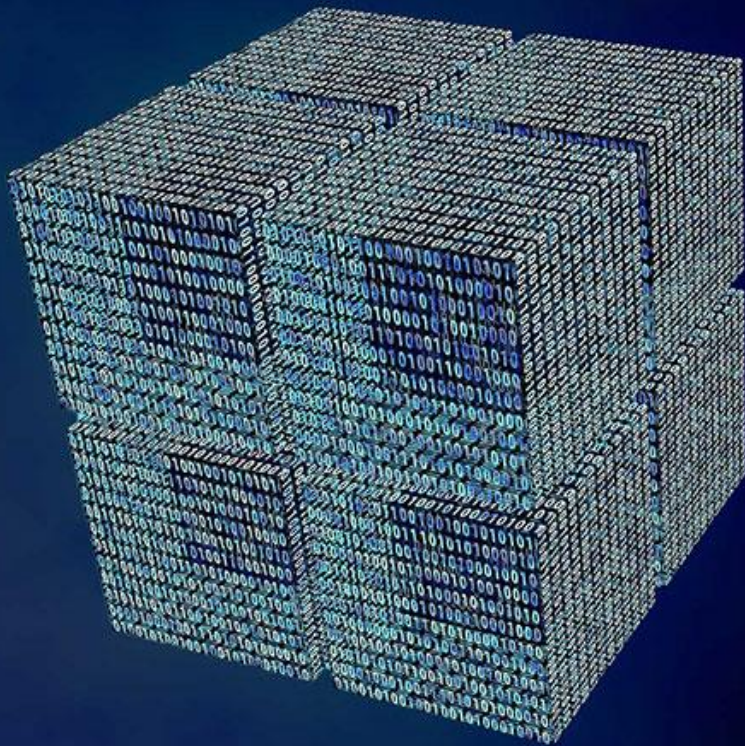


The background of the slide features a dark blue space-like theme. It is populated with several 3D wireframe cubes, some of which are glowing with a bright blue light. These cubes are scattered across the frame, with one particularly prominent glowing cube in the center. The background is also decorated with faint, glowing white lines that form a complex network, resembling a blockchain or a neural network, and small white star-like specks.

Blockchain Halal

RATIH HENDAYANI S.T., M.M., Ph.D

Blockchain. Halal



01

Halal Lifestyle

02

Blockchain Halal

03

Blockchain Halal Research

04

Blockchain Halal app

Global Halal Lifestyle

Indonesia

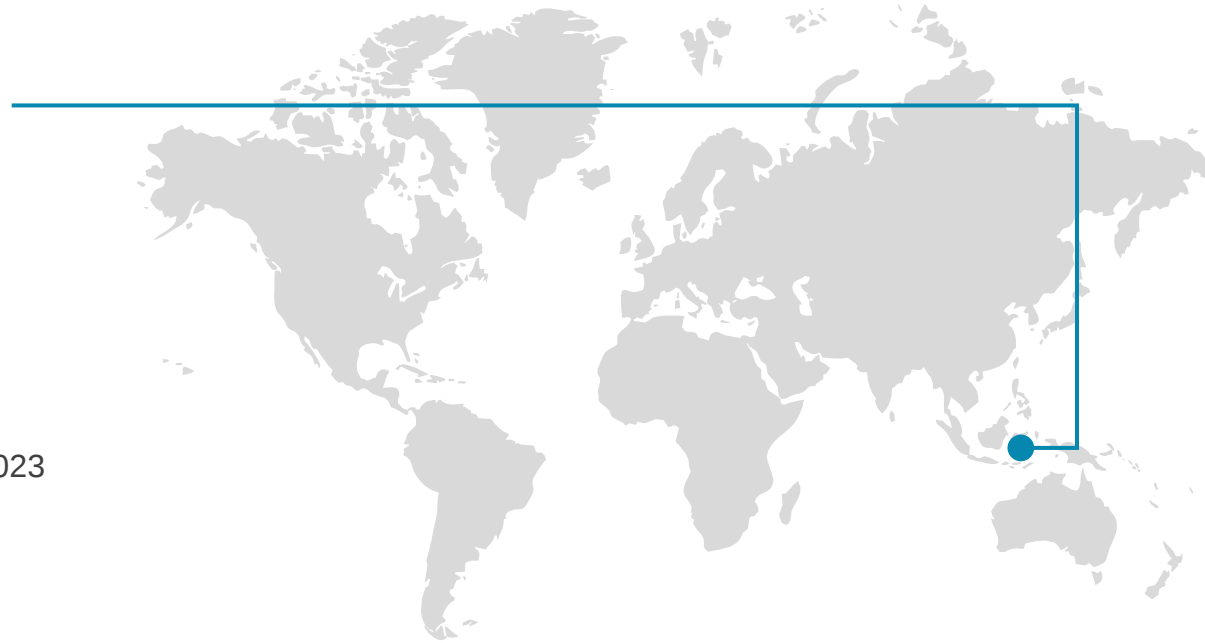
Indonesia Halal Market Report (IHMR) 2021/2022, Indonesia berpeluang menambah US\$5,1 miliar atau lebih dari Rp75 triliun terhadap Produk Domestik Bruto (PDB) dari sektor yang termasuk pada industri halal.

Global Muslim Travel Index (GMTI) 2023

Indonesia memegang posisi puncak bergengsi di GMTI 2023 menduduki peringkat satu dengan skor 73

Master Plan Industri Halal Indonesia (MPIHI)

Road map pengembangan industri halal dengan visi "Menjadikan Indonesia sebagai Pusat Industri Halal Dunia" dengan 4 (empat) strategi utama; daya saing, regulasi, infrastruktur, dan awareness



56%

Global Islamic Finance Market
pada tahun 2023

41.8%%

Global Islamic Commercial
Banking Market pada tahun
2023

US \$3T

Global Islamic Economy
Report tahun 2021

1.8 M

Persebaran muslim di seluruh
dunia

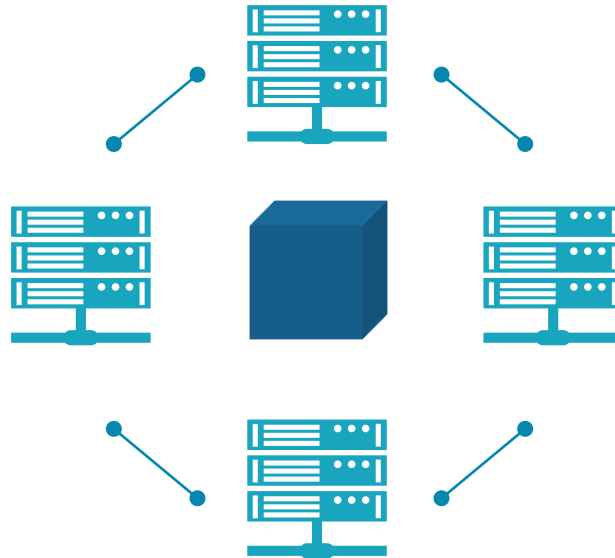


Blockchain Halal

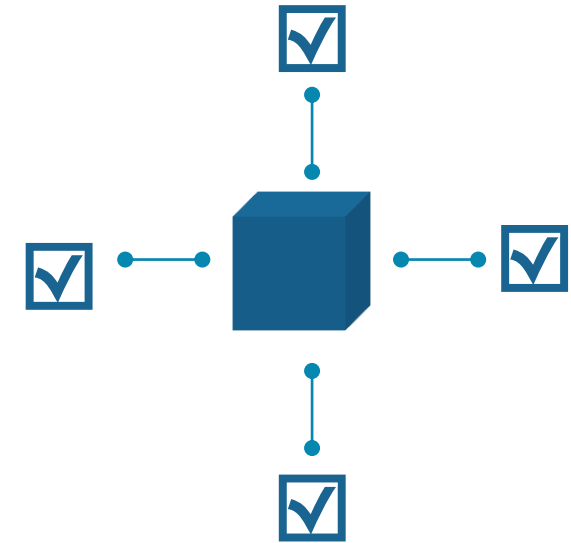


Mengutip The Truth About Blockchain. Harvard Business Review. Harvard University (2017), data dalam blok tidak dapat diubah secara retroaktif tanpa perubahan pada blok-blok berikutnya, yang membutuhkan konsensus mayoritas jaringan.

halal blockchain memiliki potensi besar untuk memperkuat ekosistem halal secara komprehensif



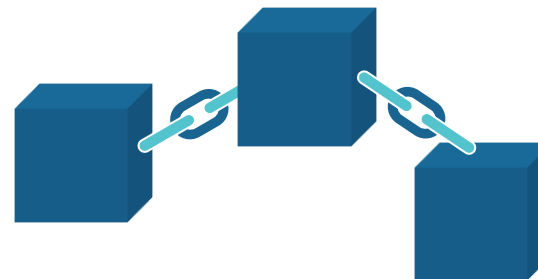
Direktur Strategi dan Operasional LPPOM, Ir. Sumunar Jati, M.P., menyebutkan bahwa penerapan blockchain pada industri halal harus mencakup berbagai aspek



Halal blockchain memberikan manfaat signifikan bagi pelaku usaha



Pertama Dan Satu Satunya Di Indonesia Halal Blockchain Di Industri Poultry



sreeyasewu



<https://www.sreeyasewu.com/id/technology/halal-blockchain>

<https://halalmui.org/halal-blockchain-jaminan-halal-di-era-digital/>

HOME OF ETHICAL WEB3

Ethics-first network that welcomes sustainability-centered developers, validators and open source contributors as well as Muslim innovators in

<https://haqq.network/>

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We are on a mission to onboard over 1.8+ billion Muslims into digital finance without compromising the values and faith. Islamic coin is the native currency of HAQQ, an ethics first, scalable and interoperable blockchain built on Proof-of-Stake with fast finality.

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Blockchain Halal Research

Awareness

Salah satu strategi utama MPIHI
Religious belief has a significant relationship with halal supply chain awareness (awareness criteria),
Health reason has a significant relationship with halal supply chain awareness (awareness criteria),
Logo certification has a significant relationship with halal supply chain awareness (awareness criteria),
and Exposure has a significant relationship with halal supply chain awareness (awareness criteria)

BLOCK

Pratiwi, D. A., & Hendayani, R. (2021). Analysis of the Awareness Level of Indonesian Non-Muslim Consumers on Halal Products: A Case Study of Non-Muslim Consumers in Malang City. *International Journal of Business and Technology Management*, 3(2), 1-13.



Adoption

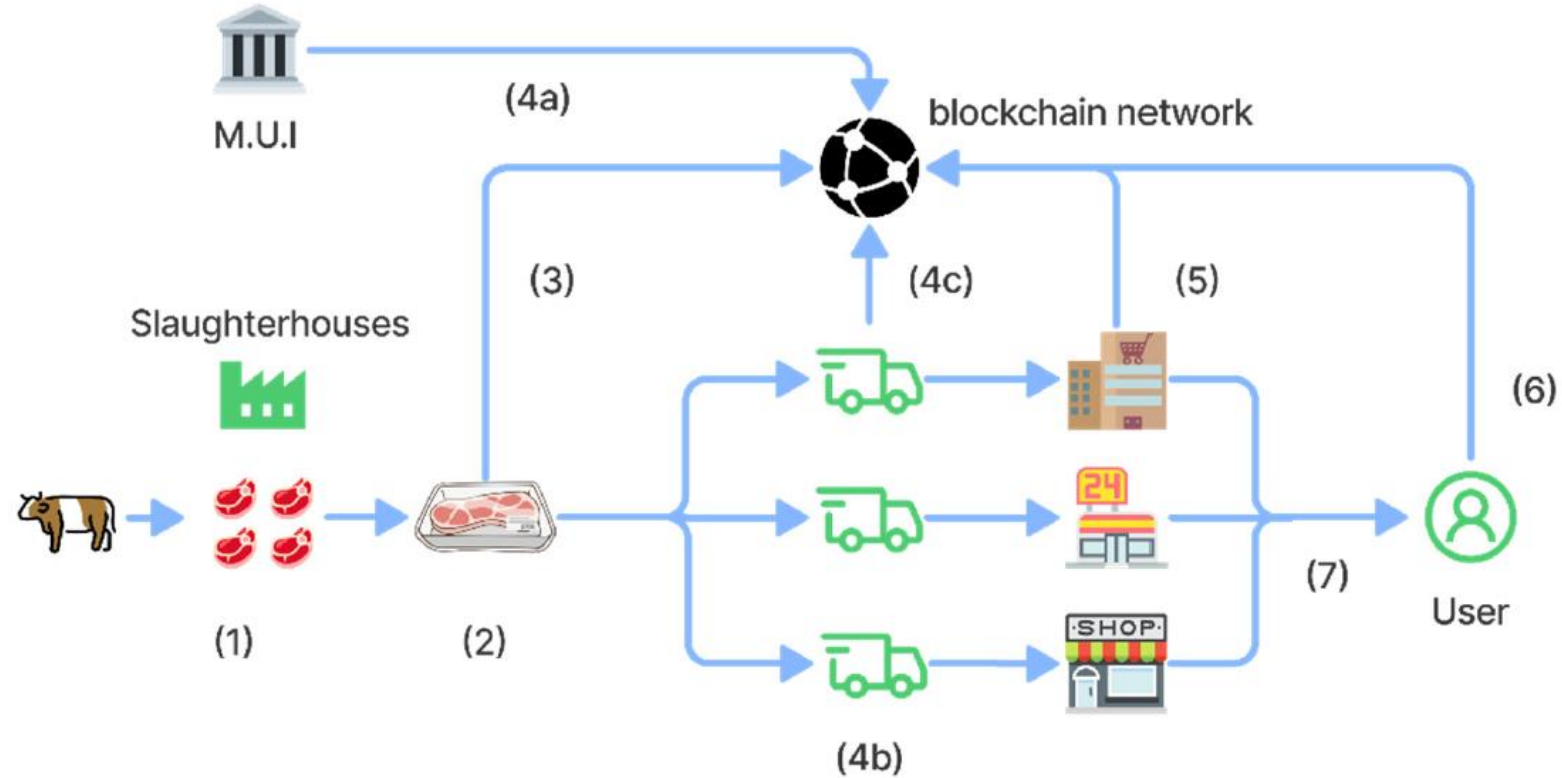
adopting blockchain technology positively and significantly affects Halal supply chain performance and firm competitiveness. The total indirect effect shows that the availability of blockchain technology indirectly affects the firm's competitiveness through Halal supply chain performance

Hendayani, R., & Fernando, Y. (2023). Adoption of blockchain technology to improve Halal supply chain performance and competitiveness. *Journal of Islamic Marketing*, 14(9), 2343-2360.

CHAIN

Blockchain-Based Traceability System to Support the Indonesian Halal Supply Chain Ecosystem

Alamsyah, A., Hakim, N., & Hendayani, R. (2022). Blockchain-based traceability system to support the Indonesian Halal Supply Chain Ecosystem. *Economies*, 10(6), 134.



Process description:

(1) Slaughter process

(2) Identification & packaging process

(3) Upload meat info to BC Network

(4) Parallel process,

(4a) Halal certification process

(4b) Distribution process

(4c) Update meat movement

(5) Check & update meat status

(6) Check meat status

(7) Buying process

Figure 4. Proposed off-chain process.

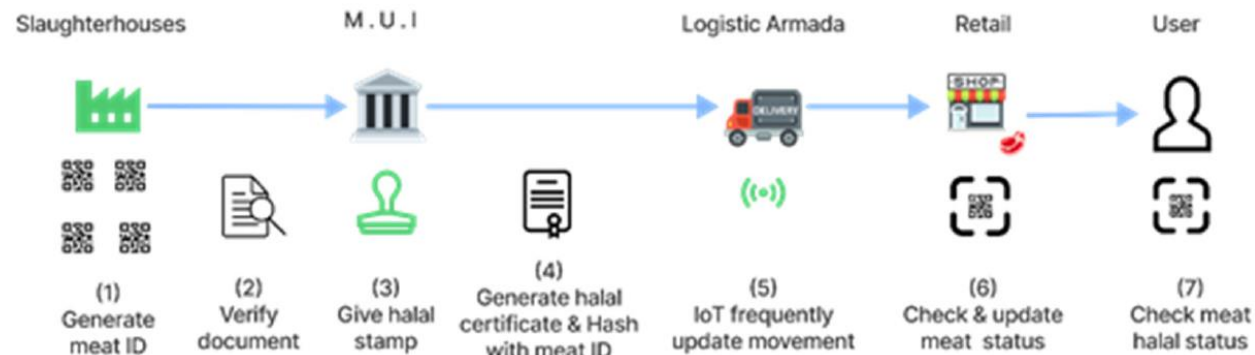


Figure 5. Proposed On-Chain Process.

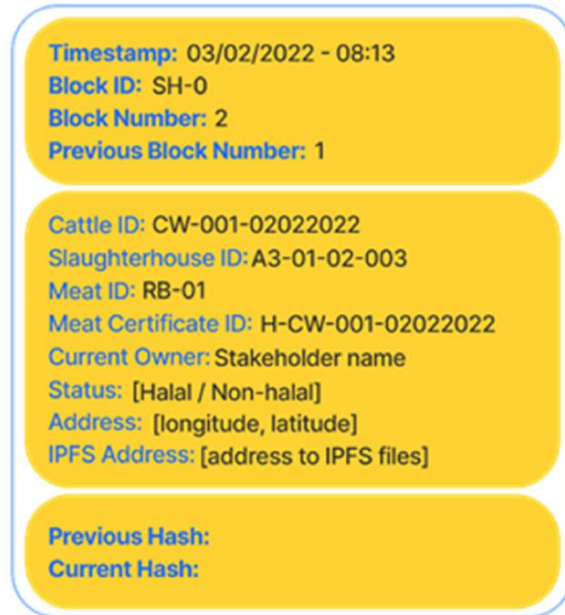


Figure 6. Proposed block structure.

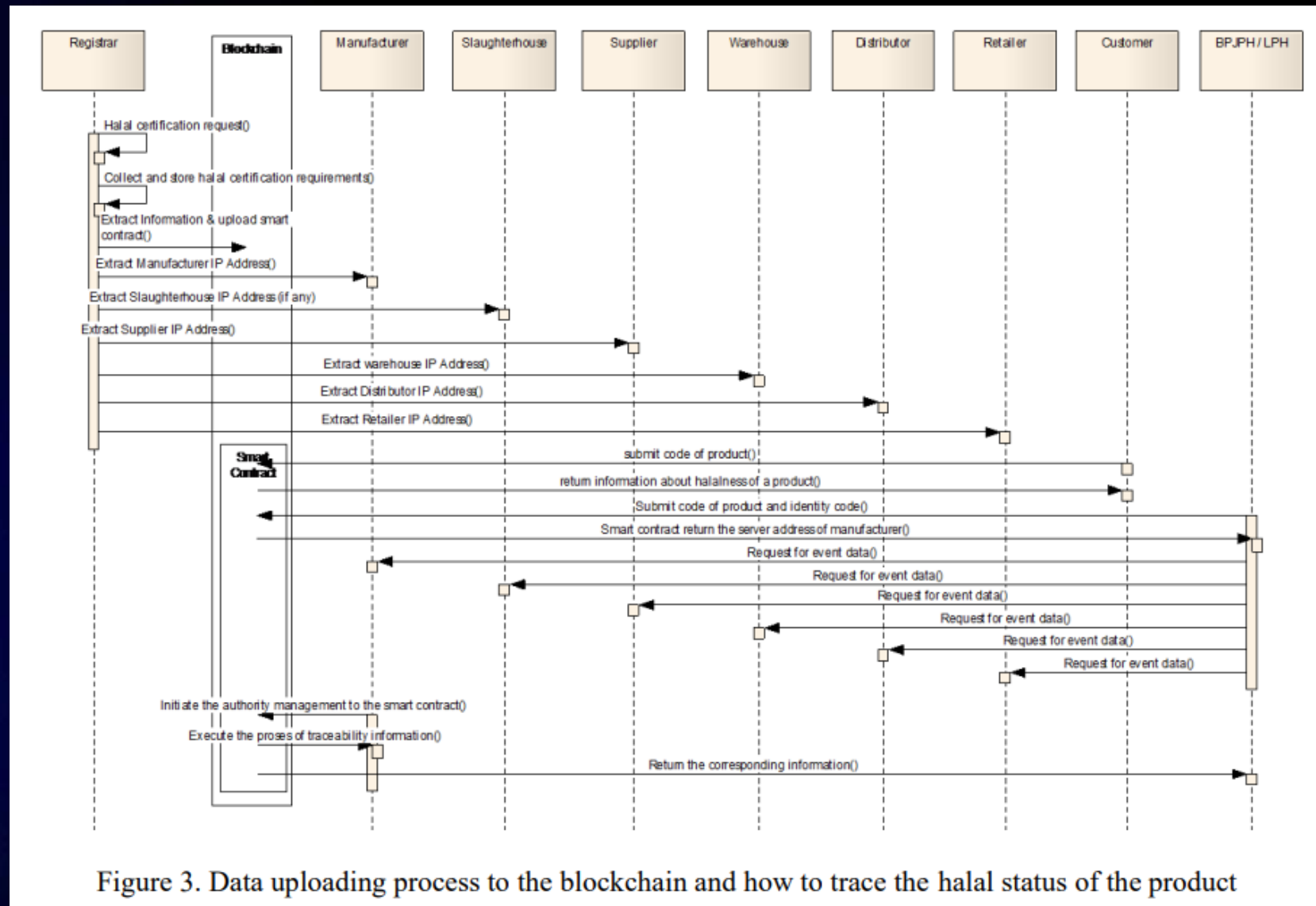
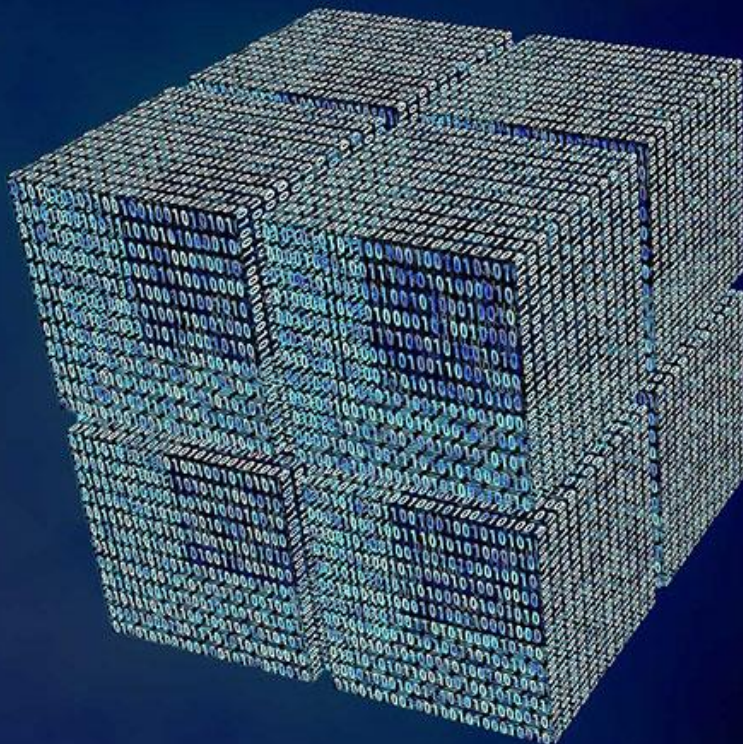
