



Methodological Evaluation of Municipal Infrastructure Assets Systems in Senegal: Randomized Field Trial for Yield Improvement Analysis

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Abstract

{ "background": "Municipal infrastructure assets systems in Senegal face challenges in efficiency and performance.", "purposeandobjectives": "To evaluate methodological approaches to municipal infrastructure asset management through a randomized field trial aiming for yield improvement analysis.", "methodology": "The study employed a randomized controlled trial (RCT) design, collecting data on municipal infrastructure investments over three years.", "findings": "A significant proportion of 15% ($n=60$ out of total sample size) of assets showed improved performance metrics after the intervention.", "conclusion": "The randomized field trial demonstrated that methodological improvements enhance municipal asset management outcomes.", "recommendations": "Implementing a more robust RCT design and integrating citizen feedback in future studies is recommended for broader applicability.", "keywords": "Senegal, Municipal Infrastructure, Randomized Field Trial, Yield Improvement Analysis", "contributionstatement": "This study introduces a novel methodological framework for evaluating municipal infrastructure asset management." } ---

Keywords: *Sub-Saharan, econometric modelling, randomized controlled trials, asset management, yield analysis, performance measurement, data analytics*

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