Methodological Assessment of Regional Monitoring Networks in Tanzania: Adoption Rates via Difference-in-Differences Analysis

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Abstract

Regional monitoring networks have been established in various parts of Tanzania to track agricultural practices and outcomes. However, their effectiveness and adoption rates among farmers vary significantly. A systematic review of existing data on farmer participation in monitoring networks was conducted. A DiD regression analysis was applied to assess the impact of network presence on adoption rates, with robust standard errors incorporated. In one region studied, farmers' adoption rates increased by an average of 30% when they were part of a monitoring network compared to those who did not participate (95% confidence interval: 20-40%). The DiD analysis provided evidence that regional monitoring networks significantly improved the adoption rates of agricultural practices among farmers. Policy makers should prioritise the expansion and funding of these monitoring networks to enhance their effectiveness in promoting sustainable agriculture. Agricultural Monitoring Networks, Adoption Rates, Difference-in-Differences Analysis, Tanzania The empirical specification follows $Y = \vec{\beta_{0+\beta}} p X + varepsilon$, and inference is reported with uncertainty-aware statistical criteria.

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