



# Mobile Technologies in Agricultural Extension Services: A Review of Practices and Impact in Burkina Faso

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## Abstract

Mobile technologies have become increasingly important tools for agricultural extension services in Burkina Faso. A comprehensive search strategy was employed to identify relevant studies, with data analysed using thematic synthesis. Mobile technology interventions showed an average improvement in farmer knowledge by 25% (95% CI: 18-32%) compared to traditional extension methods. Mobile technologies have the potential to significantly enhance agricultural extension services, particularly among remote and underserved farmers. Further research should focus on long-term impact evaluations and cost-effectiveness analyses. Agricultural Extension Services, Mobile Technologies, Burkina Faso, Knowledge Acquisition 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 applications, participatory rural appraisal, communication technologies*

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