African Animal Welfare Studies (Agri/Animal Science)

Mobile Technology in Agricultural Extension Services: A Replication Study in Burkina Faso 2006

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Abstract

Mobile technology has been increasingly used for agricultural extension services in various contexts to enhance farmers' knowledge and practices. The study employed a mixed-methods approach including surveys, focus group discussions, and data triangulation from agricultural extension records. A total of 150 randomly selected farmers were surveyed. Survey results showed that mobile technology significantly improved crop yields by 20% (95% CI: [13%, 27%]) compared to non-users, with a notable increase in income reported by 18% (CI: [10%, 26%]). Mobile technology proved effective in facilitating knowledge dissemination and enhancing agricultural productivity among Burkina Faso's smallholder farmers. Further replication studies should be conducted to validate these findings across different regions and contexts, with a focus on scalability and sustainability of mobile extension services. mobile technology, agricultural extension, crop productivity, income enhancement, Burkina Faso The empirical specification follows $Y = \beta_{0+\beta}^{\rightarrow} p\, X + varepsilon$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African Agriculture, Mobile Communication, Extension Services, Participatory Action Research, Geographic Information Systems (GIS), Precision Agriculture, Community-Led Initiatives*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

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