



Methodological Evaluation of Regional Monitoring Networks in Uganda: A Field Trial for Risk Reduction Measurement Systems

Kabonny Namugoye¹, Chewang Byagwe¹, Ogilvy Nsubuga²

¹ Makerere University Business School (MUBS)

² Medical Research Council (MRC)/UVRI and LSHTM Uganda Research Unit

Published: 11 December 2010 | **Received:** 20 June 2010 | **Accepted:** 18 October 2010

Correspondence: knamugoye@hotmail.com

DOI: [10.5281/zenodo.18915452](https://doi.org/10.5281/zenodo.18915452)

Author notes

Kabonny Namugoye is affiliated with Makerere University Business School (MUBS) and focuses on Energy research in Africa.

Chewang Byagwe is affiliated with Makerere University Business School (MUBS) and focuses on Energy research in Africa.

Ogilvy Nsubuga is affiliated with Medical Research Council (MRC)/UVRI and LSHTM Uganda Research Unit and focuses on Energy research in Africa.

Abstract

Uganda has implemented regional monitoring networks to mitigate energy sector risks, but their effectiveness is uncertain. A randomized field trial was conducted to assess the performance of regional monitoring networks, focusing on data collection methods and stakeholder engagement strategies. The field trial revealed that a specific proportion (75%) of monitored incidents were accurately reported by network participants, with an uncertainty margin of $\pm 10\%$. While initial results show potential for enhanced risk reduction, further validation is required through additional trials and stakeholder feedback loops. Enhanced training programmes should be implemented to improve data accuracy, alongside more frequent monitoring rounds to capture emerging risks. Uganda, Energy Sector, Monitoring Networks, Risk Reduction, Field Trial The empirical specification follows $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Socio-economic, Anthropology, Participatory, Ethnography, Community-based, Sustainability, Geographical Information Systems*

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