Adoption and Impacts of Mobile Agriculture Apps on Food Security in Ethiopian Villages,

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Abstract

Mobile agriculture apps have gained attention as a tool for enhancing food security in rural areas of Ethiopia. Qualitative data were collected through interviews and focus group discussions conducted in six randomly selected villages across Ethiopia's agricultural regions. The study employed thematic analysis to interpret the qualitative data. Mobile agriculture apps have been adopted by nearly two-thirds of the surveyed villagers, with a notable increase in farmers' knowledge about crop diseases and improved harvest yields reported. The findings suggest that mobile agriculture apps can significantly contribute to food security when effectively integrated into local agricultural practices. Future research should explore the long-term sustainability of these tools and potential policy interventions to ensure widespread adoption and impact.

Keywords: *African geography, mobile technology, participatory action research, rural development, food security, community engagement, indigenous knowledge systems*

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