

# PROJECT 2 - DATA VISUALIZATION AND STORYTELLING

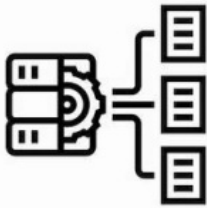
## RURAL DEVELOPMENT - USDA SINGLE FAMILY HOUSING

A y u s h , B a b a t i s e , H u u D a n g , M i c h a e l



Title Page	ETL Pipeline	Investments by Program Area (2019-2023)	Investment Type
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## ETL Process



### Extraction

We took data off our USDA website, all data ranging from 2012- 2024



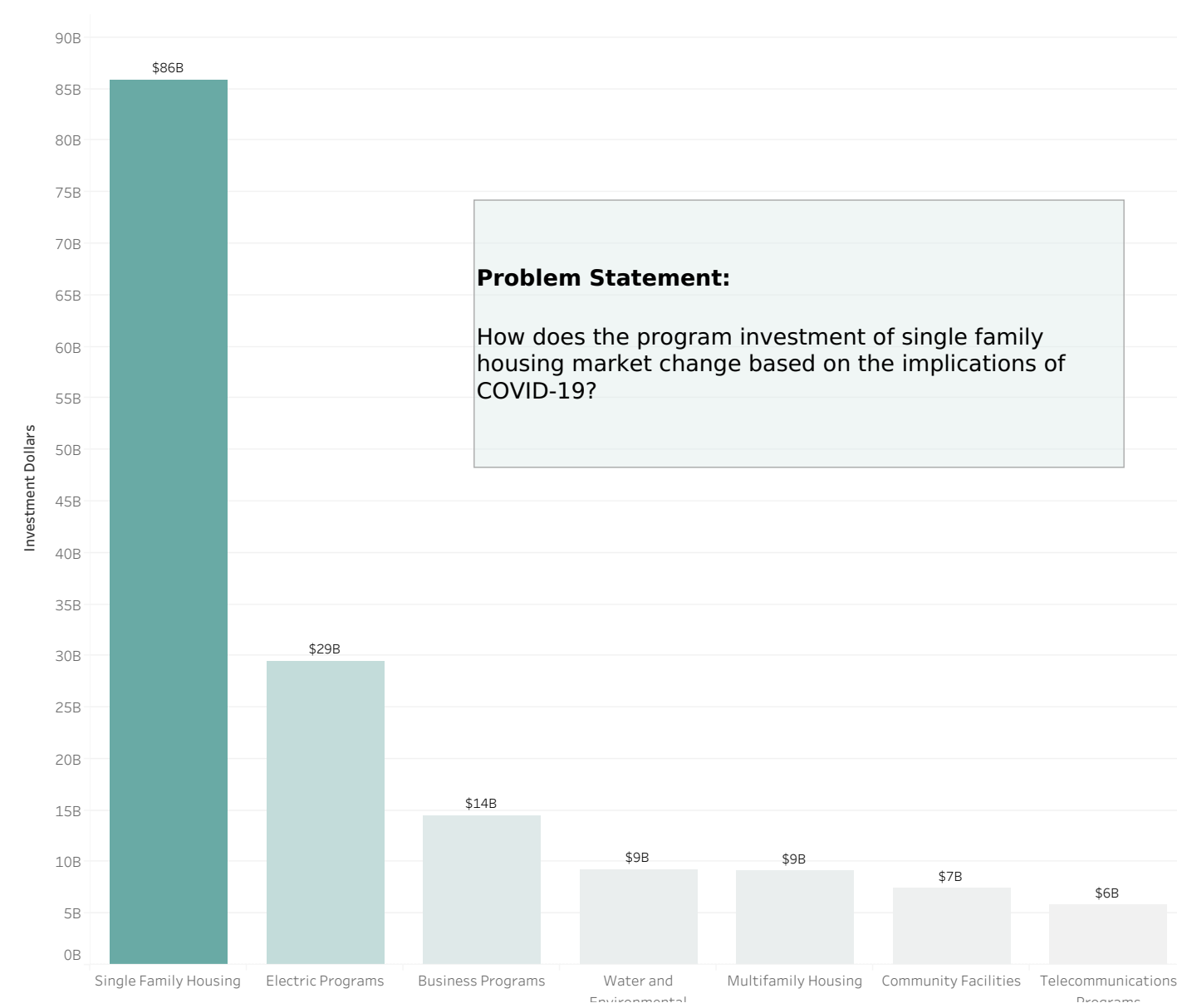
### Transforming

Re-evaluated outliers and transformed data using preprocessing standards



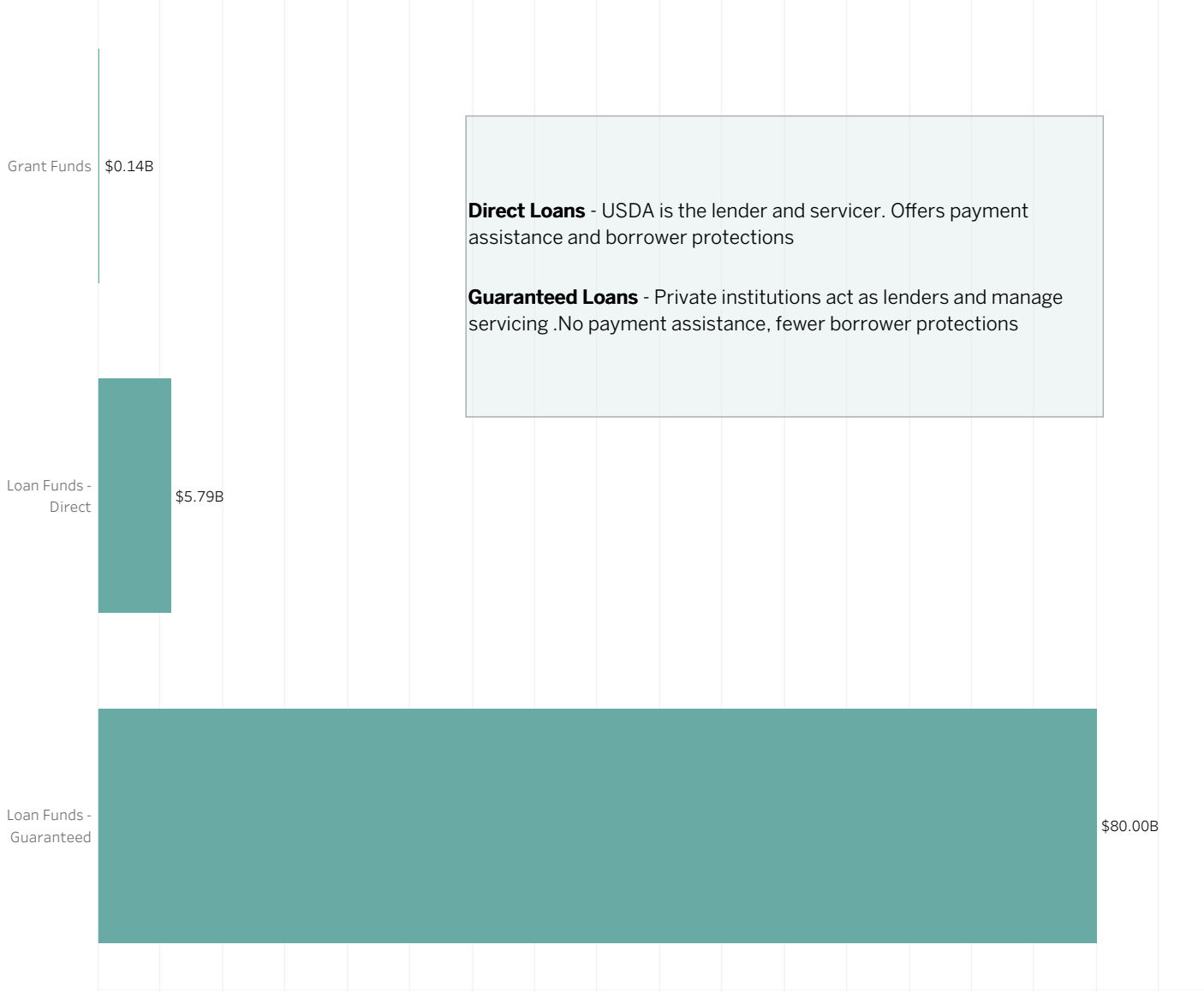
### Loading

Performed EDA on data and aggregated charts to display graphs, uploaded worksheet to Tableau Cloud

