

# TTC Delays

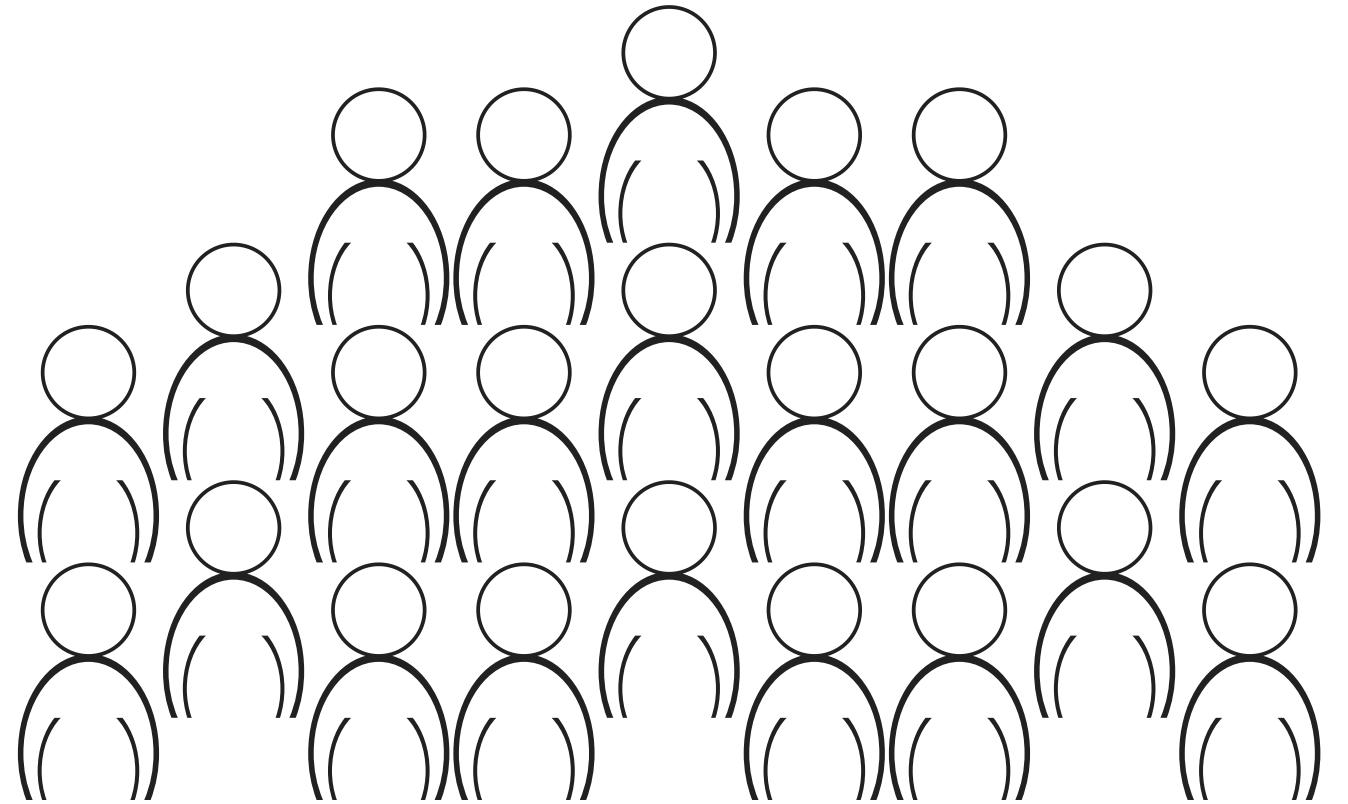
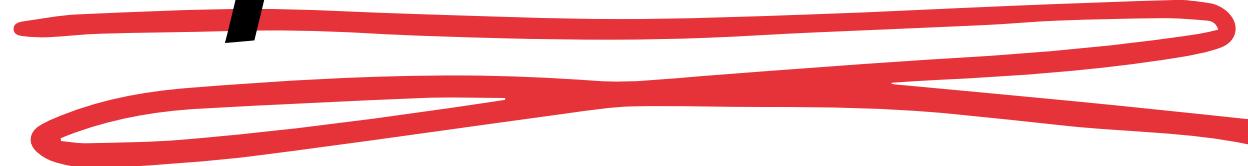
DATA SCIENTIST  
JESSICA SEO





