



Methodological Evaluation of Manufacturing Plants Systems in Uganda Using Difference-in-Differences Models to Measure Efficiency Gains

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Abstract

Manufacturing plants in Uganda are pivotal to economic growth but face challenges related to inefficiency. A meta-analysis approach was employed, synthesizing data from multiple studies on Ugandan manufacturing efficiency. The difference-in-differences model revealed an average improvement of 15% in plant efficiency across analysed sectors, with significant variation between industries. This study underscores the potential for targeted interventions to enhance overall manufacturing efficiency in Uganda. Policy makers should prioritise sector-specific support programmes based on findings from this analysis. Manufacturing Efficiency, Difference-in-Differences Model, Ugandan Manufacturing Industries The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Pan-African, meta-analysis, difference-in-differences, productivity, econometrics, sustainable development, intervention studies*

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