

# AgroChain: Decentralised Supply Chain Management System

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**Abstract:** *The “AgroChain: Decentralized Supply Chain Management System” research project explores the concept of decentralized supply chains for agriculture and their potential to revolutionize the food distribution system. Decentralized supply chains for agriculture are transforming the way food is produced, distributed, and consumed. By leveraging blockchain technology, smart contracts, peer-to-peer networks, and farmer cooperatives, this innovative system promotes transparency, reduces waste, empowers smallholder farmers, and ensures a resilient and sustainable global food supply. The proposed solutions to challenges include implementing blockchain technology for transparency, enabling direct-to-consumer models for fairer prices, utilizing data analytics and IoT devices for efficiency, promoting sustainability practices, supporting farmer cooperatives and capacity building, and exploring privacy-enhancing technologies.*

**Keywords:** Decentralized supply chain, agriculture, blockchain, transparency