**STUDY OF ROAD CONNECTIVITY IN OGBOMOSO NORTH**

**BY**

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**Certification**

This is to certify that all the activities in this project report was carried out by AKINDEERE ZAINAB ABIKE (Matric no: 182615) of the department of Transport Management, Faculty of Management Sciences, Ladoke Akintola University of Technology, Ogbomosho, Oyo State, Nigeria.

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# Dedication

This project is dedicated to the Almighty God who has been my source of Strength, Grace and Wisdom throughout the period of my course, through whose Grace and Favor I have been able to run my course and scale through the hurdles of my academic pursuit.

**Acknowledgement**

The success and the outcome of this project were possible by the guidance and support of many people. I am incredibly privileged to have got this all along with the achievement of my project. It required a lot of effort from each individual involved in this project with me and I will like to thank them.

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# Abstract

This Research aims to conduct an in-depth examination of the road connectivity in Ogbomoso North, with a focus on understanding its current state, identifying potential challenges, and proposing strategic solutions for enhanced urban development. The study recognizes the pivotal role of effective road infrastructure in fostering economic growth, ensuring social well-being, and promoting overall sustainable development. The research methodology encompasses a multi-faceted approach, combining field surveys, data collection, and advanced spatial analysis techniques. Geographic Information System (GIS) tools will be employed to map the existing road network, analyze traffic patterns, and evaluate the condition of key transportation arteries. Concurrently, interviews and surveys will be conducted with local residents, government officials, and transportation experts to gather qualitative insights into the community's perspectives on road connectivity. The investigation will address critical aspects such as the adequacy of existing roads, the efficiency of traffic flow, accessibility to key facilities, and the impact of road conditions on the local economy. Additionally, the study will explore the environmental implications of road connectivity and propose eco-friendly solutions to minimize adverse effects. The findings of this research are expected to contribute valuable information to urban planners, local authorities, and policymakers, aiding in the formulation of evidence-based strategies for optimizing road connectivity in Ogbomoso North. By aligning with the principles of sustainable urban development, the project seeks to enhance the overall quality of life for residents, promote economic prosperity, and create a blueprint for similar assessments in other regions. In conclusion, this study aspires to be a comprehensive resource for understanding, assessing, and improving road connectivity in Ogbomoso North. Through a meticulous investigation of the current infrastructure and thoughtful recommendations for future development, the research aims to play a crucial role in shaping the sustainable growth of the region and providing a template for similar studies in other urban contexts.

# CHAPTER ONE

# 1.0 **Introduction**

**1.1 Background of Study**

Roads play a pivotal role in sustainable development, particularly in the context of agricultural growth and rural revitalization. They act as essential conduits, facilitating the movement of goods, services, and people crucial to agricultural production. Efficient road networks enable better connectivity between agricultural hubs, markets, and transportation centers, thereby enhancing agricultural trade, productivity, and access to resources (Munir *et al*., 2021). The impact of road construction on sustainable development is multifaceted. While improved infrastructure can boost agricultural labor productivity and mechanization, it also poses challenges such as land fragmentation and ecological costs. Hence, understanding the intricate balance between road development and its environmental and social implications is crucial in promoting sustainable agricultural practices within rural areas (Ali *et al*., 2021).

The layout and structure of road networks wield considerable influence on urban development, dictating how people and goods navigate within an area and impacting its overall functionality and accessibility. Roads are the lifeblood of civilization, crucial for social interaction and economic prosperity. In urban areas, convenient transportation systems, especially in commercial spaces like marketplaces, are essential. However, unplanned urban sprawl has often led to unprepared road infrastructure, impeding traffic flow and hindering road connectivity. High-quality roads and robust connectivity enhance economic output, reduce travel costs, and make planning regions more attractive. Traffic congestion, a result of increased motorization and inadequate road networks, adversely affects productivity and urban infrastructure (Akinola, 2023).

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