



Methodological Assessment of Manufacturing Systems Adoption in Nigerian Plants Using Quasi-Experimental Design,

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Abstract

Manufacturing systems adoption in Nigerian plants has been a topic of interest for assessing productivity improvements. The review employs rigorous methodology including systematic searching and selection processes from academic databases. Studies are critically analysed for their use of quasi-experimental design in measuring adoption rates across various sectors. A notable finding is the predominance of within-industry comparisons over cross-sectional studies, indicating a preference for local context-specific evaluations. The review underscores the importance of rigorous methodological approaches to ensure valid conclusions regarding manufacturing system adoptions in Nigerian contexts. Future research should expand on longitudinal quasi-experimental designs to provide more comprehensive insights into long-term adoption impacts. manufacturing systems, adoption rates, quasi-experimental design, Nigeria Model estimation used $\hat{\theta} = \underset{\theta}{\operatorname{argmin}} \{ \sum_{i=1}^n (y_i - f(\theta(\xi)))^2 + \lambda \|\theta\|_2^2 \}$, with performance evaluated using out-of-sample error.

Keywords: *Sub-Saharan, African, econometric, intervention, diffusion, replication, qualitative*

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