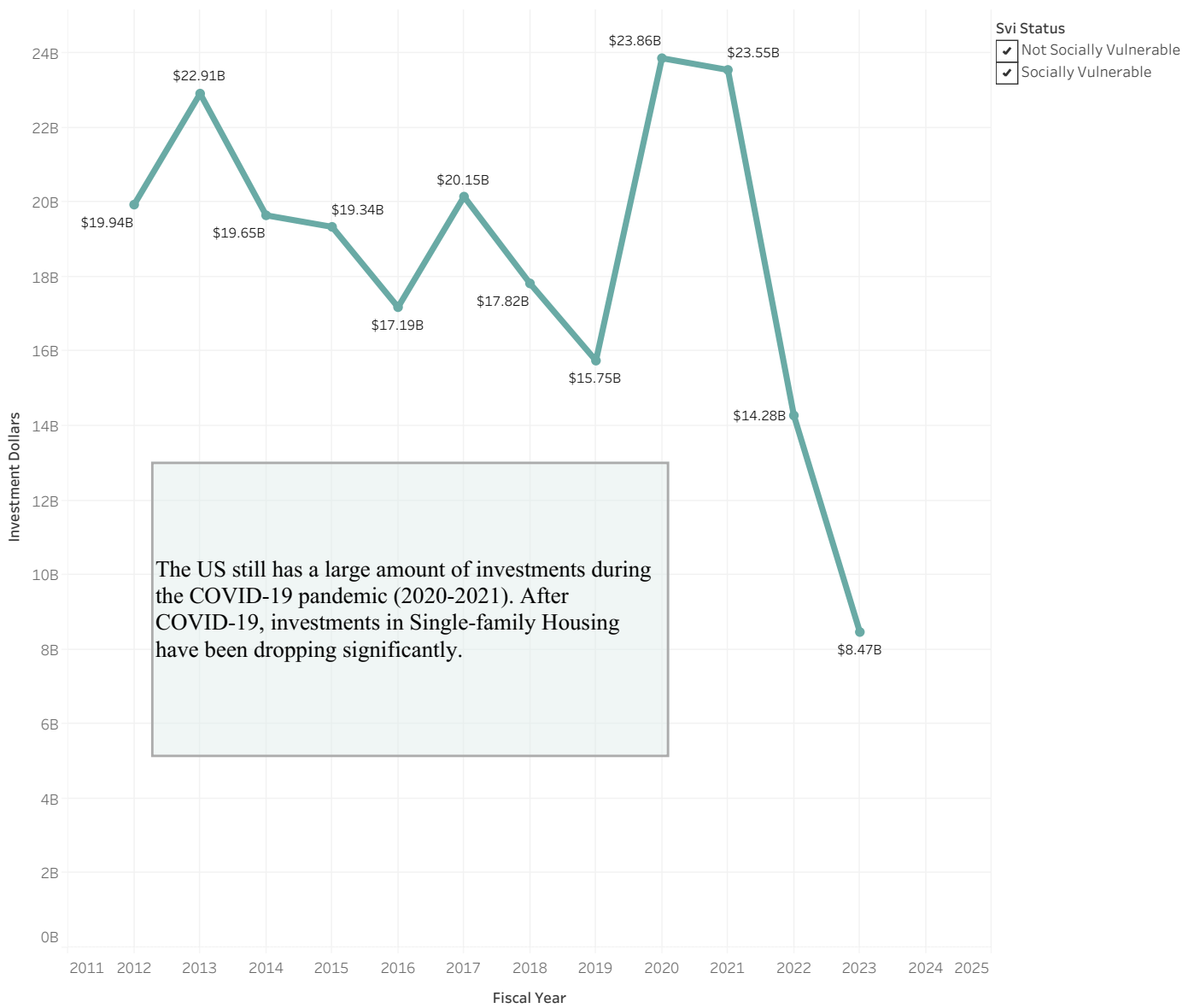


ETL Pipeline	Investments by Program Area (2019-2023)	Investment Type	Investments over the Years (2012-2023)	Investment by States
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Investment ..

