

Public-Private
Partnerships in Transit:
Vanderbilt University
and WeGo Public
Transit

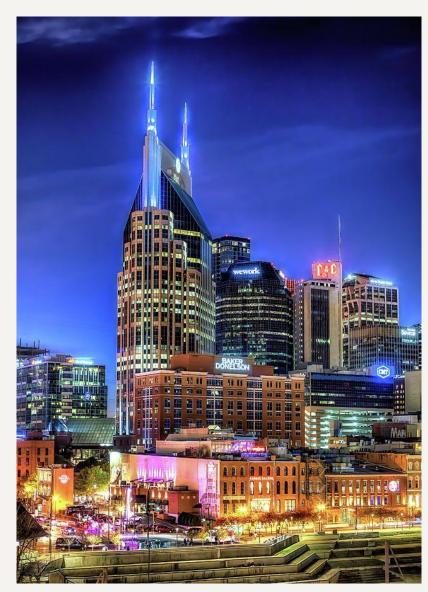
Syed Ali



Population and Public Transit in Music City



- Vanderbilt University is located in Nashville, largest city in TN with a population of 683,622
- Combined Metropolitan Population of 1,315,000
- City and Metro Area have grown by 125 and 150 percent respectively since 2000
- Public Transit has lagged in Nashville despite its growth –
 carries around 2.5% of the population daily
- Seattle and Denver, cities of similar sizes, carry around 23% and 13% of their population daily
- Nashville car dependent and congested
- According to Texas A&M, each Nashville commuter lost 66 hours and 1,465 dollars due to congestion in 2019



Context: Unlimited Access Program with WeGo



Nashville served by WeGo Public Transit

 WeGo – combination of services offered by Nashville Metropolitan Transportation Authority and Regional Transportation Authority

Bus routes around Vanderbilt: 3, 7, 75, 77

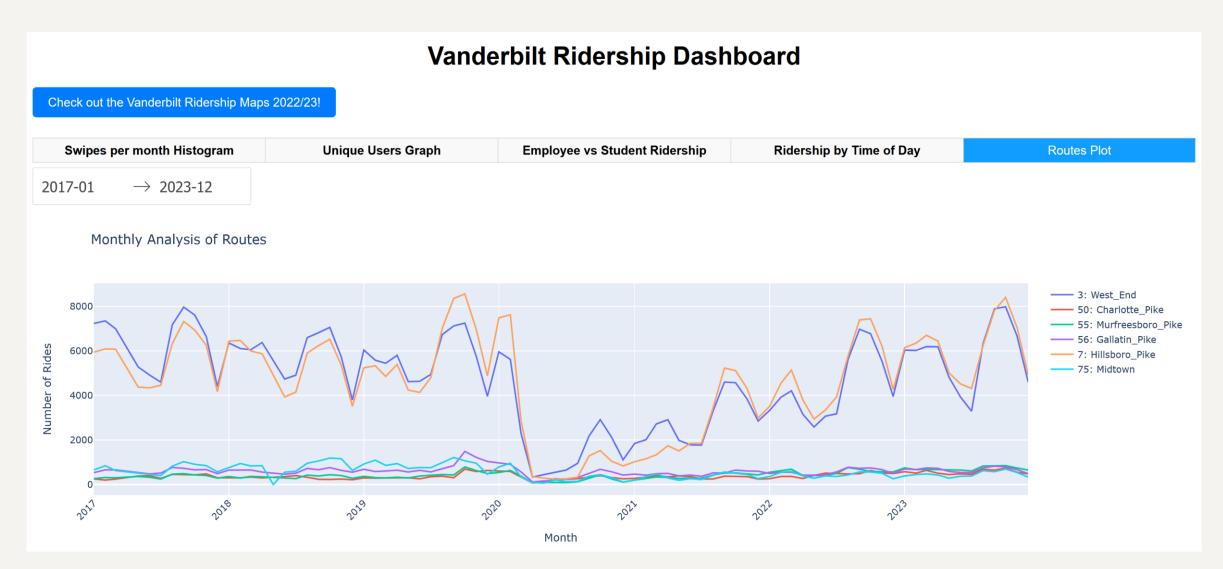
 Vanderbilt and WeGo started an Unlimited Access program for stops to and from campus

- Expanded in 2020 to ride anywhere, anytime
- 2019 estimate of 1.5-million-dollar cost
- Parking makes up 25% of Vanderbilt's campus
- One of the largest participants of WeGo's Ride program for large employers
- Over 200,000 Vanderbilt-affiliated scans in 2023



