



# Methodological Evaluation of Field Research Stations in Rwanda Using Difference-in-Differences for Adoption Rate Measurement

Nkurunziza Uwimbabazwe<sup>1</sup>

<sup>1</sup> Department of Soil Science, University of Rwanda

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**Correspondence:** [nuwimbabazwe@yahoo.com](mailto:nuwimbabazwe@yahoo.com)

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## Author notes

*Nkurunziza Uwimbabazwe is affiliated with Department of Soil Science, University of Rwanda and focuses on Agriculture research in Africa.*

## Abstract

This study addresses a current research gap in Agriculture concerning Methodological evaluation of field research stations systems in Rwanda: difference-in-differences model for measuring adoption rates in Rwanda. 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 field research stations systems in Rwanda: difference-in-differences model for measuring adoption rates, Rwanda, Africa, Agriculture, conference paper 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:** *Rwanda, Agricultural geography, Methodology, Experimental design, Adoption theory, Randomized controlled trials, Spatial analysis*

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