

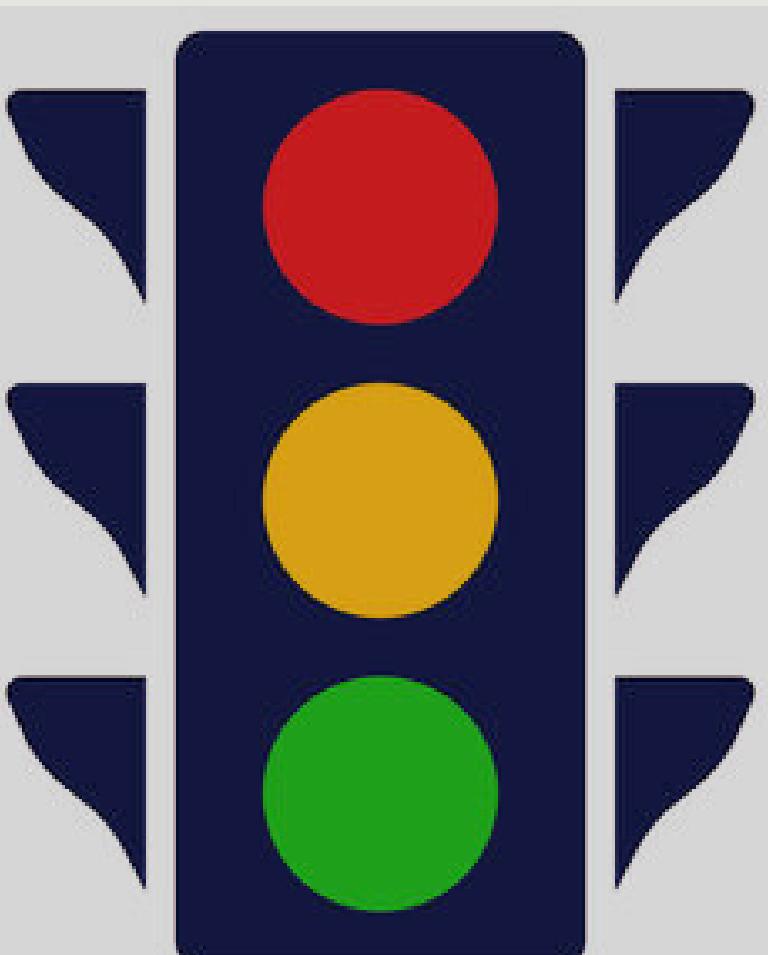
ROAD SAFETY



ROAD TRAFFIC ACCIDENT

INTRODUCTION

This Road Traffic Accident Analysis(RTA) intends to establish the key metrics and in depth analysis, which shows the distribution of the data to identify category based like education level, gender accident percentage, junction of road light and weather conditions correlation. Also includes additional insights with conclusion of it.





OBJECTIVES

- Topic : Road Traffic Accident Analysis (RTA)
- Tool : Excel
- Expected Outcome : Accident Correlation

