**Objective**: The objective of this project is to design and develop a dynamic and interactive *Road Accidents Dashboard* using Tableau. The dashboard will visualize critical KPIs related to accident severity and type of vehicles, weather and road condition involved. It helps to develop more effective road management program.

**Data Link**: **Data Link**: <https://www.kaggle.com/datasets/aungpyaeap/supermarket-sales/data>

**Problem Statement 1: KPI’s Requirement**

The dashboard should provide real-time insights into key performance indicators (KPIs) related accidents. This will enable us to have overview of how the number of accidents changes from 2019 to 2022.

1. **Total number of accidents**:
   * Current year total number of accidents.
   * Year-over-Year (YOY) differences in total number of accidents.
   * Sparkline reflects previous year and current year total number of accidents.
2. **Total number of casualties:**
   * Current year total number of casualties.
   * Year-over-Year (YOY) differences in total number of casualties.
   * Sparkline reflects previous year and current year total number of casualties.
3. **Total number of fatal casualties:**
   * Current year total number of fatal casualties.
   * Year-over-Year (YOY) differences in total number of fatal casualties.
   * Sparkline reflects previous year and current year total number of fatal casualties.
4. **Total number of serious casualties:**
   * Current year total number of serious casualties.
   * Year-over-Year (YOY) differences in total number of serious casualties.
   * Sparkline reflects previous year and current year total number of serious casualties.
5. **Total number of slight casualties:**
   * Current year total number of slight casualties.
   * Year-over-Year (YOY) differences in total number of slight casualties.
   * Sparkline reflects previous year and current year total number of slight casualties.
6. **Casualties by vehicle’s type**
   * Current year total number of casualties per vehicle’s type
   * Year-over-Year (YOY) differences in total number of casualties per vehicle’s type

**Problem Statement 2: Charts Requirement**

1. **Total Casualties by Weather Condition:** Visualize the distribution of total number of casualties across different weather condition using a Pie chart.
2. **Total Casualties by Road Condition:** Visualize the distribution of total number of casualties across different road condition using a Pie chart.
3. **Total Casualties by Road Type:** Use horizontal bar chart to illustrate total number of casualties by road type.
4. **Total Casualties by Location:** Showcase the total number of casualties based on different regions using a map chart to visualize the accidents geographically.