



# **Methodological Evaluation of Field Research Stations Systems in Senegal: A Randomized Trial for Cost-Effectiveness Assessment**

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## **Abstract**

Field research stations play a crucial role in environmental science by providing controlled environments for ecological studies. In Senegal, these stations are essential for monitoring biodiversity and ecosystem health. A randomized field trial will be conducted to compare different configurations of research stations. Key variables such as site selection criteria, funding models, and operational costs will be systematically analysed. This study provides empirical evidence for the most cost-effective configuration of field research stations in Senegal, offering insights into resource management strategies for environmental science initiatives. Based on the findings, a recommendation is made to implement modular funding models and decentralized station placement as best practices for future research efforts. The empirical specification follows  $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *Sub-Saharan, biodiversity, experimental design, resource allocation, randomized control trial, cost-benefit analysis, sustainability assessment*

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