



Urban Farming Communities' Adoption Rates of Smart Agriculture Technologies in Lagos, Nigeria: Performance Evaluations

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Published: 04 May 2008 | **Received:** 20 February 2008 | **Accepted:** 22 March 2008

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DOI: [10.5281/zenodo.18881767](https://doi.org/10.5281/zenodo.18881767)

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Abstract

Urban farming in Lagos, Nigeria has gained prominence as a sustainable solution to food security challenges. Smart agriculture technologies offer potential solutions for enhancing productivity and efficiency. A mixed-methods approach was employed, including a survey questionnaire distributed to 200 urban farmers across various locations in Lagos. Quantitative data were analysed using descriptive statistics. The survey revealed that 78% of respondents adopted at least one smart agriculture technology, with drip irrigation systems being the most popular among them (35%). Urban farming communities in Lagos show a significant interest and initial success in adopting smart agriculture technologies. Further research is recommended to explore long-term impacts. Investment in infrastructure for smart agriculture should be prioritised, alongside educational programmes on technology usage among urban farmers. urban farming, Lagos, smart agriculture, adoption rates, performance outcomes

Keywords: *Sub-Saharan, GIS, Participatory Monitoring, Community-Based, Participatory Evaluation, Precision Agriculture, Farmer Knowledge Assessment*

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