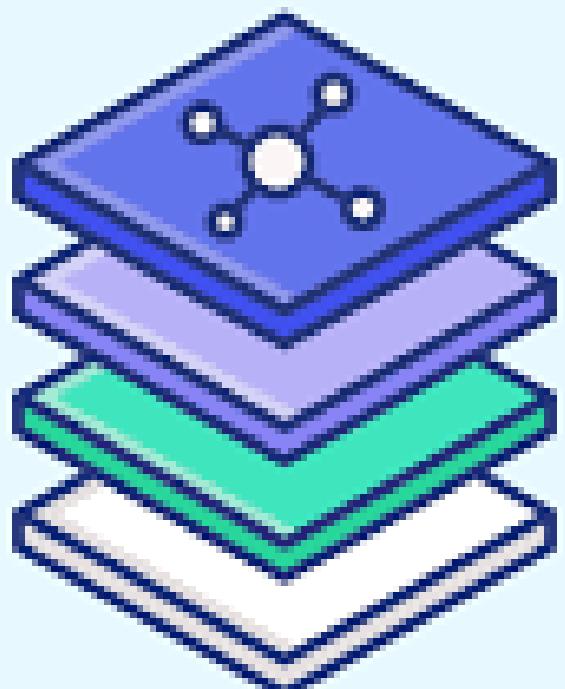


OVERVIEW

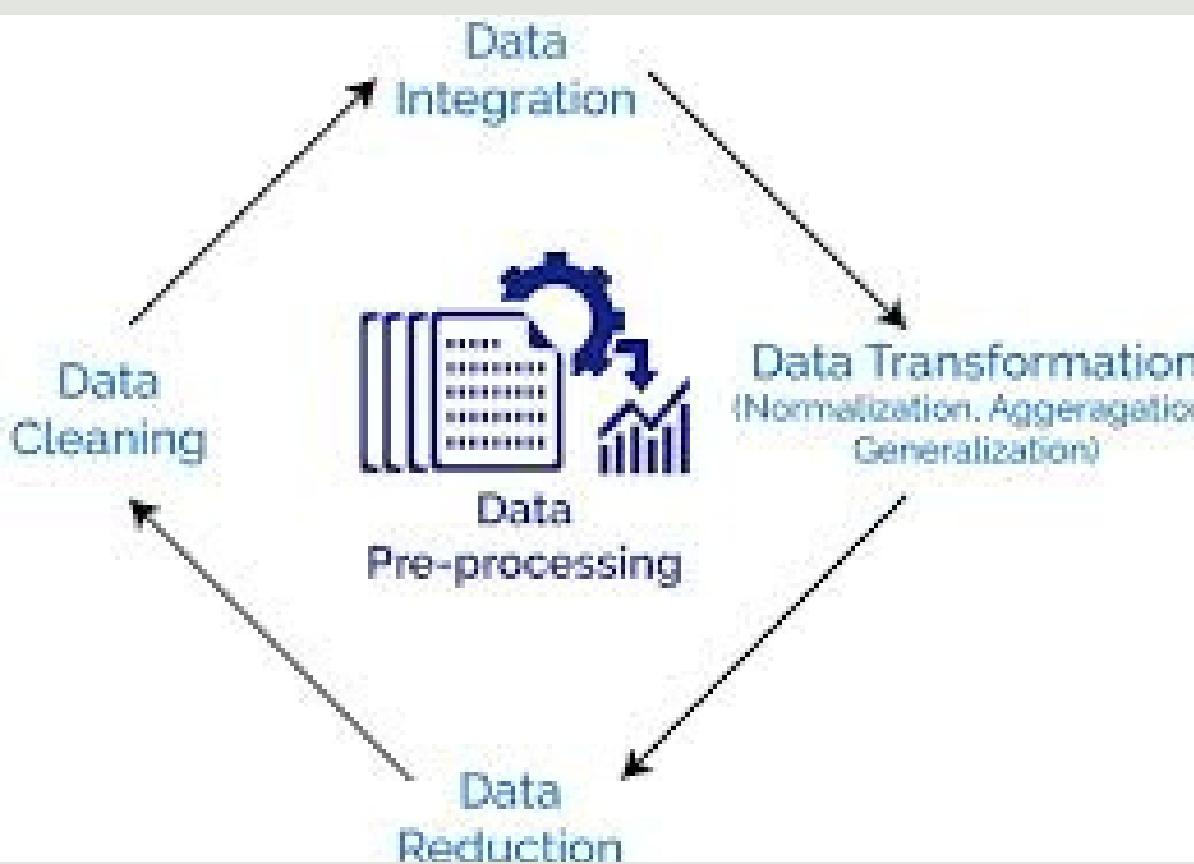
- Data Source
- Data Preprocessing steps
- Data analysis phase
- Key Insights
- Key Notes
- Conclusion

DATA SOURCE

Road Traffic Accident(RTA) data could be taken from kaggle website. This data set is collected from Addis Ababa Sub city police departments for Masters research work. Only one csv file contained data .



DATA PREPROCESSING



- Before, going to get insights first we have to preprocessed the data through excel tool. Into that identify the outliers or anonymous values exist or not. In case exist we have to rectify it.
- Remove the unnecessary column from the data that would needed, not to affect our analysis and remove duplicate values from this datasets and scaling the accident severity column from 1 to 3, after format the table to ready for the next phase.



