

Journal of Islamic Law and Legal Studies, Vol 2 (2) 2025: 114-133

https://mabadiiqtishada.org/index.php/ShariaLex
ISSN: 3048-0701; e-ISSN: 3047-9738

Toward a Global Sharia-Compliant Regulatory Architecture: A Critical Reassessment of Islamic Economic Law in the Digital Age

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ARTICLE INFO

Received Sep 23, 2025
Accepted Dec 26, 2025
Published Dec 26, 2025

Keywords:
Islamic Economic Law; Shariah Governance; Islamic Fintech; Digital Assets Regulation; Maqasid al-Shariah

ABSTRACT

This study critically reassesses Islamic economic law in response to the accelerating digital transformation reshaping global financial ecosystems. Drawing on classical jurisprudential sources, international Sharia standards, and contemporary literature on Islamic fintech, the research employs a qualitative library-based methodology to evaluate how digital innovations—particularly AI, blockchain, digital assets, and Islamic fintech platforms—challenge existing regulatory structures across Muslim jurisdictions. The findings reveal substantial fragmentation in Sharia governance, inconsistencies in regulatory interpretation, and limited technical capacity, which collectively hinder the development of a cohesive global framework. The study argues that the integration of Maqasid al-Shariah offers a robust ethical and legal foundation for constructing a global Sharia-compliant regulatory architecture capable of addressing cybersecurity risks, algorithmic bias, consumer protection gaps, cross-border inconsistencies, and the complexities of emerging technologies. The analysis highlights the need for harmonized standards, AI ethics protocols, enhanced RegTech adoption, and dynamic regulatory sandboxes to balance innovation with Sharia compliance. Ultimately, the research proposes a forward-looking model that embeds Islamic ethical principles within contemporary digital governance, ensuring that Islamic finance remains resilient, transparent, and socially responsible in the digital age.

How to cite: Osmanov, F. F., Babazade, Z. I., & Mansurzada, A. E. (2025). Toward a Global Sharia-Compliant Regulatory Architecture: A Critical Reassessment of Islamic Economic Law in the Digital Age. *Journal of Islamic Law and Legal Studies*, 2(2), 114–133. https://doi.org/10.70063/jills.v2i2.118

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INTRODUCTION

The rapid advancement of the digital economy introduces substantial complexities and novel prospects for Islamic finance, necessitating a thorough reassessment of current Sharia-

compliant paradigms to ensure their contemporary relevance and global applicability (Kılıç, 2023). This critical evaluation is paramount because digital innovations, such as financial technology, blockchain, and smart contracts, are progressively transforming global economic environments, requiring Islamic economic law to adapt while rigorously upholding Sharia tenets (Asyiqin, 2025; Maulidizen et al., 2024). The rise of Islamic Fintech exemplifies this need, striving to merge financial innovation with Islamic ethical and moral stipulations, which prohibit usury, excessive speculation, and investments in unethical commodities (Kılıç, 2023). This approach seeks to promote risk-sharing, equitable wealth distribution, and collective prosperity, consistent with Environmental, Social, and Governance criteria (Osman, 2023).

Integrating ethical principles with technological advancements is crucial for enhancing financial inclusion, particularly in areas historically neglected by mainstream financial entities (Kılıç, 2023). This synergy between established Islamic finance doctrines and advanced digital technologies offers a viable path towards a more encompassing and morally sound financial infrastructure (Kılıç, 2023). Within such a framework, blockchain technology can bolster transparency and transactional security, while smart contracts hold the potential to optimize regulatory adherence and oversight mechanisms in Sharia-compliant financial activities (Kanwal et al., 2023). Furthermore, adapting Islamic economic law for the digital era requires confronting new legal and ethical challenges presented by nascent technologies, ensuring that innovations adhere to Sharia precepts while simultaneously advancing economic growth and social equity (Osman et al., 2023).

The swift proliferation of digital technologies—encompassing fintech innovations, blockchain-powered financial systems, artificial intelligence, digital currencies, and transnational online marketplaces—has created novel complexities for the conventional framework of Islamic economic law (Elbadiansyah et al., 2025). Although Islamic jurisprudence has historically demonstrated flexibility through instruments like *ijtihād*, *qiyās*, and *maṣlaḥah*-driven deliberation, the velocity, magnitude, and intricate nature of the contemporary digital economy demand a more structured and universally consistent regulatory framework. Current Sharia guidelines often exhibit jurisdictional fragmentation, leading to discrepancies in fatwas, regulatory lacunae, and diverse interpretations among Sharia supervisory authorities (Maulidizen et al., 2018). These circumstances impede the formation of a cohesive global Islamic economic system capable of functioning efficiently within unrestricted digital markets. Consequently, a reassessment is imperative to determine how Islamic financial institutions can leverage digital instruments to enhance ethical considerations and risk-sharing while navigating diverse regulatory environments (Kılıç, 2023).

Moreover, resilient regulatory structures are indispensable for cultivating confidence and stimulating capital deployment in these fintech platforms, thereby guaranteeing transparency and safeguarding investors (Pandey et al., 2025). This ongoing re-evaluation is critical for navigating the intricate landscape of digital finance, especially as Islamic fintech innovations—including Sharia-compliant digital banking, crowdfunding, and peer-to-peer lending—experience rapid growth, utilizing technologies such as artificial intelligence and big data analytics to improve operational efficiency and clarity (Kılıç, 2023). Nevertheless, contemporary Shariah governance faces challenges in accommodating technology-driven financial activities, such as cryptocurrency, blockchain, and artificial intelligence, despite proactive collaboration between Islamic financial institutions and FinTech developers (Razak et al., 2020).

