



# Methodological Assessment and Cost-Effectiveness Analysis of Nigerian Secondary School Systems Using Difference-in-Differences Approach,

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## Abstract

This study addresses a current research gap in Environmental Science concerning Methodological evaluation of secondary schools systems in Nigeria: difference-in-differences model for measuring cost-effectiveness in Nigeria. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured review of relevant literature was conducted, with thematic synthesis of key findings. 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 Nigeria: difference-in-differences model for measuring cost-effectiveness, Nigeria, Africa, Environmental Science, scoping review This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. The empirical specification follows  $Y = \beta_{0+\beta} p X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *Sub-Saharan, stratification, econometrics, public policy, randomized trials, impact evaluation, geographical analysis*

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