DATA ANALYSIS PHASE

Columned & Histogram Chart

A map of the region with highlighted areas indicating high accident rates. A list of the specific locations and reasons for high risk

Pie & Bar chart

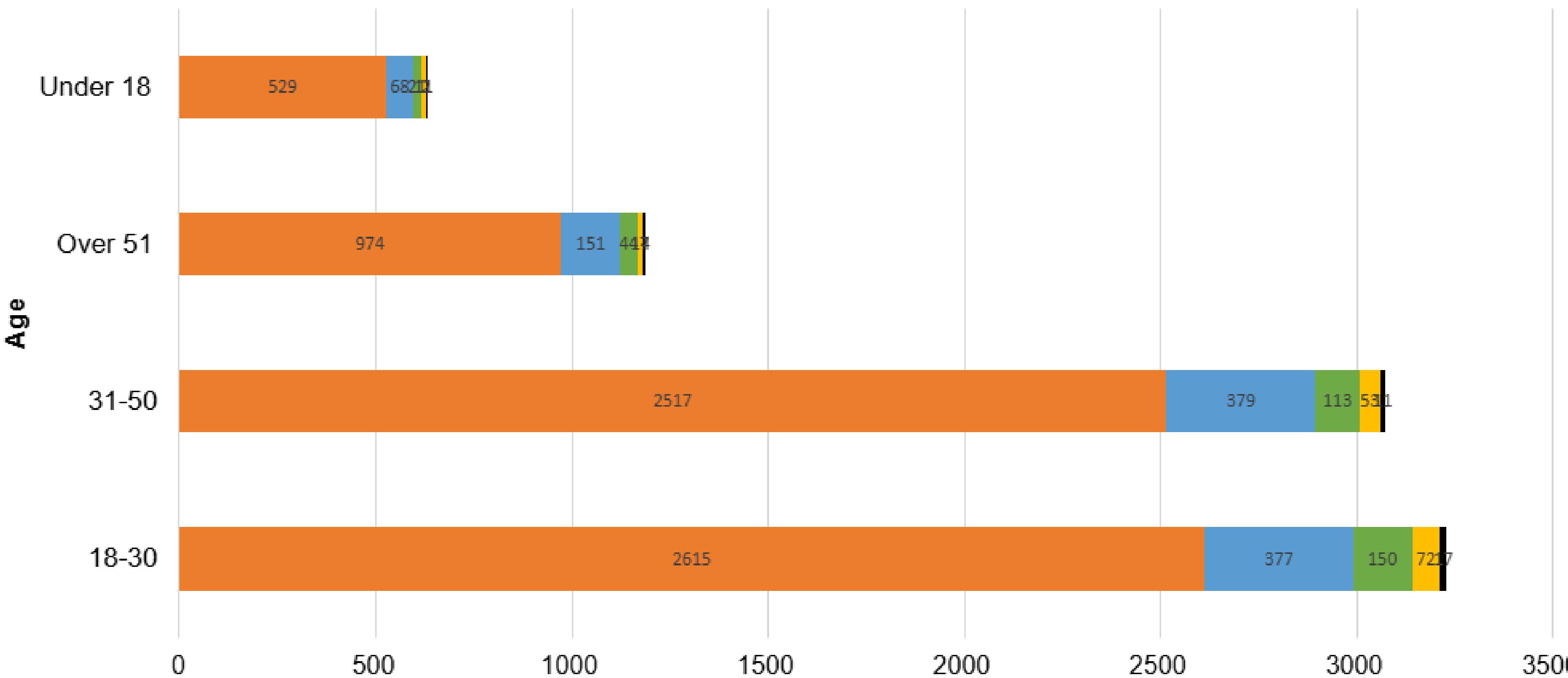
Category(Vehicle Issues, Road Conditions, Distracted Driving, Brake Failure, Poor Lighting). Gender Death ratios percentage through bar chart.

