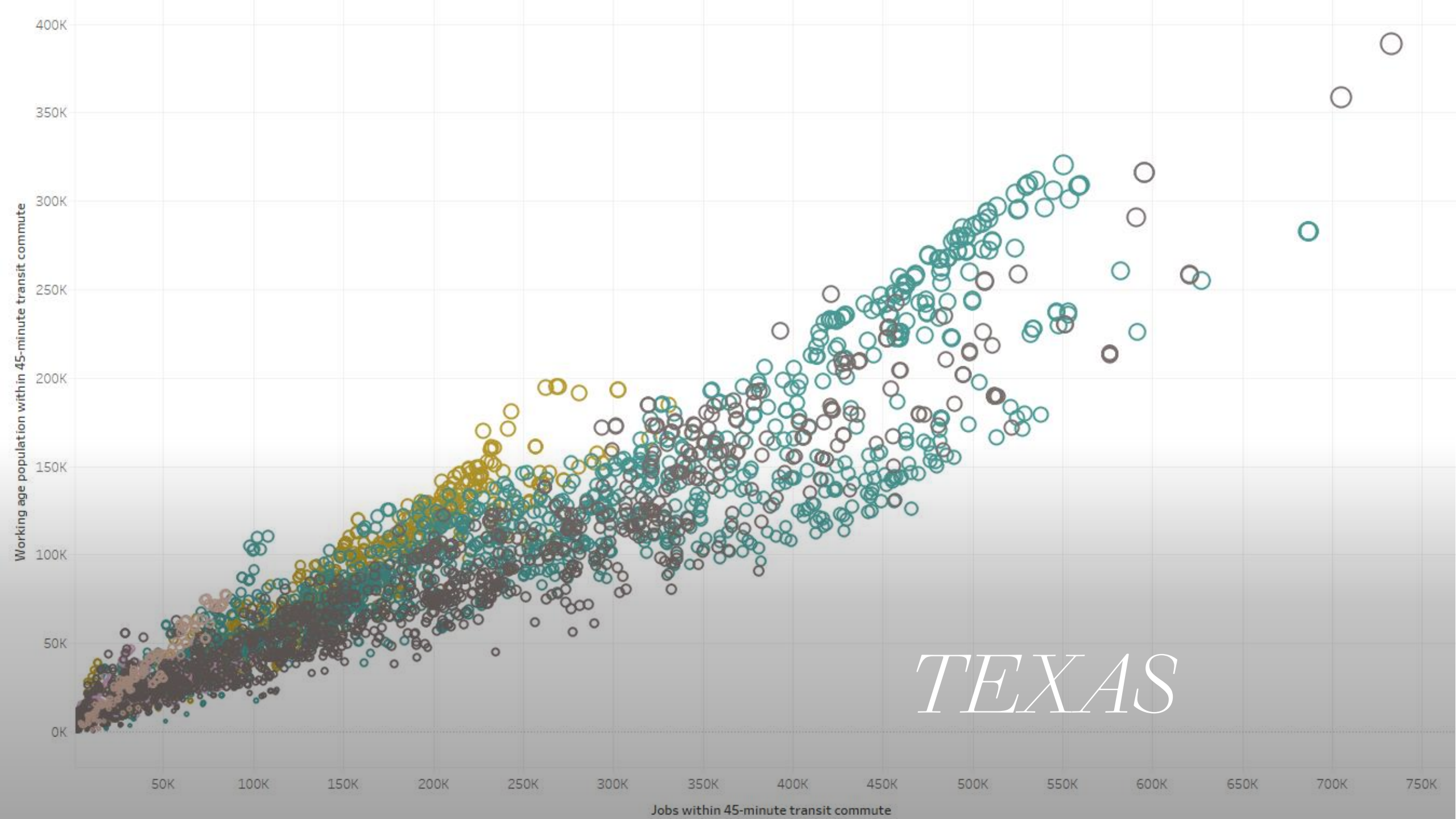
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Jobs within 45-minute transit commute
TEXAS

FINAL TAKEAWAYS

- Why does this matter? High walkability scores are linked with lower pollution levels, healthier lifestyles, and stronger local economies. City planners and policymakers can leverage this data to enhance urban design, making our cities more accessible and enjoyable to navigate on foot. As community members, we can advocate for more walkable spaces, contributing to the vibrancy and livability of our neighborhoods.

CREDITS & SOURCES

Walkability Index - Catalog (data.gov)

national_walkability_index_methodology_and_user_guide_june2021.pdf (epa.gov)

THANK YOU

Questions or Comments?