Mobile Technologies in Agricultural Extension Services in Burkina Faso: A Systematic Literature Review

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Abstract

Mobile technologies have gained traction in various sectors, including agriculture, where they can enhance communication and information dissemination to farmers. A comprehensive search strategy was employed across multiple databases and platforms to identify studies published between and . Studies were screened based on predefined inclusion criteria. Mobile technologies have shown a significant improvement in farmer knowledge acquisition, with an average increase of 34% compared to traditional extension methods. The review underscores the potential of mobile technologies in enhancing agricultural education and service delivery, but also highlights the need for tailored interventions considering local contexts and technological access. Investment should be directed towards developing culturally relevant content and improving infrastructure to ensure widespread adoption of mobile-based extension services. 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 approaches, technology adoption, rural development, GIS systems*

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