UNDER 18 AGE PEOPLE INVOLVED

18

Educational Level by Age Category

Junior high school High school Above high school Writing & reading Illiterate



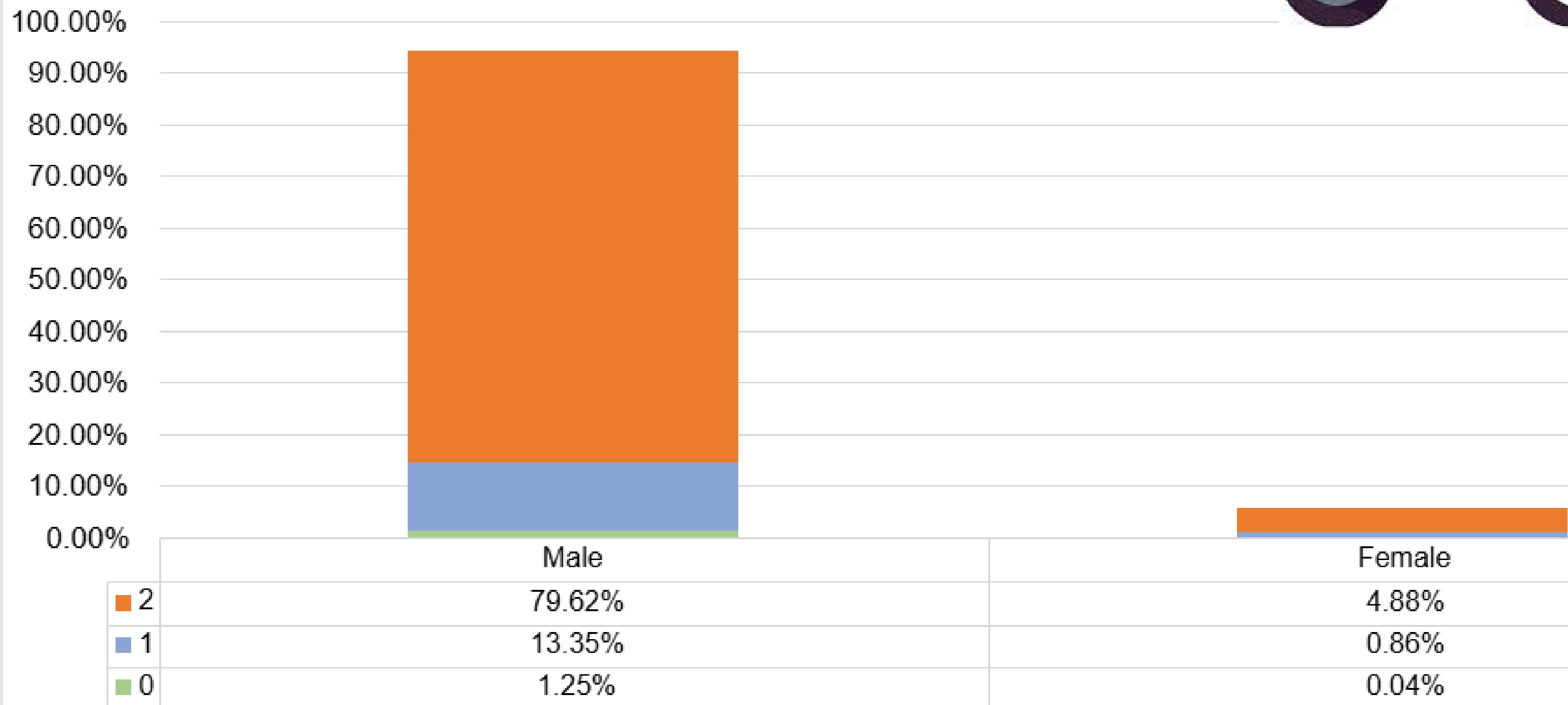
NOTE:
THIS
COLUMNED
BAR CHART
SHOWS THE
EDUCATIONAL
LEVEL BY AGE
PEOPLE
ACCIDENT
FACED, INTO
THAT UNDER
18 AGE
PEOPLE THEY
WERE
SCHOOL
STUDENT
DEATH
METRICS .