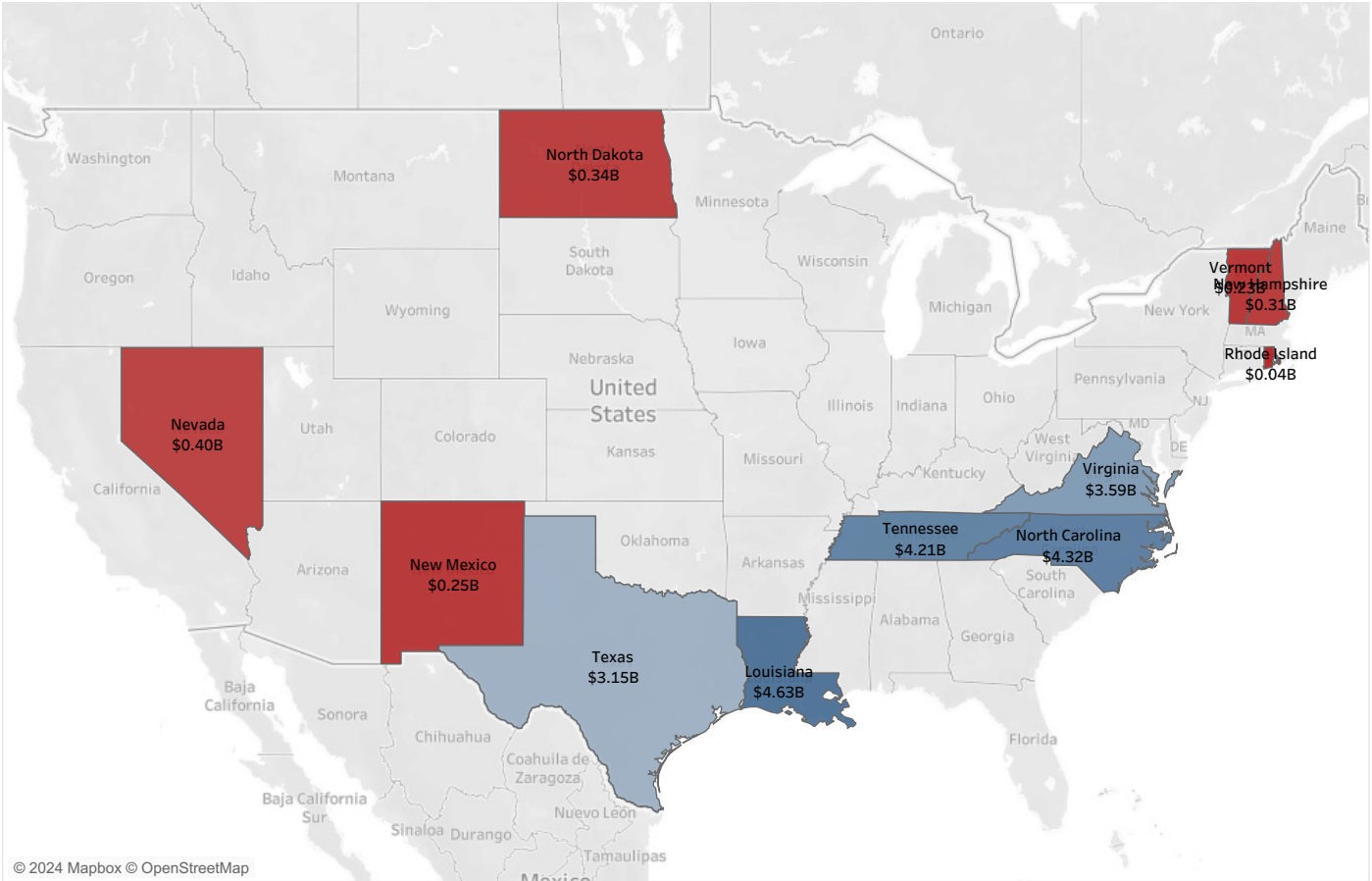


Investments by Program Area (2..	Investment Type	Investments over the Years (2012-2023)	Investment