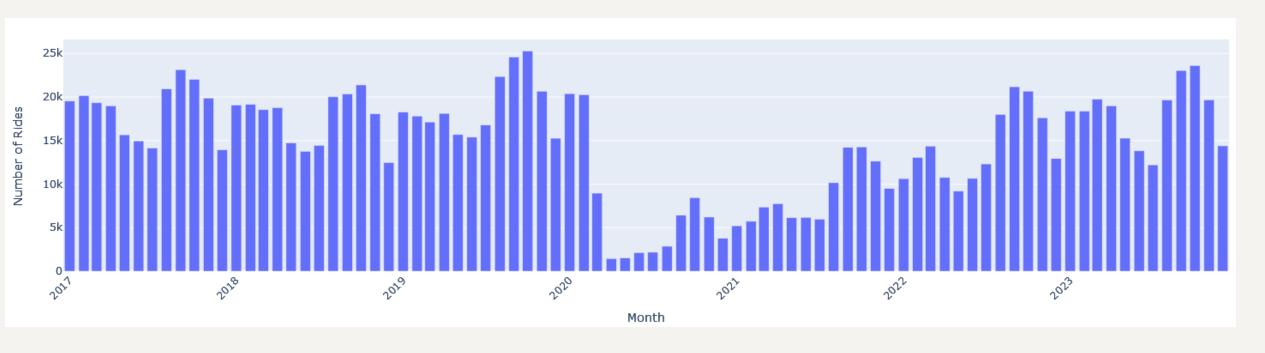
Vanderbilt-WeGo Ridership Dashboard





Monthly Ridership (January 2017- December 2023)

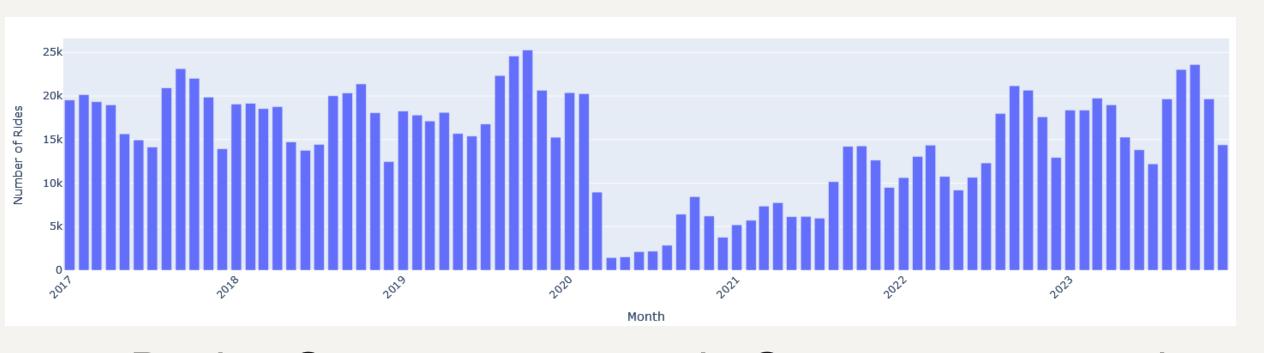




- Current Ridership is almost at Pre-Pandemic Levels and past 2017 and 2018!
- Cyclic Relationship with Academic Year

Monthly Ridership (January 2017- December 2023)

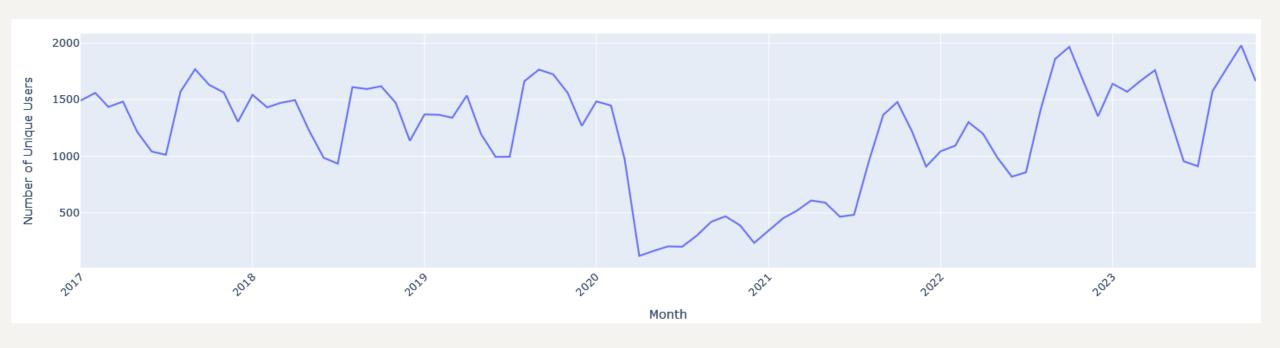




- Peaks: Oct. 2019 25.275k, Oct. 2023 23.608k
- During Academic Months of 2023 (January, February, March, April, September, October, November), there was an average of 675 scans per day.