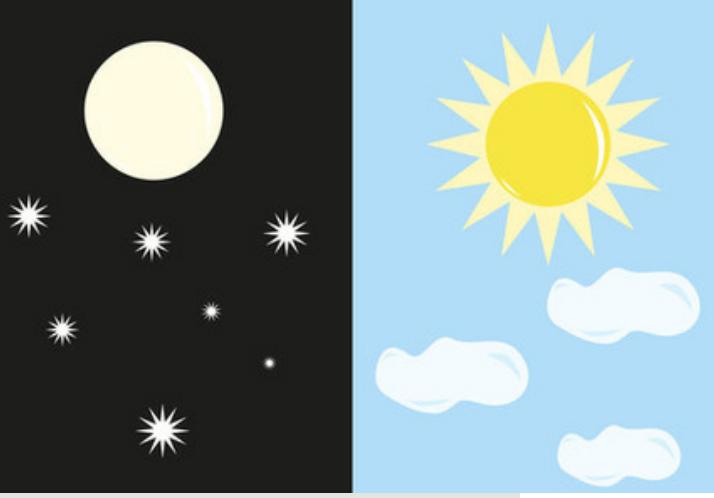
MALE GENDER HIGH DEATH RATIO



Accident Severity By Gender

■ 0 ■ 1 ■ 2



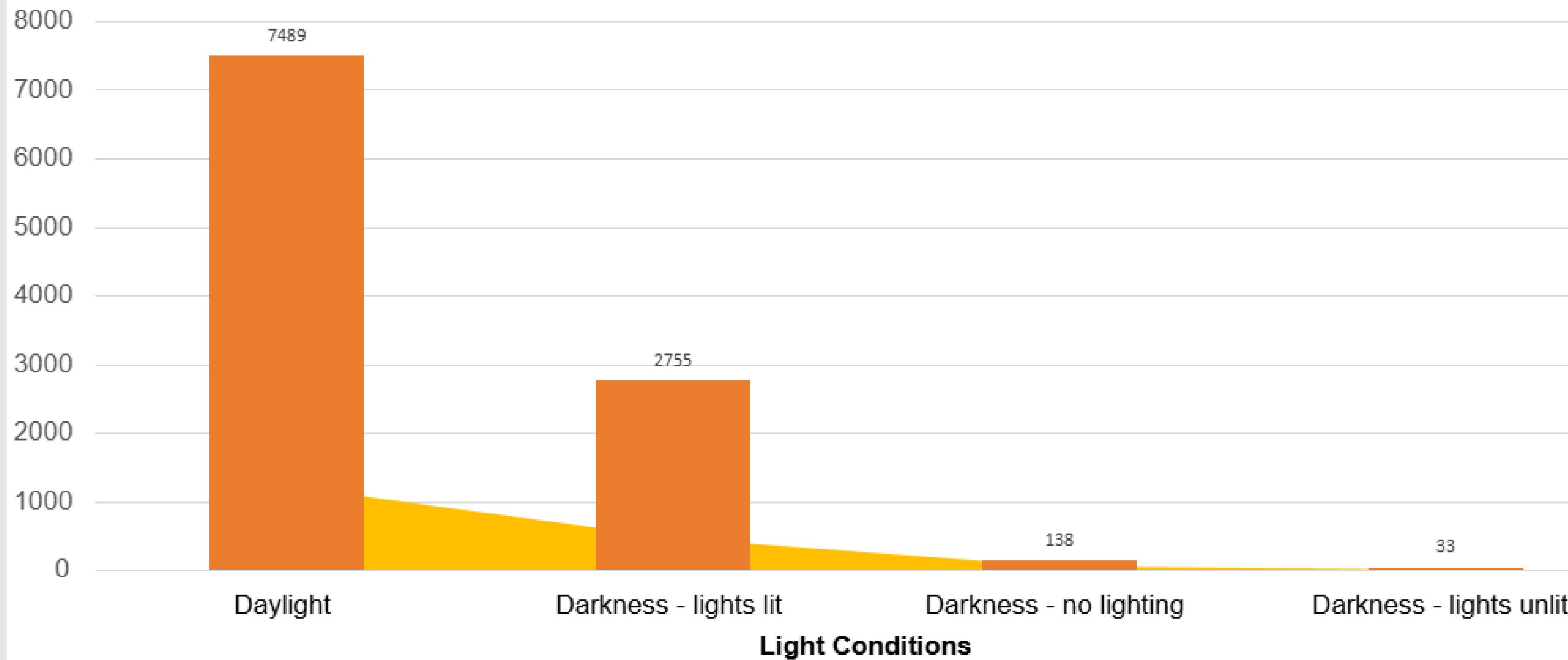


ACCIDENT CAUSE BY LIGHT CONDITIONS

Note :
This
Histogram
show the
distribution
of accident
relation of
light
conditions in
daylight and
darkness
lights lit, It
replicate
that light
factor would
not reflected
traffic
accident.

