



# Traffic Analysis & Safety along Ayobo - Olorunda Road, Lagos

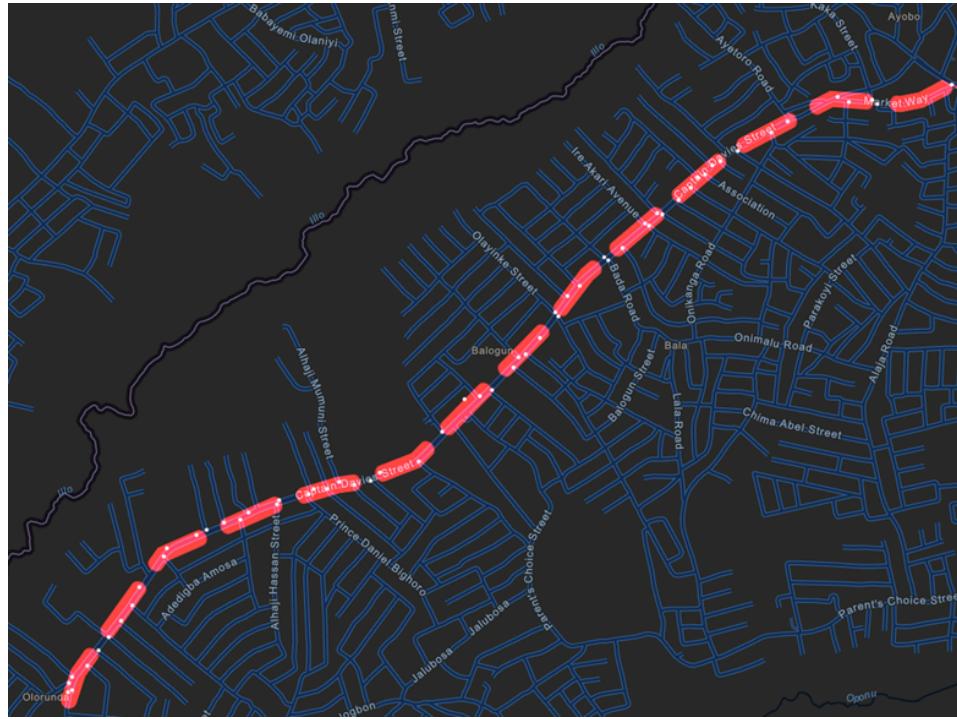
This report focuses on traffic analysis and safety along the Ayobo - Olorunda road, Lagos, Nigeria.

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## Introduction

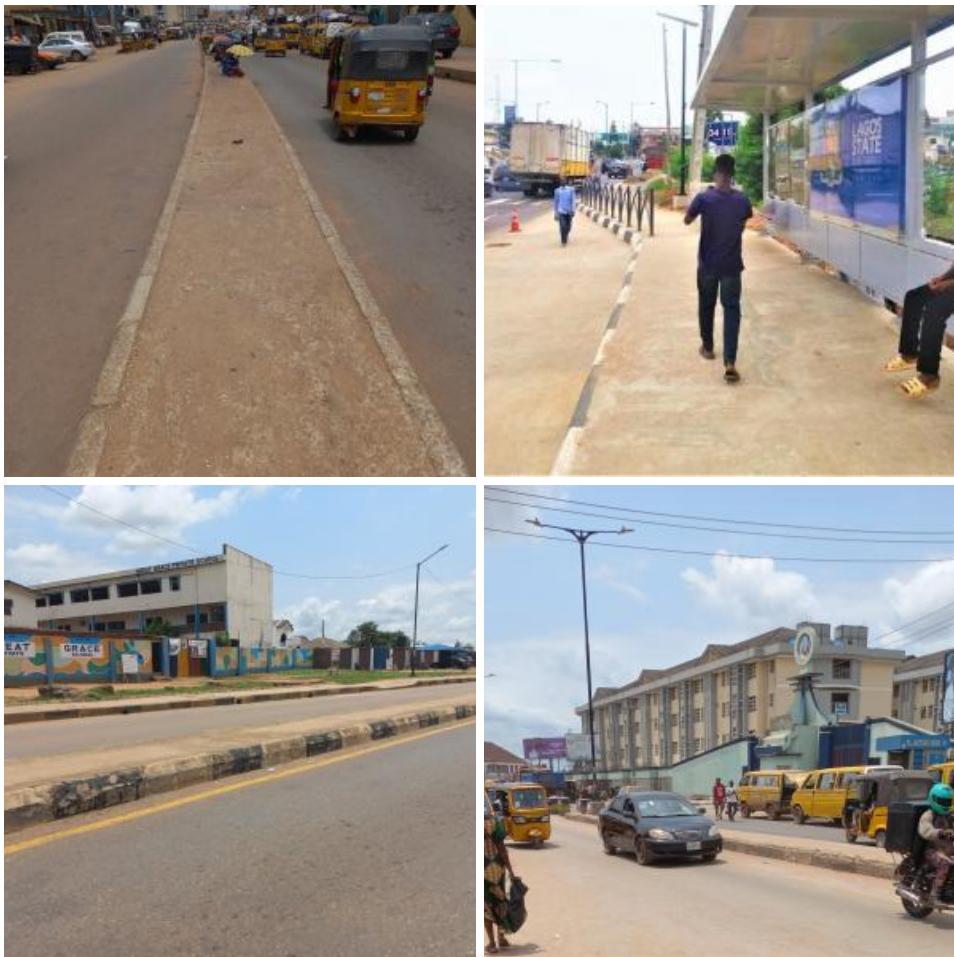
The Ayobo - Olorunda road is 5.1km long and 20m wide and runs from Megida, Ayobo (Lat. 6.6006°, Long. 3.2417°) through Ishefun, Olorunda (Lat. 6.5752°, Long. 3.2045°).



## Ayobo - Olorunda Road, Lagos, Nigeria

## Objective

The primary objective of this survey is to analyze traffic conditions and safety concerns along the Ayobo-Olorunda road. By collecting data on various attributes such as junction types, traffic flow, road conditions, and amenities, we aim to identify areas of high, medium, and low traffic conditions and highlight safety measures for motorists and pedestrians.



## Methodology

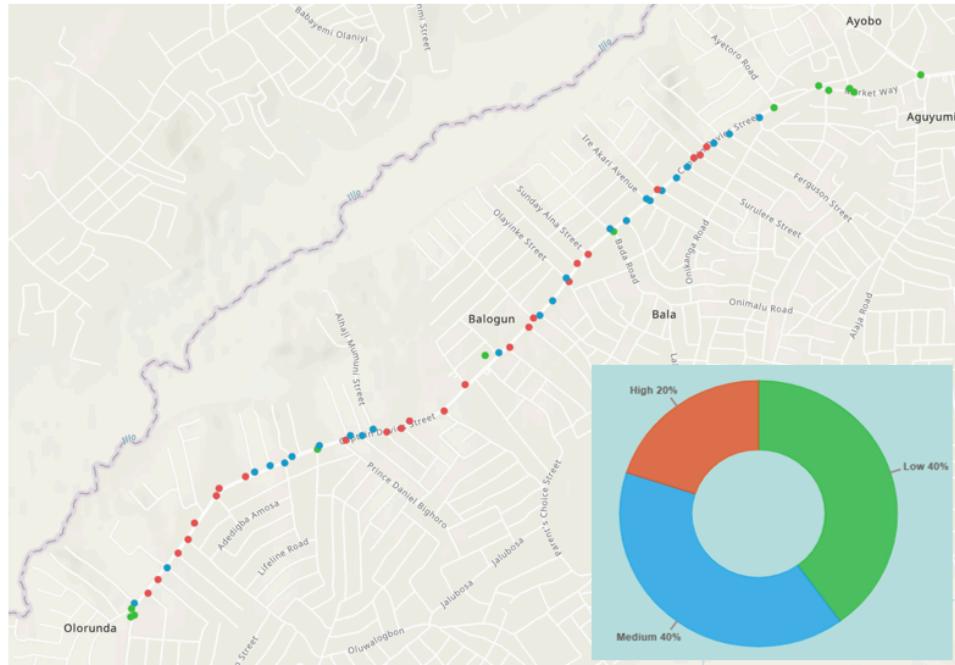
Data collection was conducted using the ESRI Field Maps mobile application, covering seven attributes including geographical location, street name, junction type, traffic flow, road conditions, available amenities, and surrounding land use. Physical observations were made at each location over three days, covering approximately 1.6km per day. The link to the Field Map is found [here](#).

