BASED ON 2010-2012 DATA

ACCIDENT FACTS SRI LANKA

MORE VEHICLES MORE ACCIDENTS

18% of accidents happened in Colombo, Gampaha and Kurunagala, which has 27% of total vehicles

MORE ACCIDENTS MORE DEATHS

About 1/5 of deaths happend in Gampaha, Colombo and Kurunagala which has the highest accident rates

LEAST ACCIDENTS

Animal drawn/ridden vehicles met the least number of accidents as expected

MOST ACCIDENT VEHICLES

Motorcycles, Cars and Threewheels meets the most accidents

FATAL INJURIES

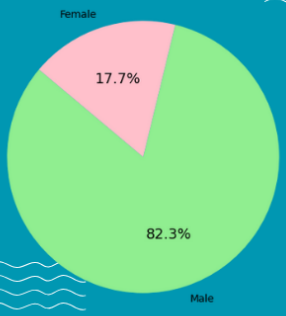
About 1/4 of accidents ends up in fatal injuries and 1/10 ends in death

MOST ACCIDENTS

26% accidents are caused by motocycles

DEATH RATE

About 80% people who die from accidents are men



Infographic Poster: Accident Facts Sri Lanka

248362M - Perera M.D.D.

Data sources:

- Road Accident Data by Vehicle type - 2012 | Open Data Portal - Sri Lanka
- Road Accident Data by Severity of Injuries - 2011 | Open Data Portal - Sri Lanka
- Road Accident Data by Severity of Injuries - 2012 | Open Data Portal - Sri Lanka
- Road Accident Data by Vehicle type - 2011 | Open Data Portal - Sri Lanka
- Road Accident Data by Vehicle type - 2010 | Open Data Portal - Sri Lanka
- Road Accident Data by Severity of Injuries - 2010 | Open Data Portal - Sri Lanka

Tools and techniques used:

- The analysis and visualization were performed using Python programming language, primarily utilizing the pandas library for data manipulation and matplotlib library for plotting.
- Pandas was used to load multiple datasets and combine them to make a master dataset that includes accident-related data from 2010 to 2012
- Matplotlib was used to create different kinds of visualizations to understand the dataset and get insights based on data

Limitations

- It's important to note that the analysis and conclusions drawn are based on the available datasets.
- Any interpretation should consider the limitations of the dataset and potential biases in the data collection process.

Challenges in the Dataset:

- One challenge in the dataset was the absence of certain variables that could provide additional context or insights, such as the day of the week or specific details about the accidents (Ex: Accident causes).
- More data on number of male and female drivers would have clear understanding on gender based analysis

Methodologies:

- The analysis began by selecting relevant columns related to different vehicle types and accident data.
- Some modifications done to get more insights (Ex: New feature with has data about all 3 bus categories)
- Different calculations were done and plotted using matplotlib to get insights and predictions were done

Further Details:

- For a detailed implementation of the analysis, including code and datasets, please refer to the Python notebook available at the following GitHub repository: dilshvn/DS_Infographic_248362M (github.com)