*Using machine learning, how might we predict  
TTC streetcar delays in real-time such that we  
can provide safe and efficient experience for all  
passengers?*

# *Areas of Improvement*



## Growing Population

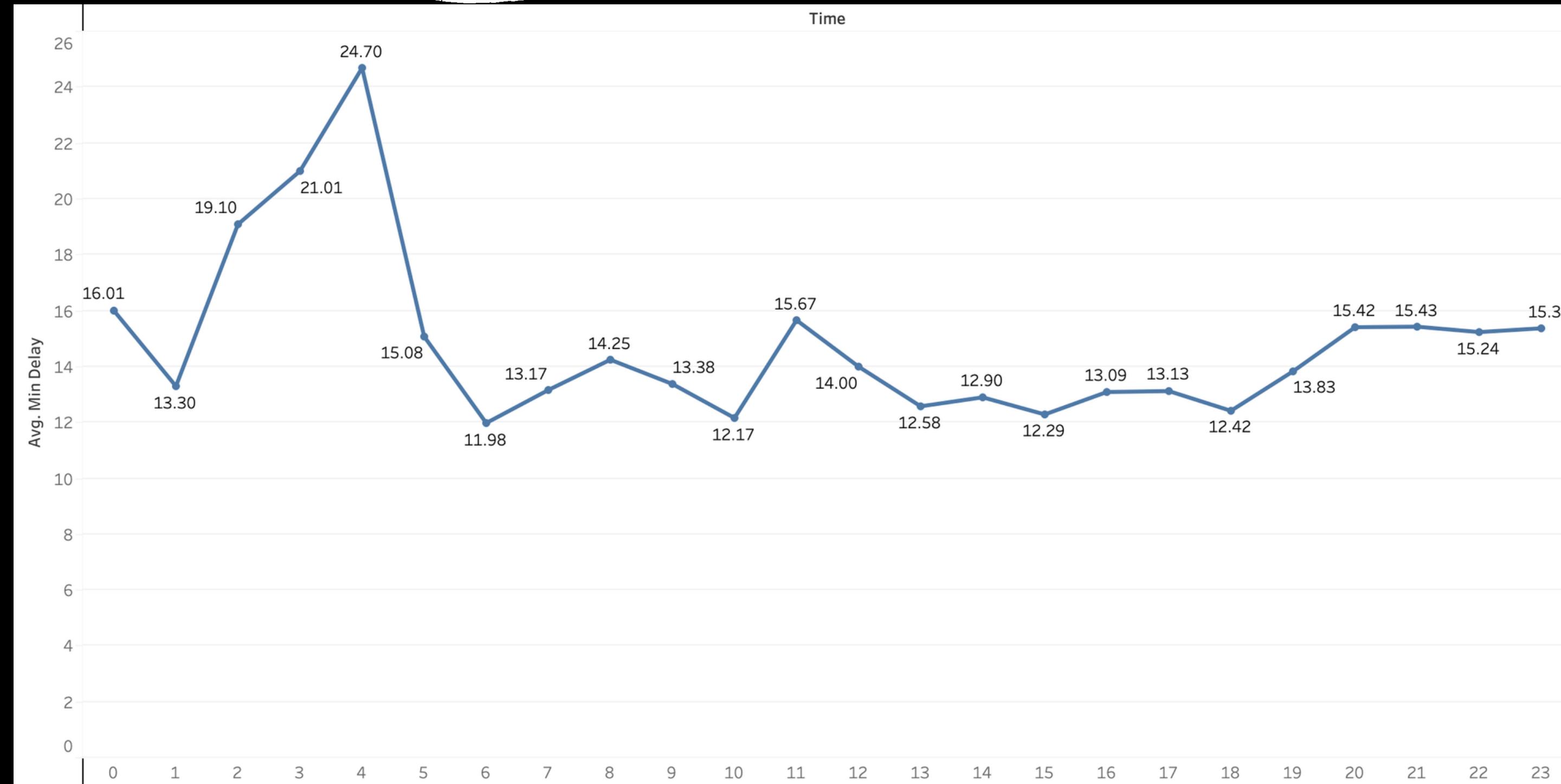
2023: 6.4 million residents

2040: 3.3 million residents

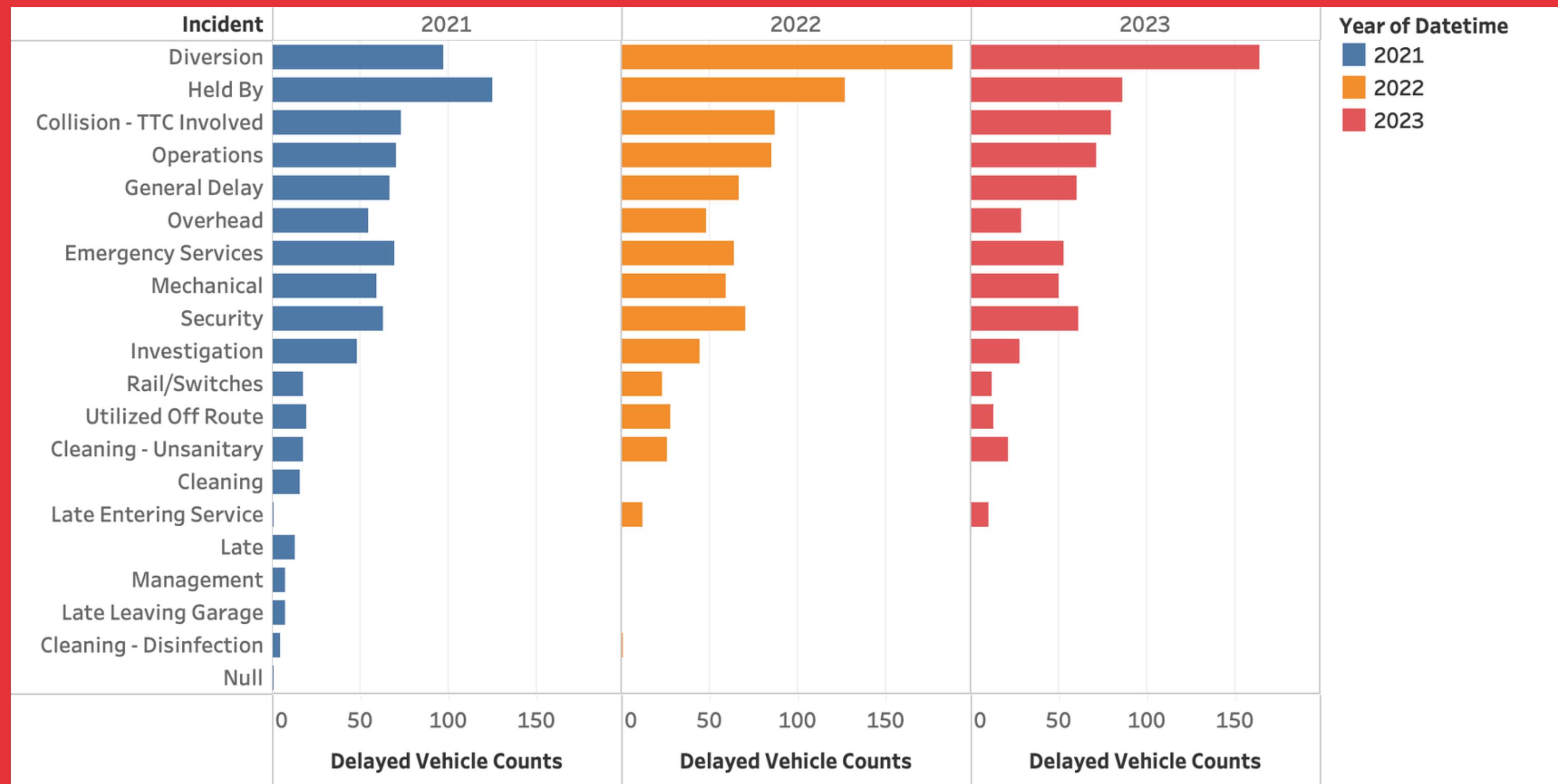