Unique Riders (January 2017- December 2023)





- Unique Ridership is past Pre-Pandemic Levels!
- However, it is currently not as stable as it was prepandemic during non-academic months.
- Cyclic Relationship with Academic year

Unique Riders (January 2017- December 2023)

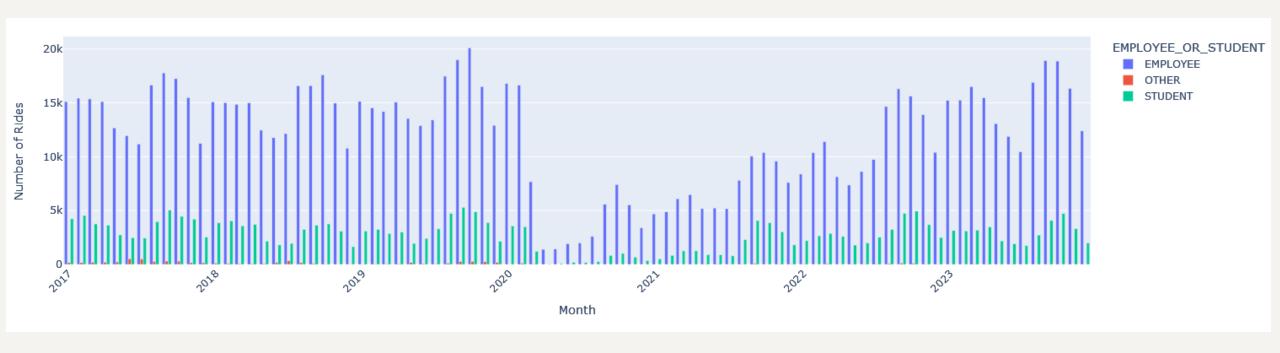




- Peaks: Sept. 2019 1767, Oct. 2022 1968, Oct.
 2023 1981
- During the Academic Months of 2023, there were 57 unique riders daily.

Employee vs Student Ridership (January 2017- December 2023)

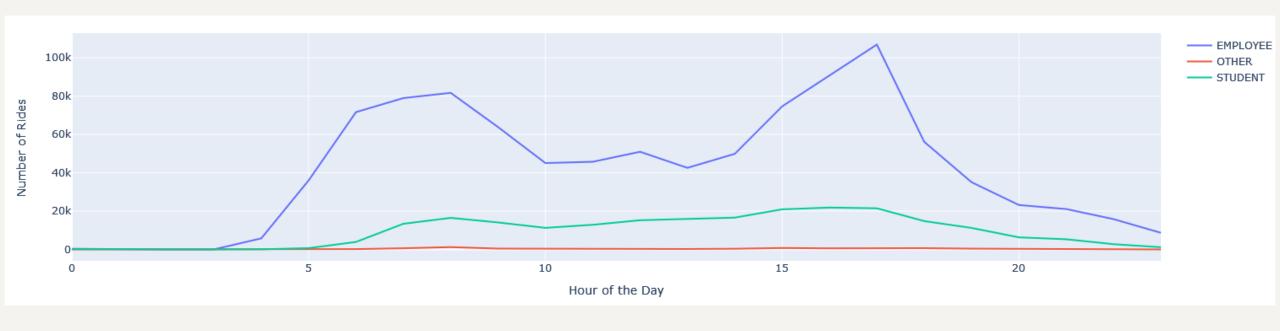




- Employees use this service more than students.
- Cyclic Relationship with Academic year

Peak Usage Time by the Hour (Overall)

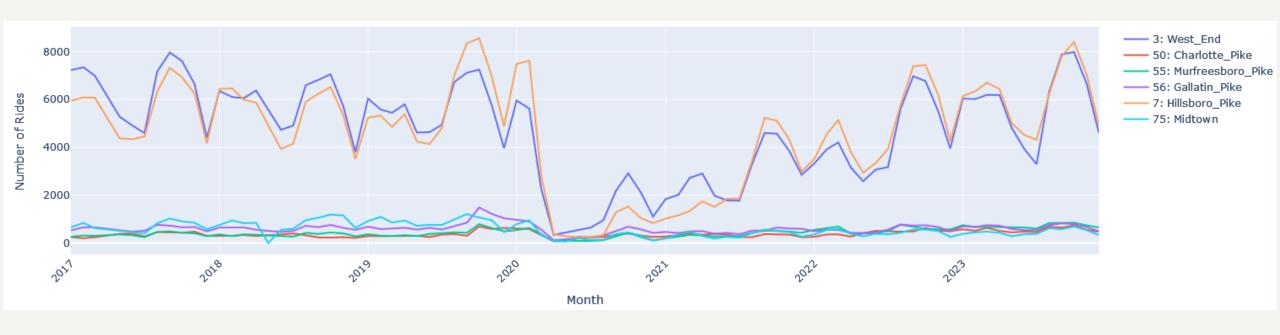




- Employees Usage follows a typically commuter schedule (9AM - 5PM)
- Student Usage is varied and throughout the day

