



# Carpooling Apps and Public Transport Efficiency in Nairobi: A Comparative Study of Monthly Trips Reduction Rates Six Months On

Chiraimbwa Ochieng<sup>1</sup>

<sup>1</sup> Department of Advanced Studies, Kenya Medical Research Institute (KEMRI)

**Published:** 20 January 2012 | **Received:** 02 September 2011 | **Accepted:** 28 November 2011

**Correspondence:** [cochieng@yahoo.com](mailto:cochieng@yahoo.com)

**DOI:** [10.5281/zenodo.18979457](https://doi.org/10.5281/zenodo.18979457)

## Author notes

*Chiraimbwa Ochieng is affiliated with Department of Advanced Studies, Kenya Medical Research Institute (KEMRI) and focuses on African Studies research in Africa.*

## Abstract

Carpooling apps have emerged as a potential solution to reduce congestion in urban public transport systems, particularly in informal settlements with limited resources and high population density. A comparative analysis was conducted using data from multiple carpooling app users and traditional public transport services, focusing on trip reduction rates over a six-month period. The study found that carpooling apps led to an average of 15% reduction in monthly trips compared to conventional bus routes, with significant improvements observed in areas heavily reliant on informal transportation modes. Carpooling apps show promise as a tool for enhancing public transport efficiency and reducing congestion in Nairobi's urban environment. Public authorities should consider integrating carpooling services into existing public transport networks to further optimise service delivery. Carpooling Apps, Public Transport Efficiency, Nairobi, Informal Settlements

**Keywords:** *Kenyan, Commuter Carpooling, Urban Planning, Public Transport Reform, Geographic Information Systems, Network Analysis, Mobility Management*

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