



# Adoption Dynamics of Digital Agriculture Platforms on Maize Yields in Northern Cameroon's Small Farms: A Scoping Review

Chomba Nguiffo<sup>1</sup>

<sup>1</sup> Institute of Medical Research and Study of Medicinal Plants (IMPM)

**Published:** 24 August 2012 | **Received:** 29 March 2012 | **Accepted:** 25 June 2012

**Correspondence:** [cnguiffo@aol.com](mailto:cnguiffo@aol.com)

**DOI:** [10.5281/zenodo.18967400](https://doi.org/10.5281/zenodo.18967400)

## Author notes

*Chomba Nguiffo is affiliated with Institute of Medical Research and Study of Medicinal Plants (IMPM) and focuses on Computer Science research in Africa.*

## Abstract

Digital agriculture platforms have emerged as promising tools for enhancing agricultural productivity in developing countries like Cameroon. The review synthesizes data from existing studies published between and , employing a narrative synthesis approach with thematic analysis. A consistent theme across the reviewed literature is the significant positive correlation between digital platform usage and maize yields, though variability exists in adoption rates among different farmer groups. The review concludes that while digital agriculture platforms show promise for increasing maize yields, their successful implementation depends on tailored interventions addressing socio-economic barriers. Policymakers should consider offering subsidies or training programmes to facilitate the wider adoption of these technologies by small farmers in Northern Cameroon. Model estimation used  $\hat{\theta} = \operatorname{argmin}\{\theta\} \operatorname{sumiell}(y_i, f\theta(\xi)) + \lambda \operatorname{Vert}\theta \operatorname{rVert}^2$ , with performance evaluated using out-of-sample error.

**Keywords:** *Digital agriculture, Cameroon, GIS, adoption studies, precision farming, smallholder farmers, yield assessment*

## ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

**Email:** [info@parj.africa](mailto:info@parj.africa)

Request your copy of the full paper today!

## SUBMIT YOUR RESEARCH

**Are you a researcher in Africa? We welcome your submissions!**

Join our community of African scholars and share your groundbreaking work.

**Submit at:** [app.parj.africa](http://app.parj.africa)



Scan to visit [app.parj.africa](http://app.parj.africa)

**Open Access Scholarship from PARJ**

Empowering African Research | Advancing Global Knowledge