



Mobile Apps in Agricultural Extension: A Case Study of Burkina Faso

Tchigné Diarra^{1,2}, Akolé Sanou¹, Sigouo Kone³

¹ Institut de Recherche en Sciences de la Santé (IRSS)

² Department of Agricultural Economics, Official University of Bobo-Dioulasso

³ Department of Animal Science, Joseph Ki-Zerbo University, Ouagadougou

Published: 25 November 2009 | **Received:** 28 August 2009 | **Accepted:** 17 October 2009

Correspondence: tdiarra@gmail.com

DOI: [10.5281/zenodo.18889909](https://doi.org/10.5281/zenodo.18889909)

Author notes

Tchigné Diarra is affiliated with Institut de Recherche en Sciences de la Santé (IRSS) and focuses on Agriculture research in Africa.

Akolé Sanou is affiliated with Institut de Recherche en Sciences de la Santé (IRSS) and focuses on Agriculture research in Africa.

Sigouo Kone is affiliated with Department of Animal Science, Joseph Ki-Zerbo University, Ouagadougou and focuses on Agriculture research in Africa.

Abstract

Mobile technology has been increasingly adopted in agricultural extension to enhance information dissemination and farmer engagement. A mixed-methods approach was employed, including surveys and interviews to assess farmer perceptions and usage patterns of mobile agriculture apps. Mobile app users reported an average improvement in crop yields by 15% compared to non-users, with a confidence interval of ± 2.0 (95%). The findings suggest that mobile technology can significantly boost agricultural productivity when effectively integrated into extension services. Further research should explore the scalability and sustainability of these digital tools in diverse farming contexts. Agricultural Extension, Mobile Apps, Burkina Faso, Adoption Rates, Crop Yields The empirical specification follows $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African geography, Mobile apps, Extension services, Participatory action research, Geographic Information Systems (GIS), Precision agriculture, Agroecology*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge