



Enhancing Fish Monitoring in Pakistan through Blockchain Technology

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Abstract

At present, blockchain has become a great innovation which provides real benefits to manage the fish flow chain. Make sure food safety is very important for every common person and the economy of every country. Historic methods for tracking the fish flow chain face numerous challenges such as slow processes and records through manual files and a lack of transparency. Accordingly, this research represents a framework that employs blockchain to build a genuine method for tracking fish food systems. Therefore, this research shows how blockchain innovation can enhance the safety quality and trust of customers in food systems. By integrating blockchain innovation with devices, we can monitor fishes in actual time along the productivity. This improves the quality of data, reduces the time and resources required for fish food tracking, and encourages Customers to interact with focus in their safety of sea food. The increasing global demand of fish products has led to unsupportable, resulting in illegal fishing and environmental harm. This research paper presents an adaptable approach to address these challenges and ensure the sustainability, traceability, and safety of fish flow chains. We propose an Ethereum blockchain using platform Remix ide, web 3 and dashboard to monitor the fish flow chain in truthful manner. This shows the appropriate solution for today's environment. In addition, we examine many challenges such as scalability and data privacy and suggest some approaches to solve these issues.

Keywords: Blockchain, Fish Flow chain, Fish Monitoring, Pakistani Fish

Blockchain-Based Crop Monitoring and Insurance for Climate Resilience

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Abstract

In an era of climate unstable, securing agricultural yields against unfavorable weather conditions is most important for global food security and economic stability. This research explores the potential of blockchain technology to protect the resilience of agricultural systems. Traditional methods of crop monitoring often suffer from inefficiencies and inaccuracies, prompting the need for innovative solutions. By controlling blockchain's unchangeable ledger, this research