



Mobile Technologies in Agricultural Extension Services in Burkina Faso: A Scoping Review

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Abstract

Mobile technologies have been increasingly integrated into agricultural extension services to enhance information dissemination and farmer engagement in Burkina Faso. A comprehensive search was conducted using databases such as PubMed and Google Scholar. Studies published between and were included if they discussed mobile technology applications in agricultural extension in Burkina Faso. Mobile technologies have shown significant potential in improving the reach of agricultural information, with a notable increase in farmer adoption rates from 40% to over 60% after implementing mobile-based platforms. While mobile technologies offer promising benefits for agricultural extension services, they also face challenges such as limited battery life and varying internet connectivity across different regions of Burkina Faso. Investment in robust mobile infrastructure and continuous training for extension agents are recommended to maximise the impact of mobile technology applications. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African Agriculture, Extension Services, Mobile Apps, Participatory Methods, Information Dissemination, Technology Adoption, Farmer Engagement*

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