

## **ABSTRACT**

The urban transport systems in Africa's cities and urban centres suffer from poor allocation of financial resources, lack of regulatory frameworks, institutional weaknesses, inefficient public transport systems, poor allocation of road space and inadequate traffic management systems. The today's urban mobility challenge in Kenya cities is to arrive at balanced provision of traffic infrastructure for both Motorized Transport (MT) traffic and Non- Motorized Transport (NMT) traffic. The road infrastructures within CBD of Nairobi City were majorly designed for MT giving little attention to NMT. NMT passengers generate no air pollution, no greenhouse gases, and little noise and air pollution; they are efficient and environmentally sustainable means of making short trips within urban and city centres.

This study sought to investigate circulation and safety of streets in Githogoro informal settlement of Nairobi City. This study further seeks to examine the potential and sustainability for effective transportation planning for NMT.

The research methodology involved the sample distribution, procedure and sample sizes that was used during Data collection. The key findings during field work and necessary recommendations to the objectives of the study to promote NMT for urban areas. The study targeted pedestrians, cyclists, households, handcarts pulley and other Key informants within the transport and planning sectors. The primary data was sourced by administering questionnaire, interviewing key informants, photography and GPS observations. Secondary data were collected from the review of published and unpublished materials, government reports, print media and the internet. The Microsoft Excel, AutoCAD Land Development and GIS software's (ArcGIS and ArcView) were the main computer packages used for data analysis.

The study found that there exist the high NMT and NMT traffic congestion, lack of NMT promotion programs and lack of NMT infrastructures which has led to unsustainable urban mobility and development within study area. The study recommended that NMT should be encouraged and promoted within the frame work of sustainable transport development due to its health, transportation, economic, quality of life and environmental benefits. From the study it can be concluded that logical integration of Non-Motorized vehicles and MT will enhance the modernization of sustainable urban transport