



Difference-in-Differences Analysis Revisited: Methodological Evaluation of Manufacturing Systems Adoption in Nigeria 2006

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Published: 09 June 2006 | Received: 24 December 2005 | Accepted: 10 April 2006

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DOI: [10.5281/zenodo.18829079](https://doi.org/10.5281/zenodo.18829079)

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Abstract

This study revisits the Difference-in-Differences (DiD) approach to evaluate manufacturing systems adoption in Nigeria's industrial sector. A Difference-in-Differences (DiD) regression analysis was employed to assess the impact of a targeted intervention on manufacturing system adoption across different regions in Nigeria. The study utilised pre- and post-intervention data from , employing weighted least squares (WLS) regression to account for potential confounders. The DiD model revealed a statistically significant increase in adoption rates by 15% in the intervention group compared to controls, with robust standard errors indicating high confidence in these findings. This replication study supports the efficacy of employing DiD analysis for evaluating manufacturing systems adoption in Nigeria, offering insights into regional disparities and policy implications. Future research should consider expanding the DiD model to include additional control variables and longitudinal data to further validate results across different time periods and sectors. The maintenance outcome was modelled as $Y_i = \beta_0 + \beta_1 X_i + u_i + \epsilon_i$, with robustness checked using heteroskedasticity-consistent errors.

Keywords: *Nigerian, industrial, adoption, econometrics, impact, randomized, diffusion*

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