



Innovation Adoption Strategies by Smallholder Farmers in Mozambique's Drylands for Weather Forecast-Based Agriculture Decisions, Context Analysis

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Abstract

The study examines innovation adoption strategies by smallholder farmers in Mozambique's drylands for making weather forecast-based agriculture decisions. The study employs a comparative analysis approach with case studies from three different districts in Mozambique's drylands. Data collection includes surveys, interviews, and focus group discussions among smallholder farmers. Farmers showed significant interest in CIS for weather forecasts, with over 70% of respondents indicating improved crop yields due to better decision-making based on forecast information. The findings suggest that tailored climate information services are highly effective in improving agricultural productivity among smallholder farmers in Mozambique's drylands. Public and private sector stakeholders should prioritise the development and dissemination of CIS tailored for smallholders, particularly in the context of climate change adaptation strategies.

Keywords: *Drylands, Smallholder Agriculture, Weather Forecasting, Innovation Adoption Models, Farmer Decision-Making, Comparative Analysis, Geographic Information Systems (GIS)*

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