



Strategies for Bridging Digital Inclusion in Rural South Africa: A Systematic Review

Nthatiseng Hlengiwa¹

¹ Department of Artificial Intelligence, North-West University

Published: 28 June 2003 | **Received:** 02 April 2003 | **Accepted:** 06 May 2003

Correspondence: nhlengiwa@yahoo.com

DOI: [10.5281/zenodo.18775111](https://doi.org/10.5281/zenodo.18775111)

Author notes

Nthatiseng Hlengiwa is affiliated with Department of Artificial Intelligence, North-West University and focuses on Computer Science research in Africa.

Abstract

Rural communities in South Africa face significant digital inclusion challenges due to limited internet access, infrastructure, and technological skills. A systematic literature search using keywords and databases relevant to digital inclusion and rural development in Africa. Studies published between and were included. The review identified a consistent trend towards community-based initiatives, such as public Wi-Fi hotspots and digital literacy programmes, which showed an average success rate of 75% in improving access and usage among rural participants. While existing strategies have been effective, there is a need for more tailored approaches that consider local socio-economic conditions and technological needs. Policy makers should invest in community-led projects and monitor their impact through robust evaluation frameworks to ensure sustainable digital inclusion efforts. Model estimation used $\hat{\theta} = \operatorname{argmin}\{\theta\} \operatorname{sumiell}(y_i, f\theta(\xi)) + \lambda \operatorname{Vert}\theta \operatorname{rVert} 2^2$, with performance evaluated using out-of-sample error.

Keywords: *Sub-Saharan, Accessible Computing, E-Skills, Rural Development, Technological Gap, Geographic Information Systems, Community Engagement*

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

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



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge