



House Hunting around Ayobo, Lagos?

Discover your Neighborhood: Visualizing the 200m Boundary of Ayobo - Olorunda Road for Prospective Residents' Accessibility.

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Introduction

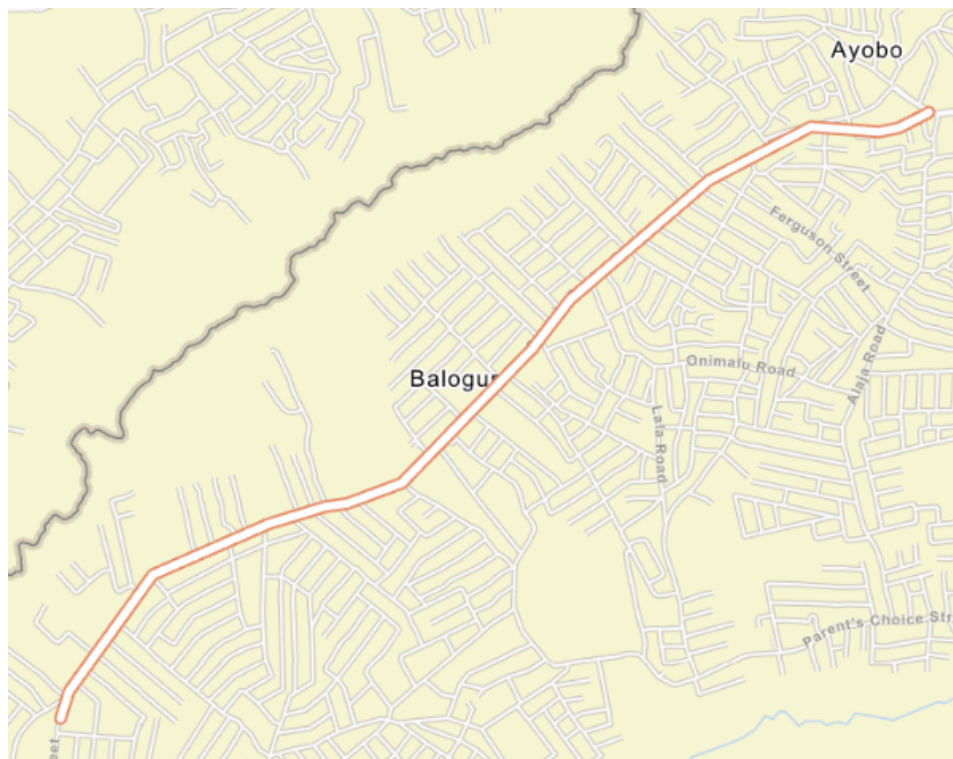
It is reasonable to assume that 90% of individuals searching for housing are interested in renting properties within a specific proximity to a road for the convenience of accessing transportation routes and amenities, potentially resulting in shorter commute times and enhanced urban connectivity. The report aims to visualize a 200m jurisdiction of Ayobo Road in Lagos, Nigeria.



Methodology

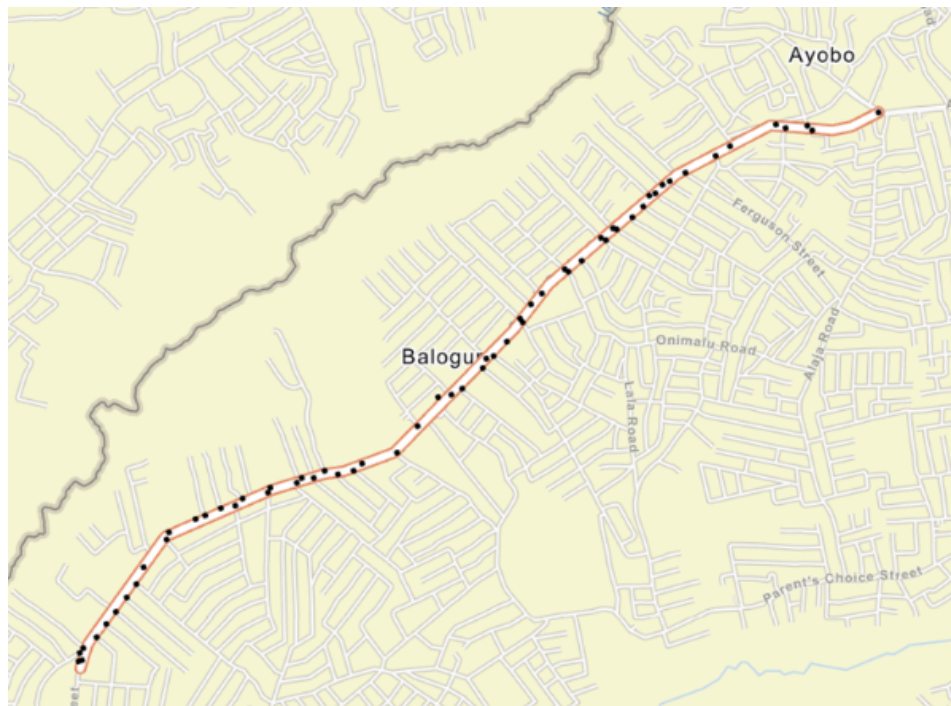
Data Collection

- A **point feature** layer was created in ArcGIS Online, and the Ayobo road was digitized along the World Street Map basemap using the **Sketch (line)** tool in ArcGIS Online.



