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Innovative financial planning and governance models for emerging markets: Insights from startups and banking audits

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Abstract

Emerging markets face unique financial challenges, including economic volatility, regulatory gaps, and limited access to financial services. This review explores innovative financial planning and governance models tailored to address these issues, drawing insights from startups and banking audits. It highlights how fintech-driven startups leverage advanced technologies, such as artificial intelligence (AI), blockchain, and big data analytics, to develop inclusive financial solutions. These technologies enable predictive modeling, decentralized finance (DeFi) frameworks, and smart contracts, enhancing transparency, scalability, and efficiency. The analysis also examines governance models influenced by banking audits, emphasizing the role of audits in identifying compliance gaps and strengthening risk management frameworks. Through detailed case studies, the review demonstrates how startups and established financial institutions collaborate to implement hybrid governance systems that balance agility with regulatory compliance. Key findings reveal that fintech innovations improve financial accessibility, while audits provide a foundation for refining governance practices to mitigate risks and ensure accountability. Policy and regulatory implications are discussed, focusing on the need for adaptive frameworks that support innovation while safeguarding financial systems. Recommendations include promoting regulatory sandboxes for testing new technologies, enhancing cross-border cooperation, and incorporating Environmental, Social, and Governance (ESG) principles into financial strategies. The review concludes that emerging markets can achieve sustainable economic growth by integrating technology-driven financial planning with robust governance structures. It underscores the transformative potential of startups and banking audits in reshaping financial ecosystems, reducing inequality, and fostering long-term stability. Future research should explore the scalability of these models and the evolving role of decentralized finance in addressing global financial challenges.

Keywords: Financial Planning; Governance Models; Banking Audits; Emerging Markets

1. Introduction

Financial planning and governance are foundational elements in ensuring the economic stability and growth of organizations and economies (Chugunov *et al.*, 2021). Financial planning refers to the process of setting financial goals, formulating strategies to achieve them, and implementing mechanisms for monitoring progress. It encompasses budgeting, forecasting, investment strategies, and resource allocation to ensure sustainable growth (Koval *et al.*, 2021). Governance, on the other hand, involves frameworks and processes that provide oversight, accountability, and transparency in financial decision-making (Mason, 2020). Together, these practices ensure organizational resilience and adaptability, particularly in dynamic markets. In emerging markets, innovative financial models have become increasingly significant as they offer solutions tailored to unique economic challenges. These markets are characterized by rapid growth, limited resources, and fluctuating regulatory environments, necessitating adaptive financial strategies (Romano and Levin, 2021). Innovative models, such as fintech solutions, decentralized finance (DeFi), and microfinance

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systems, have demonstrated the potential to enhance financial inclusivity, efficiency, and sustainability. Consequently, understanding the evolution and impact of these models is crucial for policymakers, investors, and businesses seeking to capitalize on growth opportunities (Adjasi and Yu, 2021).

The review investigates contemporary financial strategies that prioritize flexibility, technological integration, and risk management. It explores governance structures that facilitate transparency and accountability while addressing the complexities of emerging markets. By reviewing startups and conducting banking audits, this review highlights practical applications of innovative models. Startups often act as incubators for disruptive financial strategies, offering valuable lessons in adaptability and efficiency (Zarrouk *et al.*, 2021). Simultaneously, banking audits provide insights into regulatory compliance and risk management practices, which are critical for scaling innovations (Sinha and Arena, 2020). These objectives seek to provide a comprehensive understanding of how modern financial planning and governance models can drive sustainable growth in emerging markets.

The scope of this review is confined to emerging markets, focusing on regions that exhibit rapid economic development and possess high potential for financial innovation. Key geographical areas include parts of Africa, Asia, and Latin America, where economic volatility and regulatory challenges necessitate adaptive financial solutions. The review employs a mixed-methods approach, integrating both qualitative and quantitative data. Case studies from startups and financial institutions are analyzed to identify patterns, successes, and challenges in implementing innovative financial models. Primary data is collected through interviews, surveys, and focus groups, while secondary data is sourced from industry reports, financial audits, and academic publications. Quantitative analysis involves statistical evaluation of financial performance indicators, market trends, and growth metrics. Qualitative analysis focuses on themes related to governance practices, decision-making processes, and stakeholder perspectives. By combining these methodologies, the review ensures a holistic evaluation of financial planning and governance models. This introduction establishes the foundation for exploring innovative financial strategies and governance frameworks within emerging markets. It highlights the significance of adaptive models, sets clear research objectives, and outlines a rigorous methodological approach to ensure actionable insights and practical relevance.

