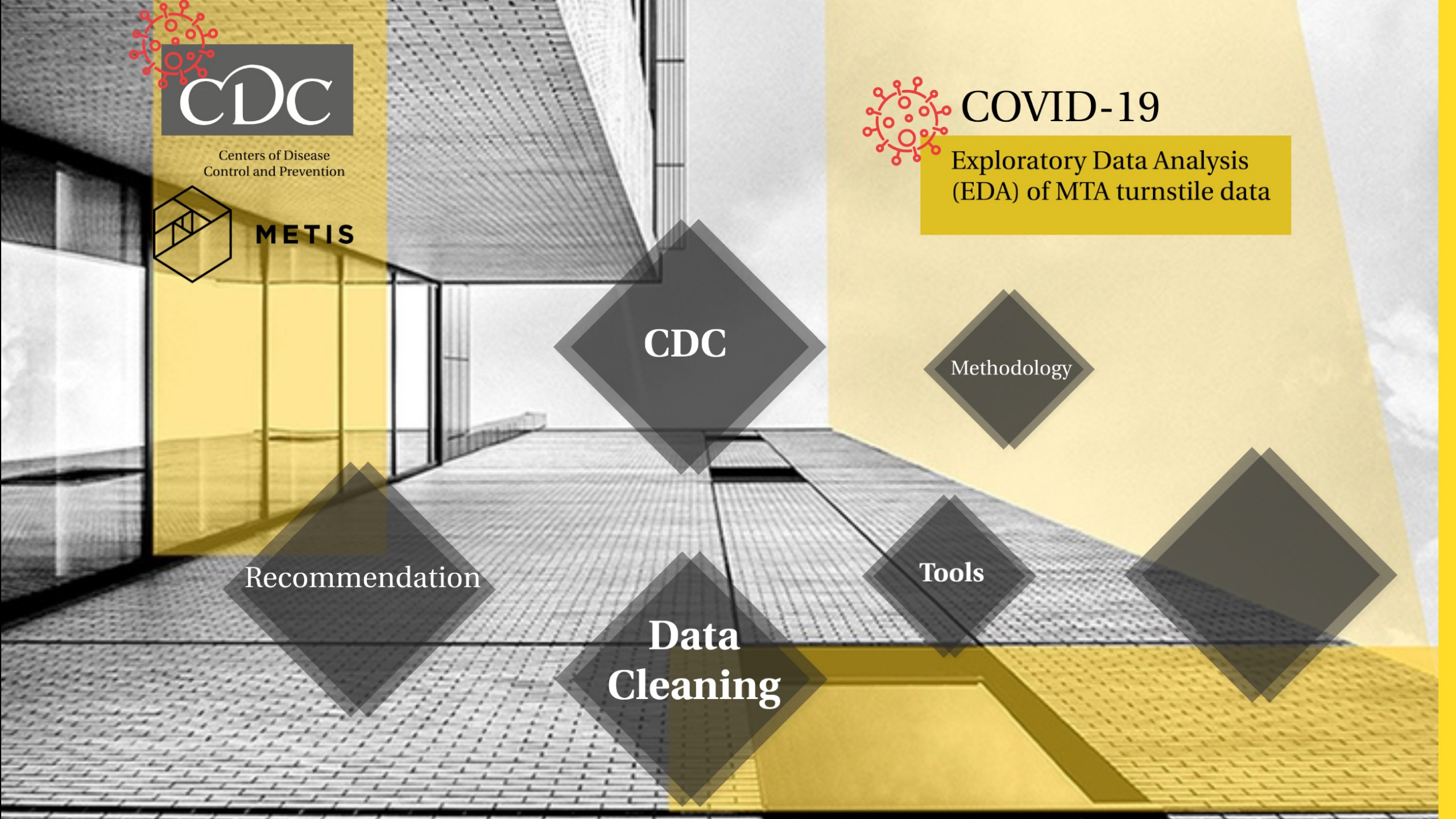

CDC
Centers of Disease Control and Prevention
METIS
COVID-19
Exploratory Data Analysis (EDA) of MTA turnstile data
CDC
Methodology
Recommendation
Tools
Data Cleaning

Back Story:

The world is experiencing a once-in-a-lifetime pandemic and as a **CDC** (Centers of Disease Control and Prevention) we will maximize protection from the **COVID-19** and prevent possibly spreading it to others.