by States	Top 5 & Bottom 5 States (2019-2023)
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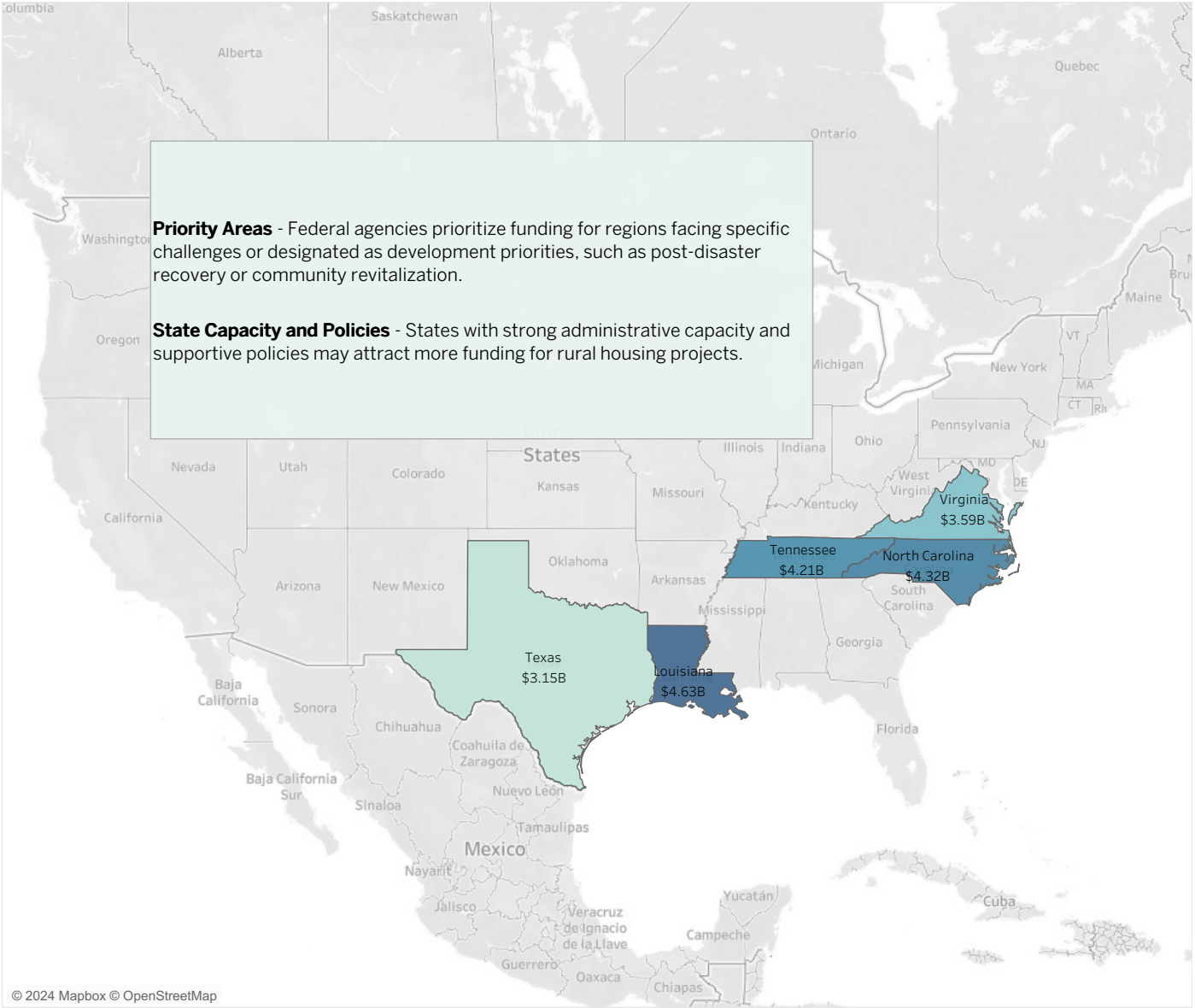


