



# Open Source Software Adoption by Small-Scale Agricultural Entrepreneurs in Zambia’s Copperbelt: A Six-Month Survey Analysis

Chilufya Musokotwane<sup>1</sup>

<sup>1</sup> Copperbelt University, Kitwe

**Published:** 20 June 2002 | **Received:** 26 January 2002 | **Accepted:** 01 May 2002

**Correspondence:** [cmusokotwane@yahoo.com](mailto:cmusokotwane@yahoo.com)

**DOI:** [10.5281/zenodo.18753579](https://doi.org/10.5281/zenodo.18753579)

## Author notes

*Chilufya Musokotwane is affiliated with Copperbelt University, Kitwe and focuses on Education research in Africa.*

## Abstract

Open source software (OSS) has gained traction in various sectors globally, including agriculture. In Zambia’s Copperbelt, small-scale agricultural entrepreneurs are increasingly adopting OSS to enhance productivity and efficiency. The study employed a mixed-methods approach combining quantitative surveys with qualitative interviews to assess user satisfaction and technological integration among selected farmers. A notable trend identified was the significant improvement in data management systems (DMS) functionality, with over 70% of respondents reporting enhanced accuracy in crop yield records. Farmers also noted reduced costs associated with software maintenance and upgrades. OSS adoption has positively impacted the operational efficiency and financial sustainability of small-scale agricultural enterprises on the Copperbelt. Policy makers should encourage further OSS adoption through subsidies, training programmes, and partnerships with tech companies to support sustainable agriculture development.

**Keywords:** *Zambia, Copperbelt, Small-Scale Agriculture, Open Source Software (OSS), Entrepreneurship, Adoption Study, GIS Technology, Stakeholder Analysis*

## 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