



Methodological Evaluation of Secondary Schools Systems in Uganda Using Panel Data for Cost-Effectiveness Assessment

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Published: 24 October 2009 | **Received:** 05 August 2009 | **Accepted:** 28 September 2009

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DOI: [10.5281/zenodo.18888112](https://doi.org/10.5281/zenodo.18888112)

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Abstract

This study addresses a current research gap in Environmental Science concerning Methodological evaluation of secondary schools systems in Uganda: panel-data estimation for measuring cost-effectiveness in Uganda. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured analytical approach was used, integrating formal modelling with domain evidence. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Methodological evaluation of secondary schools systems in Uganda: panel-data estimation for measuring cost-effectiveness, Uganda, Africa, Environmental Science, brief report This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. The empirical specification follows $Y = \beta_{0+\beta}^{-1} p X + varepsilon$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African Geography, Panel Data, Cost-Effectiveness, Methodology, Econometrics, Education Policy, Quantitative Research*

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