



# Methodological Evaluation of Secondary School Systems in Uganda: A Randomized Field Trial on System Reliability

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## Abstract

The evaluation of secondary school systems in Uganda is crucial for understanding educational quality and identifying areas for improvement. A mixed-method approach was employed, including quantitative assessments using a sample survey and qualitative insights from interviews with educators. Data were analysed using logistic regression models to evaluate system performance. In the first year of the study, there was an observed increase in student participation rates by 15% compared to baseline measures, indicating improved engagement. The randomized field trial demonstrated that systematic interventions can enhance educational outcomes and reliability in secondary schools. Further research should focus on scaling up successful practices identified through this study for broader impact across Uganda's education sector. secondary school systems, system reliability, logistic regression, environmental science, Uganda The empirical specification follows  $Y = \beta_{0+\beta} p X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *Geographic, Sub-Saharan, Qualitative, Quantitative, Reliability, Validity, Iterative*

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