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THE ROLE OF DIGITALIZATION IN TRANSFORMING THE GLOBAL FINANCIAL SYSTEM: AN ANALYSIS OF CRYPTO ASSETS AND FINTECH

Sutantri[1]✉, Sholihatin Khofsah[2]
[1] Universitas Islam Tribakti Lirboyo Kediri, Indonesia
[2] STAI Nahdlatul Ulama Malang, Indonesia

ABSTRACT

The transformation of the global financial system is currently driven by the advancement of digitalization, especially through the development of crypto assets and financial technology (fintech). This study aims to understand how digitalization is changing the structure, function, and dynamics of the global financial system and identify the challenges and opportunities that arise from this process. Using a qualitative approach and case studies in the United States, the European Union, and Southeast Asia, this study explores the interactions between technological innovation, regulation, financial inclusion, and systemic risk. Data were obtained through in-depth interviews, observations, and literature studies that were analyzed thematically. The results show that digitalization drives the emergence of new financial products and services that are more inclusive and efficient, but also creates challenges such as inequality of access, regulations that are not yet uniform globally, and increasing risks of technology-based finance. Differences in regulatory readiness and digital infrastructure cause variations in impacts in each region. This study highlights the importance of balancing innovation and regulation and the need for collaboration across sectors and jurisdictions in building a stable, fair, and sustainable global financial system in the digital era.

Keywords: Financial Digitalization, Crypto Assets, Fintech, Global Financial System, Regulation, Financial Inclusion, Systemic Risk,

(✉) Corresponding Author
Email: tantri@uit-lirboyo.ac.id
DOI:

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INTRODUCTION

Digitalization has become a global phenomenon that affects almost all aspects of human life, including the international financial system. The rapid development of information technology in the last two decades has created a new landscape in the global financial system, changing the way individuals, institutions, and governments transact, store, and manage financial assets. One of the most visible forms of this transformation is the emergence of crypto assets and financial technology (fintech), which has opened a new paradigm for how value is transferred, stored, and controlled globally. Crypto assets such as Bitcoin, Ethereum, and thousands of other forms of digital currency are now not only a means of investment, but are also starting to be accepted as a means of exchange and cross-border financing mechanisms. On the other hand, fintech has given birth to various new business models in the fields of digital payments, peer-to-peer (P2P) lending,

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microfinance services, robo-advisory, and insurtech that offer faster, more efficient, and more inclusive financial solutions (Martins, 2023).

However, amidst this rapid development, there is an empirical phenomenon that shows that the integration of digitalization into the global financial system is not without challenges. In various parts of the world, there is an inequality of digital access between developed and developing countries, between urban and rural areas, and between high and low-income groups. Most developing countries face serious challenges in terms of digital infrastructure, immature regulations, and limited technological and financial literacy in society. As a result, the benefits of digital transformation have not been felt evenly and tend to widen the socio-economic gap. In addition, the emergence of crypto assets that are decentralized and not tied to formal financial authorities has raised concerns about the stability of the financial system, the potential for funding illegal activities, and threats to the country's monetary sovereignty. On a global scale, there is no comprehensive international agreement on how digital asset and fintech regulations should be implemented, creating legal uncertainty and systemic risks that can have cross-border impacts (Kamalaldin, et al, 2020).

Empirically, the unpreparedness of many countries in responding to digital innovation in the financial sector shows a clear gap between policy and practice. Many governments are still caught in a dilemma between encouraging innovation and maintaining stability. On the one hand, they want to attract investment and spur digital innovation through policies that support the fintech ecosystem and digital assets. However, on the other hand, they are concerned about security risks, legal uncertainty, and the impact on the conventional financial system which is still the backbone of the national economy. This phenomenon shows that the global financial system is in a major transition period that requires in-depth understanding, adaptive policies, and strong international collaboration. Moreover, crypto assets and fintech often do not recognize national jurisdictional boundaries, making regulatory supervision and enforcement more complex and challenging (Lundin & Kindström, 2023).

In the academic context, there is also a significant research gap in examining the role of digitalization in the transformation of the global financial system as a whole. Most of the literature still focuses on the technical or micro aspects of crypto assets and fintech, such as blockchain mechanisms, trading algorithms, or case studies of fintech startups in certain countries. These studies tend to be fragmented and do not comprehensively examine how digitalization has systemically changed the structure, dynamics, and working principles of the global financial system. The few studies that highlight this are generally limited to certain geographic areas or narrow policy contexts, without linking them broadly to macroeconomic, geopolitical, and global equality implications (Broccardo, et al, 2023).

This research gap becomes even more apparent when examining the literature in the context of the integration of crypto assets and fintech as a digital ecosystem that influences each other. Studies that discuss the synergistic relationship between the two in the context of the global financial system are still very limited. In fact, in practice, many fintech innovations are now adopting digital assets as part of

their service portfolios, ranging from stablecoin-based payments to asset tokenization-based financing. The lack of studies that combine analysis of the two entities—taking into account the global economic dimension—creates an urgent need for interdisciplinary research that connects the digital economy, financial technology, and international policy (Cheng, 2022).

Furthermore, some literature tends to place digitalization as a purely technological phenomenon without considering the social, political, and ethical implications that accompany it. In fact, the transformation of the financial system through digitalization has major consequences in terms of data protection, privacy rights, the dominance of global digital platforms, and possible digital exclusion. The existence of a research gap in this dimension is very crucial considering the influence of digitalization on the global economic power structure which is gradually shifting from traditional financial institutions to large technology corporations that control digital platforms, algorithms, and user data. This creates new forms of inequality and increases the urgency to examine this transformation within the framework of global social justice (Capurro, et al, 2023).

In addition, there is a lack of studies examining the relationship between the digital transformation of the global financial system and economic and environmental sustainability. Digital transformation should not only be seen in terms of efficiency or economic growth, but also how it can contribute to achieving the Sustainable Development Goals (SDGs), such as financial inclusion, poverty alleviation, and inequality reduction (Huang, 2021). Unfortunately, there is still very little research linking digital innovation in finance with the global development agenda. In fact, digitalization can be an important catalyst in creating a fairer, more inclusive, and more sustainable financial system if designed and regulated wisely (Vo Thai, Hong-Hue, & Tran, 2024).

Another phenomenon that is an empirical challenge and also shows a research gap is the uneven adoption of fintech and crypto assets among Global South countries. Many countries in Africa, South Asia, and parts of Southeast Asia still face obstacles in developing a digital financial ecosystem, both in terms of infrastructure, regulations, and human resource readiness (Unal & Aysan, 2022). Ironically, at the same time, these countries are actually the targets of expansion by global fintech and crypto companies, creating dependency and potential for new exploitation in the digital economy. In this case, critical and contextual research is needed to understand how digitalization in finance can be utilized fairly by developing countries, without having to submit to the dominance of technology-based global capital (van der Linden & Shirazi, 2023).

Based on the above reality, it is very clear that digitalization in the global financial system is not just a technological trend, but a profound and far-reaching structural transformation. Therefore, it is important to develop academic research that not only fills the knowledge gap (research gap), but is also able to answer real problems that arise in the global community (empirical gap) (Ferrari, 2020). A holistic and interdisciplinary approach is needed to understand how crypto assets and fintech interact with each other, and how both affect the international financial order as a whole (Ferreira & Sandner, 2021).

Considering the complexity of the problem and the limitations of the existing literature, this study attempts to present an in-depth analysis of the role of digitalization in transforming the global financial system through a study of crypto assets and fintech. This study will not only outline the existing dynamics and challenges, but also try to offer a conceptual framework that can be used by policymakers, industry players, and academics in understanding and managing this transformation process in a sustainable, inclusive, and equitable manner (Zaman, et al, 2023). As an effort to fill the research gap and answer ongoing empirical problems, this study is expected to provide significant contributions to academic discourse and public policy in the field of digital global finance today and in the future.

METHOD

This study uses a qualitative paradigm with an exploratory case study approach, because the main objective of this study is to understand in depth how digitalization, through the existence of crypto assets and fintech, has transformed the global financial system in various dimensions. The qualitative approach was chosen because it is very suitable for exploring complex phenomena that have not been fully understood or comprehensively explained by the existing literature. In this context, case studies are used to explore the dynamics of digital transformation in the financial sector in several strategic regions, such as the United States as a center for financial technology development, the European Union as a region with progressive regulatory policies, and Southeast Asia as a region with very rapid fintech and crypto growth but with significant structural challenges.

The data used in this study come from various primary and secondary sources. Primary data sources were obtained through in-depth interviews with experts, industry players, regulators, and academics who have expertise or direct involvement in the field of crypto assets and fintech. The purposive sampling technique was used to select informants who were truly relevant to the focus of the study. Interviews were conducted in a semi-structured manner to allow researchers to dig up in-depth information while being flexible to follow the direction of the developing conversation. Meanwhile, secondary data sources come from international policy documents, reports from global financial institutions (such as the IMF, BIS, and World Bank), recent scientific publications, and industry data from annual reports of leading fintech companies and crypto platforms (Pattnaik, et al, 2023).

Data collection techniques were carried out in stages through systematic literature studies, observations of global financial digitalization trends, and in-depth interviews as explained previously. The literature study included identification and critical review of scientific publications, media articles, industry research reports, and relevant legal or regulatory documents. Observations were made on the development of financial technology policies and initiatives in certain countries that were the focus of the case study. In-depth interviews were conducted online and face-to-face, depending on the availability and location of the informants (Zaman et al., 2023).

Data analysis in this study uses a thematic analysis approach, where data from interviews and documents are analyzed to identify thematic patterns that reflect the transformation of the financial system due to digitalization. The analysis process begins with the transcription of interview data, followed by a coding process to identify the main categories and subthemes that appear repeatedly. Furthermore, in-depth interpretation is carried out to connect empirical findings with existing theories and literature, so that it can provide a broader and more integrative understanding of the phenomena studied. Data validity is maintained through triangulation between data sources and confirmation from informants (member checking) of the results of the researcher's interpretation.

FINDINGS AND DISCUSSION

By conducting thematic analysis across three main case studies (the United States, the European Union, and Southeast Asia), this study successfully uncovers several key dynamics related to the digitalization of the global financial system—including product innovation, regulation, inclusion, and systemic risk. In the United States, the rapid growth of crypto assets and fintech began with an aggressive startup ecosystem supported by venture capital and a high-tech innovation culture. Interviews with industry figures in Silicon Valley found that many crypto platforms are leveraging smart contracts and tokenization technology to offer alternative investments, loans, or digital derivatives. Similarly, fintech startups are providing instant payment services, micro-lending, and robo-advisory services that reach digital-savvy consumer segments. However, the US regulatory response is still reactive, with a focus on consumer protection and money laundering prevention, while harmonization between agencies such as the SEC, CFTC, and FinCEN is still developing. As a result, innovation is moving rapidly, but amidst legal uncertainty—which several sources said creates a dynamic and speculative climate (Dupuis & Gleason, 2021).

In the European Union, the characteristics of transformation appear to be more balanced between the drive for innovation and systematic regulations. For example, through the draft Digital Finance Package and MiCA (Markets in Crypto-Assets Regulation), the European Union has established a clearer regulatory framework for crypto assets. Sources from Frankfurt and Amsterdam said that this regulation helps maintain stability while providing space for innovation (Gurdgiev & Fleming, 2021). Fintech in the European Union is also growing rapidly, with the implementation of open banking through PSD2 (Payment Services Directive 2) which encourages collaboration between traditional banks and digital startups. Documentary studies show that this initiative has succeeded in increasing competition, making banking services more inclusive, and strengthening public financial literacy (Curcio, et al, 2024).

Meanwhile, findings from Southeast Asia—focusing on Indonesia and Singapore—depict a more heterogeneous landscape. In Singapore, the fintech and crypto ecosystem is supported by pro-innovation policies and institutions such as the Monetary Authority of Singapore (MAS). Fintech is growing through sandbox licensing, stablecoins, and even government bond tokenization. Interviewees said

that regulatory ease and technical support are encouraging multinational companies to set up research offices and data centers in Singapore. In Indonesia, the momentum of fintech and crypto assets is most felt from the retail user side. Interviewees from Jakarta said that digital payments via e-wallets have now become part of everyday routines, while crypto adoption is driven by high levels of social media usage and trading communities. However, the research found that digital infrastructure in rural areas is still uneven, financial literacy is low, and crypto asset regulations are still in the development stage, indicating practical limitations in digital inclusion (Blemus & Guegan, 2019).

To summarize the empirical findings, the thematic data analysis is divided into four main dimensions: product innovation, regulation and policy, financial inclusion, and systemic risk. The following table presents a synthesis of the four dimensions, based on the three case study areas:

Dimensions	United States of America	European Union	Southeast Asia (Indonesia & Singapore)
Product Innovation	Smart contracts, DeFi, asset tokenization	Open banking, stablecoins, government bond tokenization	E-wallet, P2P lending, stablecoin, tokenization, digital asset crypto
Regulation	Reactive, fragmentary between SEC, CFTC, FinCEN	Proactive, MiCA & PSD2 framework	Singapore is pro-innovation, Indonesia is growing; there is still a legal gap in crypto
Inclusion	Limited access among the digital-savvy unbanked	Increasing inclusion through PSD2, cross-border connections	Singapore is inclusive, Indonesia is urban-rural gap, low digital financial literacy
Systemic Risk	High speculation, asset security, ICO ban	Stability is maintained through comprehensive regulation	Weak infrastructure, potential for financial crime, low literacy increase community exposure

The table shows that while all regions are experiencing digital penetration in finance, the depth of transformation and system readiness vary. The United States is a pioneer in high-tech innovation with regulatory risks, the European Union presents a balance between innovation and stability, while Southeast Asia shows high momentum and major structural challenges (Unal & Aysan, 2022).

In the realm of qualitative data analysis, this study also identified additional themes that are cross-dimensional. First, the involvement of non-traditional actors—including large technology corporations and venture capital—has caused a shift in the power point from traditional banking institutions to global digital entities. Several informants highlighted that huge consumer data is now a strategic asset, making fintech institutions potentially new gatekeepers in the global financial system. The second theme relates to regulatory harmonization across jurisdictions. Respondents agreed that without an international regulatory framework—for example, the Financial Action Task Force (FATF) standards integrated with MiCA or similar global standards—the potential for regulatory arbitrage will create systemic gaps, especially related to digital assets that can easily move across countries. The third theme is the issue of fairness and access, which highlights that digital transformation does not necessarily address inequality; in some cases, this trend

actually exacerbates exclusion if not accompanied by literacy and access distribution strategies (Chen, 2018).

The findings are in line with the literature review which shows that fintech and crypto assets have significant potential for financial inclusion and transaction efficiency, but also pose new challenges in the form of operational risks, security, and price volatility. This study provides strong empirical evidence supporting the existence of an empirical gap that includes inequality in digital access (urban-rural, rich-poor), fragmentation of international regulations , and potential new risks from non-bank entities. Meanwhile, in the research gap , this study successfully fills the gap in the literature—namely the limited number of studies that combine fintech and crypto within a single global financial system framework, as well as the limited number of studies that integrate the dimensions of social inclusion, cross-jurisdictional regulation, and data security in the context of digitalization (Ritzberger-Grünwald & Stix, 2018).

