



Efficiency Assessment of Food Supply Chains in Burundi's School Meals Programmes: A Replication Study

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Abstract

Burundi's school meals programme aims to enhance nutrition security among students, necessitating an efficient food supply chain. A replication study using statistical methods, including regression analysis to assess supply chain performance indices (SPIs), with data from a representative sample of schools across the country. The SPIs showed an average efficiency score of 75%, indicating room for improvement in supply chain operations. Efficiency improvements could lead to better nutritional outcomes and cost savings, warranting further investigation into specific supply chain inefficiencies. Targeted interventions should focus on enhancing storage facilities and procurement processes to improve SPI scores. The empirical specification follows $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: African, Burundi, Food Security, Supply Chain, Logistics, Efficiency, Nutrition

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