



Methodological Evaluation of Municipal Water Systems Adoption in Uganda: Randomized Field Trial

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Abstract

Municipal water systems in Uganda face challenges related to adoption rates, which are crucial for ensuring sustainable water management and public health. A randomized field trial was conducted, where participants were randomly assigned to receive information about municipal water systems or no information at all. Data on adoption rates, barriers to adoption, and participant feedback were collected and analysed using a mixed-method approach. The findings indicate that the provision of detailed informational materials significantly increased adoption rates by 30% compared to control groups who received no such information (95% confidence interval: 18-42%). This randomized field trial provides evidence on effective strategies for promoting municipal water system adoption in Uganda, with a notable increase in uptake when informational support is provided. Government agencies should prioritise the distribution of informative materials to promote wider adoption of municipal water systems and ensure sustainable water management practices. The empirical specification follows $Y = \beta_{0+\beta} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African geography, randomized controlled trial, water management, sustainability assessment, stakeholder engagement, community participation, intervention evaluation*

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