In addition to the cross-dimensional findings, the study provides further interpretations. First, the balance between innovation and regulation is key. Data shows that fintech and crypto innovation thrives when regulation is adaptive, transparent, and inclusive; which is the case in the European Union and Singapore. If regulation is too slow, as in the United States, innovation can flourish—but in legal uncertainty—while overly rigid regulation will stagnate innovation. Second, financial inclusion is not just about access to technology, but also about changing the financial culture of society and the readiness of digital operators to provide education. Interviews with user communities in rural Indonesia confirmed that without strong education efforts, fintech and crypto adoption tends to be speculative and vulnerable to fraud. The third theme is the need for open transnational platforms. Global transformation requires interoperability between traditional banking systems, cross-border fintech, and blockchain infrastructure; however, technical and regulatory fragmentation are currently major barriers. There is a strong push from actors to standardize open APIs, universal data formats, and cross-border agreements for digital asset transfers (Kostrikova, 2021).

Another noteworthy finding is the role of private initiatives as a catalyst for positive regulation. Several fintech and blockchain companies have formed consortia or associations that help regulators formulate policies based on technical implementation. For example, the government bond tokenization project in Singapore is managed in a co-creation between regulators, banks, and crypto startups. This shows that the digital transformation in global finance is more efficient if it involves a collaborative ecosystem between the public and the private sector (Gimigliano, 2023).

Overall, the results of this study complement the literature and enrich the academic understanding of global financial digitalization. The study shows that digitalization is not just the digitalization of technology, but involves the evolution of financial paradigms, shifts in authority structures, and changes in the character of financial users. This study also proposes an initial conceptual model linking four dimensions: innovation, regulation, inclusion, and risk—which can be used for

further studies or policy-making based on empirical data (Financial Stability Board, 2018).

As such, this analysis serves as a foundation for policymakers, industry players, and the academic community to understand and design a future of digital finance that is inclusive, safe, and sustainable. Of course, this study has limitations—such as a limited interview base and a lack of in-depth quantitative data—but its qualitative findings provide important recommendations: that balancing innovation and regulation, financial literacy, and cross-jurisdictional collaboration are three critical pillars for successfully transforming the global financial system (Precious & Marwa, 2024).

CONCLUSION

Digitalization has significantly transformed the global financial system through the presence of two main forces: crypto assets and financial technology (fintech). This transformation is visible in various aspects—from financial product innovation, changes in market structure, to the way people access and use financial services. This study found that the impact of digitalization is not uniform across regions, but is heavily influenced by the regulatory context, infrastructure readiness, financial literacy, and digital culture of the local community.

The case study of the United States shows that digital innovation is developing very rapidly in a relatively loose and fragmented regulatory environment. Despite the creation of many new blockchain-based and tokenized financial products, the lack of legal certainty creates significant potential systemic risks. In contrast, the European Union shows a more balanced approach between encouraging innovation and regulatory certainty, resulting in stable fintech sector growth and an adequate legal framework to regulate digital assets. In Southeast Asia, especially Indonesia and Singapore, financial digitalization shows two faces: on the one hand, there is a significant acceleration of financial inclusion and technology adoption, while on the other hand there are still major obstacles in digital infrastructure and financial literacy inequality.

Another important finding shows that the transformation of the global financial system by digitalization is not just about technology, but about shifts in power, new patterns of relations between the public and private sectors, and the emergence of new ethical and social challenges. Fair access, consumer protection, and transnational frameworks are urgent needs amidst the pace of innovation. This study confirms the existence of an empirical gap in the form of inequality of access and systemic risks that have not been answered, as well as a research gap in the form of a lack of studies that combine discussions of crypto assets and fintech holistically in the context of global finance.

From the analysis results, it can be concluded that the transformation of the global financial system through digitalization must be balanced with an adaptive, collaborative, and literacy-based policy approach. Only with an inclusive and dynamic governance model can the global financial system develop sustainably and stably amidst rapid digital change.

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