## Findings

### Traffic Flow

The survey identified various types of junctions along Ayobo - Olorunda road, including intersections, roundabouts, and

terminals. Analysis of traffic flow and road conditions revealed areas of congestion and potential safety hazards.



**Intensity of traffic at junctions along the Ayobo - Olorunda road**

## Market

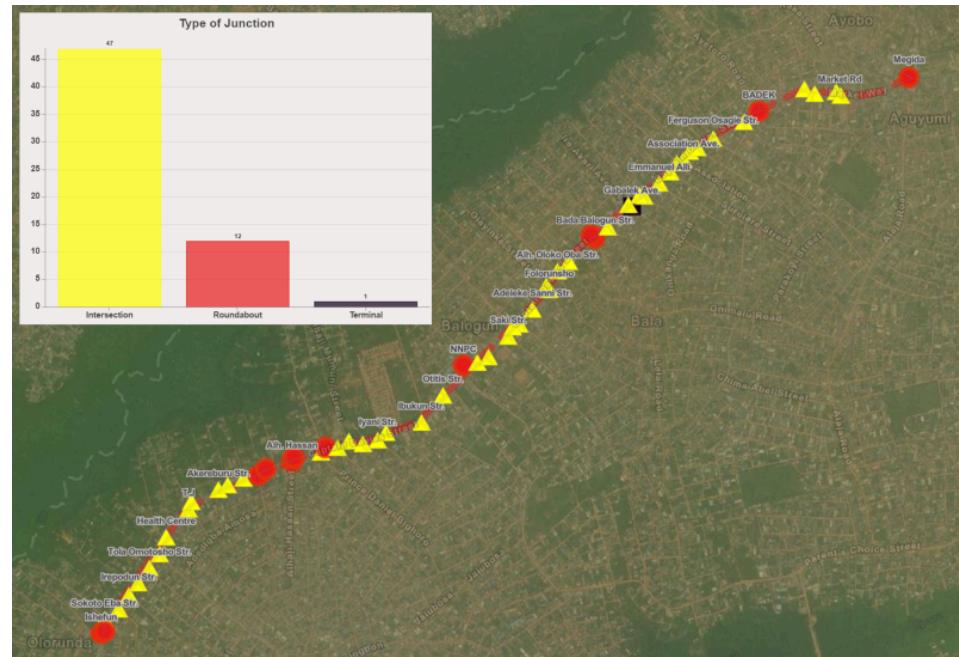
The survey identified a high-traffic market area along Ayobo - Olorunda road, highlighting the need for pedestrian safety measures and traffic management strategies.



**High Traffic flow along the market road**

## Junctions

Majority of the junctions along the Ayobo – Olorunda road are intersections. Amongst a total of 60 junctions along the road, there are 47 intersections, 12 roundabouts and only 1 bus terminal.



**Distribution of Intersections, Roundabouts and Terminals along the road**

## Safety Concerns and Recommendations

### High Traffic Areas

It is highly advisable that motorists maintain the recommended speed limits around high traffic areas such as the market road and the congested institutional areas. Additionally, pedestrians should be careful around roundabouts which tend to have a medium to high traffic flow.



**High Traffic around institutional and market areas**

## Amenities

While there exists amenities such as shelter, benches, and lighting along the Ayobo - Olorunda road, a number of bus stops lack these. A review of these spots by the traffic management authority is highly recommended to ensure passenger convenience and safety.



**Amenities along the road**

## Conclusion

This survey provides valuable insights into traffic conditions and safety considerations along Ayobo - Olorunda road. By understanding junction characteristics, traffic flow patterns, and amenities availability, stakeholders can implement targeted interventions to enhance road safety and improve the overall transportation experience.

## Links to Project files

Field Map: <https://fieldmaps.arcgis.app/?itemID=166f7ab655b449f4b2ca56b47ec54a3c&referenceConte>

<https://www.arcgis.com/share/xt=open&portalURL=https%3A%2F%2FSECETMCs.maps.arcgis.com>

## **Seneca Polytechnic, Canada**

ArcGIS Online, Story Maps,  
and Field Maps Designer

**ESRI**