## Weather

*Which time of the day has the highest average delay?*

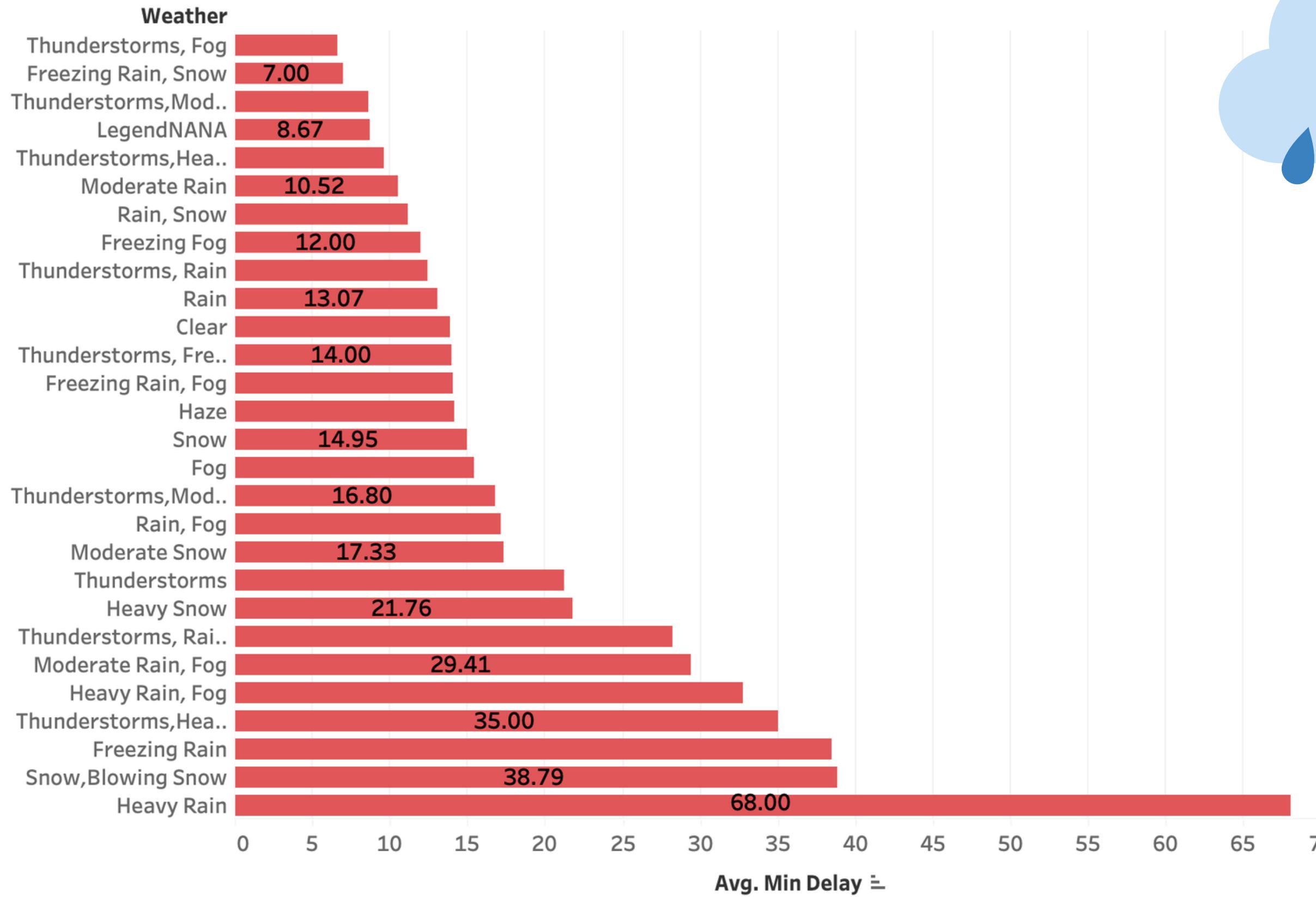


# *Yearly count for causes of delays and the challenges...*



- The causes of are too generalized and duplicated.
  - No real time data to compare on-scheduled streetcars.

# *So, is there a pattern between delays and weather?*



# What's Next?



- Continue data cleaning and preprocessing to ensure the accuracy of weather data.
- Explore time-related features using time series analysis.
- Investigate in-depth analysis to identify relationships between weather conditions and delay patterns.
- Implement regression models to test project hypotheses.





Happy Commuting!