



Blockchain Technology in Farmer Networks: A Theoretical Framework for Value Addition in Zanzibar's Agricultural Sector

Kamenginina Tsemanga¹, Chamalina Nzoune^{2,3}

¹ Seychelles School of Arts and Social Sciences

² Department of Interdisciplinary Studies, Seychelles Centre for Environmental Management

³ Department of Advanced Studies, Seychelles School of Arts and Social Sciences

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Correspondence: ktsemanga@aol.com

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Author notes

Kamenginina Tsemanga is affiliated with Seychelles School of Arts and Social Sciences and focuses on Business research in Africa.

Chamalina Nzoune is affiliated with Department of Interdisciplinary Studies, Seychelles Centre for Environmental Management and focuses on Business research in Africa.

Abstract

Blockchain technology has gained traction in various sectors for enhancing transparency, security, and efficiency. In Zanzibar's agricultural sector, where smallholder farmers dominate, integrating blockchain can facilitate more equitable value addition processes. A mixed-methods approach will be utilised, combining qualitative interviews with quantitative data analysis to understand farmer perceptions and technological feasibility. By leveraging blockchain technology, Zanzibar's agricultural sector could significantly improve value addition processes, fostering greater inclusivity and sustainability among smallholder farmers. Policy makers should support research and pilot projects to validate the theoretical framework before full-scale implementation in farmer networks.

Keywords: *African Geography, Blockchain, Cryptography, Peer-to-Peer Networks, Supply Chain Management, Data Integrity, Network Security*

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