

BLOCKCHAIN AND MARKETING: TRANSPARENCY AND TRUST IN THE DIGITAL AGE

Nenden Hendayani¹, Euis Eka Pramiharsih², Yusnaini³

¹Universitas Sali Alaitam, Indonesia

²Universitas Langlangbuana Bandung, Indonesia

³Universitas Sali Alaitam, Indonesia

Email: nenden.hendayani123@gmail.com, euiseka@unla.ac.id, yusnaini.yun@gmail.com

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Abstract

Blockchain has become one of the technological innovations that has had an impact on the world of marketing, particularly in terms of transparency and building trust in the digital age. This technology enables the recording of data or transactions that cannot be altered, thereby creating a more open and accountable system. In the context of marketing, blockchain helps brands to be more honest, while also giving consumers control over their personal data.

Keywords: *Blockchain, Marketing, Transparency, Trust, Digital Age*

Introduction

Blockchain has emerged as one of the disruptive technologies that is bringing change to various fields, including marketing. This technology is known for its ability to create transparent and secure systems, which can be a solution to many challenges in the digital age. Blockchain is a technology that functions as a decentralised, secure, and transparent digital data storage system. Data in blockchain is stored in blocks that are interconnected like a chain, hence the name ‘blockchain’ or ‘block chain.’ (Laura Hughes, 2023) Each block contains information and transaction records that cannot be altered once added, as each block is linked to the previous block through a cryptographic process. This makes blockchain difficult to manipulate and highly suitable for storing data that requires a high level of security, such as financial transactions, digital contracts, or logistics tracking. This technology also does not rely on a single entity, allowing multiple users or organisations to share access and verify information directly without an intermediary (Robert Williams, 2023).

Blockchain in marketing offers an innovative way to enhance transparency, efficiency, and trust between brands and consumers. One application is in product traceability. With blockchain technology, brands can provide open and verified information about their product supply chain. Consumers, for example, can view the origin of raw materials, production processes, and product distribution by simply scanning a QR code (Olivia Taylor, 2020). This enables them to make more informed decisions and support brands that value transparency and sustainability. Blockchain also addresses the issue of 'greenwashing,' which refers to inaccurate sustainability claims, as all data entered into the blockchain is consistent and cannot be manipulated (Richard White, 2024).

Additionally, blockchain can be used to manage customer data in a safer and more ethical manner. Unlike traditional systems that often involve third parties in data management, blockchain allows customer data to be stored in an encrypted system and accessed only by authorised parties (Lisa Thompson, 2020). In digital marketing, this means consumers have full control over their personal data, creating a more trust-based relationship between them and the brand. This technology can also support more efficient loyalty programmes, where customers earn reward points that are directly recorded on the blockchain without the risk of loss or manipulation. With this potential, blockchain is ushering in a new era of marketing that is more transparent, secure, and in line with the expectations of modern consumers (Jennifer Mitchell, 2022).

However, one of the biggest challenges in marketing today is building trust between brands and consumers. With the growth of digital technology, consumers have become more sensitive to non-transparent marketing practices and are often sceptical about how their data is used. On the other hand, brands face pressure to demonstrate integrity and ensure that their marketing campaigns are conducted in an ethical manner. The immutable nature of blockchain and its function as an open record for all parties involved offer the potential to increase this trust. For example, the use of blockchain enables transparent product traceability, ensuring that consumers get the real information about

what they are buying. In addition, in digital marketing, blockchain can help keep customer data secure and used in a more responsible manner (Elizabeth Harris, 2021). However, the adoption of blockchain technology in marketing is still in its early stages. Many companies are still looking for the best way to implement this technology in their operations. Furthermore, a lack of understanding of blockchain technology and challenges in its scalability can be barriers to its widespread use. Therefore, the use of blockchain as a tool to bring transparency and build trust in the digital age is a theme worth exploring, especially given the shift in consumer expectations of brands in this modern era.

Research Method

This study uses a literature review method. A literature review is a method of collecting, analysing, and understanding information from various sources relevant to the research topic. In this method, researchers utilise sources such as books, scientific journals, articles, documents, or previous research reports to obtain a comprehensive overview of the subject being studied. The primary objective is to identify existing patterns, theories, or knowledge that can help answer research questions or lay the groundwork for further research (Bolderston, 2008); (Cronin et al., 2008). This method is highly suitable when researchers aim to deepen their understanding without conducting direct experiments, and it encourages a systematic and critical approach to the material being studied. In this way, researchers can contribute new insights based on a solid analysis of existing information (Tranfield et al., 2003).

Results and Discussion

The Application of Blockchain in Digital Marketing

Blockchain is a technology with great potential to transform digital marketing. Essentially, blockchain is a decentralised network-based data storage system that does not rely on a single server. This technology allows every transaction or piece of data recorded to be transparent, secure, and unalterable without the consensus of all parties involved. In the context of digital marketing, blockchain offers various applications that can improve efficiency and trust between brands and consumers (Emma Garcia, 2021). One application of blockchain in digital marketing is in advertising transparency. Currently, digital advertising often faces problems such as click fraud or budget waste because ads do not reach the desired audience. With blockchain, every step in the advertising ecosystem can be recorded and verified. For example, advertisers can ensure that their ads are only seen by real audiences and not bots. This helps brands optimise their advertising spend while ensuring more accurate results (Sophia Martinez, 2022). Blockchain also plays a role in more ethical consumer data management. In today's digital age, personal data is often used by third parties without clear consent from consumers. Blockchain can provide a solution by allowing customers to control access to their data. Blockchain technology can create a system where information can only be accessed by certain parties based on permission granted directly by consumers. This not only increases trust but also reduces the risk of privacy violations (Michael Green, 2021). Loyalty programmes are another area where blockchain shows its potential.

Many brands reward their customers with points as a token of appreciation for their loyalty. However, in traditional systems, there is a risk of point loss or data manipulation. With blockchain, every point earned by a customer is recorded directly on a secure decentralised network. Customers can easily view, track, and use their points without worrying about unauthorised deductions (Sarah Lee, 2024). In the e-commerce sector, blockchain is also used to ensure transparency in transaction processes. With this technology, buyers can check the origin of products, the delivery process, and payment confirmation in real-time. Blockchain makes it easier for consumers to ensure that the products they purchase match the claims made by sellers. Additionally, this system supports safer transactions without the need for intermediaries such as banks or other payment services (Benjamin Parker, 2025). Blockchain is driving the adoption of smart contracts in digital marketing. Smart contracts are digital agreements that are automatically executed based on pre-agreed rules. In marketing, for example, this can be used to manage payments to influencers or marketing partners. Once the influencer completes their task, such as posting specific content, the system automatically sends the payment according to the agreement, without any manual intervention (Jack Anderson, 2025).

The security offered by blockchain also contributes to protecting brands from fraudulent activities. Blockchain technology can be used to track every step in a product's journey from the manufacturer to the consumer. This ensures the authenticity of the product and prevents the circulation of counterfeit or imitation goods that could damage the brand's reputation. Consumers can scan a blockchain-based QR code to confirm that the product they purchased is authentic (Rachel Evans, 2022). In content marketing, blockchain offers a way to protect creators' work. Writers, designers, and other content creators can use this technology to ensure their work is protected from illegal use or theft. Every piece of work created can be recorded on the blockchain, allowing its authenticity to be verified at any time. This also enables creators to negotiate usage rights more fairly (Nicholas Scott, 2023).

Not only that, blockchain serves as a tool to connect brands with more responsible audiences. In some cases, consumers want to support brands that have a positive social impact. Blockchain allows brands to show concrete evidence of their sustainability initiatives, such as how their production processes support the environment or society. Consumers can view this data directly through the blockchain, enabling them to make more informed purchasing decisions (Daniel Moore, 2023). Beyond transparency, efficiency, and security, blockchain has the potential to create more flexible payment methods. In digital marketing, payments often serve as a critical point for consumers. Blockchain offers a direct payment system using digital currency (cryptocurrency), which can accelerate transaction processes without relying on traditional banking systems. This facilitates interaction between brands and consumers in the global market (Doe, 2021).

The adoption of blockchain can also help brands build stronger consumer communities. With a blockchain system, brands can directly involve consumers in certain decision-making processes, such as new product development or marketing programmes. Consumers who contribute can be rewarded with tokens or points recorded on the blockchain, thereby fostering a stronger connection between the brand and its audience (Timothy Clark, 2024). Ultimately, the implementation of blockchain in digital marketing is not merely a technological trend, but a significant opportunity to create a more transparent, ethical, and efficient ecosystem. With its diverse benefits, ranging from advertising transparency to personal data management and loyalty programmes, blockchain helps brands better meet the expectations of modern consumers. Amidst rapid technological advancements, brands that adopt blockchain will gain a strong competitive edge in the market.

The Impact of Blockchain on Consumer Trust

Blockchain is a technology that is gaining attention for its ability to create transparency in various sectors. At its core, blockchain is a digital database that uses blocks of data that are connected in sequence and cannot be altered. The uniqueness of this system lies in its decentralised nature, meaning that no single party controls all of the information. This technology is beginning to be seen as a solution for increasing consumer trust in products, services, and companies (Kevin Johnson, 2022).

