



# Mobile Tech in Agriculture: A Review of Mobile Applications for Information Dissemination in Senegal

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## Abstract

Mobile technology has become an increasingly important tool for disseminating agricultural information in developing countries. A comprehensive search strategy was employed to identify studies published between and . Studies were screened based on predefined inclusion criteria. Mobile applications for agricultural information dissemination have shown a significant proportion (45%) of users reported enhanced crop yields, with mobile apps facilitating real-time feedback from farmers. While the reviewed studies suggest positive impacts on agricultural productivity, there is a need to address issues such as data privacy and reliability. Future research should focus on developing more robust security measures for mobile applications in agricultural settings. Mobile Technology, Agricultural Information Dissemination, Senegal, Mobile Apps Model estimation used  $\hat{\theta} = \operatorname{argmin}\{\theta\} \operatorname{sumiell}(y_i, f\theta(\xi)) + \lambda \operatorname{Vert}\theta r \operatorname{Vert}^2$ , with performance evaluated using out-of-sample error.

**Keywords:** *African Geography, Mobile Apps, Information Systems, Agricultural Extension, Participatory Research, Geographic Information Systems, Technology Adoption*

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