

Blockchain Technology for Sustainable Supply Chain Management

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Abstract: *The supply chain is the network of stakeholders or individuals through which a product from the source is reached to the customer. There are different supply chains for different products. Agricultural supply is of them, perhaps the most complex and important one. The traditional supply chains are centralized and they depend on a third party for trading. These centralized systems lack transparency and accountability. The lack of transparency between the producer and consumer by means of food safety and security always lags. Food safety is an increasingly serious threat globally lack of a food security system would affect people's health and life directly or indirectly. The proposed solution focuses on recording interactions and transactions among all the participants involved within the Agri supply chain . All transactions are recorded and stored in the blockchain's immutable ledger with links to a decentralized file system , thus providing a high level of transparency and traceability into the supply chain ecosystem in a secure, trusted, reliable, and efficient manner. Now, the consumer can scan the QR code on the product and will get all the details about the product.*

Keywords: Agricultural supply chain, Blockchain, Information database, Resource wastages

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