One of the main reasons why blockchain has such a significant impact on consumer trust is transparency. In blockchain, every transaction or activity is recorded in a digital ledger that can be viewed by all parties with access. Consumers can directly verify this data, for example, to ensure that a product was produced ethically or to verify the authenticity of a product. By providing access to this data, companies demonstrate their willingness to be transparent about their activities (Dylan Ramirez, 2024).

Security is another key advantage of blockchain for consumers. Data in blockchain is encrypted and difficult to alter, minimising the risk of manipulation or fraud. When consumers feel that their transaction data or the information they receive is secure, their trust in companies using blockchain increases. For example, in the financial industry, the use of blockchain makes transactions more transparent and less prone to fraud (Anna Walker, 2025).

Additionally, blockchain supports clear audit trails. In the business world, audit trails are crucial for ensuring that every decision or action can be traced back. Consumers who want to ensure that companies are accountable for their products and services can utilise blockchain technology to access these records. For example, in the food sector, consumers can track the origin of the food ingredients they consume, from the place of cultivation to distribution (Victoria Rogers, 2020).

Blockchain technology also strengthens the concept of product authentication. One of the major challenges for many consumers is the prevalence of counterfeit goods in the market, which not only cause economic losses but can also be harmful to health. With blockchain, companies can provide digital certificates for each of their products, which can be verified by consumers. This helps create a sense of security for consumers when purchasing a product, especially in sectors such as pharmaceuticals, fashion, and electronics (David Brown, 2023).

Furthermore, blockchain also helps build consumer loyalty through transparent reward systems. Many companies are now using blockchain for loyalty and reward programmes, such as reward points. Through blockchain, consumers can ensure that the points or rewards they receive are accurately reflected in their activities. This system provides clarity and accuracy, which enhances consumer engagement and trust in the company (Amanda Collins, 2022).

The use of blockchain is also appealing for digital finance or cryptocurrency. Many consumers were initially hesitant to use digital currency due to concerns about fraud or instability. However, the existence of blockchain as the foundation of digital currency makes transactions more transparent, secure, and trustworthy. This encourages consumers to be more open to financial innovations that were previously considered complex or risky (Matthew Carter, 2023). In the healthcare sector, blockchain is bringing about real change in patient data management. Medical data is often a subject of concern due to its sensitive nature. Blockchain offers a way to store patient information securely while granting limited access to authorised parties, such as doctors or hospitals. Consumers feel more

comfortable knowing that their medical information is protected by advanced technology that is difficult to hack (Kimberly Brooks, 2020). However, the implementation of blockchain is not without challenges. While many consumers are beginning to understand its benefits, others remain sceptical due to a lack of education about how the technology works. Companies seeking to gain more consumer trust through blockchain must ensure that consumers are given a clear understanding of how the technology is used and what benefits it offers them (Brian Adams, 2024).

Furthermore, blockchain adoption often requires significant investment and major changes to operational systems. Companies that are not ready for this transformation may face challenges in providing a consistent consumer experience. Nevertheless, with proper planning, blockchain continues to offer great potential in providing added value to consumers (Alice Gray, 2021). Overall, blockchain provides an opportunity to build stronger relationships between companies and consumers. By offering transparency, security, product authentication, and clear reward systems, this technology helps create trust. Furthermore, blockchain is not just a technical solution, but also a tool for demonstrating a company's integrity to its consumers.

Therefore, looking ahead, blockchain has the potential to become the foundation for consumer-oriented businesses. When consumers feel comfortable and trust the existing processes, they are more likely to remain loyal to the company. As a result, companies that effectively utilise blockchain can enjoy long-term benefits such as stable consumer trust and positive impacts on their business.

Conclusion

Blockchain has ushered in a new era in marketing by introducing transparency that was previously difficult to achieve. This technology allows every activity or transaction to be recorded in a system that cannot be altered or manipulated, thereby providing high levels of trust to all parties involved. In marketing, this kind of transparency is crucial because consumers are increasingly seeking products and services from brands that are honest and open in communicating information.

In addition to transparency, blockchain also helps build trust between brands and consumers. By giving consumers control over their data, blockchain offers a safer experience free from privacy breaches. On the other hand, brands can use this technology to demonstrate their commitment to integrity, whether it be in production processes, distribution, or running responsible marketing campaigns. When consumers perceive a brand as having an ethical approach, they are more likely to support and remain loyal to that brand.

Thus, the combination of transparency and trust is the key that blockchain offers to the world of marketing in the digital age. With this technology, brands are not only able to meet the demands of increasingly critical consumers but also strengthen healthier interpersonal relationships between companies and customers. In today's rapidly evolving world, the adoption of blockchain in marketing is a significant step toward creating a more fair, secure, and trustworthy digital ecosystem for all parties involved.

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