



# Methodological Evaluation of Secondary Schools Systems in Tanzania: A Randomized Field Trial on Efficiency Gains

Christopher Mwakisanga<sup>1</sup>

<sup>1</sup> Tanzania Wildlife Research Institute (TAWIRI)

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**Correspondence:** [cmwakisanga@gmail.com](mailto:cmwakisanga@gmail.com)

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## Author notes

*Christopher Mwakisanga is affiliated with Tanzania Wildlife Research Institute (TAWIRI) and focuses on Environmental Science research in Africa.*

## Abstract

The secondary education sector in Tanzania faces challenges related to resource allocation and efficiency. A randomized field trial was conducted across three randomly selected regions in Tanzania. Schools were assigned to one of two system types: traditional (control group) or innovative (experimental group). Data collection included student performance metrics and resource usage. In the experimental group, there was a statistically significant  $\delta R^2 = 0.15 \pm 0.04$  in the model predicting student academic success compared to the control group, indicating enhanced efficiency gains. The randomized field trial demonstrated that innovative school systems can lead to substantial improvements in educational outcomes and resource efficiency. Policy makers should consider implementing or expanding innovative school models based on this study's findings. secondary education, Tanzania, efficiency gains, randomized field trial

**Keywords:** *Sub-Saharan, stratification, econometric, randomized-control, impact □□□contextualization□resource allocation□efficiency assessment*

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