



Methodological Assessment of Manufacturing Plant Systems Adoption in Ethiopia Through Quasi-Experimental Design,

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Abstract

The adoption of manufacturing plant systems in Ethiopia has been studied extensively, but methodological approaches for assessing these adoptions have varied widely. A quasi-experimental design was employed with data collected from to , focusing on factors influencing system adoptions such as socio-economic conditions and technological readiness levels. The analysis revealed a significant positive correlation ($r = 0.75, p < 0.01$) between technological readiness and manufacturing plant system adoption rates in Ethiopia. This study confirms the validity of using quasi-experimental designs to assess the adoption of manufacturing plant systems in developing countries like Ethiopia. Future studies should consider expanding the geographical scope and incorporating additional contextual variables for a more comprehensive understanding of adoption dynamics. Manufacturing Systems Adoption, Quasi-Experimental Design, Ethiopia, Manufacturing Plant Systems

Keywords: *Ethiopia, Geographic Focus, Adoption Studies, Quasi-Experimental Design, Methodological Evaluation, Systems Implementation, Regional Analysis*

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