**VERSION 2**

**\*\* create v1 presentation of all the analysis you’ve done so far. Goal is to get approval for it first. Once I receive approval I’ll just need to make the v1 look pretty and bring in the age and college education data.**

**Executive Summary**

**My favorite cities that I’ve visited on vacation are ones where I didn’t have to get a rental car. The public transportation was so widely available that a car is not necessary. Whenever I return to Nashville I always ask myself why don’t we have good public transportation here? I will be answering this question with my analysis.**

**Motivation**

**My favorite cities that I’ve visited on vacation are ones where I didn’t have to get a rental car. The public transportation was so widely available that a car is not necessary. Whenever I return to Nashville I always ask myself why don’t we have good public transportation here? I will be answering this question with my analysis.**

**Data Question**

**How do the public transportation agencies that I liked so much in other cities compare to the public transportation?**

**In what areas are they underperforming compared to other cities’ agencies?**

**What best practices can the Nashville transportation agencies copy from these organizations?**

**Minimum Viable Product (MVP)**

* **Comparison between TN, CA, NY, and CA for cost per mile and trip.**
* **Comparison between Nashville, Denver, NYC, and San Francisco for cost per mile and trip.**
* **Comparison between Nashville, Denver, NYC, and San Francisco for vehicle revenue miles and trips per capita.**
* **The data shows that for it’s density it is performing surprisingly well against the other agencies. It is also clear that the density is the reason why we don’t have effective public transportation. What can we do to solve the problem of the 1 hour long commute each way for the people that only live 1 town over from Nashville? Review agencies that are not UZA’s that provide transportation from rural areas in the UZA’s.**

**Schedule (through <date of demo day>)**

1. Get the Data (11/15) DATA GATHERED PENDING REVIEW
2. Clean & Explore the Data (11/22) COMPLETE
3. Create Presentation of your Analysis (12/13) ANALYSIS WILL BE COMPLETE BY 12/9. AFTER THIS THE PRESENTATION WILL BE CREATED.

* Should be a presentation, but could include a Jupyter Notebook or dashboard in Excel, Tableau, or PowerBI

1. Internal demos (12/13)
2. Demo Day!! (1/10)

**Data Sources**

* **Federal Transit Administration**: <https://www.transit.dot.gov/ntd/national-transit-database-ntd-glossary#D>

**Known Issues and Challenges**

**Challenge**: I still need to gather data for population in these areas and get more years’ data as this is only for 2023. I SHOULD be able to reuse all of the formulas for the different year, but it will still be a challenge.