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| Abstract |
| Supply chain control and sustainability can be significantly improved using distributed ledger technologies such as blockchain. The blockchain has the potential to facilitate responsible sourcing appropriately, compliance with weather requirements, and sustainable delivery chains. The purpose of this study is to address the hassle of managing conservatism when approaching era adoption and to explore the performance enhancements in blockchain-generated implementations. To achieve this goal, we introduce a scientific approach aimed at studying the outcomes of various factors in the adoption process in the blockchain era and verifying their impact on the overall performance of the delivery chain. Furthermore, a team of multidisciplinary professionals will establish causal relationships among these elements through a consensus-based approach. Ultimately, fuzzy reasoning tools can be used to determine the relative weights between identified factors and delivery chain performance goals. We will assemble causal representations of diagnoses using a dense scientific map model and dynamically generate scenarios for each. The study demonstrates that the integration of blockchain power generation can significantly improve the effectiveness of mineral supply chains. It uses smart contracts to promote environmental sustainability, traceability, and transparency. |
| Sustainable Development Goal(s) (SDG) |
| Responsible Consumption and Production |