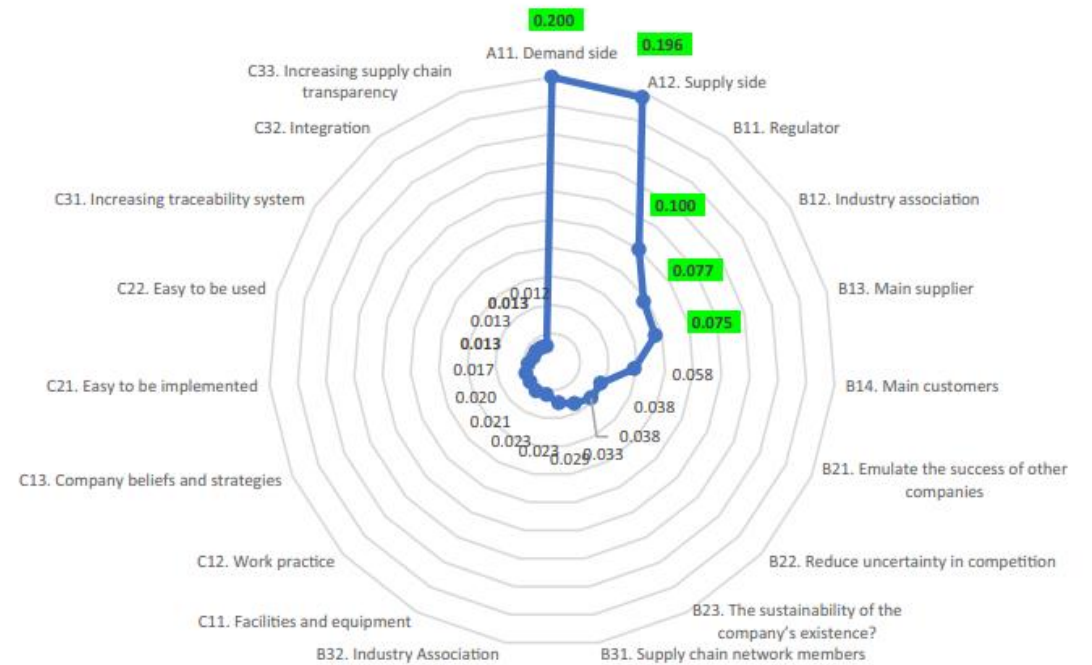
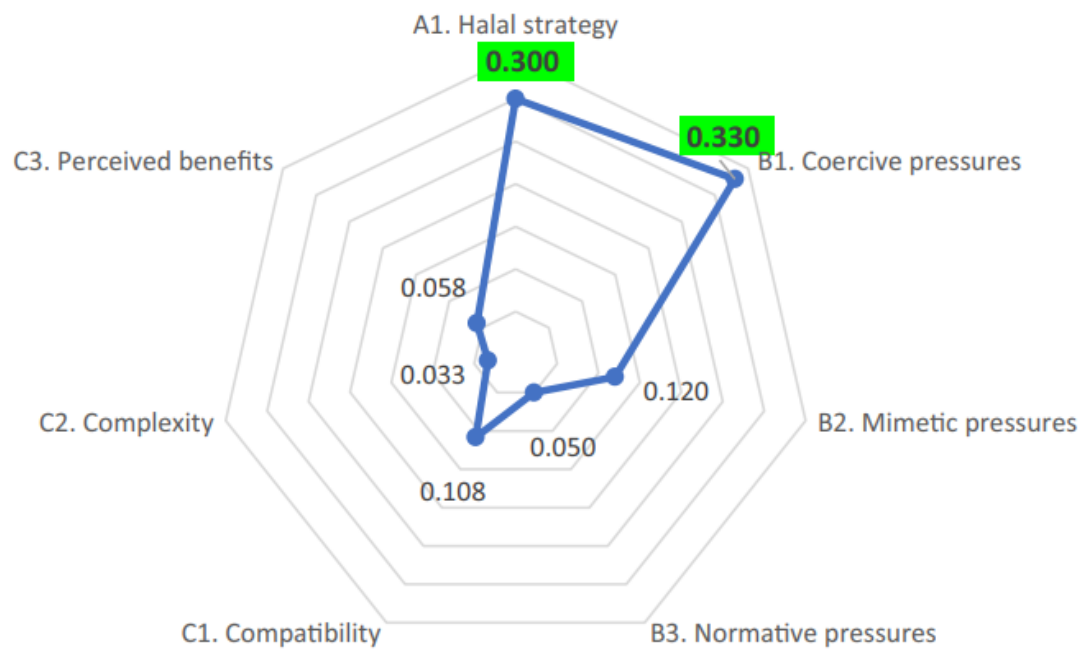