Objectives

Objective

- Our goal of this project is to provide people with vaccination centers and provide enough space in each station.

- This will help To reduce the risk of infection and prevent COVID-19

Data Source

Sample

Dataset

Metropolitan Transportation Authority (MTA)

Sample

Last four months of 2020 (September - December)

- **Data size over 3 million**

Tools:

Data:

pandas

NumPy

Data Visualization :

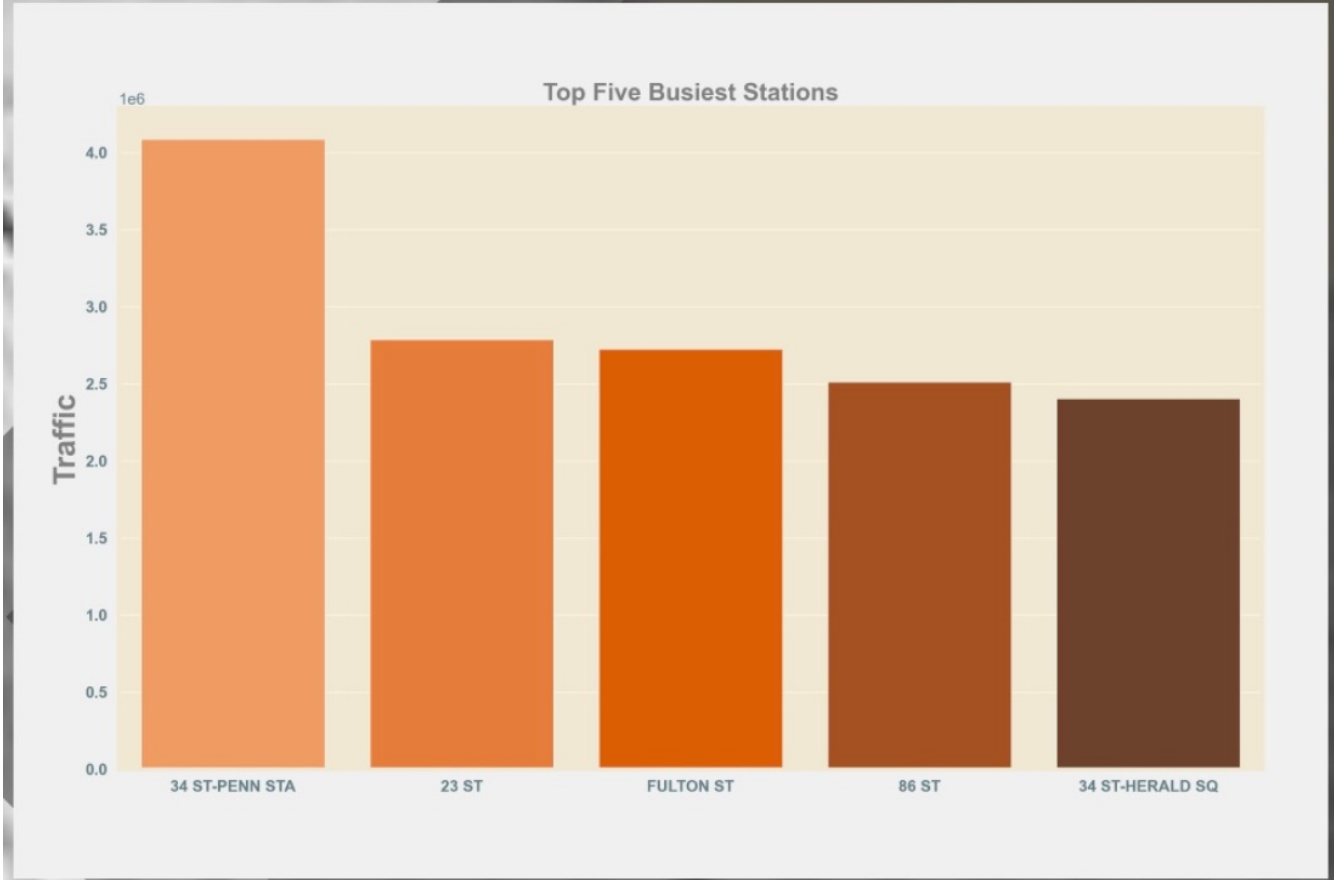
Seaborn

matplotlib

ANACONDA

jupyter

Key Findings:



