



Improving School Bus Safety and Efficiency in Nigerian Cities: A Three-Month Impact Assessment through Driver Training Programmes

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Abstract

Nigerian cities face significant challenges in school bus safety and efficiency, which can lead to accidents and student injuries. A mixed-methods approach was employed, including pre- and post-training assessments, surveys, and observational data collection to measure changes in drivers' practices and student outcomes. The analysis revealed an improvement of 20% in driver adherence to safety protocols after the training programme, with a mean reduction of 15 minutes in travel times among participating schools. Driver training programmes significantly enhanced both safety and efficiency in school bus operations within Nigerian cities. Further comprehensive evaluations should be conducted to ensure sustainability and scalability of these interventions. school buses, driver training, safety protocols, efficiency improvements, Nigerian cities The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan, urbanization, sustainable transport, public health, intervention studies, data analytics, safety protocols*

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