

Journal Name:	Asian Basic and Applied Research Journal
Manuscript Number:	Ms_ABAARJ_1793
Title of the Manuscript:	Blockchain Technology: Improving Agricultural Supply Chain Efficiency and Transparency – A Review Study
Type of the Article	A Review Study

PART 1: Comments

	Reviewer’s comment	Author’s Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	This manuscript offers a significant contribution to the scientific community by addressing persistent challenges in Sub-Saharan Africa's agricultural supply chains, such as inefficiency, lack of transparency, and traceability issues. By exploring the transformative potential of blockchain technology, the manuscript provides a comprehensive overview of how decentralized systems can enhance operational efficiency, foster trust among stakeholders, and empower smallholder farmers through fairer market access. It emphasizes the integration of blockchain with complementary technologies, such as IoT and smart contracts, to overcome logistical bottlenecks and reduce post-harvest losses. The study also sheds light on the socio-economic and technical barriers to adoption in the region, providing actionable insights and recommendations for policymakers and industry leaders. Importantly, it highlights the role of blockchain in promoting sustainable agricultural practices, addressing food safety concerns, and meeting international quality standards. This work is poised to guide future research and policy initiatives, ultimately advancing economic resilience and food security in the region.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title of the article, "Blockchain Technology: Improving Agricultural Supply Chain Efficiency and Transparency – A Review Study," is clear and effectively conveys the primary focus of the manuscript. However, it could be refined to make it more specific and impactful. Here is a suggested alternative: "Harnessing Blockchain Technology for Agricultural Supply Chains: Enhancing Efficiency, Transparency, and Sustainability in Sub-Saharan Africa"	

Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract of the article is comprehensive and provides a clear overview of the key themes and findings. It addresses the primary challenges in Sub-Saharan Africa's agricultural supply chains, the potential of blockchain technology to resolve these issues, and the barriers to adoption.	
Is the manuscript scientifically, correct? Please write here.	The manuscript is scientifically accurate and provides valuable insights into the use of blockchain technology in SSA's agricultural sector. It effectively balances the potential benefits and challenges of blockchain adoption. To enhance its scientific robustness, the authors could incorporate empirical data, critical comparisons with alternative technologies, and more detailed discussions on technical feasibility. If these areas are addressed, the manuscript would stand as a strong contribution to the academic and practical discourse on blockchain and agricultural supply chains.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The manuscript's references are sufficient, relevant, and recent, with most published between 2019 and 2024. This ensures the discussion is grounded in contemporary research and technological advancements. The references are diverse, including academic journals, industry insights, and international reports, enhancing credibility. They focus specifically on blockchain applications in agricultural supply chains and highlight the unique challenges in Sub-Saharan Africa, ensuring relevance to the study's context. However, the inclusion of comparative references addressing alternative technologies, such as AI or IoT, could enrich the analysis. Additionally, more case-specific and policy-oriented references would provide practical insights. Overall, the references are adequate, but incorporating studies on social impacts, policy frameworks, and multidisciplinary perspectives could further strengthen the manuscript.	

Is the language/English quality of the article suitable for scholarly communications?	<p>The language quality of the article is suitable for scholarly communication, with a formal tone, logical structure, and accurate use of technical terms. However, it could benefit from revisions to improve clarity and readability. Simplifying complex sentences, removing redundancies, and ensuring conciseness would enhance its overall quality. Minor grammatical adjustments and a focus on more impactful phrasing, particularly in the abstract and conclusion, would further elevate the manuscript to meet high academic publishing standards.</p>	
<u>Optional/General</u> comments	<p>The manuscript is insightful and well-structured, addressing critical challenges in Sub-Saharan Africa's agricultural supply chains through blockchain technology. While its academic quality is strong, minor improvements in language clarity, conciseness, and the inclusion of comparative technology analysis could further enhance its impact. Overall, it is a valuable and relevant contribution.</p> <p>The manuscript is a valuable contribution to the scholarly discourse on the use of blockchain technology in addressing challenges within Sub-Saharan Africa's (SSA) agricultural supply chains. It effectively highlights key issues, such as inefficiencies, lack of transparency, and limited traceability, and presents blockchain as a promising solution. The manuscript is comprehensive, with a logical structure and well-supported arguments. It incorporates recent and relevant references, ensuring the discussion is grounded in contemporary research and practical examples, such as Ethiopia's coffee traceability initiatives and Kenya's milk supply chain efforts.</p> <p>However, there is room for improvement. While the language is generally suitable for academic communication, certain sections could benefit from greater clarity and conciseness. Simplifying complex sentences, reducing redundancies, and addressing minor grammatical issues would enhance readability. Additionally, the manuscript could strengthen its analysis by incorporating comparative discussions of alternative or complementary technologies, such as AI and IoT, to provide a holistic perspective.</p> <p>The study's practical recommendations, including policy frameworks and infrastructure development, are valuable but could benefit from more empirical evidence or case-specific data. Overall, the manuscript is well-prepared and relevant, offering meaningful insights into blockchain's potential to transform SSA's agricultural sector while identifying key barriers and solutions.</p> <p>The manuscript is a well-researched and insightful contribution to the discourse on blockchain technology and its transformative potential in addressing inefficiencies in Sub-Saharan Africa's agricultural supply chains. It demonstrates a solid understanding of the challenges in the region, effectively highlights blockchain's benefits, and provides practical recommendations for</p>	

	<p>implementation. The integration of case studies and relevant literature strengthens the manuscript's relevance and applicability.</p> <p>While the manuscript is strong overall, minor revisions are recommended to enhance clarity, readability, and depth:</p> <p>Suggestions for Minor Revisions:</p> <ol style="list-style-type: none">Language and Clarity:<ul style="list-style-type: none">Simplify complex sentences and reduce redundancies for better readability.Address minor grammatical issues to ensure polished academic language.Abstract:<ul style="list-style-type: none">Enhance the abstract by adding specific examples or outcomes from blockchain applications to make it more engaging and impactful.Comparative Analysis:<ul style="list-style-type: none">Briefly compare blockchain with alternative technologies (e.g., AI, IoT) to provide a holistic perspective and contextualize its unique advantages.Ethical and Practical Considerations:<ul style="list-style-type: none">Address potential ethical issues, such as data privacy and equitable access, and include a brief discussion on mitigating unintended consequences of blockchain adoption.Competing Interests:<ul style="list-style-type: none">Add a formal declaration of competing interests, even if none exist, to maintain transparency and adhere to scholarly publishing standards. <p>Conclusion:</p> <p>With these minor revisions, the manuscript will meet high standards of scholarly communication and offer valuable insights to both academic and practical audiences. It is well-positioned for publication following these adjustments.</p>	
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PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Onyinye Obioha Val
Department, University & Country	University of District of Columbia, United States of America