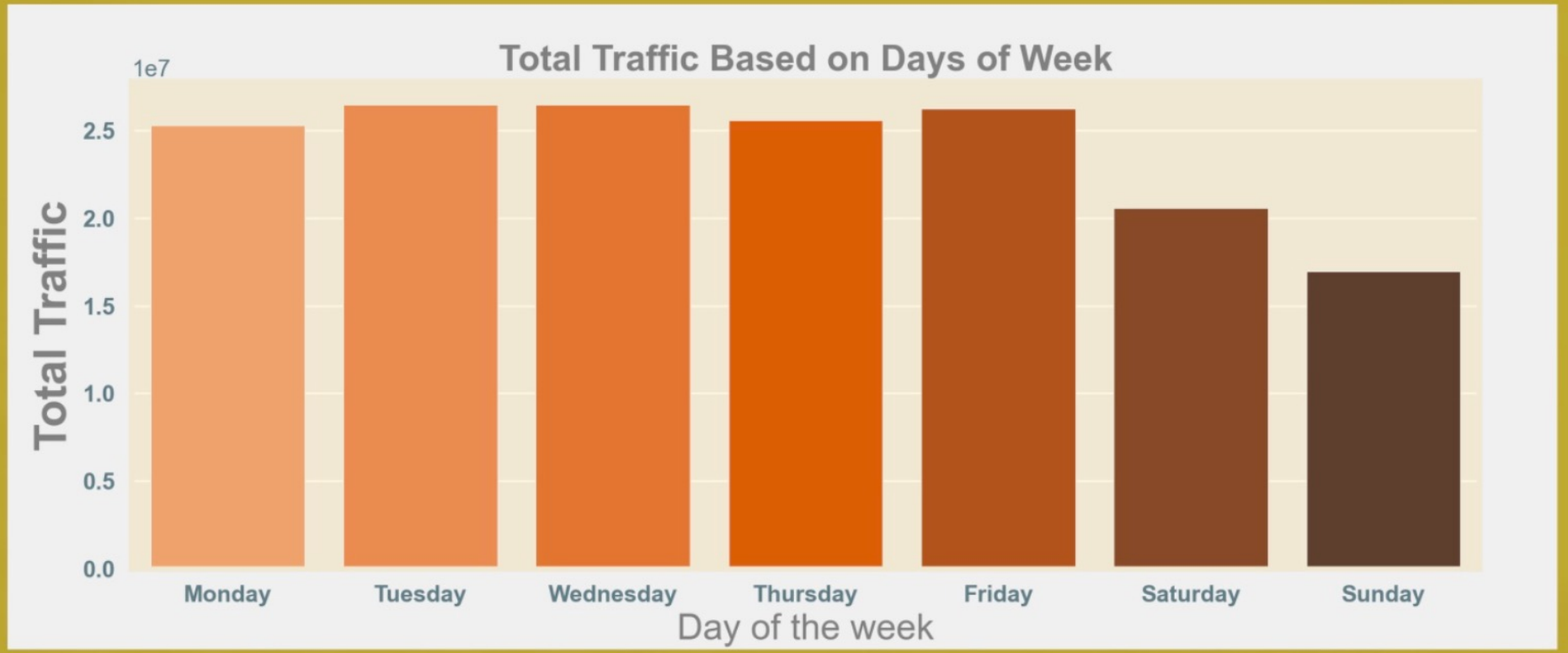
Top 5 busiest stations :

