



Methodological Evaluation of Regional Monitoring Networks in Tanzania: A Quasi-Experimental Approach to Assess Adoption Rates

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Abstract

The establishment of regional monitoring networks in Tanzania is aimed at enhancing biodiversity conservation efforts. A mixed-methods approach combining surveys, interviews, and observational studies was employed to assess network adoptions across different regions in Tanzania. Of the 120 surveyed institutions, 65% reported adopting at least one monitoring tool within the last year, with NGOs showing a higher adoption rate (75%) compared to government agencies (50%). The quasi-experimental design successfully highlighted significant differences in adoption rates between governmental and non-governmental entities. Future studies should consider longitudinal data collection to track long-term changes in network adoptions. The empirical specification follows $Y = \beta_{0+\beta} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African Geography, Biodiversity Conservation, Quasi-Experimental Design, Methodological Evaluation, Monitoring Networks, Remote Sensing, Surveys*

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