Figure 3. Data uploading process to the blockchain and how to trace the halal status of the product

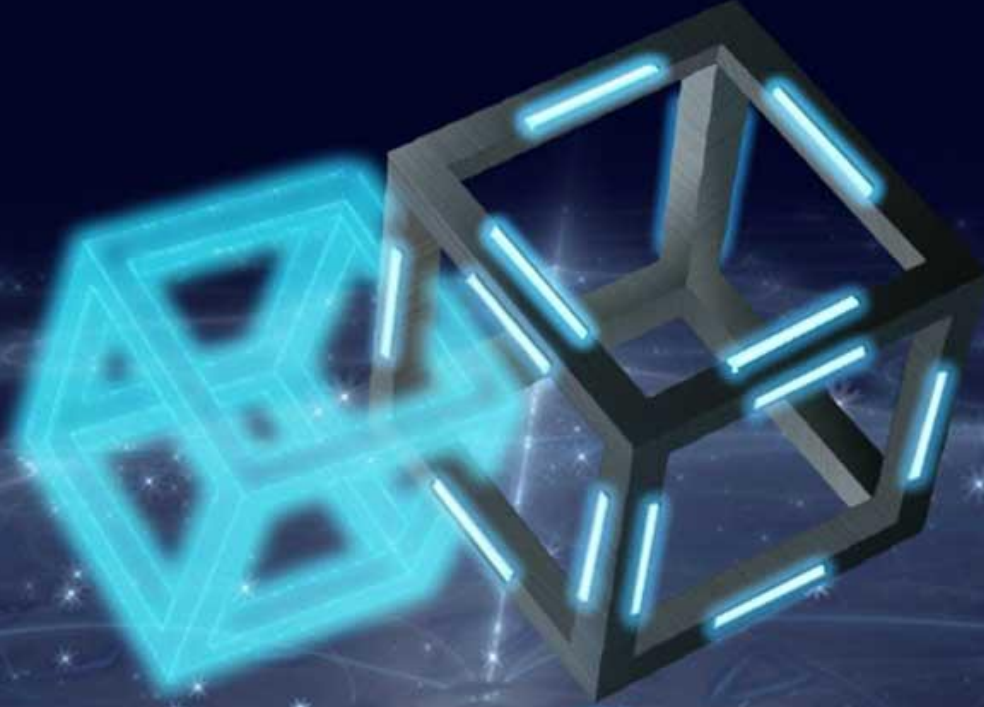
Mugiono, A. (2024). Framework for smart contract blockchain in halal traceability, integrity, and transparency. *International Journal of Electrical & Computer Engineering* (2088-8708), 14(3).



Vanany, I., Soon-Sinclair, J. M., & Rahkmawati, N. A. (2024). Assessment of halal blockchain in the Indonesian food industry. *Journal of Islamic Marketing*, 15(6), 1498-1518.







THANK YOU

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