



Methodological Evaluation of Municipal Water Systems Adoption in Kenyan Cities: A Randomized Field Trial,

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Abstract

Municipal water systems in Kenyan cities have faced challenges in adoption due to various factors such as affordability and reliability of service. A mixed-methods approach was employed, including quantitative surveys and qualitative interviews to assess both quantitative adoption rates and qualitative acceptance factors among urban residents. In the quantitative survey component, it was observed that approximately 45% of respondents reported adopting municipal water systems within one year of trial implementation. Qualitative data highlighted common concerns about system reliability (70%) and cost (60%). The randomized field trial provided insights into the adoption dynamics of municipal water systems in Kenyan cities, revealing both positive and negative perceptions among urban residents. Future studies should consider incorporating additional methods to address identified concerns such as reliability and affordability. Policymakers could use this data to improve system design and service delivery strategies. The empirical specification follows $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Kenyan, geographically, adoption, randomized, trial, methodology, water systems*

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