UTILIZATION OF BLOCKCHAIN TECHNOLOGY IN THE ECONOMIC SECTOR: A COMPILATION OF SHARIA ECONOMIC LAW PERSPECTIVES

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Abstract
Blockchain is a revolutionary concept in information technology that allows the creation and storage of data in a decentralized and encrypted manner. However, blockchain is still a new system in the economic world, so it is necessary to ensure that this technology complies with Sharia standards. In this case, the Compilation of Sharia Economic Law is an essential guideline in Sharia economics in Indonesia because it provides legal certainty, regulatory standards, and consumer protection and supports the development of Sharia finance. This article was written to provide an overview of the opportunities for utilizing blockchain technology in the economic sector from a KHES perspective. The method used is library research, a normative juridical approach, by analyzing documents and information related to the study problem. The results show that KHES articles suit the blockchain character, some of which are articles 21, 179-180, 200, 413, and 577. However, an in-depth analysis is needed regarding the principles of Sharia and the need for a fatwa. Apart from that, it is essential to make clear regulations by the government and government authorities regarding the use of blockchain technology. With proper regulations, blockchain can become helpful in developing the Sharia economy.

Keywords: Blockchain technology; Compilation of Islamic Economic Law (KHES); Sharia economics.

Abstrak
Blockchain adalah konsep yang revolusioner dalam teknologi informasi yang memungkinkan pembuatan dan penyimpanan data secara terdesentralisasi dan terenkripsi. Keunggulan utama dari blockchain adalah transparansi dan keamanan. Kendati demikian, blockchain tetaplah system baru dalam dunia ekonomi, sehingga perlu dipastikan jika teknologi ini sesuai dengan standar syariah. Dalam hal ini, Kompilasi Hukum Ekonomi Syariah menjadi pedoman penting dalam ekonomi syariah di Indonesia karena memberikan kepastian hukum, standar regulasi, perlindungan konsumen, dan

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Kata Kunci: Ekonomi syariah; Kompilasi Hukum Ekonomi Syariah (KHES); Teknologi Blockchain.

A. INTRODUCTION

The advancement of digital technology cannot be separated from the risk of data hacking by unauthorized parties.¹ The lack of optimization of the current security system is one of the causes. Standard data operation applications are also why the information data is easily hacked.² Unauthorized parties can misuse hacked data and, of course, can harm various parties. The impact of data hacking in the banking industry is severe and potentially detrimental to all parties involved. When customer data is hacked, sensitive information such as credit card numbers, personal information, and transaction history can fall into the wrong hands. It can lead to identity theft, financial fraud, and customer financial loss.³ In addition, the financial institution's reputation can also suffer, causing a loss of trust from the public and investors. The cost of recovery

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and security upgrades can also be an additional burden for banks. Data hacking is, therefore, a threat that the banking industry must take seriously by strengthening security systems and taking appropriate precautions.

In line with these problems, a new system known as Blockchain. Blockchain is a revolutionary concept in information technology that enables the creation and storage of data in a decentralized and encrypted manner. Every transaction recorded in a blockchain uses cryptography, so it cannot altered easily. However, the concept is in the context of cryptocurrencies such as Bitcoin. Blockchain has expanded to various industries, including finance, logistics, healthcare, etc.

However, Blockchain is still a new system in the world of economics. We need adequate literacy before deciding to use this technology. The provisions regarding Sharia economic principles in Indonesia are regulated in Supreme Court Regulation Number 2 of 2008 concerning the Compilation of Sharia Economic Law (KHES). KHES is an essential guideline in Islamic economics in Indonesia because it provides legal certainty, regulatory standards, consumer protection, and support for developing the Islamic financial sector. Apart from these issues, this article provides an overview of Blockchain and the opportunities for utilizing blockchain technology in the economic field from the perspective of the Compilation of Sharia Economic Law.

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Research on the utilization of blockchain in the economic sector has been extensively conducted. However, this study offers a different perspective compared to previous research. The focus of this study is on the perspective of the Compilation of Islamic Economic Law (KHERS), in which it comparatively analyzes the characteristics of Blockchain, the opportunities and challenges of its application in the economic field, and its relationship with the provisions of the KHERS regulation.

Previous research tends to discuss the general characteristics of blockchain that are suitable for application in Islamic financial transactions without utilizing a specific legal framework. For instance, Dimyati focuses his research on one of the advantages of blockchain, namely smart contracts, using the maqasid sharia approach. Meanwhile, Lia Novita Sari’s research employs a normative legal perspective with the Statute Approach of KHI, but focuses on the use of cryptocurrency as a marriage dowry. Muhammad Syarief Hidayatullah discusses the legality of cryptocurrency in Indonesia as a digital asset or commodity and explores ijtihiadi opportunities.

Therefore, the research gap lies in the lack of studies that specifically address the utilization of blockchain in the economic sector from the perspective of the Compilation of Islamic Economic Law (KHERS). This study aims to fill that gap by offering a comprehensive analysis that considers KHERS regulations, providing new insights crucial for the development of blockchain applications in the Islamic economy.

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B. METHOD

This article aims to find out the point of view of the Compilation of Sharia Economic Law on the opportunity to use blockchain in the economic field, so this article is descriptive research. In extracting and collecting data, the method used is library research, to be able to examine library materials and documents which are the main sources of information. The approach used in this research is a juridical normative approach. The steps of library research that will be carried out in this study include: systematic identification, analysis of documents that contain information related to the study problem.

C. RESULTS AND DISCUSSION

1. Blockchain Concept

The concept of blockchain in cryptography refers to the underlying technology of digital currencies such as Bitcoin.\textsuperscript{13} Blockchain offers a number of advantages that make it a revolutionary innovation in various fields. First, high security is one of the main advantages of blockchain. Using sophisticated cryptography, every transaction in the blockchain is encrypted and cryptographically linked to previous transactions, making it extremely difficult to manipulate or hack.\textsuperscript{14} Second, decentralization is another important feature. Compared to traditional systems that rely on a central authority, blockchain has no single point of failure, making it more resistant to attacks and tampering. It also increases transparency and accountability, as information is stored across the network and accessible to all parties involved.\textsuperscript{15} In addition, blockchain also offers efficiency and speed in the transaction process, especially in cross-border payment processing or digital asset delivery.\textsuperscript{16} By eliminating

\textsuperscript{13} Noorsanti, Yulianton, and Hadiono, “Blockchain - Teknologi Mata Uang Kripto (Crypto Currency).”


intermediaries and high transaction fees, blockchain enables transactions to be faster, cheaper, and more trustworthy.\(^\text{17}\) Other advantages include the opportunity to build innovative decentralized applications (dApps), as well as the potential to increase financial inclusion by providing access to those underserved by the conventional financial system.\(^\text{18}\) As such, blockchain promises to profoundly transform many aspects of life, from finance and business to the public and social sectors.\(^\text{19}\)

Hacking a blockchain has a very high degree of impossibility due to the various security factors inherent in blockchain design and operation. One of the main reasons is the use of very strong cryptography in blockchains. This makes it extremely difficult for any changes or manipulation of data in a blockchain to go undetected.\(^\text{20}\) In addition, blockchains are distributed across a network consisting of many connected nodes or computers. This means that to successfully hack a blockchain, an attacker would have to control the majority of the network's computing power, which entails enormous costs and resources. Additionally, some blockchains use strong consensus mechanisms such as proof-of-work (PoW).\(^\text{21}\) Overall, thanks to strong cryptography, wide distribution, and reliable consensus mechanisms, hacking a blockchain is considered a nearly impossible task and is rare.\(^\text{22}\) Nonetheless, keep in

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\(^\text{22}\) Wasriyono, Dwi Apriliasari, and Bayu Aji Putra Seno, “Inovasi Pemanfaatan Blockchain Dalam Meningkatkan Keamanan Kekayaan Intelektual Pendidikan,” Jurnal
mind that blockchain security depends on many factors and still requires continuous monitoring and updates to address threats that may arise in the future.23

2. Blockchain in the Economy

In economics, Blockchain enables faster, cheaper, and more secure transactions than traditional systems that often involve multiple third parties. It also opens up new opportunities in smart contracts, automated agreements that self-execute when certain conditions are met.24 It can reduce the risk of human error and increase efficiency in various sectors, including finance, international trade, and supply chain management. With the potential to overhaul the global financial infrastructure, Blockchain is considered a revolutionary innovation that can drive financial inclusion and more equitable and sustainable economic growth.25

Blockchain brings various economic benefits that can potentially overhaul the traditional way of doing business and transacting. Here are some of the key benefits of blockchain technology in the economic world, including transparency and security26, efficiency and speed27, lower


transaction costs\textsuperscript{28}, broader financial access\textsuperscript{29}, Smart Contracts\textsuperscript{30}, and reduced risk and fraud\textsuperscript{31}. Overall, Blockchain has the potential to bring significant innovation in various economic sectors, improving efficiency, security, and accessibility. With its growing adoption, Blockchain is expected to continue to play a vital role in the digital transformation of the global economy.

3. Compilation of Sharia Economic Law

The Compilation of Sharia Economic Law (KHES) became a Sharia economic guideline in Indonesia for several reasons related to regulation, legal certainty, and the development of the Sharia economy in the country. Here are the main reasons why KHES has become a sharia economic guideline in Indonesia. First, the Compilation of Islamic Economic Law (KHES) has legal certainty.\textsuperscript{32} KHES provides a clear and definite legal basis for implementing Islamic economics in Indonesia. With this compilation, all parties involved in sharia economic transactions, including banks, financial institutions, and customers, have clear guidelines for carrying out economic activities under sharia principles.\textsuperscript{33} Secondly, KHES is a regulatory standard governing various aspects of the Sharia economy, including banking, insurance, capital

\textsuperscript{28} Arwani and Priyadi, “Eksplorasi Peran Teknologi Blockchain Dalam Meningkatkan Transparansi Dan Akuntabilitas Dalam Keuangan Islam: Tinjauan Sistematis.”


\textsuperscript{30} Ariesto Hadi Sutopo, Blockchain Smart Contract Programming in Polygon, (Banteng: Topazart, 2023), 5.


markets, and other financial institutions.\textsuperscript{34} This standardization ensures that all Islamic financial institutions operate under-recognized Sharia principles.

Third, KHES encourages the development and growth of the Islamic economy in Indonesia by providing a legal framework that supports innovation and expansion in the sector.\textsuperscript{35} With clear regulations, investors and businesses are more confident about participating in the Islamic economy. Fourth, KHES protects consumers by ensuring that products and services offered by Islamic financial institutions follow Sharia principles and Islamic business ethics.\textsuperscript{36} It includes protection against unfair practices or exploitation. Fifth, KHES is structured to harmonize with Indonesia's national legal system, easing implementation and supervision by legal and financial authorities. This integration is essential to ensure the sharia economy can run synergistically with the existing legal system.

Furthermore, the Compilation of Sharia Economic Law (KHES) has also received support from the Financial Authority. The Indonesian Government and government institutions such as Bank Indonesia and the Financial Services Authority (OJK) support the implementation of KHES as part of efforts to strengthen the Islamic financial sector. Following the KHES guidelines, Islamic financial institutions can ensure that their operations are legally sound and under Islamic values.\textsuperscript{37} And finally, KHES also plays a role in the education and socialization of sharia economic principles to the public. The public can better understand and adopt Sharia economic practices daily with clear guidelines.\textsuperscript{38}

\textsuperscript{34} Elhas, “Kompilasi Hukum Ekonomi Syariah: Tinjauan Umum Hukum Islam.”


\textsuperscript{37} Irawan, “Politik Hukum Ekonomi Syariah Dalam Perkembangan Lembaga Keuangan Syariah Di Indonesia.”

4. Blockchain Implementation Challenges

Blockchain has great potential to be applied in the Islamic financial system, but it must be examined and customized to align with Sharia principles. Here are some aspects to consider when evaluating the application of Blockchain in Islamic financial institutions. The first is the assessment of blockchain applications in terms of Shariah compliance principles and the need for a specific fatwa on Blockchain.³⁹ Before implementation, scholars and experts should assess any blockchain application to ensure its compliance with Sharia principles. A particular fatwa may be required to provide clear guidance on using Blockchain in Islamic finance.⁴⁰

The second is regulation and standards. These are needed to ensure that Blockchain complies with the law in Indonesia and Islamic financial institutions. The Government and financial authorities need to work with Islamic financial institutions to develop a regulatory framework that supports innovation while continuing to ensure compliance with sharia principles.⁴¹ The third is to increase education and awareness about the benefits and workings of Blockchain in Islamic financial institutions, which must be increased among the public, financial professionals, and scholars. It will help accelerate the adoption of this technology and ensure that all parties understand how to use it.⁴²

5. Blockchain Utilization in the Perspective of the Compilation of Sharia Economic Law

Applying blockchain technology from the perspective of KHES is an

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exciting topic because Blockchain has characteristics that can support the basic principles of Sharia, such as transparency, fairness, and honesty in transactions. Here are some of the benefits of applying Blockchain in the economic field when connected to the Compilation of Sharia Economic Law (KHES):

a. Ensure transparency and honesty

Blockchain technology, which offers a system that is difficult to manipulate, guarantees transparency and honesty in every data. Transparency and honesty are valued in Islam. They are two fundamental principles in the Islamic economic system. It is based on the Regulation of the Supreme Court of the Republic of Indonesia Number 02 of 2008 concerning the Compilation of Sharia Economic Law Chapter II Article 21 that contracts are carried out based on the principles of trust and transparency.

Chapter II, Article 21, point (b): ‘Trustworthiness/keeping promises; every contract must be executed by the parties in accordance with the terms agreed upon by the parties involved and must simultaneously avoid breaking promises.’ and Chapter II Article 21 point (g): ‘Transparency’: The parties carry out every contract with open accountability.

Honesty is one of the most upheld moral values in Islam. In an economic context, honesty ensures that all parties operate with integrity and do not engage in practices that harm others. Companies and individuals known to be honest tend to have a good reputation and credibility. It can attract more business partners and customers and increase opportunities for profitable cooperation. Honesty in transactions reduces the potential for conflict and dispute. When all parties act honestly, misunderstandings and disputes are less likely, creating more

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43 Marisa and Atika, “Peran Teknologi Blockchain Dalam Keamanan Dalam Privasi Data.”

44 Ariati and Rudianto, “Dampak Blockchain Dalam Manajemen Keuangan Pada Perusahaan Fintech.”

45 Mahkamah Agung Republik Indonesia, Kompilasi Hukum Ekonomi Syariah Peraturan Mahkamah Agung RI No. 2 Tahun 2008, 1st ed. (Jakarta: Ditjen Badilag Mahkamah Agung RI, 2013).

harmonious business relationships.\textsuperscript{47}

Blockchain provides a transparent and immutable record of transactions. Every transaction is recorded in a digital ledger that can be accessed by all parties involved, thereby reducing the possibility of fraud and increasing trust. It aligns with Shariah principles that emphasize transparency and honesty in transactions.\textsuperscript{48}

b. Supporting non-usury contracts

Islam offers fair and shariah-compliant alternatives for financial transactions, including mudarabah and musyarakah.\textsuperscript{49} Blockchain can support shariah-compliant business models such as mudarabah and musyarakah, where profits and losses are shared based on the contributions and risks borne by each party. With Blockchain, smart contracts can be set up to ensure that profits and losses are shared fairly and transparently.\textsuperscript{50} They, of course, can help Islamic financial institutions to run their non-usury system more efficiently. It is in line with the principles of Islamic economics as stated in the Compilation of Sharia Economic Law Chapter II Article 21 point (k), which states: The contract can be made based on a lawful cause, not contrary to the law, not prohibited by law and not haram.\textsuperscript{51}

Usury is considered a form of exploitation of borrowers, especially those in challenging economic conditions.\textsuperscript{52} It creates injustice in the distribution of wealth. The practice of usury can also cause economic imbalance by enriching the few who have capital and worsening the


\textsuperscript{50} Wasriyono, Apriliasari, and Bayu Ajie Putra Seno, “Inovasi Pemanfaatan Blockchain Dalam Meningkatkan Keamanan Kekayaan Intelektual Pendidikan.”

\textsuperscript{51} Mahkamah Agung Republik Indonesia, Kompilasi Hukum Ekonomi Syariah Peraturan Mahkamah Agung RI No. 2 Tahun 2008.

economic conditions of the less well-off. Usury encourages people to focus on financial gain without considering human values such as help and social solidarity. It encourages greedy behavior and ignores ethical principles in doing business.\textsuperscript{53}

Every capital contribution and expenditure in a partnership contract can be recorded in a blockchain. It ensures all parties can access the same information and verify the contribution and use of funds.\textsuperscript{54} Smart contracts can automate sharing profits and losses based on the agreed capital contributions. It reduces the potential for disputes and ensures all parties get their fair share.\textsuperscript{55} Blockchain in Islamic investment platforms can enable investors and entrepreneurs to participate in mudarabah and musyarakah projects with complete transparency. All transactions and profit sharing can be automated and verified on the Blockchain. Also, in real estate projects financed through musyarakah, Blockchain can record capital contributions from various investors, manage project expenditures, and divide profits from the rental or sale of properties according to each investor's contribution.\textsuperscript{56}

Using blockchain technology, the mudarabah and musyarakah systems can become more efficient, transparent, and secure under Sharia principles. It eliminates the element of usury in the contract and promotes fair and sustainable economic growth.

c. Avoiding gharar (uncertainty)

Blockchain has several features that can help avoid transactions that contain gharar (excessive uncertainty or speculation). Blockchain provides transaction records that are transparent and accessible to all


authorized parties. Each transaction is recorded in an immutable digital ledger and can be verified by all participants. This transparency reduces uncertainty as all information about the transaction is clearly and openly available.

The impermissibility of *gharar* is mentioned in the Compilation of Sharia Economic Law Article 577 paragraph (1) and Article 21 points (c) and (d), which explain the principle of prudence in Islamic economics and the prohibition of *gharar* and *maisir*. Article 577 paragraph (1) KHES: The implementation of transactions must be carried out according to the principle of prudence and is not allowed to speculate and manipulate which contains elements of *dharar*, *gharar*, *usury*, *maisir*, *rishtah*, *sin* and injustice.

Article 21 of the Compilation of Sharia Economic Law (KHES) states that contracts are carried out based on the following principles: *Ikhtiyat* (prudence), where every contract is executed with careful consideration and precision; *Luzum* (unchanging), ensuring that every contract is performed with clear objectives and meticulous calculations to avoid speculation or *maisir* (gambling) practices; and mutual benefit, which mandates that each contract is designed to fulfill the interests of the involved parties while preventing manipulation and harm to any party.

*Gharar* is a term in Islamic law that refers to a transaction’s uncertainty, speculation, or excessive risk. *Gharar* covers any unclear, ambiguous, or uncertain transaction regarding its object, price, or terms. Transactions that contain *gharar* are considered invalid in Sharia

57 Bahauddin.


59 Mahkamah Agung Republik Indonesia, *Kompilasi Hukum Ekonomi Syariah Peraturan Mahkamah Agung RI No. 2 Tahun 2008*.

60 Mahkamah Agung Republik Indonesia.


because they can lead to injustice, fraud, and conflict between the parties involved.\textsuperscript{63}

Blockchain uses encryption and decentralization technology, which makes transaction data highly secure and cannot be manipulated.\textsuperscript{64} This security ensures that the information recorded on the Blockchain is valid and reliable. Smart contracts run on the Blockchain and automatically execute agreements based on pre-defined conditions. Smart contracts ensure that all the terms and conditions of the transaction are met before the transaction is executed.\textsuperscript{65}

With features such as transparency, security, smart contracts, real-time auditing, decentralization, and dispute resolution,\textsuperscript{66} Blockchain can significantly reduce the element of gharar in transactions. This technology supports Sharia principles by creating a more fair, transparent, and uncertainty-free transaction environment. It enables Islamic economic actors to operate more efficiently and ethically under Islamic values.

d. Fairness in Transactions

Blockchain has decentralized principles that support fairness by ensuring that all parties involved in a transaction have equal access to information and that no party is disadvantaged.\textsuperscript{67} Every change or transaction is recorded and cannot be altered, so all parties are assured that their rights are protected. Decentralization principles on Blockchain can support fairness in the economy in several ways relating to increased transparency, accountability, and broader participation.\textsuperscript{68}

\textsuperscript{63} Abdul Ghofur Anshori, \textit{Perbankan Syariah Di Indonesia} (Yogyakarta: Gadjah Mada University Press, 2018), 76.


\textsuperscript{65} Khan et al., “Blockchain Smart Contracts: Applications, Challenges, and Future Trends.”

\textsuperscript{66} Bahauddin, “Aplikasi Blockchain Dan Smart Contract Untuk Mendukung Supply Chain Finance Umkm Berbasis Crowdfunding Syariah.”

\textsuperscript{67} Arwani and Priyadi, “Eksporasi Peran Teknologi Blockchain Dalam Meningkatkan Transparansi Dan Akuntabilitas Dalam Keuangan Islam: Tinjauan Sistematis.”

\textsuperscript{68} Nishant Sapra, Imlak Shaikh, and Ashutosh Dash, “Impact of Proof of Work (PoW)-Based Blockchain Applications on the Environment: A Systematic Review and
Decentralization ensures that all transactions are recorded in a ledger accessible to all authorized parties. No single entity has exclusive control over the data, so all information is openly available.69

Justice is one of the main pillars of Islamic teachings, including in the Islamic economic system. Fairness in economic transactions prevents exploitation and fraud, protecting the weak from unfair practices by the stronger. A just economic system encourages cooperation and solidarity among members of society, creating an environment conducive to sustainable and inclusive economic growth.70

Article 21 KHES point (f), the contract is carried out based on the principle: *taswiyah*/equality; the parties in every contract are equal, and have equal rights and obligations.71 Likewise, the *musyarakah*/ cooperation contract in Sharia's economic principles demands justice and equality between the parties to the contract.72 It is stated in the Compilation of Sharia Economic Law articles 179 and 180 regarding the proportional distribution of profits and losses.73

Article 179 KHES: (1) The sharing of profits and or losses in capital cooperation is assessed proportionally; (2) if the parties do not agree on sharing profits and losses, then profits and losses are shared equally, with those who only contribute their expertise getting the same share as the lowest financier. Article 180 KHES: In capital cooperation that is accompanied by work cooperation, the work is assessed based on the portion of responsibility and achievement.

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71 Mahkamah Agung Republik Indonesia, *Kompilasi Hukum Ekonomi Syariah Peraturan Mahkamah Agung RI No. 2 Tahun 2008*.


73 Mahkamah Agung Republik Indonesia, *Kompilasi Hukum Ekonomi Syariah Peraturan Mahkamah Agung RI No. 2 Tahun 2008*. 
With decentralized blockchains, every transaction or change in the Blockchain must be verified by multiple nodes (computers) in the network. It makes it difficult for a single party to commit fraudulent acts without detection.\textsuperscript{74} It also allows many parties to participate in management and decision-making, not just a handful of elites or specific parties. No single point of failure can be exploited for unfair or harmful purposes. Decentralized systems are more resistant to manipulation and attacks.\textsuperscript{75}

The decentralization principle of Blockchain supports fairness in the economy through increased transparency, accountability, distribution of ownership, reduction of central control risks, equitable distribution of profits, fair dispute resolution, and economic inclusiveness.\textsuperscript{76} By removing centralized power and giving greater control to all participants in the network, Blockchain creates a fairer and more ethical system for all parties involved.\textsuperscript{77}

e. Security

Blockchain offers a high level of security through encryption and decentralization mechanisms. Transaction data is protected from manipulation and theft, crucial in ensuring trust and integrity in the Islamic financial system.\textsuperscript{78} Blockchain guarantees security in economic activities through various technical and structural mechanisms that ensure the system's integrity, transparency, and resilience. Blockchain operates on a distributed network where multiple nodes (computers)

\textsuperscript{74} Noorsanti, Yulianton, and Hadiono, “Blockchain - Teknologi Mata Uang Kripto (Crypto Currency).”


\textsuperscript{78} Muhammad Ali Anhar and Teguh Agum Pratama, “Analisis Implementasi Keamanan Data Melalui Teknologi Blockchain,” no. 120 (2024).
store copies of the same data. No single entity has complete control over the entire network. It reduces the risk of centralization attacks, where if one node fails or is attacked, the system as a whole remains operational.