Investments over the Years (2012-...	Investment by States	Top 5 & Bottom 5 States (2019-2023)	Why Southern States?	Top 3 Highest Investment Timeline
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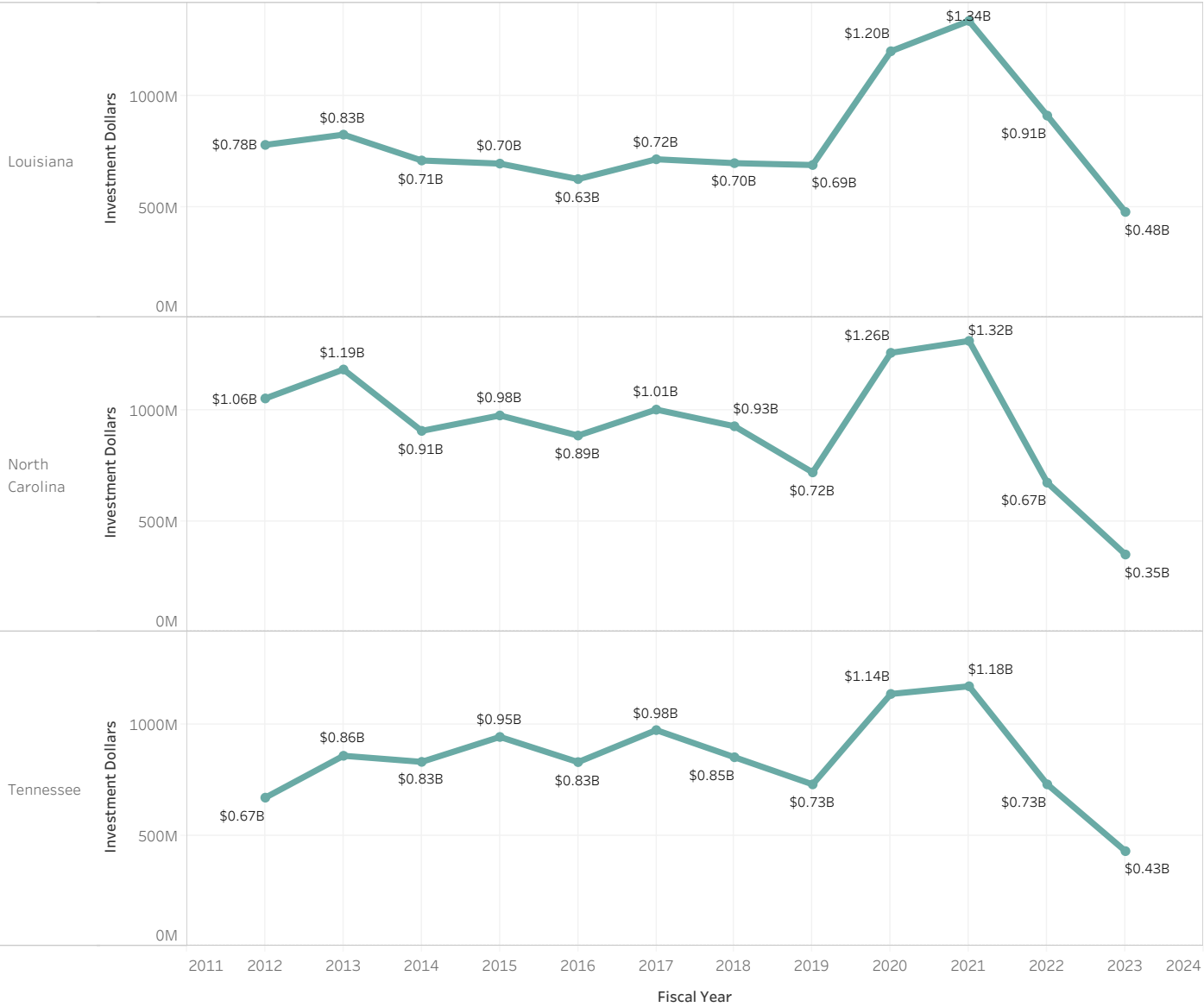


