

Abstract

The research investigates the transformative potential of block chain technology in international trade, focusing on its capacity to address existing inefficiencies, enhance transparency, and improve security within cross-border transactions. As global trade increasingly relies on digital platforms, block chain's decentralized ledger system offers a promising solution to streamline processes by reducing the need for intermediaries, minimizing fraud, and ensuring the integrity of trade data. By examining key applications of block chain, including smart contracts, digital currencies, and traceability mechanisms, this study explores how block chain could reshape the global trading ecosystem.

Utilizing a multi-method approach, this research combines qualitative case studies with quantitative data analysis to provide a comprehensive view of block chain's impact on international trade. The qualitative component involves interviews with industry experts, policymakers, and trade professionals, offering insights into real-world challenges and opportunities. The quantitative aspect incorporates statistical modeling to assess the potential cost reductions and efficiency improvements block chain can bring to global supply chains, logistics, and payment systems.

Ultimately, the findings aim to contribute to the understanding of block chain's role in revolutionizing international trade by offering actionable recommendations for businesses and policymakers. The research highlights not only the technological benefits but also the regulatory, ethical, and operational challenges that must be addressed for block chain to achieve widespread adoption in global trade networks.