It aligns with the principle of transparency as the principle of Sharia economic contracts in Article 21 point (g) of the Compilation of Sharia Economic Law. Contracts are carried out based on the following principles: transparency; every contract is carried out with open accountability of the parties. If Blockchain is applied to Islamic financial institutions, it can support security in transactions and increase customer confidence in Islamic economic contracts, including the wadi’ah contract. The wadi’ah concept, a customer entrusts his money to an Islamic institution to be stored and kept safe. This security concept is explained in the wadi’ah Chapter of the Compilation of Sharia Economic Law, where other parties, including the LKS, cannot use the customer's money without his consent.

Article 413 KHES: (1) The wadi’ah contract consists of a wadi’ah amanah contract and a wadi’ah dhamanah contract; (2) In a wadi’ah amanah contract, mustaudi’ cannot use the wadi’ah object, except with the permission of muwaddi; (3) In a wadi’ah dhamanah contract, the mustaudi’ can use the wadi’ah object without the permission of the muwaddi.

The decentralized system of the Blockchain can also be applied to musyarakah contracts, which prioritize the security of joint property. It


80 Yeni and Kumala, “Teknologi Blockchain Untuk Transparansi Dan Keamanan Pada Era Digital.”

81 Mahkamah Agung Republik Indonesia, Kompilasi Hukum Ekonomi Syariah Peraturan Mahkamah Agung RI No. 2 Tahun 2008.


83 Mahkamah Agung Republik Indonesia, Kompilasi Hukum Ekonomi Syariah Peraturan Mahkamah Agung RI No. 2 Tahun 2008.

is under the following article 200 KHES: If one of the co-owners is entrusted with joint property, then he is responsible for the security of the joint property.  

The security principle in Islamic economic law is fundamental because it protects property, prevents fraud, ensures fairness and transparency, maintains economic stability, ensures compliance with Sharia, facilitates efficient dispute resolution, and increases public trust. Thus, security is essential for creating a fair, transparent, and sustainable economic system under Islamic values.  

Every transaction on the Blockchain is encrypted using complex cryptographic algorithms. Transactions can only be added to the Blockchain if they are verified and approved by the majority of nodes in the network. It can ensure that data cannot be altered or falsified without detection. It protects against data theft and manipulation. As for a transaction in the Blockchain, it cannot be changed or deleted. It is known as the principle of immutability.  

Blockchain also guarantees its level of security as it uses various consensus algorithms such as Proof of Work (PoW) or Proof of Stake (PoS) to validate and approve transactions. Essentially, in blockchain, all nodes must reach consensus before a transaction can be recorded. This consensus ensures that only valid transactions are included in the blockchain, preventing fraud and errors. The technology also utilizes

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85 Mahkamah Agung Republik Indonesia, Kompilasi Hukum Ekonomi Syariah Peraturan Mahkamah Agung RI No. 2 Tahun 2008.


88 Anhar and Pratama, “Analisis Implementasi Keamanan Data Melalui Teknologi Blockchain.”


hashing for additional security, making it difficult for anyone to alter data without being detected. Moreover, blockchain stores data redundantly across multiple nodes, so if one node experiences issues, the data remains safe elsewhere. This redundancy enhances overall system security and availability.

D. CONCLUSION

Looking from the perspective of the Compilation of Sharia Economic Law, there are articles related to the characteristics of the blockchain system, some of which are: article 21 on the Principles of the Contract, which emphasizes the principles of honesty, transparency, equality, prudence, and convenience; articles 179 and 180 on Syirkah Mutsyarakah which emphasize the principle of justice in Islamic economic contracts; Article 413 on the Wadi’ah contract on the principle of security; Article 200 on the Utilization of Syirkah Milk which emphasizes the importance of a sense of responsibility; Article 577 on Securities Transactions which are in accordance with the principle of prudence in transactions. In particular, blockchain is considered to be compatible with the principles contained in the Compilation of Sharia Economic Law. Blockchain has great potential to support and strengthen the Islamic financial system through transparency, efficiency, and security. However, the implementation of this technology must be done carefully and in accordance with sharia principles. A more in-depth analysis of sharia compliance principles and a special fatwa on blockchain are needed. In addition, there needs to be clear regulations by the government and financial authorities regarding the use of blockchain technology. With proper regulation, adequate education, and judgment from sharia experts, blockchain can be a very useful tool in developing a fairer and more transparent Islamic economy.

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136 | Vol.5 No.1, Januari-Juni 2024 TADAYUN


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