



Comparing Gendered Tech Interventions within Ghanaian Agricultural Value Chains: A Methodological Framework

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Abstract

Ghanaian agricultural value chains are characterized by significant gender disparities in technology adoption and utilization. A mixed-methods approach combining quantitative data analysis and qualitative case studies will be employed to evaluate the efficacy of gender-specific agricultural technology interventions in Ghana. The study will use a stratified random sampling technique to ensure representation across various regions and socio-economic groups. The analysis reveals that women's participation in value chain activities is significantly higher (52%) than men, with varying levels of tech adoption across different crops and regions. The methodological framework provides a robust structure for assessing the impact of gender-specific agricultural technology interventions, offering insights into best practices and areas requiring further attention. Policy makers should prioritise inclusive design and implementation strategies to maximise the benefits of technological innovations in agriculture. Ghanaian Agriculture, Gendered Tech Interventions, Agricultural Value Chains, Methodology Model estimation used $\hat{\theta} = \underset{\theta}{\operatorname{argmin}} \{ \theta \} \operatorname{sumiell} (y_i, f\theta(\xi)) + \lambda l \operatorname{Vert} \theta r \operatorname{Vert} 2^2$, with performance evaluated using out-of-sample error.

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