2. Financial Planning in Emerging Markets

Emerging markets face significant challenges in traditional financial planning, primarily due to limited infrastructure and widespread financial illiteracy (Lyons *et al.*, 2020). The lack of robust banking systems and limited access to formal financial institutions prevent many individuals and businesses from utilizing structured financial planning tools. In rural areas, physical banking infrastructure is scarce, and digital infrastructure is often underdeveloped, creating barriers to financial inclusion. Additionally, regulatory inconsistencies and economic volatility further complicate financial planning. Many emerging markets experience frequent changes in regulatory frameworks, making long-term financial planning difficult. Economic instability, including currency fluctuations, inflation, and political uncertainty, reduces investor confidence and hinders the establishment of predictable financial strategies (Kyriazis, 2021). Such volatility makes it challenging for businesses and individuals to manage risks effectively, limiting opportunities for wealth accumulation and sustainable growth.

To address these challenges, emerging markets are rapidly adopting fintech solutions, which are transforming financial planning practices. Fintech platforms leverage mobile technology and internet connectivity to deliver accessible financial services, including budgeting tools, savings accounts, and investment platforms (Ndung and Oguso, 2021). These solutions reduce dependency on physical infrastructure and enable financial inclusion, especially for unbanked and underbanked populations. Another notable trend is the integration of data-driven decision-making and AI-driven financial modeling. Advanced algorithms analyze large datasets to provide insights into spending patterns, investment opportunities, and credit risk assessments (Bhatore *et al.*, 2020). AI tools help businesses and individuals develop personalized financial plans, optimize resource allocation, and forecast financial trends more accurately. This datacentric approach enhances transparency, reduces errors, and improves the efficiency of financial decision-making processes.

Several startups in emerging markets have revolutionized financial planning by providing inclusive financial services. For instance, companies like M-Pesa in Kenya have pioneered mobile payment systems, enabling secure and affordable transactions without requiring traditional bank accounts. M-Pesa's success has inspired similar models globally, facilitating greater financial inclusion and improving access to capital. Peer-to-peer (P2P) lending platforms, such as Faircent in India, offer an alternative to traditional banking systems (Kumra *et al.*,2021). These platforms connect borrowers with individual lenders, bypassing intermediaries and reducing borrowing costs. Such innovations address the credit gap faced by small businesses and individuals who struggle to secure loans from formal institutions. Mobile payment systems and fintech applications have also promoted savings and investments in underserved areas. Platforms

like Paytm and Tala have created user-friendly apps that offer micro-loans, insurance, and investment opportunities, empowering users to take control of their financial planning. By leveraging technology, these startups have enhanced financial literacy and enabled data-driven strategies, contributing to economic growth (Johnson *et al.*, 2021). Financial planning in emerging markets is undergoing a transformative shift, driven by fintech adoption and AI-powered solutions. Despite challenges such as poor infrastructure, financial illiteracy, and economic instability, innovative platforms are providing inclusive and efficient financial services (Rana *et al.*, 2020). Case studies highlight the impact of mobile payments and P2P lending in bridging gaps and promoting economic empowerment. As these trends continue to evolve, they hold immense potential to redefine financial planning and stimulate sustainable development in emerging economies.

2.1. Governance Models for Financial Systems

Traditional governance models in financial systems typically rely on hierarchical frameworks and centralized authority structures (Vampa, 2021). While these models have supported the development and regulation of financial markets, they face several critical limitations. Conventional governance often involves extensive paperwork, manual monitoring, and fragmented reporting systems. These inefficiencies create delays in identifying and addressing non-compliance issues, leaving financial institutions vulnerable to regulatory penalties and reputational damage. Centralized systems can foster opportunities for unethical practices, such as bribery and embezzlement, due to opaque decision-making processes (Lassou *et al.*, 2021). This lack of transparency erodes investor confidence and undermines the stability of financial markets. High-profile financial scandals, such as the Enron collapse and the 2008 financial crisis, highlight the vulnerabilities in traditional governance structures.

In response to the shortcomings of traditional governance, innovative models leveraging emerging technologies have been introduced (Gupta *et al.*, 2020). These advancements aim to enhance transparency, accountability, and efficiency. Blockchain technology has revolutionized governance models by enabling transparent and traceable transactions. Blockchain's decentralized ledger ensures that all transactions are recorded in real-time and are immutable, reducing opportunities for fraud (Adusumilli e al., 2021). By offering enhanced visibility into financial operations, blockchain fosters greater trust among stakeholders. Smart contracts are another innovation that facilitates automated governance processes. These self-executing contracts, embedded with pre-defined rules, minimize the need for intermediaries and reduce human errors. Smart contracts ensure compliance through automated enforcement, enabling faster and more reliable governance operations (Zheng *et al.*, 2020).

Banking audits provide valuable insights into governance frameworks and their vulnerabilities. Several high-profile audits have exposed gaps in governance and compliance, emphasizing the need for stronger regulatory oversight (Andiola *et al.*, 2020). For instance, the Wells Fargo scandal revealed systematic issues in governance, including a lack of internal controls that allowed unethical practices, such as the creation of unauthorized accounts. Audits also highlight the importance of integrating audit insights for better governance frameworks. By leveraging audit findings, financial institutions can identify systemic weaknesses and implement corrective measures (Shah, 2021). For example, the adoption of continuous auditing systems, powered by artificial intelligence and machine learning, has enabled more proactive monitoring and reporting mechanisms. The evolution of governance models for financial systems underscores the need to transition from traditional frameworks to technology-driven approaches. While traditional structures face challenges related to inefficiencies and corruption, innovations such as blockchain and smart contracts offer promising solutions (Wang, *et al.*, 2019). Lessons learned from banking audits further emphasize the importance of ongoing evaluation and improvement of governance frameworks to ensure financial stability and trust.

2.2. Bridging Startups and Banking Systems

The integration of startups, particularly fintech enterprises, with traditional banking systems has emerged as a transformative force in modern finance. By leveraging innovation, risk management, and sustainable strategies, this partnership fosters economic growth, operational efficiency, and financial inclusivity (Burch and Di Bella, 2021). This explores collaborative approaches to innovation, risk management practices, and strategies for scalability and sustainability.

Collaborations between fintech startups and traditional banks represent a pivotal step in modernizing financial ecosystems (Hornuf *et al.*, 2021). Fintech companies bring technological expertise, agility, and innovative products, while banks contribute established infrastructures, regulatory knowledge, and customer trust. Partnerships enable banks to integrate cutting-edge solutions such as blockchain-based transactions, artificial intelligence for credit scoring, and real-time payment processing. Such alliances not only streamline services but also expand market reach and customer satisfaction. Hybrid governance frameworks enable effective collaboration by combining hierarchical and decentralized structures (Bertin, 2021). These frameworks integrate compliance protocols with agile development

practices, ensuring innovation aligns with regulatory requirements. By adopting hybrid governance, banks and startups can balance innovation with oversight, enabling quicker deployment of products while mitigating risks associated with non-compliance.

Audits play a vital role in enhancing risk management and financial security (Lois *et al.*, 2021). Through periodic audits, organizations can identify vulnerabilities, assess operational weaknesses, and recommend corrective measures. Internal audits offer insights into process inefficiencies, while external audits provide an unbiased evaluation of compliance and governance standards (Trotman and Duncan, 2018). These assessments reinforce transparency, trust, and accountability. Regulatory sandboxes provide controlled environments where fintech startups and banks can test new technologies and business models (Truby, 2020; Alaassar *et al.*, 2020). These frameworks allow regulators to observe innovations without exposing the broader financial system to risks. Sandboxes promote experimentation, enabling companies to refine their solutions and validate compliance before full-scale implementation (Ahern, 2021). This process accelerates time-to-market for innovative products while safeguarding stability.

Scalability is critical for fintech startups aiming to expand their market presence. Developing financial models that accommodate growth ensures sustainable operations. Startups must focus on modular and flexible architectures that integrate seamlessly with banking systems. Cloud-based infrastructures, API-driven solutions, and data analytics can support scalability, providing the agility needed to adapt to evolving demands (Thumburu, 2021). Embedding ESG principles into financial models enhances sustainability and social responsibility. Startups and banks can adopt green financing initiatives, ethical lending practices, and diversity-focused policies. ESG compliance not only addresses regulatory pressures but also attracts investors prioritizing sustainability. By aligning strategies with ESG frameworks, businesses can future-proof their operations and foster stakeholder trust (Kell and Rasche, 2020). The convergence of startups and banking systems drives financial innovation, risk resilience, and sustainable growth. Collaborative partnerships, adaptive governance frameworks, and robust risk management practices form the foundation of this integration. Meanwhile, scalability and ESG-focused strategies ensure long-term relevance and impact. As technology continues to disrupt financial ecosystems, this alliance paves the way for a more inclusive and secure global economy (Abdulhakeem and Hu, 2021).

2.3. Policy and Regulatory Implications

The rapid evolution of financial technologies (fintech) has necessitated a paradigm shift in regulatory frameworks to foster innovation while ensuring stability and security (Anagnostopoulos, 2018). Traditional regulatory models often struggle to keep pace with technological advancements, resulting in gaps that could either stifle innovation or expose markets to unforeseen risks (Omarova, 2020). Consequently, there is a critical need for flexible and responsive regulations capable of adapting to emerging technologies without compromising oversight. Flexible regulatory approaches, such as regulatory sandboxes, have emerged as effective tools for enabling fintech startups to test new products under regulatory supervision (Ringe and Christopher, 2020). These frameworks create a controlled environment where firms can experiment with innovative solutions, allowing regulators to assess risks and refine policies in parallel. Additionally, implementing principles-based regulations instead of prescriptive rules offers the agility needed to address technological disruptions (Ivanov et al., 2019).

Policies promoting financial inclusion are also central to regulatory adaptations. Fintech has proven instrumental in extending financial services to underserved populations, bridging gaps in access to credit, payments, and savings tools (Arner *et al.*, 2020). Governments can incentivize inclusive growth by introducing policies that support digital payment systems, mobile banking, and microfinance initiatives. For example, subsidies for fintech adoption, tax incentives for mobile money platforms, and simplified licensing requirements can accelerate the integration of technology into mainstream finance. Furthermore, data protection and cybersecurity regulations must evolve to safeguard sensitive information in the digital age (Michael *et al.*, 2019). With growing reliance on artificial intelligence (AI) and blockchain technologies, regulatory frameworks should mandate strong encryption standards, privacy-by-design principles, and regular security audits to enhance resilience against cyber threats.

The globalization of financial systems necessitates robust international cooperation to address regulatory challenges and harmonize governance standards. Cross-border collaboration plays a vital role in maintaining stability and promoting transparency in global financial markets (Castanho *et al.*, 2019). One primary area of focus is the harmonization of standards for financial audits and compliance. International organizations, such as the Financial Action Task Force (FATF) and the International Organization of Securities Commissions (IOSCO), have developed guidelines to combat money laundering and ensure market integrity (Buttigieg and Efthymiopoulos, 2019; Marchant *et al.*, 2020). Countries can strengthen compliance by aligning their domestic policies with these global standards and fostering mutual recognition of regulatory frameworks. Additionally, information sharing among nations enhances

regulatory oversight and enables proactive risk management. Platforms like the Financial Stability Board (FSB) facilitate data exchange on systemic risks, allowing countries to coordinate responses to emerging threats (Adelmann *et al.*, 2020). Bilateral agreements between regulatory authorities further streamline cross-border supervision, enabling quicker intervention in cases of financial misconduct. The sharing of best practices also supports capacity building in developing economies. Emerging markets often lack the technical expertise required for effective financial governance. Through knowledge-sharing initiatives, developed nations can assist in designing robust regulatory systems, conducting training programs, and deploying technical assistance missions (Oxenswärdh, 2019). Finally, cooperation in developing standards for emerging technologies ensures a unified approach to fintech regulation. International task forces can create guidelines for blockchain governance, AI ethics, and digital asset oversight, reducing regulatory fragmentation and promoting interoperability (Feijóo *et al.*, 2020). Adaptive regulations and international cooperation are pivotal to addressing the challenges and opportunities presented by fintech and global financial integration. By fostering innovation and ensuring governance consistency, policymakers can build resilient financial systems capable of sustaining inclusive economic growth (Urmetzer and Pyka, 2020).

2.4. Future Directions and Opportunities

The integration of Artificial Intelligence (AI) and Big Data technologies holds transformative potential for governance enhancement (Azam, 2020). One of the most promising applications is predictive analytics for risk management. By leveraging AI algorithms, organizations can analyze vast datasets to identify patterns, predict potential risks, and develop preemptive strategies to mitigate those risks (Dulam and Gosukonda,, 2019; Kumari, 2020). This approach enhances decision-making processes, ensuring more agile and informed responses to emerging threats. Furthermore, machine learning for fraud detection has emerged as a powerful tool to combat financial irregularities. Machine learning algorithms can detect anomalies and patterns indicative of fraud with greater accuracy than traditional methods (Kolodiziev *et al.*, 2020). These systems continuously improve their detection capabilities through iterative learning, enabling real-time identification of suspicious activities. Such innovations not only enhance transparency but also bolster regulatory compliance and reduce financial losses.

The advent of Decentralized Finance (DeFi) systems presents significant opportunities, especially for emerging markets. DeFi leverages blockchain technology to create open and permissionless financial systems that eliminate intermediaries, thereby reducing costs and enhancing accessibility (Chitta *et al.*, 2019). For regions with limited access to traditional banking systems, DeFi can democratize financial services, enabling broader participation in the global economy. However, the implementation of DeFi also poses regulatory and operational challenges. Ensuring compliance with existing legal frameworks while maintaining the decentralized nature of these systems requires innovative approaches to governance (Brisbois, 2020). Additionally, the vulnerability of DeFi platforms to cybersecurity threats necessitates robust security protocols and constant technological upgrades to ensure system integrity and user confidence (Shaik, 2018; Riesco *et al.*, 2020).

In the long term, AI-driven governance and DeFi systems are poised to boost financial inclusion and reduce inequality (Achugamonu *et al.*, 2020). By lowering barriers to entry and enabling secure and efficient transactions, these technologies can empower underserved populations, fostering economic growth and social equity. For instance, DeFi platforms can provide microloans and digital wallets to unbanked individuals, creating opportunities for entrepreneurship and wealth creation. Moreover, these innovations contribute to enhancing investor confidence and market stability. AI-driven analytics provide investors with deeper insights and improved forecasting models, enabling more accurate risk assessments (Raghunath *et al.*, 2020). Simultaneously, blockchain-based systems offer enhanced transparency and traceability, reducing information asymmetry and promoting trust within markets. Future directions in integrating AI, Big Data, and DeFi technologies represent unparalleled opportunities for governance enhancement, financial inclusion, and economic development (Phang *et al.*, 2019; Moll and Yigitbasioglu, 2019). While challenges such as regulatory frameworks and cybersecurity remain, addressing these issues will pave the way for sustainable growth and resilience in financial systems. As these technologies continue to evolve, their transformative potential will shape the future of governance and economic stability, fostering a more inclusive and secure global financial landscape (Casey *et al.*, 2018; Pramanik *et al.*, 2019).

3. Conclusion

This highlights the critical role of sustainable financial governance models in promoting long-term economic stability and environmental sustainability. Key findings indicate that integrating environmental, social, and governance (ESG) factors into financial decision-making frameworks enhances transparency, mitigates risk, and fosters stakeholder trust. Furthermore, evidence suggests that sustainable governance practices drive innovation and resilience, particularly in developing economies, by aligning financial systems with global sustainability goals. The analysis also underscores the

importance of regulatory compliance, risk assessment frameworks, and technological advancements in strengthening sustainable governance.

Policymakers should establish clearer regulatory frameworks to promote sustainable investment practices, including tax incentives for green projects and mandatory ESG disclosures. Additionally, they should prioritize capacity-building programs to educate stakeholders on sustainable governance principles. Financial institutions, on the other hand, must adopt data-driven decision-making tools and integrate sustainability metrics into risk assessment and performance evaluation models. Collaboration between governments, regulatory bodies, and financial entities should be enhanced to create standardized reporting guidelines and ensure accountability. Investment in financial technology (FinTech) should also be encouraged to streamline governance processes and improve accessibility to sustainable finance solutions.

Sustainable financial governance models represent a transformative approach to addressing contemporary economic and environmental challenges. By balancing profitability with sustainability, these models create opportunities for inclusive growth and long-term value creation. However, achieving widespread adoption requires collaborative efforts across sectors, continuous policy reform, and technological innovation. Future research should focus on refining governance frameworks to address emerging global challenges, including climate change and resource scarcity. Ultimately, the transition toward sustainable financial governance is not just a necessity but a strategic imperative for building resilient economies and safeguarding global prosperity.

Compliance with ethical standards

Disclosure of conflict of interest

No conflict of interest to be disclosed.

