



# Technological Adoption Among Smallholder Farmers in Congo's Gold Mining Districts: A Precision Agriculture Study

Kamila Mwamba<sup>1</sup>

<sup>1</sup> Université Catholique du Congo

**Published:** 19 April 2009 | **Received:** 05 December 2008 | **Accepted:** 17 March 2009

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

**DOI:** [10.5281/zenodo.18898805](https://doi.org/10.5281/zenodo.18898805)

## Author notes

*Kamila Mwamba is affiliated with Université Catholique du Congo and focuses on Business research in Africa.*

## Abstract

Precision agriculture techniques are increasingly being adopted by smallholder farmers to enhance productivity in resource-limited settings. A qualitative research approach was employed, involving semi-structured interviews with 30 smallholder farmers. Data collection occurred over a period of six months. Farmers showed moderate interest and usage in precision agriculture tools such as GPS-guided tractors and soil moisture sensors, with about half of the respondents indicating willingness to adopt new technologies. The findings suggest that while there is potential for increased adoption, barriers related to cost and technical literacy need addressing. Investment in training programmes and affordable technology solutions should be prioritised to facilitate wider technological uptake among smallholder farmers. Precision Agriculture, Smallholder Farmers, Technology Adoption, Gold Mining Districts, Democratic Republic of Congo

**Keywords:** *Congo, Geographical Focus, Smallholder Agriculture, Qualitative Research, Precision Farming, Technological Change, Field Study*

## 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