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Supply Chain Resilience in Climate Shocks of Agricultural Supply Chains in Chad: A Mixed-Methods Approach

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Abstract

Agricultural supply chains in Chad are particularly vulnerable to climate shocks such as droughts and floods, which can severely impact production and market stability. This study employs a mixed-methods approach combining qualitative interviews with quantitative surveys to explore the effectiveness of various resilience measures implemented by farmers, traders, and government agencies. Findings indicate that while some farmers have adopted drought-resistant seeds and improved irrigation systems, there is a significant gap in financial support mechanisms for these innovations. The research concludes that integrated supply chain interventions including insurance schemes and microfinance products can significantly enhance resilience against climate shocks. Policy recommendations include the development of more comprehensive insurance policies covering agricultural risks and the expansion of microcredit programmes to facilitate access to finance for climate-resilient technologies. Agricultural Supply Chains, Climate Resilience, Mixed-Methods Study, Chad

Keywords: *African Geography, Climate Change Impact, Mixed Methods, Supply Chain Management, Resilience Theory, Sustainability Assessment, Vulnerability Analysis*

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