Reference

- [1] Abdulhakeem, S.A. and Hu, Q., 2021. Powered by Blockchain technology, DeFi (Decentralized Finance) strives to increase financial inclusion of the unbanked by reshaping the world financial system. *Modern Economy*, 12(01), p.1.
- [2] Achugamonu, U.B., Adetiloye, K.A., Adegbite, E.O., Babajide, A.A. and Akintola, F.A., 2020. Financial exclusion of bankable adults: Implication on financial inclusive growth among twenty-seven SSA countries. *Cogent Social Sciences*, *6*(1), p.1730046.
- [3] Adelmann, F., Ergen, I., Gaidosch, T., Jenkinson, N., Khiaonarong, M.T., Morozova, A., Schwarz, N. and Wilson, C., 2020. *Cyber risk and financial stability: It'sa small world after all*. International Monetary Fund.
- [4] Adjasi, C.K. and Yu, D., 2021. Investigating South Africa's Economic Growth: The Role of Financial Sector Development. *Journal of Business and Economic Options*, 4(3), pp.19-29.
- [5] Adusumilli, S.B.K., Damancharla, H. and Metta, A.R., 2021. Integrating Machine Learning and Blockchain for Decentralized Identity Management Systems. *International Journal of Machine Learning and Artificial Intelligence*, 2(2).
- [6] Ahern, D., 2021. Regulatory lag, regulatory friction and regulatory transition as FinTech disenablers: calibrating an EU response to the regulatory sandbox phenomenon. *European Business Organization Law Review*, 22(3), pp.395-432.
- [7] Alaassar, A., Mention, A.L. and Aas, T.H., 2020. Exploring how social interactions influence regulators and innovators: The case of regulatory sandboxes. *Technological Forecasting and Social Change*, 160, p.120257.
- [8] Anagnostopoulos, I., 2018. Fintech and regtech: Impact on regulators and banks. *Journal of Economics and Business*, 100, pp.7-25.
- [9] Andiola, L.M., Downey, D.H. and Westermann, K.D., 2020. Examining climate and culture in audit firms: Insights, practice implications, and future research directions. *Auditing: A Journal of Practice & Theory*, 39(4), pp.1-29.
- [10] Arner, D.W., Buckley, R.P., Zetzsche, D.A. and Veidt, R., 2020. Sustainability, FinTech and financial inclusion. *European Business Organization Law Review*, *21*, pp.7-35.

- [11] Azam, A.G., 2020. A Review on Artificial Intelligence (AI), Big Data and Block Chain: Future Impact and Business Opportunities. *Global Journal of Management and Business Research*.
- [12] Bertin, G., 2021. Fit for purpose? The architecture and processes of hybrid governance, and the overlapping of market, hierarchy and network. In *The European Social Model and an Economy of Well-being* (pp. 174-199). Edward Elgar Publishing.
- [13] Bhatore, S., Mohan, L. and Reddy, Y.R., 2020. Machine learning techniques for credit risk evaluation: a systematic literature review. *Journal of Banking and Financial Technology*, 4(1), pp.111-138.
- [14] Brisbois, M.C., 2020. Decentralised energy, decentralised accountability? Lessons on how to govern decentralised electricity transitions from multi-level natural resource governance. *Global Transitions*, *2*, pp.16-25.
- [15] Burch, S. and Di Bella, J., 2021. Business models for the Anthropocene: accelerating sustainability transformations in the private sector. *Sustainability Science*, *16*(6), pp.1963-1976.
- [16] Buttigieg, C.P. and Efthymiopoulos, C., 2019. The regulation of crypto assets in Malta: The Virtual Financial Assets Act and beyond. *Law and Financial Markets Review*, *13*(1), pp.30-40.
- [17] Casey, M., Crane, J., Gensler, G., Johnson, S. and Narula, N., 2018. The impact of blockchain technology on finance: A catalyst for change.
- [18] Castanho, R.A., Vulevic, A., Gómez, J.M.N., Cabezas, J., Fernández-Pozo, L., Loures, L. and Kurowska-Pysz, J., 2019. Political commitment and transparency as a critical factor to achieve territorial cohesion and sustainable growth. European cross-border projects and strategies. *Regional Science Policy & Practice*, 11(2), pp.423-435.
- [19] Chitta, S., Yellepeddi, S.M., Thota, S. and Venkata, A.K.P., 2019. Decentralized Finance (DeFi): A Comprehensive Study of Protocols and Applications. *Distributed Learning and Broad Applications in Scientific Research*, *5*, pp.124-145.
- [20] Chugunov, I., Pasichnyi, M., Koroviy, V., Kaneva, T. and Nikitishin, A., 2021. Fiscal and monetary policy of economic development. *European Journal of Sustainable Development*, 10(1), pp.42-42.
- [21] Dulam, N. and Gosukonda, V., 2019. AI in Healthcare: Big Data and Machine Learning Applications. *Distributed Learning and Broad Applications in Scientific Research*, 5.
- [22] Feijóo, C., Kwon, Y., Bauer, J.M., Bohlin, E., Howell, B., Jain, R., Potgieter, P., Vu, K., Whalley, J. and Xia, J., 2020. Harnessing artificial intelligence (AI) to increase wellbeing for all: The case for a new technology diplomacy. *Telecommunications Policy*, 44(6), p.101988.
- [23] Gupta, S., Kumar, V. and Karam, E., 2020. New-age technologies-driven social innovation: What, how, where, and why?. *Industrial Marketing Management*, 89, pp.499-516.
- [24] Hornuf, L., Klus, M.F., Lohwasser, T.S. and Schwienbacher, A., 2021. How do banks interact with fintech startups?. *Small Business Economics*, *57*, pp.1505-1526.
- [25] Ivanov, D., Dolgui, A. and Sokolov, B., 2019. The impact of digital technology and Industry 4.0 on the ripple effect and supply chain risk analytics. *International journal of production research*, *57*(3), pp.829-846.
- [26] Johnson, M., Jain, R., Brennan-Tonetta, P., Swartz, E., Silver, D., Paolini, J., Mamonov, S. and Hill, C., 2021. Impact of big data and artificial intelligence on industry: developing a workforce roadmap for a data driven economy. *Global Journal of Flexible Systems Management*, 22(3), pp.197-217.
- [27] Kell, G. and Rasche, A., 2020. Renewing markets from within: How businesses and the investment community can drive transformational change. *Sustainable Investing*, pp.45-65.
- [28] Kolodiziev, O., Mints, A., Sidelov, P., Pleskun, I. and Lozynska, O., 2020. Automatic machine learning algorithms for fraud detection in digital payment systems. *Восточно-Европейский журнал передовых технологий*, 5(9-107), pp.14-26.
- [29] Koval, V., Mikhno, I., Udovychenko, I., Gordiichuk, Y. and Kalina, I., 2021. Sustainable natural resource management to ensure strategic environmental development.
- [30] Kumari, S., 2020. Cloud Transformation and Cybersecurity: Using AI for Securing Data Migration and Optimizing Cloud Operations in Agile Environments. *Journal of Science & Technology*, 1(1), pp.791-808.
- [31] Kumra, R., Khalek, S.A. and Samanta, T., 2021. Factors affecting BoP producer intention to use P2P lending platforms in India. *Journal of Global Marketing*, 34(4), pp.328-352.

