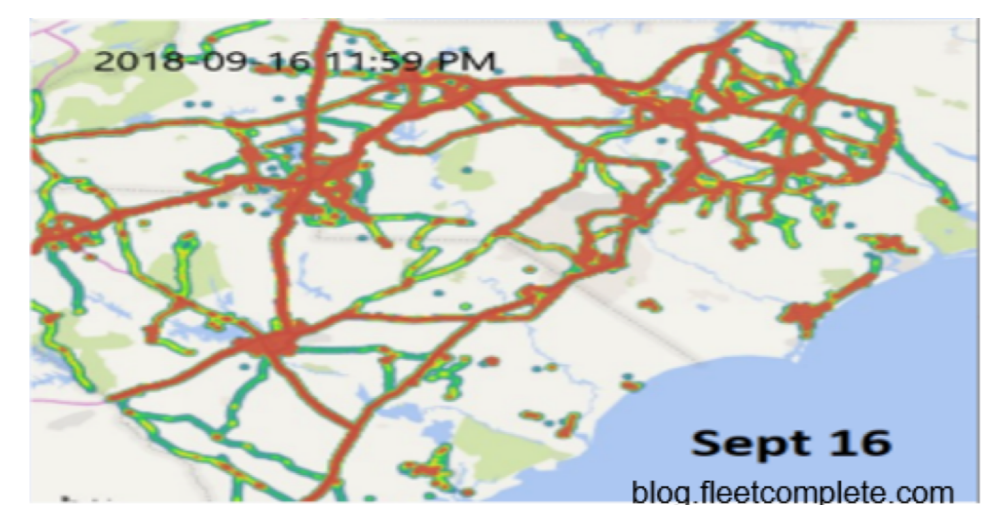
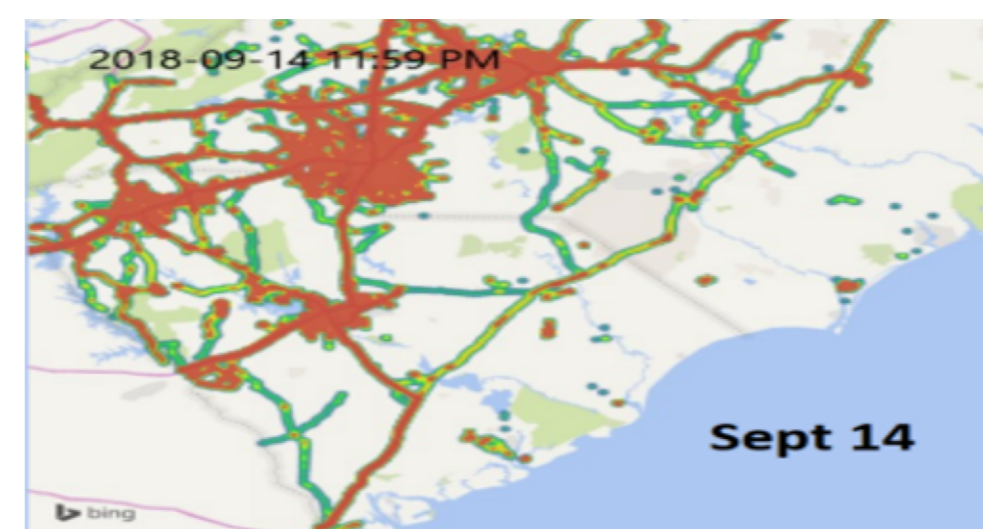


# Special Events Effect on Spot Market Rates

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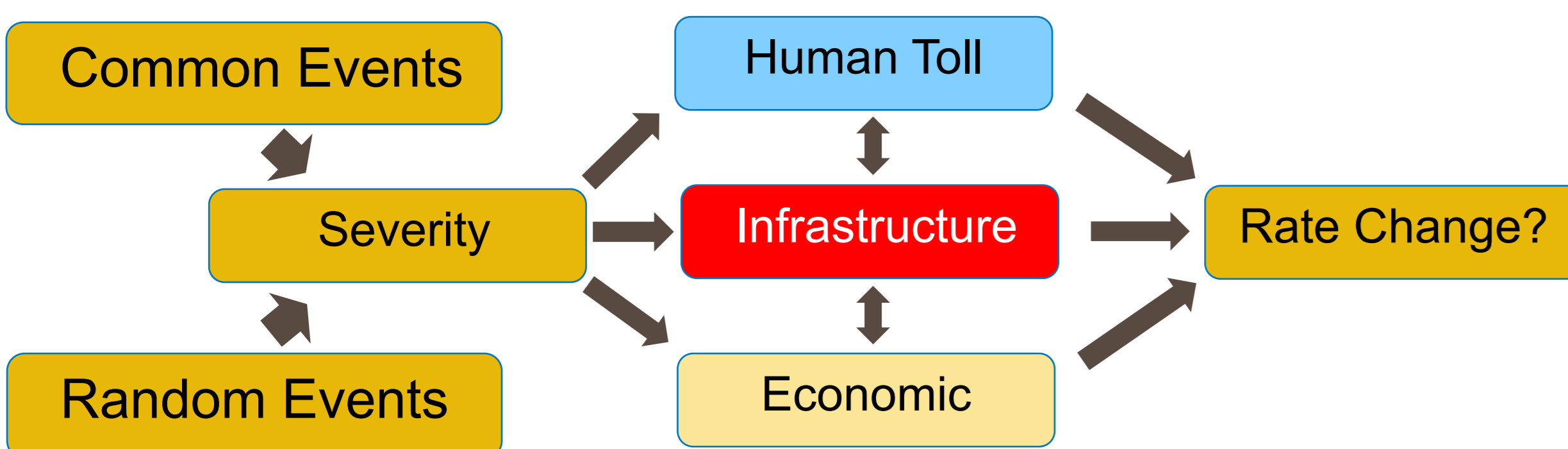
## Motivation / Background

