

**EXPLORING THE ROLE OF BLOCK CHAIN
TECHNOLOGY IN GREEN INNOVATION AND
SUPPLY CHAIN RESILIENCE IN NUWARA
ELIYA DISTRICT.**

BY:

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ABSTRACT

This research investigates the role of Block chain in promoting green innovation and enhancing supply chain resilience within the Restaurants industry in the Nuwara Eliya District, Sri Lanka. With the growing global emphasis on environmental sustainability and operational agility, particularly in the tourism and hospitality sectors, the study aims to understand how block chain technology technologies especially blockchain can contribute to environmentally responsible practices and robust supply chain systems. Data were collected from a diverse group of Restaurants employees representing various roles within the sector.

Reliability testing confirmed strong consistency in the measurement instruments, and descriptive analysis demonstrated a high level of adoption of bloc chain technology, implementation of green innovation, and maintenance of resilient supply chains. The analysis revealed a strong and statistically significant relationship between block chain technology and both green innovation and supply chain resilience. These findings suggest that block chain technology tool such as blockchain enhance operational transparency, resource optimization, and decision-making, thereby enabling Restaurants to adopt eco-friendly practices and build flexible, responsive supply chains. The study concludes that the strategic integration of block chain technology into Restaurants operations not only supports environmental goals but also strengthens competitiveness by improving risk management and operational stability. Practical recommendations include investing in block chain technology infrastructure, enhancing staff capabilities through continuous training, forming partnerships with technology providers and environmental experts, and encouraging government support through policies and incentives that promote sustainable practices. Future studies could also explore the impact of advanced technologies like artificial intelligence and big data analytics in promoting sustainability and resilience. Ultimately, this research contributes to both academic literature and practical application by demonstrating how block chain technology technologies can drive green innovation and strengthen supply chain resilience within the hospitality industry.

Keywords: Block chain technology, Green innovation, Supply chain resilience, Blockchain Technology Integration Hospitality Industry Block chain technology Transformation Restaurants Industry.

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