



Methodological Evaluation of Regional Monitoring Networks in Uganda Using Difference-in-Differences for Adoption Rates Analysis

Kabwita Ishimwe¹, Namugoyi Nakawogo^{1,2}

¹ Makerere University Business School (MUBS)

² Department of Advanced Studies, Kyambogo University, Kampala

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Correspondence: kishimwe@gmail.com

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Author notes

Kabwita Ishimwe is affiliated with Makerere University Business School (MUBS) and focuses on Environmental Science research in Africa.

Namugoyi Nakawogo is affiliated with Department of Advanced Studies, Kyambogo University, Kampala and focuses on Environmental Science research in Africa.

Abstract

This study addresses a current research gap in Environmental Science concerning Methodological evaluation of regional monitoring networks systems in Uganda: difference-in-differences model for measuring adoption rates in Uganda. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A mixed-methods design was used, combining survey and interview data collected over the study period. 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 regional monitoring networks systems in Uganda: difference-in-differences model for measuring adoption rates, Uganda, Africa, Environmental Science, intervention study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. The empirical specification follows $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Uganda, Geographic Information Systems, Remote Sensing, Panel Data Analysis, Spatial Econometrics, Time Series Analysis, Logistic Regression*

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