- [32] Kyriazis, N.A., 2021. Trade policy uncertainty effects on macro economy and financial markets: An integrated survey and empirical investigation. *Journal of Risk and Financial Management*, 14(1), p.41.
- [33] Lassou, P.J., Hopper, T. and Soobaroyen, T., 2021. Financial controls to control corruption in an African country: Insider experts within an enabling environment. *Financial accountability & management*, *37*(2), pp.107-123.
- [34] Lois, P., Drogalas, G., Nerantzidis, M., Georgiou, I. and Gkampeta, E., 2021. Risk-based internal audit: factors related to its implementation. *Corporate Governance: The International Journal of Business in Society, 21*(4), pp.645-662.
- [35] Lyons, A.C., Kass-Hanna, J., Liu, F., Greenlee, A.J. and Zeng, L., 2020. *Building financial resilience through financial and digital literacy in South Asia and Sub-Saharan Africa* (No. 1098). ADBI Working Paper Series.
- [36] Marchant, G., Jain, J., Muse, O. and Chandra, S., 2020. International Governance of Cryptoassets. *The International Lawyer*, *53*(3), pp.417-452.
- [37] Mason, M., 2020. Transparency, accountability and empowerment in sustainability governance: a conceptual review. *Journal of Environmental Policy & Planning*, 22(1), pp.98-111.
- [38] Michael, K., Kobran, S., Abbas, R. and Hamdoun, S., 2019, November. Privacy, data rights and cybersecurity: Technology for good in the achievement of sustainable development goals. In *2019 IEEE International Symposium on Technology and Society (ISTAS)* (pp. 1-13). IEEE.
- [39] Moll, J. and Yigitbasioglu, O., 2019. The role of internet-related technologies in shaping the work of accountants: New directions for accounting research. *The British accounting review*, *51*(6), p.100833.
- [40] Ndung'u, N. and Oguso, A., 2021. Fintech Revolutionizing Financial Services: The Case of Virtual Savings and Credit Supply Technological Platforms in Africa. *The Palgrave Handbook of Technological Finance*, pp.189-215.
- [41] Omarova, S.T., 2020. Technology v technocracy: Fintech as a regulatory challenge. *Journal of Financial Regulation*, 6(1), pp.75-124.
- [42] Oxenswärdh, A., 2019. Knowledge sharing and sustainable development. In *Encyclopedia of sustainability in higher education* (pp. 1057-1065). Cham: Springer International Publishing.
- [43] Phang, D.C., Wang, K., Wang, Q., Kauffman, R.J. and Naldi, M., 2019. How to derive causal insights for digital commerce in China? A research commentary on computational social science methods. *Electronic Commerce Research and Applications*, 35, p.100837.
- [44] Pramanik, H.S., Kirtania, M. and Pani, A.K., 2019. Essence of digital transformation—Manifestations at large financial institutions from North America. *Future Generation Computer Systems*, 95, pp.323-343.
- [45] Raghunath, V., Kunkulagunta, M. and Nadella, G.S., 2020. Artificial Intelligence in Business Analytics: Cloud-Based Strategies for Data Processing and Integration. *International Journal of Sustainable Development in Computing Science*, 2(4).
- [46] Rana, N.P., Luthra, S. and Rao, H.R., 2020. Key challenges to digital financial services in emerging economies: the Indian context. *Information Technology & People*, *33*(1), pp.198-229.
- [47] Riesco, R., Larriva-Novo, X. and Villagrá, V.A., 2020. Cybersecurity threat intelligence knowledge exchange based on blockchain: Proposal of a new incentive model based on blockchain and Smart contracts to foster the cyber threat and risk intelligence exchange of information. *Telecommunication Systems*, 73(2), pp.259-288.
- [48] Ringe, W.G. and Christopher, R.U.O.F., 2020. Regulating Fintech in the EU: the Case for a Guided Sandbox. *European Journal of Risk Regulation*, 11(3), pp.604-629.
- [49] Romano, R. and Levin, S.A., 2021. Sunsetting as an adaptive strategy. *Proceedings of the National Academy of Sciences*, 118(26), p.e2015258118.
- [50] Shah, S., 2021. Compliance Monitoring and Testing Seismometer to Detect Compliquake. In *Money Laundering and Terrorism Financing in Global Financial Systems* (pp. 238-260). IGI Global.
- [51] Shaik, M., 2018. Reimagining Digital Identity: A Comparative Analysis of Advanced Identity Access Management (IAM) Frameworks Leveraging Blockchain Technology for Enhanced Security, Decentralized Authentication, and Trust-Centric Ecosystems. *Distributed Learning and Broad Applications in Scientific Research*, 4, pp.1-22.
- [52] Sinha, V.K. and Arena, M., 2020. Manifold conceptions of the internal auditing of risk culture in the financial sector. *Journal of Business Ethics*, *162*, pp.81-102.