- Penn Station
- 23rd Street
- FULTON ST
- 86 ST
- 34 ST-HERALD SQ

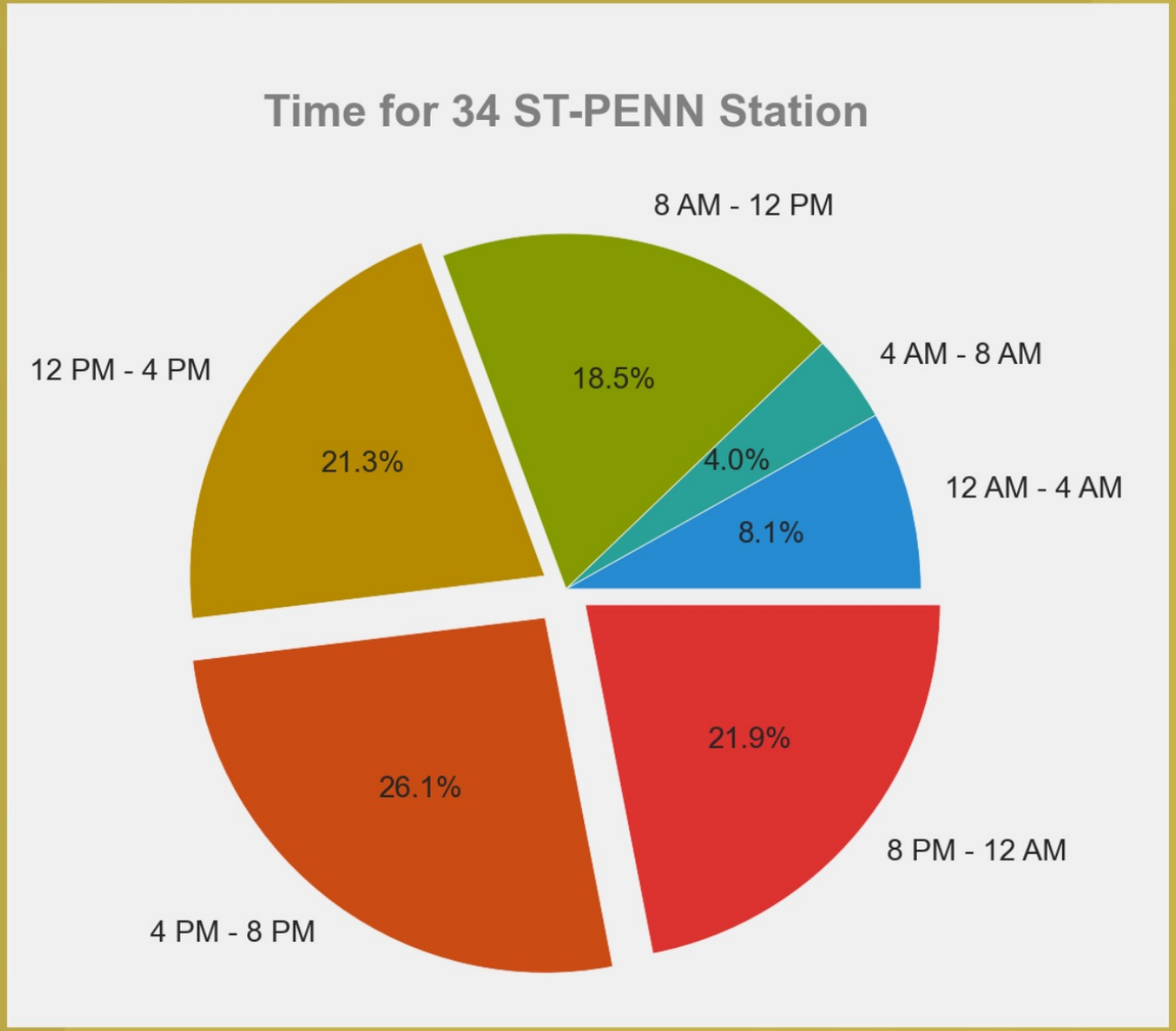
Focus on these stations

Key Finding

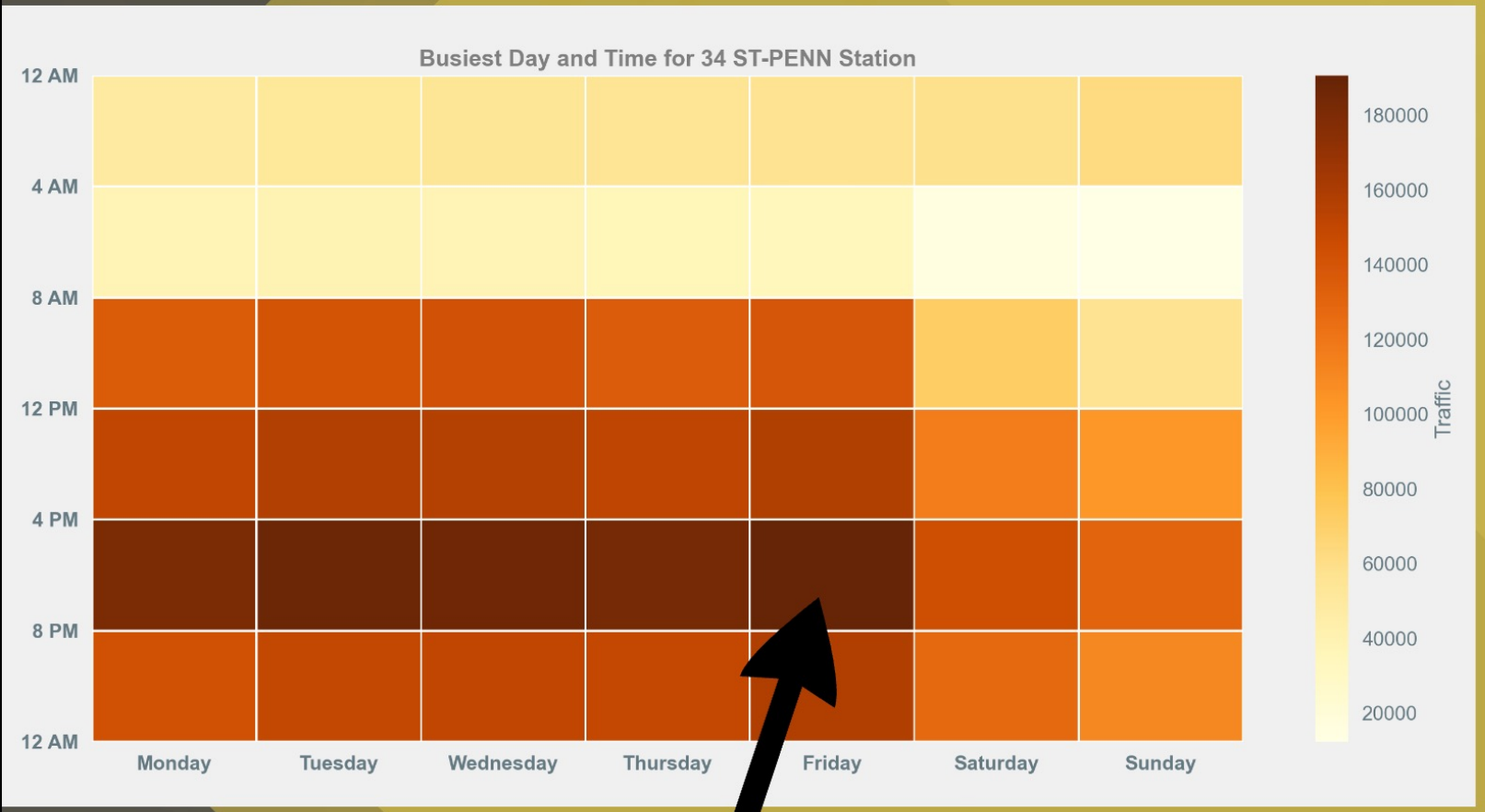
- **Weekends** generally see less traffic
- **Weekdays** generally see more traffic



Evening is the best time



Key Findings:



The **best time** to put vaccination centers :