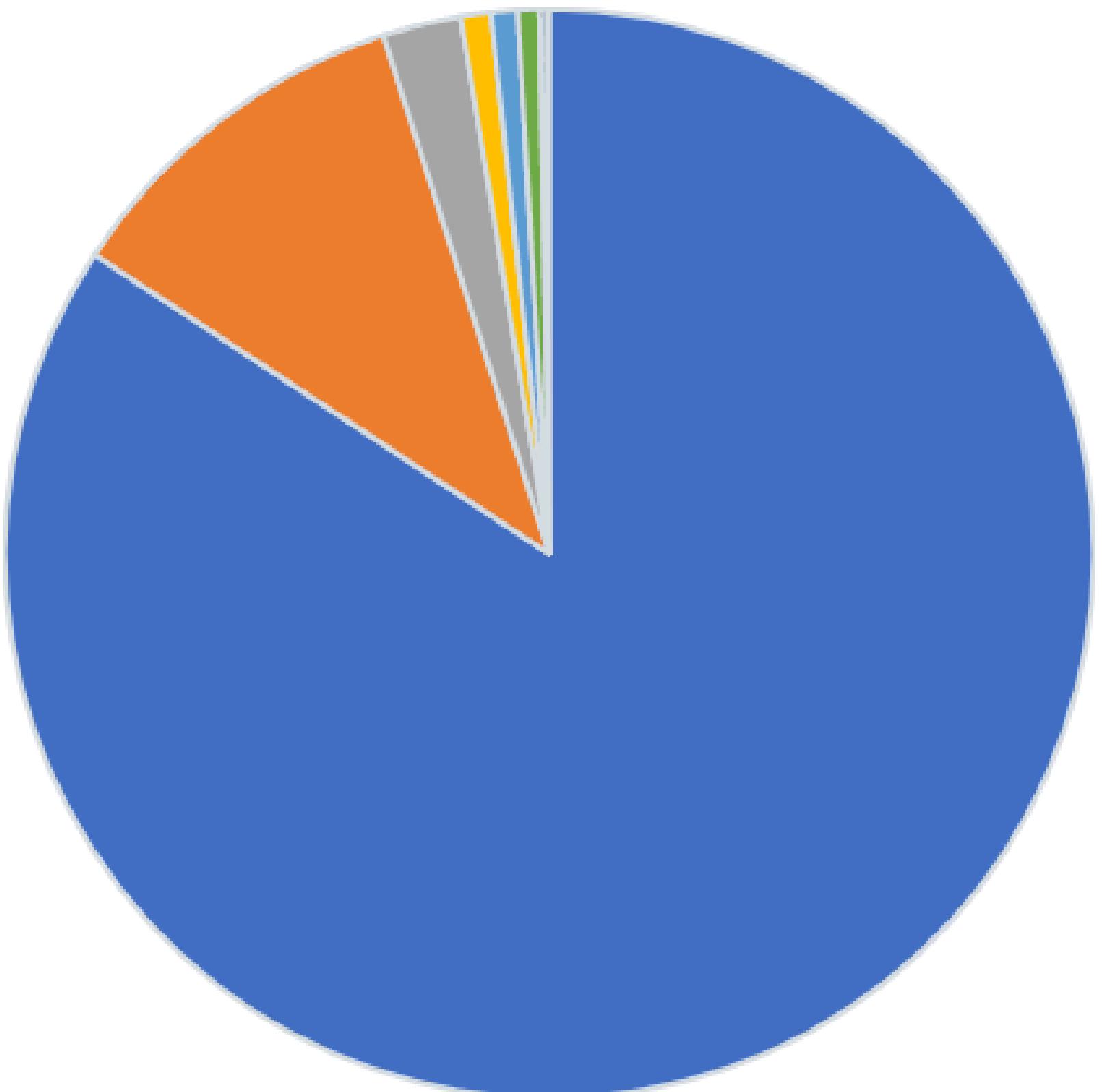
Light Conditions By Accident Severity

■ 0 ■ 1 ■ 2



ROAD JUNCTION RELATION WEATHER CONDITION

Weather Condition Distribution By Road Junction



- Normal
- Raining
- Other
- Cloudy
- Windy
- Snow
- Raining and Windy
- Fog or mist