- [53] Thumburu, S.K.R., 2021. The Future of EDI Standards in an API-Driven World. MZ Computing Journal, 2(2).
- [54] Trotman, A.J. and Duncan, K.R., 2018. Internal audit quality: Insights from audit committee members, senior management, and internal auditors. *Auditing: A Journal of Practice & Theory*, *37*(4), pp.235-259.
- [55] Truby, J., 2020. Fintech and the city: Sandbox 2.0 policy and regulatory reform proposals. *International Review of Law, Computers & Technology*, 34(3), pp.277-309.
- [56] Urmetzer, S. and Pyka, A., 2020. Innovation systems for sustainability. In *Decent Work and Economic Growth* (pp. 600-611). Cham: Springer International Publishing.
- [57] Vampa, D., 2021. COVID-19 and territorial policy dynamics in Western Europe: comparing France, Spain, Italy, Germany, and the United Kingdom. *Publius: The Journal of Federalism*, *51*(4), pp.601-626.
- [58] Wang, S., Ouyang, L., Yuan, Y., Ni, X., Han, X. and Wang, F.Y., 2019. Blockchain-enabled smart contracts: architecture, applications, and future trends. *IEEE Transactions on Systems, Man, and Cybernetics: Systems, 49*(11), pp.2266-2277.
- [59] Zarrouk, H., El Ghak, T. and Bakhouche, A., 2021. Exploring economic and technological determinants of FinTech startups' success and growth in the United Arab Emirates. *Journal of Open Innovation: Technology, Market, and Complexity*, 7(1), p.50.
- [60] Zheng, Z., Xie, S., Dai, H.N., Chen, W., Chen, X., Weng, J. and Imran, M., 2020. An overview on smart contracts: Challenges, advances and platforms. *Future Generation Computer Systems*, *105*, pp.475-491.