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Investment by States	Top 5 & Bottom 5 States (2019-2023)	Why Southern States?	Top 3 Highest Investment Timeline	Top 3 Highest Investment Timelin..
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Why Southern States?	Top 3 Highest Investment Timeline	Top 3 Highest Investment Timeline cont.	Ranking - Race	Reference
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- 1. Louisiana:** The state's economic challenges, especially in rural areas, are compounded by frequent natural disasters like hurricanes and floods, which disrupt lives and lead to significant economic losses. For instance, property buyouts are a critical strategy employed to mitigate flood risks, and federal funding supports these efforts by helping relocate communities from high-risk areas ([Pew Trusts](#)).
  - 2. North Carolina:** North Carolina's diverse geography includes rapidly growing rural areas that require enhanced infrastructure to support this growth. Investments in North Carolina have been focused on improving broadband access and educational opportunities through technology, such as the USDA's investment in telemedicine and distance learning, which are crucial for rural health and education systems affected by the pandemic ([USDA](#)).
  - 3. Tennessee:** Like North Carolina, Tennessee has seen investments aimed at improving infrastructure that supports both economic development and community resilience. This includes enhancing broadband connectivity and educational facilities, crucial for remote learning and healthcare, which became even more important during the COVID-19 pandemic ([USDA](#)).

Top 3 Highest Investment Timeline

Top 3 Highest Investment Timeline cont.

