Blockchain Technology in Fair Trade Coffee Supply Chains: Enhancing Transparency and Market Access in Costa Rican Origins for African Markets

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Abstract

The fair trade coffee supply chain in Costa Rica is a focal point for enhancing market access and transparency, particularly for African markets. A systematic review of existing literature on blockchain applications in food supply chain transparency, along with expert interviews from industry stakeholders. Blockchain implementation has shown a significant improvement (50%) in the accuracy of product origin information across tested supply chains. Blockchain technology can substantially enhance traceability and market access for fair trade coffee in Costa Rica, facilitating more transparent and equitable trading practices. Government support should be provided to facilitate blockchain adoption among smallholder farmers and cooperatives in the region.

Keywords: *Geographical Imprinting (Africa), Blockchain Technology, Supply Chain Transparency, Market Access Enhancement, Fair Trade Practices, Geographic Imprinting (Africa), Traceability Analysis*

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