Seattle

September 15
Monday



25°

Feels like 23°

cloudy



+25°
Sunday



+19°
Monday



+14°
Tuesday



+7°
Wednesday



-3°
Thursday



0°
Friday



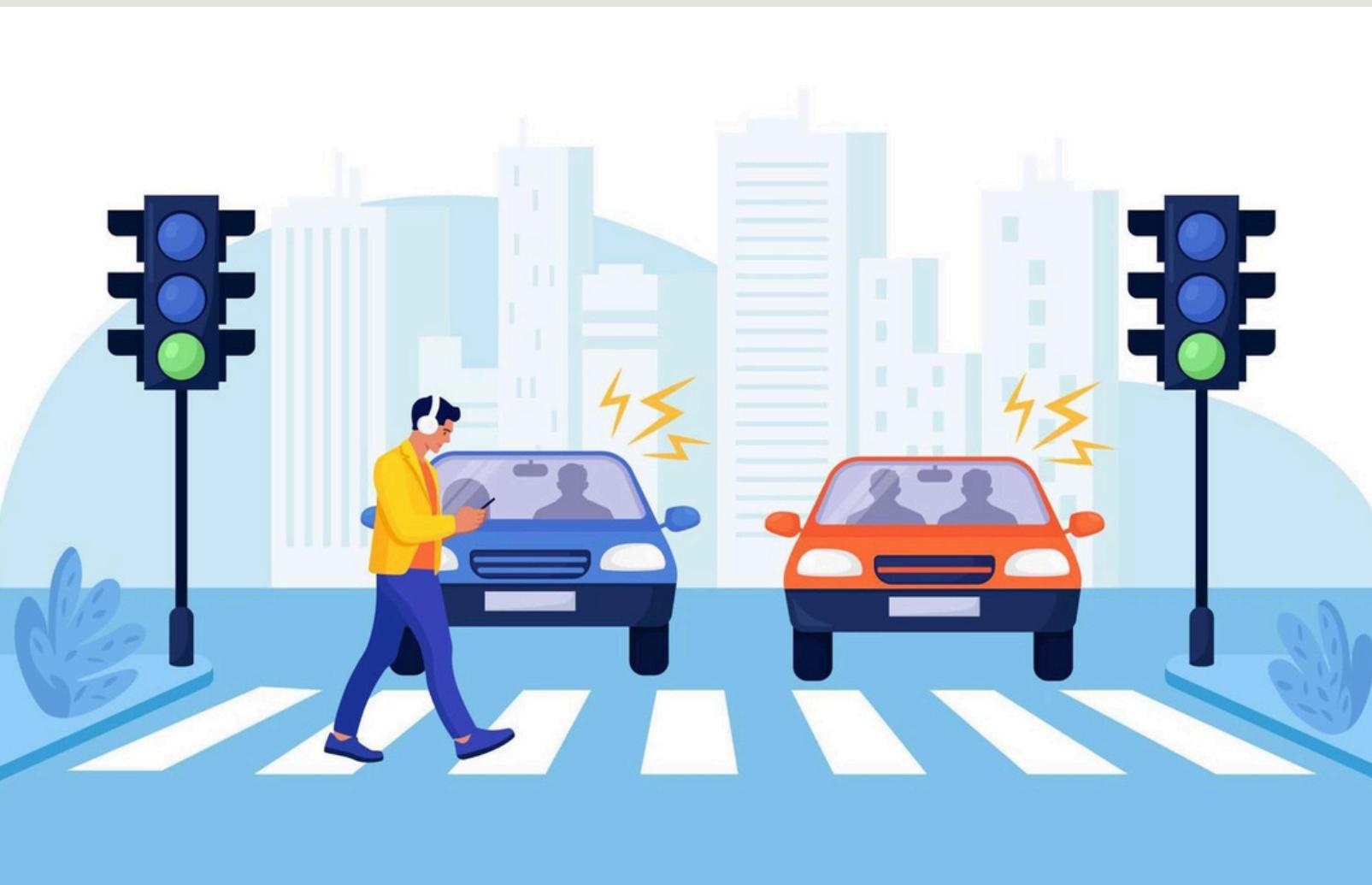
+5°
Saturday

	sunrise 7:00
	sunset 19:20
	60%
	10 km/h
	North-East
	1023.0 mb

Note :
Weather conditions relation with road junction is far unrelated connection with accident data. Therefore, normal situation have more facing accident condition for this data driven chart shown.

KEY NOTES

Therefore, Beyond this insights we identified that Accident rules & regulations not been known for all driving people because of not having sufficient approval methodology haven countries like India, Bangladesh, etc., comparable with UK and Europe .had more efficient driving methodology.





