

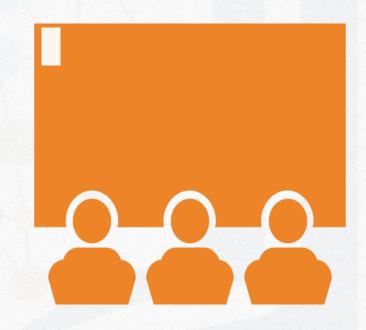
# **Road Accident Analysis** for Statisense

Miracle Omonu

May 1st, 2024

## Table Of Contents

- Executive Summary
- Introduction
- Methodology
- Results
  - Visualization Charts
  - Dashboard
- Conclusion





## EXECUTIVE SUMMARY



- This report contains the analysis of road accidents that took place in Nigeria, in the year 2023, partitioned into the four quarters (Q1 to Q4).
- The report showed that accidents increased in their occurrence as the quarters increased but not necessarily in their severity.
- The major cause of road accidents in Nigeria was Speed Violation (SPV).

## INTRODUCTION

- The report aimed to answer the following questions:
  - Which state did majority of accidents occur in Nigeria in 2023?
  - What caused most of the accidents in Nigeria in 2023?
  - What quarter did majority of the accidents occur?



## METHODOLOGY



- The data was located in: <a href="https://nigerianstat.gov.ng/elibrary">https://nigerianstat.gov.ng/elibrary</a>
- After which Road Transport Data for Q1, Q2, Q3 and Q4 was downloaded.
- E.T.L was carried out for the following purposes:
  - Removal of errors and null values
  - Arrangement of tables for analysis
- Tools used for this analysis were:
  - Microsoft Excel
  - Microsoft Power BI Desktop

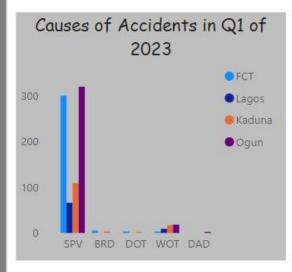


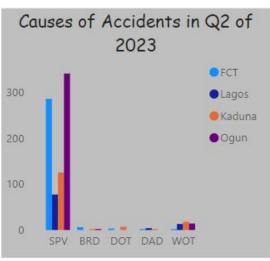
## Causes of Accidents

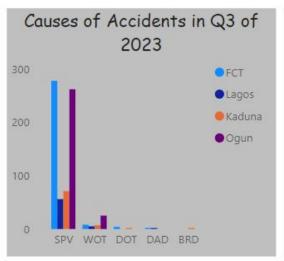
ACCIDENT CAUSALITY ANALYSIS IN 2023

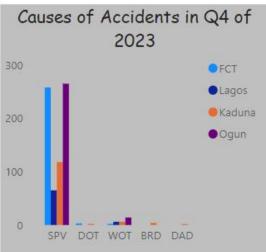










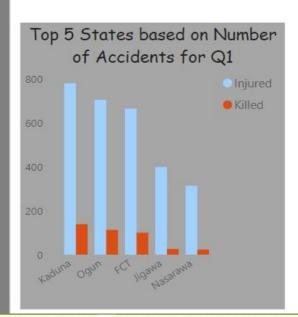


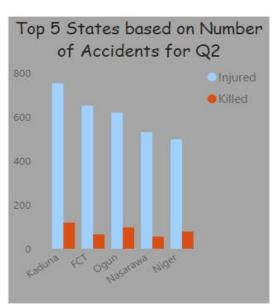
#### CAUSES OF ACCIDENTS- FINDINGS & IMPLICATIONS

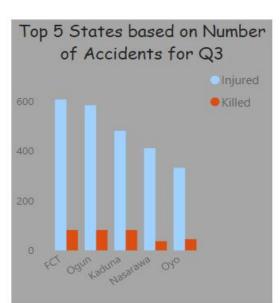
- The major cause of accident was SPV Speed Violation.
- The two states that accidents occurred the most were FCT and Ogun states.
- Accidents due to bad roads (BRD) and driving under the influence of alcohol or drugs (DAD) was almost nonexistent and reduced as the year drew to its close.

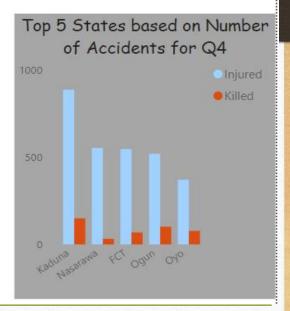
# Severity of Accidents in 2023











# SEVERITY OF ACCIDENTS - FINDINGS & IMPLICATIONS

- Based on the number of cases recorded, the chart was filtered to show the top 5 for each of the four quarters.
- The number of fatal accidents recorded did not exceed 100, however, accidents that caused injuries tripled that amount.
- FCT, Kaduna, Nasarawa and Ogun states always featured in the top 5 states with most accidents recorded. This is most likely due to the fact that they serve as access points to major urban areas in Nigeria.

## DASHBOARD

https://github.com/Mimiraks/StatiSense/blob/main/Sta tisense%20Report.pbix



### CONCLUSION AND RECOMMENDATIONS



- Road accidents are deplorable and it increases with each quarter.
- Education of road users on the dangers of speed violation should be on the increase.
- Driving above the speed limit should incur penalizing of the drivers, even up to recalling their drivers license in order to forestall accidents.
- Speed bumps in areas of domiciliation and setting of speed limits should be encouraged.