



Methodological Evaluation of Regional Monitoring Networks in Rwanda: Quasi-Experimental Design for Adoption Rate Measurement

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Abstract

Rwanda faces challenges in effectively monitoring land degradation across its diverse landscapes. Conducted a scoping review on existing monitoring networks, critiquing their methodologies and proposing improvements through a quasi-experimental framework. Regional monitoring networks in Rwanda showed varying levels of adoption, with an estimated 40% showing moderate to high engagement by stakeholders. The proposed quasi-experimental design can enhance the measurement of adoption rates for future regional monitoring efforts. Implement a mixed-methods approach combining quantitative and qualitative data collection techniques. The empirical specification follows $Y = \beta_{0+\beta} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Savanna, GIS, spatial analysis, sampling methods, data quality assurance, indicator selection, model validation*

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