- Contract rates determined yearly
- Spot Market rates fluctuate daily
- “Special Events” create disruptions in the market.
  - Natural Disasters, Black Friday, Prime Day
- Disruptions in the transportation sector create vacuums within the supply chain



## Key Question / Problem

How do “Special Events” affect the freight spot market rates, and are these changes consistent by event type?



## Methodology

- Clean Data



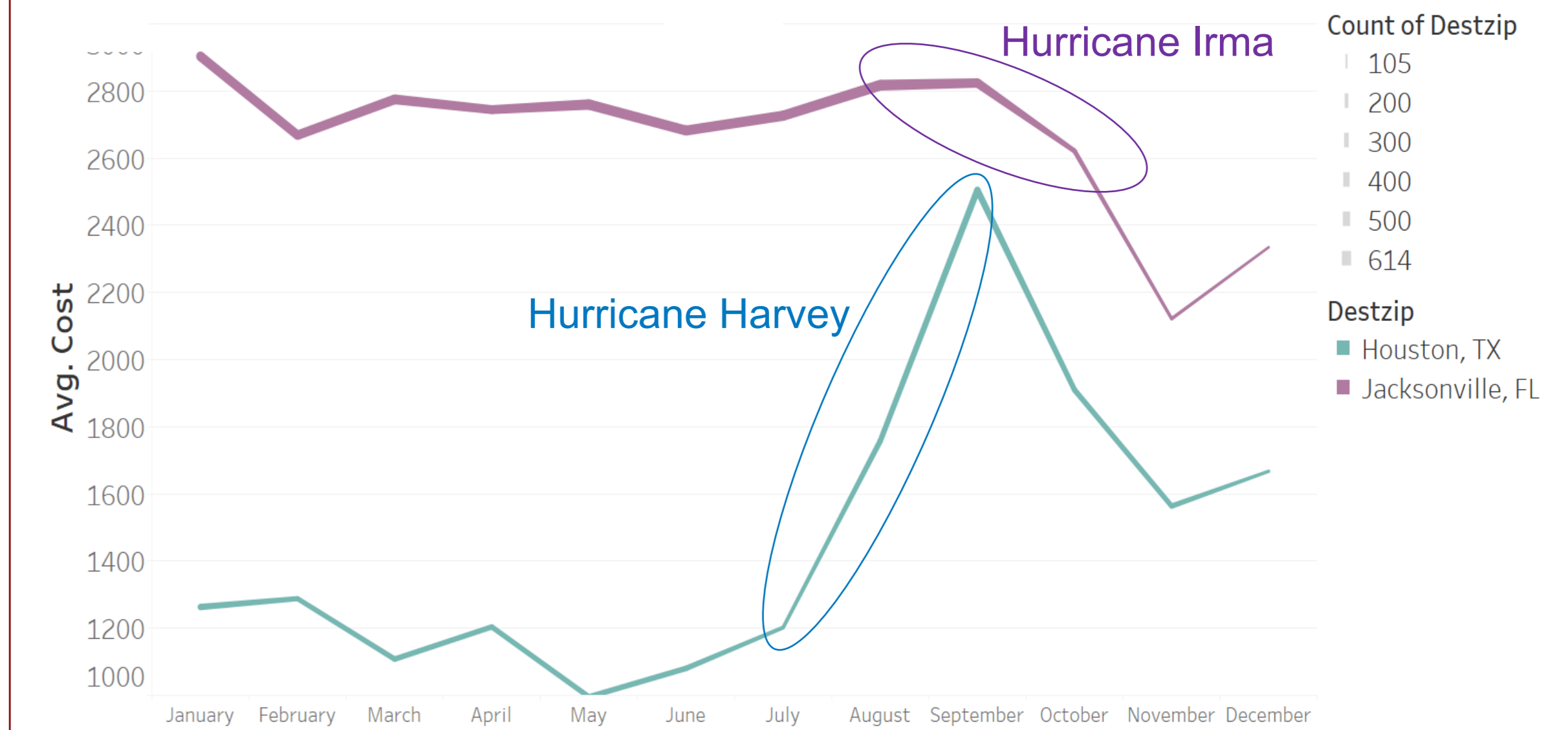
- Develop cluster models



- Formulate Regression models

## Initial Results

Preliminary analysis of Load Rates correlated with Freight Volume and Time



## Expected Contribution

- The recognition of correlations between “Special Events” and rate changes in the freight spot market
- A forecasting model that incorporates fluctuations from “Special Events” and provides a forecast with a MAPE <15%

## Relevant Literature

Bai, X. (2018). *Forecasting short term trucking rates.*

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