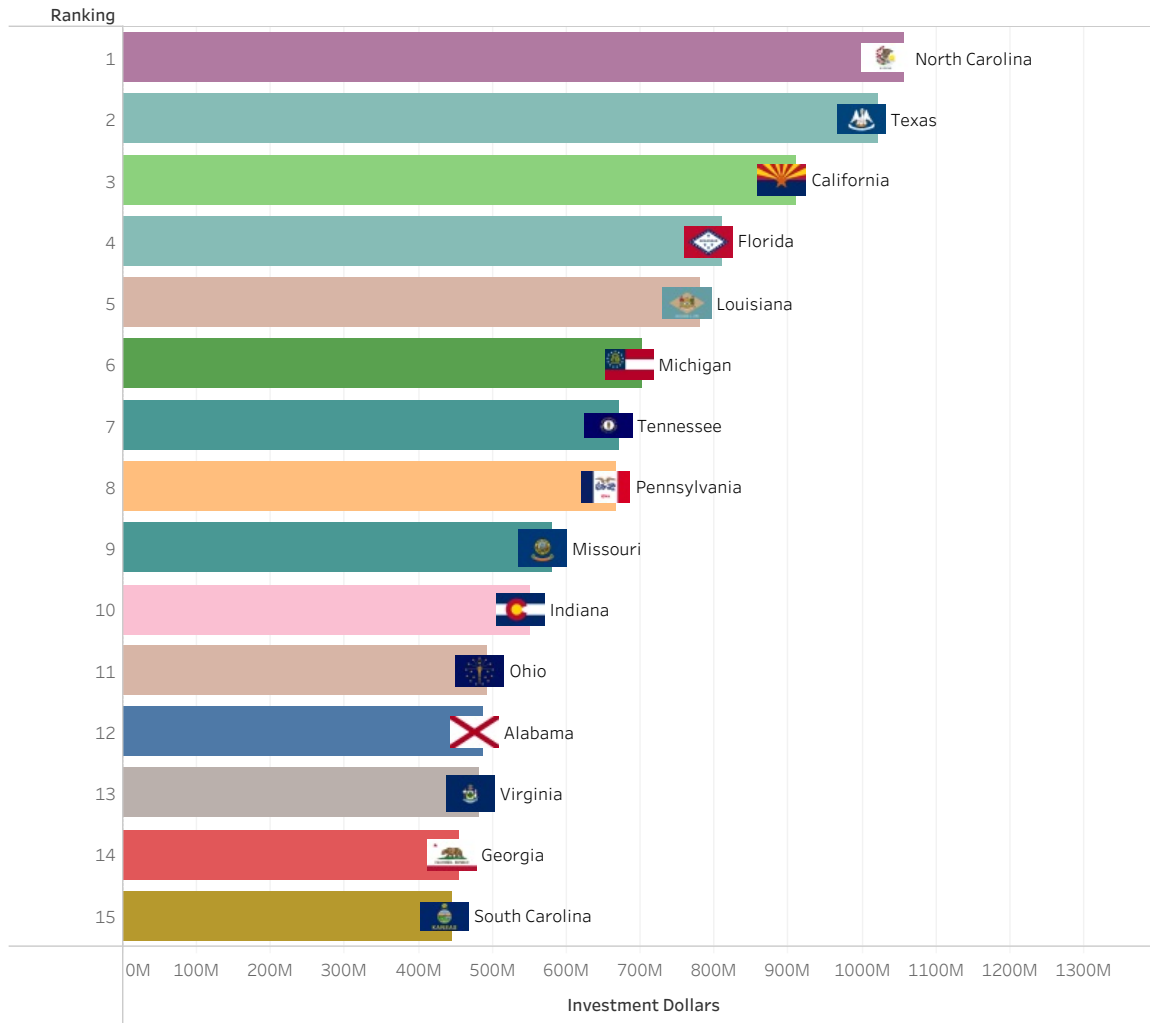
Ranking - Race

Reference

2012

Fiscal Year  
2012

☐ Show history



Top 3 Highest Investment Timeline	Top 3 Highest Investment Timeline cont.	Ranking - Race	Reference
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Reference

Rural Development: Key Priorities - <https://www.rd.usda.gov/priority-points>

Property Buyouts Can Be an Effective Solution for Flood-Prone Communities - <https://www.pewtrusts.org/en/research-and-analysis/reports/2022/04/property-buyouts-can-be-an-effective-solution-for-flood-prone-communities>

Single Family Housing Programs - <https://www.rd.usda.gov/programs-services/single-family-housing-programs>

Rural Infrastructure Projects During Investing in America Tour-  
<https://www.usda.gov/media/press-releases/2024/02/21/biden-harris-administration-announces-over-770-million-rural>

USDA Invests \$5.2 Billion to Build and Improve Critical Rural Infrastructure -  
<https://www.usda.gov/media/press-releases/2021/12/16/usda-invests-52-billion-build-and-improve-critical-rural>