Friday, 4 PM - 8 PM

Recommendation & Opportunities for the future

Where

5 Stations

When

Weekdays

Time

Evening

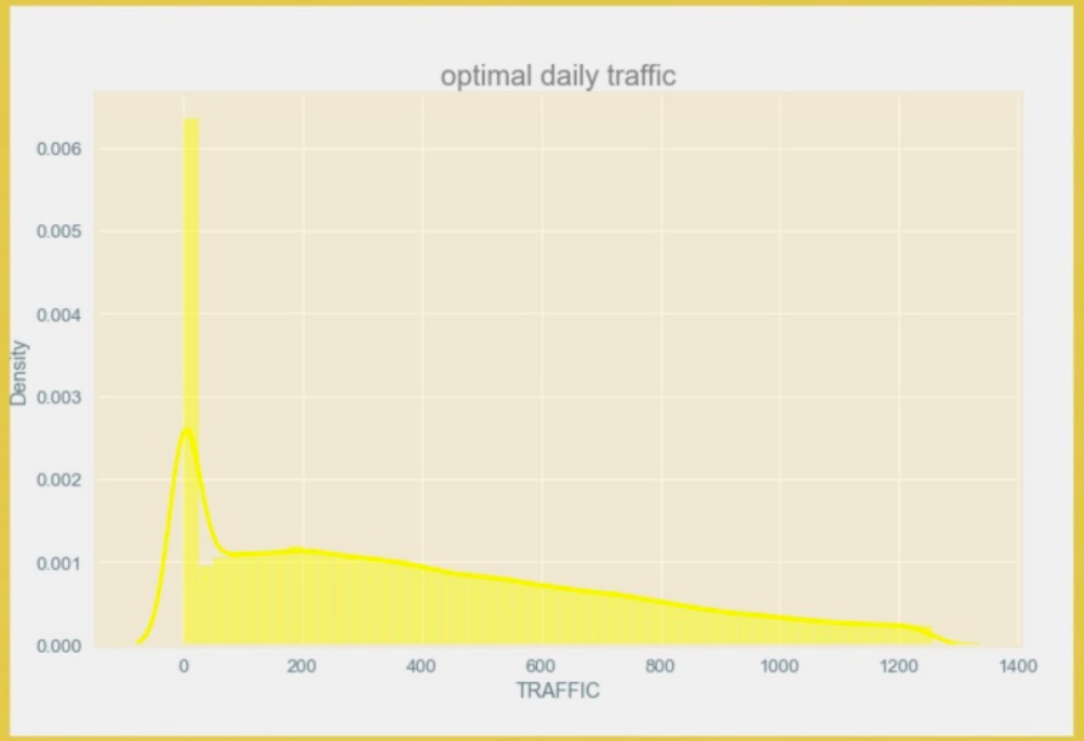
THANK YOU..

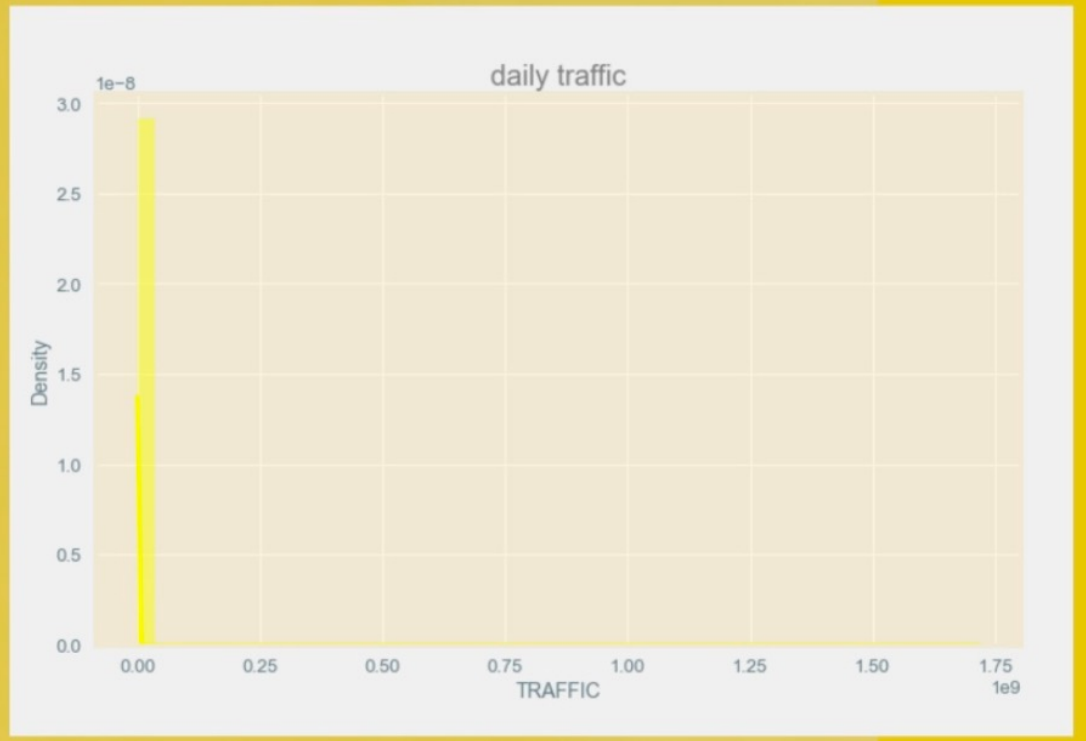
Appendix:

Reference

Appendix:

Outlier:





Reference

MTA Data set:
http://web.mta.info/developers/turnstile.html