Top 6 Routes based on Vanderbilt Swipes (Jan. 2017- Dec. 2023)

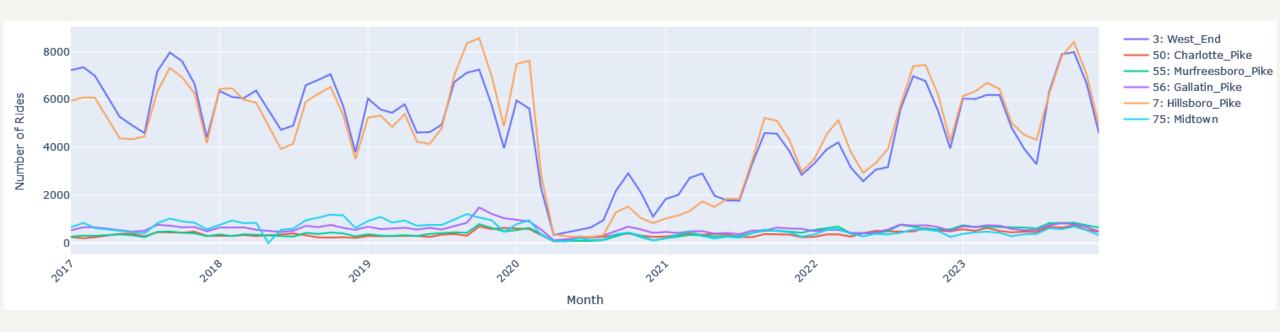




Routes 3 (West End) and 7 (21st
 Avenue/Hillsboro Pike) are swiped the most by Vanderbilt Users

Top 6 Routes based on Vanderbilt Swipes (Jan. 2017- Dec. 2023)

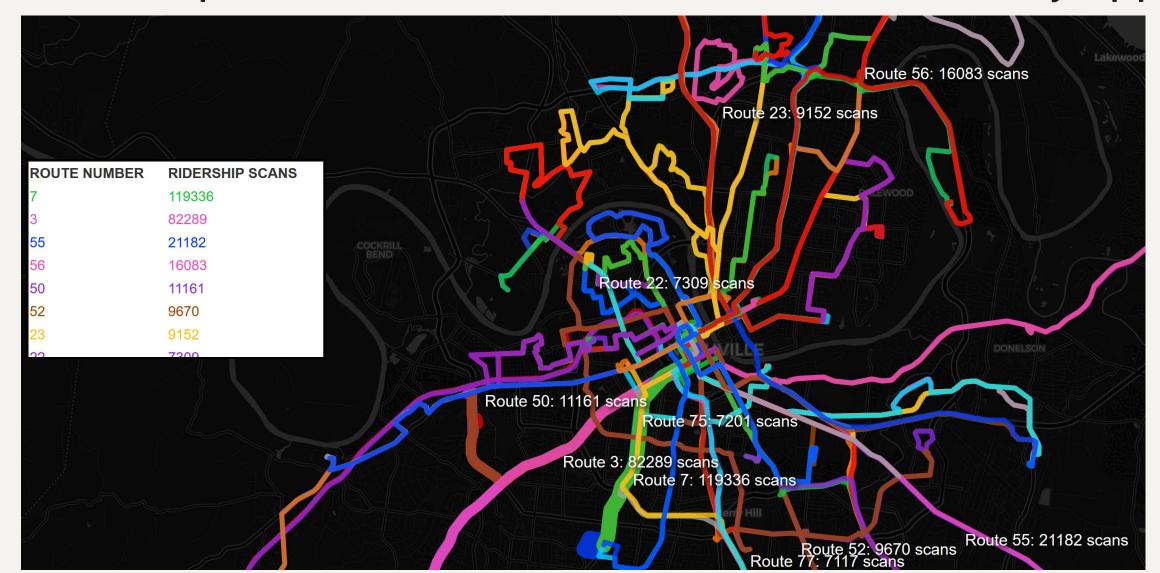




- Monthly Peaks for Route 3: Sept. 2017 7969, Oct. 2019 7251, Oct. 2023 7984
- Monthly Peaks for Route 7: Oct. 2019 8563, Oct.
 2023 8405

Explore Vanderbilt's Bus Swipes Visualization!

Link: https://movevu-busvisualization22-23.netlify.app/



Discussion and questions

Questions

- Is there additional analysis of these results you would like to see?
- What recommendations do you have for our next steps, based on your understanding and interpretation of the survey results?





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