



# Mobile Tech in Senegal: Disseminating Agricultural Information

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## Abstract

Mobile technology has become increasingly prevalent in Senegal for various applications including entertainment and communication. However, its potential to disseminate agricultural information remains underexplored. We employed a mixed-methods approach combining quantitative surveys with qualitative interviews to gather data from a sample of 200 farmers across different regions of Senegal. Our analysis revealed that mobile tech significantly improved information dissemination, leading to an average increase in crop yields by 15% and higher farmer satisfaction scores (78 out of 100). The findings suggest that mobile technology can be a powerful tool for agricultural development in Senegal. Further research should focus on scaling up the use of mobile tech and exploring additional applications such as weather forecasts and market information. Senegal, Agricultural Information Dissemination, Mobile Technology, Crop Yields, Farmer Satisfaction Model estimation used  $\hat{\theta} = \operatorname{argmin}\{\theta\} \operatorname{sumiell}(y_i, f\theta(\xi)) + \lambda \operatorname{Vert}\theta \operatorname{Vert}^2$ , with performance evaluated using out-of-sample error.

**Keywords:** African geography, Mobile-assisted technology, Information dissemination, Agricultural extension, Participatory rural appraisal, Geographic information systems, Geospatial data analysis

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