**Pedestrian Traffic Historical Data Dashboard:**

**Abstract:**

The Pedestrian Traffic historical data dashboard gives pedestrian traffic trend from 2009 till 2020. It is combining data from two data sources which are pedestrian traffic and sensor locations. This dashboard gives a high-level view of pedestrian traffic change over the period of time. It has geographical view of sensors location and Pedestrian traffic trends on daily, monthly and yearly bases. This is an interactive dashboard so data can be filtered by sensors, day, months or years.

Below are the details of charts used in the dashboard:

**Map View:**

Provides geographic location of all pedestrian sensors located in CBD area. Each sensor is represented by filled circles. The size of each circle shows average traffic count by that sensor.

**Avg. Traffic Count by Sensor:**

A bar chart represents sensor traffic. The chart is sorted from highest to lowest traffic count.

**Week Day:**

Provides average pedestrian traffic count by each day of the week. Days are sorted from highest to lowest.

**Pedestrian Count (Avg):**

A table which provides exact number of traffic count per sensor.

**Yearly Ped Count:**

A line chart that provides average pedestrian traffic count by year. A trendline also included that indicates the direction of traffic.

**Monthly Avg**

A hierarchical chart that gives average pedestrian traffic by month. Dark color months represents high traffic whereas light colors represent low traffic.

**Pedestrian Traffic by Post Code**

**Abstract:**

This dashboard is designed to provide pedestrian traffic count on bases of postcodes in CBD area. It provides a magnified view of pedestrian traffic according to a particular postcode in CBD area. It is using pedestrian traffic sensor locations and post code shape file. Each sensor is mapped to a postcode according to its location. Data is collected from three different sources which includes pedestrian traffic data, sensor locations and post code shape file. Data mapping is done using **Mapinfo** which is a popular GIS tool. The output file from Mapinfo is a **TAB** file which is then imported into Tableau to create dashboard. All visuals are interactive.

Below are the details of charts used in the dashboard:

**Post Code Map view:**

Provides postcode map view in CBD area.

**Sensor Location Map View:**

Provides geographic location of all pedestrian sensors located in CBD area. Each sensor is represented by filled circles. The size of each circle shows average traffic count by that sensor.

**Yearly trend:**

A line chart that provides average pedestrian traffic count by post code.

**Monthly Avg**

A hierarchical chart that gives average pedestrian traffic by month. Dark color months represents high traffic whereas light colors represent low traffic.

**Week Day:**

Provides average pedestrian traffic count by each day of the week. Days are sorted from highest to lowest.

**Cluster pedestrian traffic avg:**

A bar chart that shows each average pedestrian count for each post code.