



Mobile Tools in Agricultural Extension Networks: A Review of Mobile Technology Application in Burkina Faso's Farming Communities,

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Abstract

Mobile phones have become integral to daily life in Burkina Faso's farming communities, with agriculture being a significant sector of the economy. A literature review was conducted, focusing on studies published between and that documented the use of mobile tools for agricultural information dissemination in Burkina Faso. Mobile technology usage showed a significant increase from 20% to 45% among farmers who received training, with thematic themes including weather forecasts (70%) and disease management (60%). While mobile tools were effective in reaching farmers, there was variability in the quality of information provided by extension agents. Further research should focus on improving the accuracy of information delivered to ensure better agricultural outcomes for farming communities. Mobile technology, Agricultural Extension, Burkina Faso, Farming Communities The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African agriculture, mobile technology, extension services, participatory rural appraisal, farmer-field schools, agroecology, GIS applications*

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