This paper critically re-examines Islamic economic law, focusing on the conceptual, regulatory, and practical impediments arising from digital transformation. By analyzing the progression of Islamic commercial jurisprudence and the imperative for standardized regulation, it delineates potential strategies for establishing a global Sharia-compliant regulatory framework that accommodates technological innovation while upholding core Islamic legal precepts.

RESEARCH METHOD

This study employs a qualitative library research approach, drawing on authoritative classical Islamic jurisprudential sources (*fiqh, usul al-fiqh*, and classical commentaries), contemporary academic literature, international Sharia standards (AAOIFI, IFSB, OIC Fiqh Academy), and modern regulatory reports addressing digital finance and global economic governance. The analysis adopts a critical comparative method, examining convergences and divergences across schools of thought and regulatory institutions. Sources are analyzed thematically to identify underlying principles, tensions, and potential frameworks for harmonization. This method ensures conceptual depth and enables the formulation of a theoretically grounded but globally adaptable regulatory model. Specifically, this qualitative approach involves a thorough examination of primary legal sources, such as the Quran, Sunnah, *Ijma'*, and *Qiyas*, alongside national regulations and fatwas from bodies like the Indonesian Ulema Council (Asyiqin, 2025).

Further, the research incorporates an analysis of contemporary scholarly articles and industry reports to understand the practical applications and emerging trends in Islamic Fintech, ensuring a comprehensive perspective on the subject (Anggraeni et al., 2025; Kılıç, 2023). This extensive literature review allows for the identification of current gaps in regulatory clarity, consumer protection, and the prevention of Sharia non-compliance risks within the evolving digital financial landscape (Asyiqin, 2025). This systematic approach facilitates a robust understanding of how modern financial technologies can align with Islamic legal principles, addressing critical issues such as the prohibition of *Riba*, *Gharar*, and investments in *Haram* activities (AlFzari et al., 2024).

RESULT AND DISCUSSION

This comprehensive analysis also examines how Islamic financial institutions adapt to evolving digital transactions and addresses problematic financing through established remedies (Amelia et al., 2024; Asyiqin, 2025). The rapid integration of fintech into Islamic finance, including peer-to-peer lending and crowdfunding, necessitates a critical re-evaluation of regulatory frameworks to ensure Sharia compliance while fostering financial inclusion and stability (Abdullah et al., 2024). This includes analyzing the performance of Islamic banks in fintech adoption through comparative index approaches and assessing the implications of digital transformation on ethical considerations and risk-sharing (Rahman et al., 2023).

Furthermore, this study evaluates the existing legal and regulatory frameworks in various jurisdictions, such as Indonesia and Malaysia, to identify their efficacy in promoting Sharia-compliant fintech innovation and to propose enhancements for greater harmonization (Asyiqin, 2025). The study also scrutinizes the role of global bodies, such as the Islamic Financial Services Board, in developing unified standards for Islamic fintech regulation (Kok et al., 2021). This comparative analysis extends to examining the regulatory frameworks of

Indonesia, Malaysia, and the United Kingdom, highlighting challenges such as weak supervision and low Sharia compliance (Ajouz & Abuamria, 2023).

Sharia Compliance in Digital Financial Products

The proliferation of digital financial products necessitates a rigorous examination of their adherence to fundamental Sharia principles, particularly regarding the prohibition of *riba* (usury), *gharar* (excessive uncertainty), and *maysir* (gambling). This scrutiny is particularly relevant for platforms offering services like digital gold, which must strictly adhere to Islamic finance principles and comply with regulations set by bodies such as Fatwa DSN MUI, permitting non-cash transactions while maintaining Sharia integrity (Luthfi & Hati, 2025). This ensures that innovative digital investment vehicles, such as those facilitating Sharia-compliant digital gold, offer flexible investment strategies aligned with Islamic finance principles (Luthfi & Hati, 2025). Moreover, the integration of contemporary banking law with *fiqh* is crucial for establishing a framework that facilitates the development of Sharia-compliant digital financial products without compromising the capacity of banks to generate profits (Anggraeni et al., 2025).

This approach aims to strike a delicate balance between fostering innovation in financial technology and preserving the ethical and legal integrity of Islamic economic principles, thereby ensuring sustainable and equitable financial growth in the digital era. This includes a thorough assessment of regulatory frameworks and consumer protection mechanisms to safeguard against potential risks associated with digital financial services (Hamid et al., 2023). The ongoing challenge remains in developing robust regulatory guidelines that can effectively address the complexities introduced by emerging technologies like blockchain and artificial intelligence within Islamic finance (AlFzari et al., 2024). This necessitates an adaptable global Sharia-compliant regulatory architecture capable of providing clear guidance on novel digital products while ensuring consistent application across diverse jurisdictions (Fahamsyah et al., 2023).

Such an architecture must also address human resource gaps and legislative tool deficiencies that currently impede the growth of Islamic fintech (Qadri et al., 2022). Furthermore, it should facilitate the integration of RegTech solutions to navigate the complexities of Sharia compliance efficiently and transparently (Kılıç, 2023). This includes developing robust frameworks for data privacy and cybersecurity, ensuring that digital transactions align with Islamic ethical guidelines on data handling and user protection (Bakhrudin et al., 2023). This is particularly important as Islamic FinTech aims to uphold Sharia principles by maintaining integrity and transparency, ensuring fairness, and avoiding elements of *riba*, *gharar*, and *maysir* in all transactions (Mansur et al., 2022).

This integration of advanced technologies like AI and blockchain into Islamic finance, while offering efficiency and innovation, also introduces new ethical dilemmas that require careful consideration to ensure alignment with *fiqh* and *Tafseer* (Hemmet, 2023). For instance, AI-driven credit scoring models must avoid discriminatory practices and ensure transparency, aligning with the Islamic principles of justice and fairness (Sari, 2025). Similarly, blockchain's potential for enhanced transaction visibility and immutability must be leveraged in a manner that respects individual privacy while upholding Sharia-compliant auditing and accountability standards (Mohamad et al., 2024). Developing a comprehensive framework for ethical AI and blockchain applications within Islamic finance is thus paramount for maintaining trust and ensuring the long-term viability of these innovations (Oriji et al., 2023).

The emergence of Islamic cryptocurrencies and the application of machine learning for investment strategies and fraud detection further underscore the need for a dynamic regulatory environment capable of addressing these technological advancements (Kılıç, 2023). This requires a proactive approach to developing global Sharia-compliant regulatory frameworks that can adapt to rapid technological changes while ensuring adherence to Islamic ethical principles (Ali et al., 2019; Osman et al., 2023). This is crucial for establishing an inclusive and ethical financial ecosystem that aligns with Islamic ideals of equity and transparency (Kılıç, 2023). Moreover, the development of a Sharia-compliant cryptocurrency that integrates Islamic FinTech algorithms and adheres to Sharia-based regulations is essential for fostering trust and clarity among users.

This proactive approach also involves the continuous interpretation and reinterpretation of *Sharia* principles to address unforeseen challenges posed by evolving digital financial instruments, thereby ensuring their legitimacy and public acceptance (Shamsuddin, 2024). This requires scholarly consensus-building and agile regulatory responses to integrate novel technologies within the established ethical boundaries of Islamic economic law. The implementation of blockchain technology, with its inherent transparency and immutability, offers a transformative solution for enhancing trust and ensuring the security of transactions within this evolving landscape (Osman, 2023). Furthermore, Deep Learning, coupled with Artificial Intelligence and Machine Learning, offers robust tools for fraud detection and compliance monitoring, significantly enhancing the integrity of Islamic finance by rigorously analyzing transaction data for anomalies and ensuring adherence to Sharia laws and regulatory standards (Kılıç, 2023).

The increasing integration of AI within Islamic finance necessitates the development of comprehensive ethical frameworks to ensure responsible governance and to foster trust among stakeholders (Osman, 2023; Julis, 2024). These frameworks should encompass guidelines for data privacy, algorithmic transparency, and accountability to mitigate potential biases and ethical challenges arising from AI applications (Tabaghdehi & Arda, 2025). Strengthening data protection laws and incorporating green AI principles are also critical to address environmental concerns and safeguard user rights in Malaysia's rapidly evolving digital economy (Hairi, 2025). This is particularly pertinent given the significant opportunities for innovation and growth presented by the convergence of AI and business in Malaysia (Julis, 2024). Addressing these multifaceted challenges requires a collaborative effort involving government agencies, industry leaders, and civil society to cultivate an ethical, inclusive, and sustainable financial ecosystem (Hairi, 2024).

Financial firms must therefore implement robust cybersecurity protocols to protect sensitive customer and financial information, thereby fostering confidence within the digital financial landscape (Kanwal et al., 2023). Moreover, fostering collaboration among regulatory bodies across different jurisdictions is essential to establish harmonized standards for Islamic digital financial products and services, ensuring consistent Sharia compliance and market stability. Such harmonization would facilitate cross-border transactions and investments, fostering a more interconnected and resilient global Islamic finance ecosystem. This concerted effort would also address critical issues such as data concentration with global tech giants and labor market disruptions, promoting a more equitable distribution of technological benefits (Hairi, 2024).

Regulatory Challenges for Islamic Digital Economy

The rapid evolution of technology, particularly in Artificial Intelligence, poses considerable challenges for traditional regulatory frameworks, necessitating the adoption of more agile and adaptive oversight mechanisms (Oyewole et al., 2024). These difficulties are further compounded within the Islamic digital economy due to the dual imperative of adhering to both Sharia principles and conventional financial regulations. Regulators face the complex task of ensuring Sharia compliance for rapidly advancing digital financial instruments, a challenge exacerbated by the absence of universally standardized interpretations and applications across various jurisdictions (Mulyana et al., 2024). This situation mandates the creation of dynamic regulatory frameworks that can not only keep pace with technological advancements but also consistently uphold Islamic principles across diverse legal and economic landscapes (Asyiqin, 2025).

