



# Development and Adoption Dynamics of Digital Agricultural Extension Services in Southern Mozambique: A Longitudinal Study

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### Abstract

Digital agricultural extension services have emerged as a promising tool for enhancing productivity and sustainability in rural communities of Southern Mozambique. A mixed-methods approach combining quantitative surveys (

$n = 500$ ) and qualitative interviews was employed to assess service usage patterns and perceptions over a two-year period.

Users reported an average adoption rate of 42%, with higher satisfaction levels among those who used the services frequently. A logistic regression model estimated that farmers using digital platforms for more than six months had a 1.5 times greater likelihood of reporting high satisfaction (95% CI: [1.1, 2.0]). Digital agricultural extension services show promise in improving farmer productivity and engagement with agribusiness innovations. Further research should explore the scalability of digital platforms and their impact on smallholder farmers' income levels.

**Keywords:** African Development, Rural Adoption, Extension Services, Technological Adoption, Participatory Methods, Sustainable Practices, Geographic Information Systems

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