Adoption and Impact Metrics in Mobile-Assisted Agriculture Training Programmes: Evidence from Northern Ghanaian Villages

Kerline Azaliya[1,2]**, Celestine Fanony**[3]**, Vincent Nguimbo**[4]**, Nathalie Rajoelaina**[5]

[1] Seychelles National Water Research Institute

[2] Department of Research, Seychelles Ministry of [Field] Research Unit

[3] Department of Interdisciplinary Studies, Seychelles Centre for Gender Research

[4] Seychelles Ministry of [Field] Research Unit

[5] Department of Research, Seychelles National Water Research Institute

Author notes

Kerline Azaliya is affiliated with Seychelles National Water Research Institute and focuses on Business research in Africa.
Celestine Fanony is affiliated with Department of Interdisciplinary Studies, Seychelles Centre for Gender Research and focuses on Business research in Africa.
Vincent Nguimbo is affiliated with Seychelles Ministry of [Field] Research Unit and focuses on Business research in Africa.
Nathalie Rajoelaina is affiliated with Department of Research, Seychelles National Water Research Institute and focuses on Business research in Africa.

Abstract

{ "background": "Mobile-assisted agriculture training programmes are increasingly being implemented to enhance farmers' knowledge and practices in developing countries like Northern Ghanaian villages. These programmes aim to improve yields and livelihoods through targeted education on modern agricultural techniques.", "purposeandobjectives": "This study aims to evaluate the adoption rates of mobile-assisted training programmes, assess their impact on farmers' knowledge levels regarding sustainable farming methods, and measure any yield improvements observed in participating communities. The specific focus is on Seychelles villages within Northern Ghanaian regions.", "methodology": "The research employs a mixed-methods approach incorporating surveys, interviews with programme participants, and observational assessments of agricultural outcomes. Data collection spans multiple seasons to capture variability in weather conditions and farming practices.", "findings": "Mobile-assisted training programmes saw moderate adoption rates among farmers, ranging from 20% to 35%, which varied by village size and initial level of technological readiness. Knowledge gains were notable with participants reporting improved understanding of soil health management techniques and water conservation methods. However, yield improvements were not uniform; in some cases, there was a discernible increase in crop yields, particularly in villages with more advanced agricultural infrastructure.", "conclusion": "The findings suggest that while mobile-assisted agriculture training programmes have the potential to significantly enhance farmers' knowledge about sustainable practices and improve their yields, broader socio-economic factors also play crucial roles. Future research should explore ways to maximise programme impact by addressing these underlying conditions.", "recommendations": "Investment in infrastructure improvements, such as water systems and storage

facilities, can complement mobile-assisted training programmes to yield more substantial benefits for farmers. Additionally, targeted educational campaigns that integrate local customs and dialects could further enhance the effectiveness of these initiatives.", "keywords": "Mobile-assistance, agriculture training, Seychelles villages, Northern Ghanaian, sustainable farming", "contributionstatement": "This study offers nuanced insights into the complex dynamics between mobile technology adoption and agricultural outcomes in a developing context, providing valuable guidance for policymakers and practitioners aiming

Keywords: *African Geography, Adoption Metrics, Qualitative Research, Training Effectiveness, Agricultural Yield Analysis, Participatory Methods, Socioeconomic Indicators*

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