



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

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## Abstract

Mobile technologies have gained significant traction in various sectors, including agriculture, where they can enhance communication between farmers and extension services. The review process included a comprehensive search strategy using databases such as PubMed and Google Scholar. Studies were assessed based on inclusion criteria related to the use of mobile technology in agricultural extension. Mobile technologies have been deployed with varying success rates; for instance, an intervention achieved a 60% adoption rate among farmers who received training on using apps for crop management. The review underscores the potential of mobile technologies to improve agricultural productivity and farmer education in Burkina Faso. However, challenges such as cost and digital literacy need addressing. Investment should be directed towards developing user-friendly mobile applications that cater specifically to Burkinabé farmers' needs and contexts. The empirical specification follows  $Y = \beta_{0+\beta} p X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *African, Mobile, Technology, Extension, Communication, Participatory, Impact*

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