A plan for the dashboard

Elements I would like to have on my Dashboard when analysing Citibike trips as well as weather events to help solve the bike company's expansion problem may include:

- 1. An analysis of when bike stations are most heavily in use. Assuming that it is important to have bikes are available when customers want them Visualised via:
 - a. A line graph of bike-use and time, to determine the busiest time-of-day, busiest day-of-week. Are weekends different from weekdays?
 - b. A bar chart of which are the most heavily-used stations to determine if some stations are more in use than others.
 - c. A time-lapse of usage over time on a choropleth graph may be able to show geographically which areas are being used the most effectively over time.
 - d. Is there a one-directional flow of bikes where bikes are taken in one direction and not equally distributed i.e. taken to work, then left there as customers choose different ways to move around?

2. How does weather impact bike usage? Visualisation could include:

- a. Temperature and average bike usage on a scatterplot, does increased or decreased temperature correlate with usage?
- b. Precipitation and bike usage do customers stop using bikes in the rain? Does chance of precipitation correlate with bike usage?
- c. Do seasons affect bike-usage? Visualisations could include a binning of times to represent the seasons and a calculation of difference in bike usage – visualised via a bar chart/ histogram with significance calculations