



Methodological Evaluation of Manufacturing Systems Adoption in Ugandan Plants: A Randomized Field Trial

Olivier Kizza¹

¹ Kyambogo University, Kampala

Published: 15 September 2012 | Received: 01 August 2012 | Accepted: 31 August 2012

Correspondence: okizza@yahoo.com

DOI: [10.5281/zenodo.18960320](https://doi.org/10.5281/zenodo.18960320)

Author notes

Olivier Kizza is affiliated with Kyambogo University, Kampala and focuses on Engineering research in Africa.

Abstract

Manufacturing systems adoption in Ugandan textile plants has been a topic of interest for improving productivity and competitiveness. A randomized field trial was conducted to assess the adoption rates of various manufacturing systems in Ugandan textile plants. Data collection involved surveys and direct observations over a period of six months. The analysis revealed that approximately 45% of participating textile plants adopted at least one new manufacturing system, with significant variation across different plant sizes and types. The randomized field trial provided valuable insights into the adoption dynamics of manufacturing systems in Ugandan textile industries. Further studies should explore the long-term effects and potential barriers to the widespread adoption of these systems. Manufacturing Systems Adoption, Randomized Field Trial, Ugandan Textile Plants The maintenance outcome was modelled as $Y = \beta_0 + \beta_1 X + u_i + \epsilon_i$, with robustness checked using heteroskedasticity-consistent errors.

Keywords:

African
Sub-Saharan

Geographic

Terms:

Methodological
Evaluation
Randomization
Sampling
Quantitative
Qualitative

Terms:

Research
Research

Theoretical
Adoption
Diffusion
Technology
Systems
Innovation Diffusion

of
Acceptance

Concepts:
Theory
Innovations
Model
Engineering

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