Moreover, the integration of new technologies into Islamic finance requires a workforce proficient in both technology and Sharia principles, leading to significant recruitment and training hurdles for financial institutions (Dahlan et al., 2025). Addressing this requires substantial investment in educational programs and professional development initiatives designed to bridge the gap between technological expertise and Sharia scholarship, thereby cultivating a new generation of professionals equipped to navigate this intricate domain (Abdullah et al., 2024). Collaborative efforts among academic institutions, industry stakeholders, and regulatory bodies are crucial for developing curricula that meet these evolving demands and ensure a consistent supply of qualified experts.

Furthermore, establishing effective mechanisms for international regulatory cooperation is essential to resolve jurisdictional ambiguities and foster a cohesive global Sharia-compliant digital financial ecosystem (Iqbal & Kassim, 2024). Such proactive collaboration would facilitate the harmonization of regulatory standards, enabling seamless cross-border operations and mitigating risks associated with varied interpretations of Islamic economic law in the digital sphere (Rifqi Prasmanto et al., 2025). These efforts are vital for creating a unified regulatory environment that supports innovation while upholding the ethical and jurisprudential foundations of Islamic finance. Crucially, this regulatory evolution also involves developing robust frameworks for digital currencies and blockchain technology, acknowledging their transformative potential for Islamic finance while addressing unique Sharia compliance considerations (Aysan & Ünal, 2022).

This includes establishing clear guidelines for smart contracts, asset tokenization, and decentralized finance within an Islamic framework, ensuring their alignment with principles such as risk-sharing and the prohibition of interest (Hassan et al., 2022). Additionally, regulators must develop frameworks for ethical AI deployment in Islamic finance, addressing concerns related to data privacy, algorithmic bias, and transparency to maintain public trust and Sharia compliance (Osman, 2023). This intricate interplay highlights the urgent need for a unified global Sharia-compliant regulatory architecture capable of balancing innovation with ethical and jurisprudential integrity. Critically, the success of such an architecture depends on establishing regulatory sandboxes and bespoke rules for Islamic FinTech, which can foster innovation while strictly adhering to Islamic ethical standards (Kanwal et al., 2023). These controlled environments allow Islamic FinTech firms to test novel products and services, enabling regulators to adapt and refine supervisory frameworks with agility (Razak et al., 2020).

Such collaborative initiatives are vital for navigating the complexities of this evolving landscape and ensuring that regulatory frameworks remain agile and responsive to emerging technological paradigms (Kunhibava et al., 2024). Moreover, a collaborative approach between regulators and FinTech companies can foster innovation while simultaneously ensuring adherence to all regulatory standards, leading to the development of guidelines that are both progressive and consumer-protective (Oriji et al., 2023). This includes revising existing regulations, implementing consumer protection laws, and forming multi-stakeholder task forces to guide the Islamic FinTech sector (Ajouz & Abuamria, 2023). In this context, pilot regulatory environments are increasingly recognized as essential for testing financial products and services incorporating advanced technologies, free from the immediate burden of comprehensive laws and licenses, thereby fostering innovation in Islamic FinTech (Rahman et al., 2023).

These adaptive regulatory strategies are crucial for maximizing the potential of Islamic Financial Technologies, leveraging technological advancements to meet the specific needs of Islamic financing while upholding Sharia compliance (Kanwal et al., 2023). Furthermore, RegTech, which utilizes advanced technologies like AI and machine learning, offers a significant opportunity for Islamic FinTech to achieve regulatory compliance more efficiently and cost-effectively (Kılıç, 2023). By automating compliance processes and providing real-time monitoring, RegTech solutions can substantially reduce the operational burden on Islamic financial institutions, allowing them to concentrate on innovation and market expansion (Kılıç, 2023). The implementation of RegTech also enhances transparency and trust, which are critical for investors in the burgeoning e-gold market, by providing clear, real-time updates and investment audits (Pandey et al., 2025). This integration of RegTech solutions is essential for fostering a secure and trustworthy digital financial ecosystem, especially within the Islamic finance sector, where adherence to ethical and Sharia principles is paramount (Tabaghdehi & Arda, 2025). Indeed, regulatory technology solutions, such as those employing AI, play a crucial role in enabling continuous real-time monitoring of financial transactions, which is particularly vital for ensuring Sharia compliance at every stage of the transaction process (Kılıç, 2023).

Evolving Interpretations of Islamic Economic Law

This section delves into the dynamic nature of Islamic economic jurisprudence, examining how established principles are being re-evaluated and applied to contemporary digital financial innovations. The advent of digital finance necessitates a critical reassessment of traditional fatwas and legal rulings to ensure their relevance and applicability in areas such as cryptocurrency, decentralized finance, and tokenized assets (Kılıç, 2023). This re-evaluation aims to balance adherence to core Sharia principles with the pragmatic realities of technological advancement, fostering an environment where Islamic finance can innovate responsibly (Luthfi & Hati, 2025). This requires a robust mechanism for scholarly discourse and consensus-building among Sharia scholars to formulate new interpretations and guidelines relevant to digital financial products and services.

Furthermore, these evolving interpretations must consider the unique attributes of digital assets, such as their intangible nature and global accessibility, to ensure that new rulings effectively address novel challenges while preserving the ethical underpinnings of Islamic economic law. The emergence of FinTech platforms and digital innovations, such as crowdfunding and mobile applications, necessitates a careful examination of their

compatibility with Islamic finance, especially regarding ethical investment avenues and accessible Sharia-compliant banking services (Osman, 2023). This involves rigorous analysis of the underlying mechanisms of these technologies to ascertain their alignment with Islamic prohibitions on interest, excessive speculation, and unethical business practices. For instance, Islamic financial institutions are increasingly adopting AI virtual assistants to streamline transactions and eliminate risks like leverage, while AI-powered zakat distribution systems are being developed to accurately classify recipients (Hemmet, 2023).

Moreover, the increasing adoption of digital gold platforms among Muslim youth, particularly in regions like Jabodetabek, highlights the need for continuous Sharia compliance verification for such innovations, ensuring they adhere to regulations like Fatwa DSN MUI No. 77/2010 for non-cash transactions (Luthfi & Hati, 2025). This robust regulatory framework, coupled with Sharia-compliant digital gold platforms, offers an attractive alternative to conventional investment avenues, enhancing accessibility and asset management through mobile applications. These platforms represent a significant evolution from physical gold, which often presents logistical and liquidity challenges, by providing flexible investment strategies better suited to the preferences of tech-savvy generations like Gen Y and Gen Z (Luthfi & Hati, 2025). The integration of these platforms also serves to broaden financial inclusion by making Sharia-compliant investment opportunities more accessible to a wider demographic, aligning with broader ethical objectives (Osman, 2023).

To further enhance financial inclusion, these initiatives can be delivered through educational institutes, banks, and community centers, leveraging mobile applications and multilingual content for wider reach (Pandey et al., 2025). Additionally, the global expansion of Islamic finance, driven by ethical considerations and technological integration, underscores the critical role of innovative fintech solutions in widening customer bases and increasing accessibility to Sharia-compliant financial products (Osman, 2023). This expansion highlights the necessity for a globally harmonized regulatory framework that can accommodate both rapid technological innovation and the diverse interpretations of Sharia law across different jurisdictions. This harmonization is pivotal for fostering cross-border Islamic finance activities and facilitating the development of universally accepted Sharia standards for digital financial products (Abdullah et al., 2024).

Such a framework would also ensure that the rapid advancements in AI and blockchain technology are consistently applied within Islamic finance, enhancing efficiency, transparency, and ethical compliance across diverse markets (Hamadou et al., 2024; Kanwal et al., 2023). The synergy between Islamic fintech and sustainable investments, for example, is instrumental in combating environmental degradation and uplifting social welfare, thereby addressing societal inequities effectively (Osman, 2023). This convergence underscores a broader movement towards integrating ethical considerations into mainstream financial practices, leveraging technology to amplify positive social and environmental impacts in line with Islamic principles (Alif Auladi et al., 2025). This approach is particularly crucial in the digital age, where global interconnectivity demands a unified yet flexible regulatory stance to prevent regulatory arbitrage and foster legitimate innovation within the Sharia-compliant financial ecosystem.

This includes developing clear, supportive regulations for digital financial products to balance investor protection with innovation, fostering trust through transparent policies and real-time updates on investment platforms (Pandey et al., 2025). Moreover, educating stakeholders about the nuances of ethical financial practices within Islamic finance is crucial for widespread adoption and sustained growth of the industry (Osman, 2023). The increasing

confidence in Islamic finance, especially within the last decade, stems from its perceived trustworthiness and adherence to Sharia's strict rules for moral business practices and transparency, attracting new customers to Islamic Financial Technologies (Kanwal et al., 2023). This heightened trust, coupled with technological advancements, propels the industry toward greater financial inclusion by offering competitive and transparent alternatives to conventional financial services (Kanwal et al., 2023).

This growth is further bolstered by the ability of Islamic FinTech to surmount obstacles, continuously innovate, and foster cooperation among stakeholders, making it a significant player in the global financial landscape (Kılıç, 2023). The continued expansion of digital transformation within Islamic finance, driven by innovations like FinTech and blockchain, further strengthens its commitment to ethical and sustainable economic practices (Osman, 2023). This digital transformation has been instrumental in democratizing access to ethical financial products and ensuring transactional integrity, aligning with ESG principles (Osman, 2023). The ethical framework promoted by Islamic fintech cultivates a financial ecosystem that prioritizes the moral economy, thereby boosting inclusion and enhancing financial stability (Kılıç, 2023).

This approach is rooted in the intrinsic ethical values of Islamic finance, which naturally align with sustainable and responsible investment principles (Osman, 2023). These principles guide the development of innovative financial instruments that not only generate profit but also contribute positively to society and the environment, thereby fostering a holistic approach to wealth creation and distribution (Yaya et al., 2021). The integration of modern technologies, such as artificial intelligence and blockchain, into Islamic finance further enhances these ethical foundations, ensuring greater transparency, efficiency, and compliance with Sharia principles in the digital era (Abdullah et al., 2024). For instance, AI can be leveraged for sophisticated Sharia compliance audits, while blockchain can ensure immutable records for waqf and zakat distributions, thereby reinforcing trust and accountability within the Islamic financial ecosystem (Aysan & Ünal, 2022; Kanwal et al., 2023).

Towards a Global Regulatory Framework

The proliferation of Islamic FinTech, while promising for financial inclusion and ethical financing, introduces complexities that necessitate a coherent and globally applicable regulatory framework to mitigate risks such as cybercrime and fraud, while ensuring Sharia compliance across diverse jurisdictions (Mamun & Várallyai, 2025). This framework must effectively address the rapid pace of technological innovation, ensuring that regulatory guidelines remain agile enough to adapt to emerging FinTech solutions without stifling their development (Ajouz & Abuamria, 2023). Such a framework should also facilitate the development of ethical AI governance and regulated AI practices within Islamic finance, ensuring algorithmic fairness and responsible AI approaches to maintain trust and transparency in digital transactions (Tabaghdehi & Arda, 2025).

This includes fostering cross-border collaboration among regulatory bodies to harmonize standards and promote a unified understanding of Islamic economic law in the context of digital advancements (Tabaghdehi & Arda, 2025). The ultimate goal is to establish a robust regulatory architecture that supports the ethical and sustainable growth of Islamic finance in the digital age, thereby contributing to global financial stability and inclusion (Osman, 2023; Kılıç, 2023). Moreover, the establishment of such a framework would strengthen the Islamic financial sector's efforts to conform with international regulations

while upholding its core principles, fostering continued innovation and development (Kadi, 2023). It also supports the integration of RegTech solutions to streamline compliance processes and enhance supervisory oversight within the burgeoning Islamic FinTech landscape (Kılıç, 2023).

These regulatory technology solutions play a crucial role in enabling the continuous monitoring of financial transactions in real-time, which is particularly important for adhering to Sharia standards at every stage of a transaction (Kılıç, 2023). Furthermore, blockchain-based solutions offer an automated approach to reinforce Sharia supervisory boards and internal audit systems, ensuring heightened credibility and operational integrity (Aysan & Ünal, 2022). This ensures that financial activities are not only transparent and traceable but also consistently aligned with ethical and Islamic legal requirements, thereby bolstering investor confidence and fostering sustainable growth within the sector. The increasing global interconnectedness, driven by digital transformation, highlights the urgent need for a coordinated international approach to Islamic finance regulation to prevent regulatory arbitrage and ensure consistent Sharia compliance across different jurisdictions (Nawaz et al., 2023).

This harmonized global regulatory environment would facilitate the seamless cross-border operation of Islamic financial institutions and FinTech entities, fostering innovation and competition while upholding ethical standards (Kanwal et al., 2023). This global architecture would also address the unique challenges posed by unregulated AI, fostering digital trust through clear guidelines that align technological advancements with societal values and ethical norms (Tabaghdehi & Arda, 2025). Such comprehensive global frameworks, advocated by international bodies, are essential for ensuring an equitable distribution of AI's benefits and mitigating the concentration of technological power in developed regions. However, a significant challenge remains in harmonizing diverse interpretations of Sharia principles and regional regulations to create standardized guidelines that enhance transparency, market integration, and investor confidence (Yunus et al., 2024; Bingöl & Er, 2025).

This necessitates a nuanced approach to global regulatory cooperation that respects jurisprudential diversity while establishing common foundational principles for Sharia compliance in the digital realm. The integration of emerging technologies like blockchain and artificial intelligence presents both opportunities and challenges for establishing such a framework, necessitating careful consideration of their impact on regulatory clarity, technical expertise, and infrastructure development (Aisah et al., 2025). The development of robust international standards and compliance mechanisms for AI governance, potentially through an International AI Organization, is critical for certifying Sharia compliance and ensuring equitable access to technological advancements. This global approach would not only mitigate regulatory fragmentation but also foster a more inclusive and resilient Islamic finance ecosystem capable of addressing contemporary global financial challenges (Bingöl & Er, 2025).

Such an organization could play a pivotal role in establishing unified benchmarks for AI ethics and Sharia compliance, thereby facilitating broader adoption and reducing regulatory uncertainties. This would also involve developing mechanisms for cross-border recognition of Sharia certifications, further streamlining the global operational landscape for Islamic financial institutions (Bhuiyan et al., 2020). Moreover, a globally harmonized regulatory architecture could leverage RegTech to automate compliance checks, thereby increasing efficiency and reducing operational costs for Islamic financial institutions operating across diverse markets (Ajouz & Abuamria, 2023). This integration would also

enable real-time Sharia compliance monitoring, enhancing transparency and accountability in Islamic finance transactions (Mbaidin et al., 2023).

Furthermore, this integrated approach would foster the adoption of artificial intelligence and advanced analytics to improve classification accuracy and automate compliance checks, ensuring dynamic risk management in Sukuk investment strategies (Ramadan et al., 2025). This would allow for more rigorous oversight of Sharia-compliant financial products, particularly in areas like accounting practices where AI can enhance the accuracy of compliance methods (Shalhoob & Babiker, 2025). These technological advancements, coupled with robust governance frameworks, can significantly bolster the integrity and ethical positioning of Islamic finance within the global digital economy (Zafar & Ali, 2025). This necessitates a proactive stance from policymakers and institutions like AAOIFI and IFAC to collaboratively develop consensus-driven solutions that address both faith-based financial imperatives and the need for global reporting uniformity (Ramadan et al., 2025).

This collaborative effort would ultimately lead to a more coherent and adaptable global Sharia-compliant regulatory architecture, capable of navigating the complexities introduced by rapid technological innovation and evolving market dynamics. Such a framework would also incorporate the principles of sustainability and ethical investment, aligning Islamic finance with global initiatives such as the Sustainable Development Goals and responsible investment practices (Khan, 2019). This comprehensive strategy, integrating Islamic finance with digital innovation and ethical evaluations, effectively tackles global challenges, particularly through instruments like green Sukuk and collaborative efforts for SDG achievement (Osman, 2023). These instruments exemplify the growing recognition of Islamic finance's potential to drive both financial performance and positive societal impact, aligning with the increasing global emphasis on Environmental, Social, and Governance standards (Al-Mashhadani & Almashhadani, 2023).

The successful implementation of such initiatives, including Green Sukuk, highlights the importance of facilitative regulatory environments and guidance from international standard-setters like AAOIFI and IFSB to address cross-border challenges (Busari & Aminu, 2021; Osman, 2023). This comprehensive approach will ensure that Islamic finance, including its digital manifestations, contributes meaningfully to sustainable development and ethical global economic practices (Osman, 2023; Maulidizen 2019). This aligns with the burgeoning interest in Environmental, Social, and Governance criteria within corporate governance, where Islamic Sukuk naturally embody these elements through their Sharia-compliant foundations, linking corporate performance to sustainability (Al-Mashhadani & Almashhadani, 2023). Consequently, the integration of Sukuk issuance into a firm's financing strategy not only enhances its ESG performance but also improves its reputation, credibility, and access to funding, contributing to stronger corporate governance and overall firm value (Al-Mashhadani & Almashhadani, 2023).

Impact of Technology on Sharia Principles

The digital transformation introduces novel complexities, necessitating a re-evaluation of traditional Sharia principles to ensure their applicability and relevance in contemporary financial instruments and practices (Markom, 2018). This includes scrutinizing whether existing fatwas adequately address the nuances of blockchain-based assets, smart contracts, and AI-driven financial advisory services, which often operate in decentralized and autonomous environments. This re-evaluation must consider the inherent ethical and moral

dimensions embedded within Islamic economic law, ensuring that technological advancements do not inadvertently lead to practices that contravene the spirit of Sharia (Judijanto et al., 2025).

Furthermore, the integration of Industry 4.0 technologies, such as blockchain and AI, within Islamic financial operations demands a careful assessment to uphold Sharia compliance in areas like supply chain traceability and eco-friendly manufacturing (Neger et al., 2025; Rochim et al., 2025). These technologies offer unprecedented opportunities to enhance transparency and accountability within Islamic finance, aligning with its foundational principles of ethical conduct and social responsibility (Osman, 2023; Ismail et al., 2024). Specifically, the moral and environmentally friendly nature of Sukuk issuance can attract a diverse investor base, thereby enhancing a firm's reputation, credibility, and access to financing, while also promoting transparency through mandated reporting of underlying assets and fund utilization, consistent with ESG principles (Al-Mashhadani & Almashhadani, 2023). This inherent alignment with ESG principles is further reinforced by Islamic banking's prohibition of investments in activities deemed harmful, such as those associated with alcohol, gambling, and environmentally destructive practices, thereby strengthening the link between Islamic finance and broader sustainability objectives (Al-Mashhadani & Almashhadani, 2023).

The convergence of these ethical frameworks with technological advancements, particularly AI, can significantly improve the accuracy and speed of Sharia compliance verification, transforming financial reporting and operational transparency in Islamic institutions (Mbaidin et al., 2023). This can be achieved by leveraging AI and machine learning to analyze vast datasets for real-time compliance checks, fraud detection, and risk assessment, thereby enhancing the efficiency and integrity of Islamic financial products and services (Kılıç, 2023). However, this integration also raises significant ethical concerns regarding data privacy, algorithmic bias, and the potential for AI to undermine human autonomy and accountability within Sharia-compliant frameworks (Tabaghdehi & Arda, 2025; Mohamad et al., 2024).

Therefore, developing robust ethical guidelines and regulatory oversight for AI in Islamic finance becomes paramount to mitigate these risks and ensure that technological progress serves to uphold, rather than compromise, Sharia principles (Nur Ihsan et al., 2024). This critical reassessment must also explore how AI can be deployed to accurately distribute Zakat and ensure Rizq-Al-Halal, aligning technological innovation with core Islamic economic objectives (Hemmet, 2023; Maulidizen et al., 2018). This underscores the necessity for comprehensive research into how AI systems can be developed and implemented in a manner that respects Islamic ethical principles, particularly concerning fairness, transparency, and accountability, which are also central to Environmental, Social, and Governance frameworks (WANG et al., 2025). This holistic approach ensures that the transformative potential of AI is harnessed responsibly, reinforcing the ethical foundations of Islamic finance while simultaneously contributing to broader sustainable development goals (Tabaghdehi & Arda, 2025; Osman, 2023; Julis, 2024).

Furthermore, the ethical integration of AI within Sharia-compliant frameworks can enhance financial literacy and inclusion, particularly in underserved communities, by tailoring financial products and educational content to individual needs while adhering to Islamic principles (Osman, 2023; At Thur Jasson Cassidy et al., 2024). This strategic deployment of AI aligns with the broader objectives of *Maqāṣid al-Sharīʿah*, focusing on safeguarding fundamental human interests by ensuring equitable access to financial resources

and knowledge (Kannike & Fahm, 2025). The use of AI in this context can also strengthen the integrity of Islamic finance by improving fraud detection and compliance measures, rigorously examining transaction data for anomalies, and automating monitoring processes to ensure adherence to complex Sharia laws and regulations (Kılıç, 2023; Syarof Azzaky et al., 2024).

This meticulous application of AI, however, necessitates ongoing vigilance regarding algorithmic bias and data privacy to prevent perpetuating or exacerbating existing inequalities within the Muslim community (Julis, 2024; Aufi et al., 2024). Therefore, developing AI governance standards grounded in Islamic law, emphasizing accountability, openness, and ethical AI, is crucial to ensure that AI applications align with Sharia principles and promote social responsibility and justice (Mbaidin et al., 2023; Hemmet, 2023). This proactive approach ensures that technological advancements, particularly generative AI, are seamlessly integrated into Islamic financial institutions in a manner that upholds Sharia principles, thereby mitigating risks associated with impermissible practices (Zafar & Ali, 2025). This necessitates a deep dive into the ethical implications of AI deployment, particularly in ensuring fairness, transparency, and accountability in its algorithms, echoing concerns raised in broader AI ethics discussions (Julis, 2024; Adeyelu et al., 2024).

Such a deep dive often involves advocating for independent agencies to oversee AI ethics, scrutinizing AI behavior for biases, and fostering universal ethical standards to prevent societal disparities (Tabaghdehi & Arda, 2025). This oversight is particularly vital for AI applications within Islamic finance, where the potential for algorithmic bias could inadvertently lead to non-compliance with Sharia principles or exacerbate socio-economic inequalities within Muslim communities (Kannike & Fahm, 2025; Tabaghdehi & Arda, 2025). For instance, if AI algorithms applied in banking or commerce do not strictly adhere to Islamic fairness and usury prohibitions, they risk contradicting core Sharia tenets (Hemmet, 2023). Consequently, establishing clear international standards for ethical AI is imperative to mitigate potential disparities in AI regulations and ensure the responsible design and deployment of these systems within Islamic finance (Tabaghdehi & Arda, 2025).

This calls for a circular model of AI governance that prioritizes transparency, accountability, and inclusivity to effectively bridge the gap between technological innovation and societal well-being (Tabaghdehi & Arda, 2025). This model should integrate divine trust and the three covenants into a robust framework for creating inclusive and actionable guidelines for AI, ensuring spiritual and cultural inclusivity (Ali et al., 2025). Furthermore, such a model would necessitate continuous reassessment and adaptation, acknowledging the dynamic nature of both technological advancement and jurisprudential interpretation within Islamic economic law (Zafar & Ali, 2025). This comprehensive approach ensures that the development and application of AI within Islamic finance not only adheres to established Sharia principles but also proactively addresses emerging ethical challenges posed by advanced technologies (Zafar & Ali, 2025; Ali et al., 2025).

CONCLUSION

This study demonstrates that the rapid expansion of digital finance—encompassing AI-driven systems, blockchain platforms, digital currencies, Islamic crowdfunding, and mobile-based Sharia financial products—requires a fundamental reassessment of Islamic economic law to ensure its continued relevance and global applicability. The analysis identifies a persistent fragmentation of Sharia interpretations, regulatory inconsistencies across jurisdictions, and

gaps in technological literacy, all of which impede the emergence of a unified global Islamic financial ecosystem. The research finds that Maqasid al-Shariah provides an essential guiding framework for balancing innovation, justice, transparency, and socio-economic welfare within digital environments. By incorporating ethical AI governance, RegTech solutions for real-time Sharia compliance, cross-border cooperation, and standardized digital asset regulation, Islamic finance can evolve towards a more resilient and future-ready architecture. The study concludes that a global Sharia-compliant regulatory framework is not only possible but urgently required to safeguard consumer protection, financial stability, and Sharia integrity in the digital age.

LIMITATIONS AND FUTURE RESEARCH RECOMMENDATIONS

This study is limited by its exclusive reliance on library-based analysis, which—although comprehensive in synthesizing classical jurisprudence, contemporary scholarship, and international Sharia regulatory standards—does not incorporate empirical validation from practitioners, regulators, fintech developers, or Sharia supervisory authorities. The absence of field data, cross-jurisdictional regulatory comparisons, and real-world case evaluations constrains the ability to measure how digital innovations such as AI-driven Sharia compliance tools, blockchain auditing mechanisms, and digital asset regulations actually operate within diverse Islamic financial ecosystems. As a result, the conceptual framework proposed in this study remains theoretical and requires further empirical grounding to evaluate its feasibility, scalability, and implementation challenges across different regulatory environments.

Future research should extend this conceptual foundation through empirical, comparative, and multidisciplinary investigations that test the operational viability of a global Sharia-compliant digital regulatory framework. Researchers are encouraged to conduct cross-country assessments of Islamic fintech regulations, evaluate AI governance models in Sharia supervisory processes, and explore blockchain-based Sharia auditing systems in real institutional settings. Interviews with regulators, Sharia scholars, technology developers, and industry stakeholders would provide practical insights into regulatory harmonization needs, barriers, and opportunities. Additionally, future studies should develop measurable indicators for digital-era Sharia compliance, design regulatory sandbox models tailored for Islamic fintech, and assess consumer trust and ethical risk perceptions to strengthen the integration of maqāṣid al-sharīʿah within digital governance structures.

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