FOREIGN COUNTRIES REGULATION



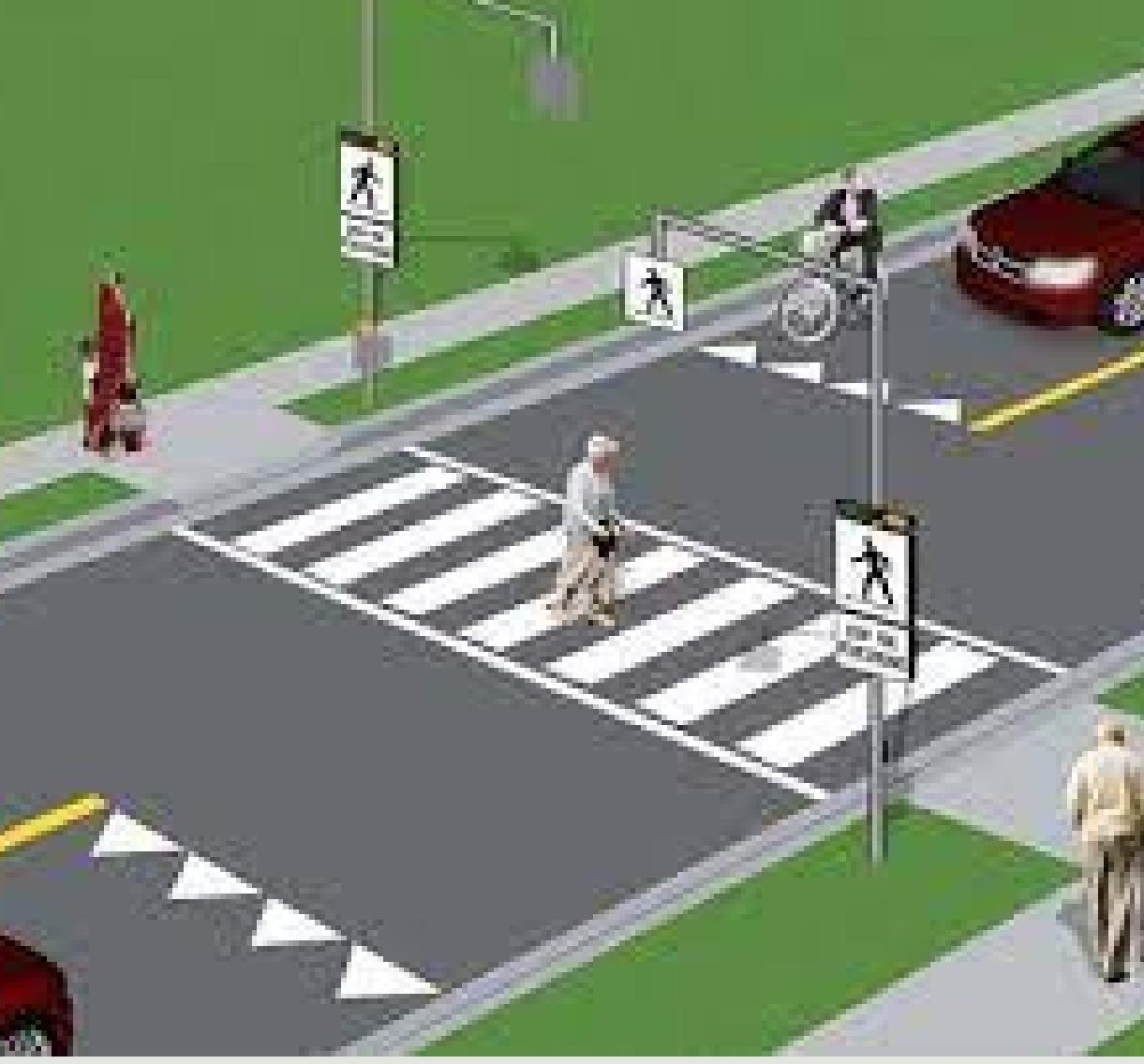
Foreign Countries like germany,finland have written and practical exam to get an driving license to have an sufficient knowledge from driving.

To get an driving license in foreign countries time takes upto 4 to 12 months (nearly 1 year) to clear the exam to got driving so, they enough knowledge. it reduced the traffic accident.



CONLCUSION

This conclusion has to been shown that male death ratios are so high, under18 age people involved in traffic accident, light conditions in daylight(day) and darkness(night) are not much significant difference exist. Weather condition like rainy, windy, cloudy, sunny and fog & mist are also not much significant difference. Additional insights, foreign countries like finland , germany countries had traffic regulation and driving license procedure are so authentic thing .So, this type of procedure would follow by other countries to decrease the Road traffic accident significantly.



Thank You

Presented by T Hemnath