Main road digitized with the sketch tool in ArcGIS online

- Using the **ESRI ArcGIS FieldMaps**, a mobile application was created to collect the spatial information of the junctions along the road. This link to the application can be found [here](#).

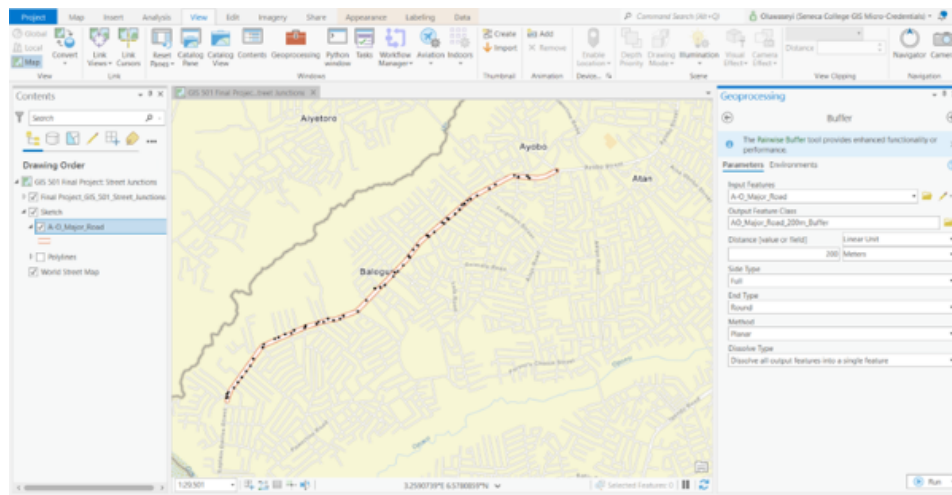


Map showing junctions along the Ayobo road collected using ArcGIS FieldMaps

Analysis - 200m jurisdiction

Using the **buffer geoprocessing tool** in ArcGIS Pro, the 200m buffer is created around Ayobo main road (A_O_Major_Road). The parameters used for the buffer analysis (as shown in the map below) are as follows:

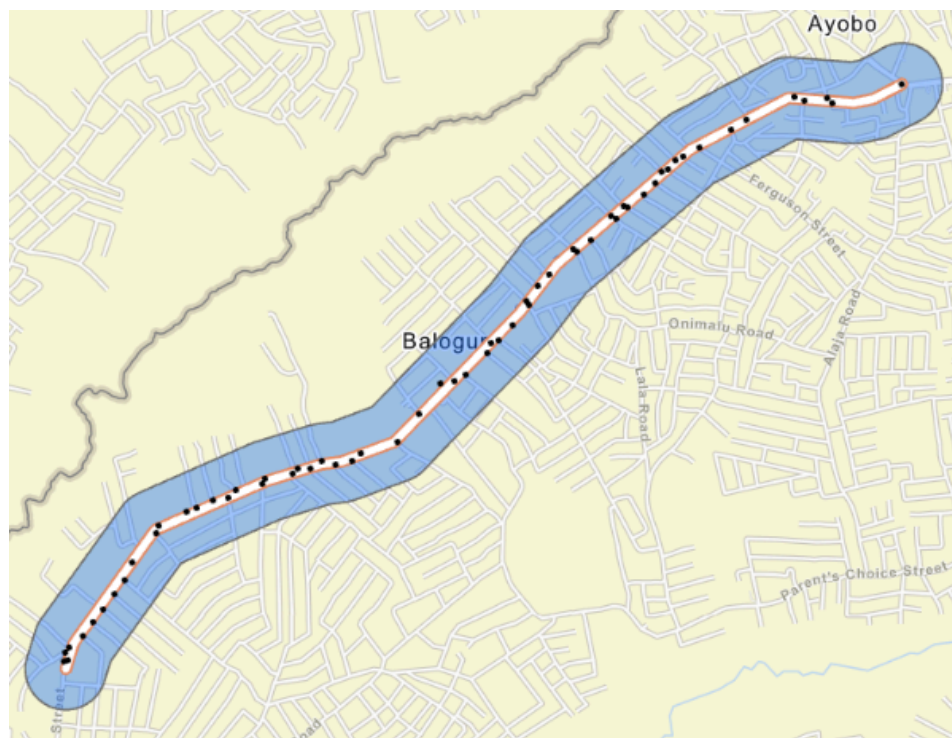
- Input features: A_O_Major_Road
- Output features: A-O_Major_Road_200m_Buffer
- Side Type: Full
- End Type: Round
- Method: Planar
- Dissolve Type: Dissolve all output features into a single feature



Buffer Analysis in ArcGIS Pro

Results

The map below shows the output of the buffer analysis, a 200m radius around the Ayobo road.



200m Buffer around Ayobo - Olorunda road

Conclusion

Using the feature layer, sketch tool, in ArcGIS Online, ArcGIS FieldMaps, and the buffer geoprocessing tool in ArcGIS Pro, a

200m buffer analysis around the Ayobo - Olorunda road has been created. This visualization may be helpful to real estate agencies and individuals interested in renting properties within the 200m jurisdiction of the Ayobo - Olorunda road.

References

- ESRI ArcGIS Online, ArcGIS Pro.
- Seneca Polytechnic, Canada