Navigating the Nexus of Finance and Technology: Unveiling the Synergy between Digital Transformation and Fintech.

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Abstract: The intersection of Digital Transformation and Fintech represents a profound revolution in the financial industry, merging technology and finance to reshape traditional practices and services. This article explores the transformative power of this convergence, highlighting its impact on financial domains, customer experiences, collaborative innovation, and the evolving role of finance professionals. It delves into the challenges posed by regulatory compliance and security concerns while emphasizing the importance of maintaining a delicate equilibrium between innovation and regulatory adherence. Emerging trends, such as blockchain and quantum computing, are examined for their potential to further revolutionize financial services. Through real-world examples, the article underscores the success of collaborations between established financial institutions and Fintech startups in driving innovative solutions. Ultimately, the article concludes by emphasizing the dynamic and ongoing nature of this transformation, highlighting the imperative of continuous adaptation to navigate the evolving digital financial landscape.

Keywords: Finance, Technology, Digital Transformation, Fintech, Intersection, Synergy

1. Introduction

The financial landscape is undergoing a profound metamorphosis as the realms of technology and finance converge, giving rise to the dynamic synergy of Digital Transformation and Fintech. This fusion is revolutionizing traditional financial practices, redefining customer experiences, and paving the way for innovative business models. As the digital age continues to unfold, this article delves into the intricate interplay between Digital Transformation and Fintech, unraveling their implications for the financial sector.

In an era where technology is reshaping industries, the financial domain stands at the forefront of this transformation. Digital Transformation, characterized by the integration of cutting-edge technologies into operational processes, has permeated all facets of the financial sector (Westerman et al., 2011). Simultaneously, the emergence of Financial Technology, or Fintech, has catalyzed a wave of disruption by leveraging technology to devise novel solutions for traditional financial services (Schueffel, 2016). At the nexus of these trends lies a nexus of innovation and disruption that reshapes how financial services are conceived, delivered, and experienced.

The aim of this study is to comprehensively examine the intersection of Digital Transformation and Fintech within the financial industry and elucidate the transformative impact this convergence has on traditional financial practices. By delving into key dimensions and real-world implications, this article aims to provide readers with a nuanced understanding of how technology is reshaping the financial landscape.

The intersection of Digital Transformation and Fintech is of paramount significance in revolutionizing the financial industry. This convergence of technology and finance is reshaping traditional practices, unlocking novel opportunities, and enhancing customer experiences. Several scholars and industry experts have recognized the transformative impact of this intersection, as highlighted by the below.

1.1 Enhanced Customer Experience: The convergence of Digital Transformation and Fintech has led to a customer-centric revolution in the financial industry. According to a report by Deloitte, this intersection "presents financial institutions with opportunities to create customer experiences that are frictionless, personalized, and secure" (Deloitte, 2020). The seamless integration of digital tools and Fintech solutions has elevated customer expectations, driving financial institutions to prioritize convenience and tailor services to individual preferences.

1.2 Innovation in Financial Products and Services: The intersection has spurred innovation in financial product offerings. In their study, Schueffel (2016) highlights that Fintech innovations are disrupting traditional financial services by introducing "alternative models for payments, loans, and financial advice." This innovation has not only diversified the financial landscape but also provided customers with more choices and solutions that cater to their evolving needs.

1.3 Efficiency and Cost Reduction: The combined impact of Digital Transformation and Fintech on operational efficiency and cost reduction is substantial. A report by PwC (2018) emphasizes that automation and digitization through Fintech can lead to "significant

reductions in operating costs and improvements in efficiency." These efficiency gains allow financial institutions to allocate resources more effectively and provide services with higher speed and accuracy.

1.4 Data-Driven Decision Making: The intersection has unlocked the potential of data-driven decision making in finance. A research paper by Westerman et al. (2011) underscores that leveraging data analytics and AI technologies can enhance risk management, fraud detection, and customer insights. The combination of Digital Transformation's data capabilities and Fintech's analytical tools empowers financial institutions to make informed decisions based on real-time data.

1.5 Disruption of Traditional Business Models: The convergence challenges traditional financial business models. The World Economic Forum's report (2017) points out that Fintech disruptors "have the potential to change the basis of competition in financial services." This disruption encourages established financial institutions to innovate and adapt to remain competitive in a rapidly evolving landscape.

1.6 Globalization and Cross-Border Transactions: The intersection of Digital Transformation and Fintech has facilitated global financial connectivity. The International Monetary Fund (IMF) notes that blockchain technology, as a subset of Fintech, has the potential to "improve cross-border payments" and enhance financial inclusion (IMF, 2020). This technology-driven globalization contributes to a more interconnected and accessible financial world.

The intersection of Digital Transformation and Fintech is a pivotal force revolutionizing the financial industry. It's reshaping customer interactions, spurring innovation, improving efficiency, and challenging established norms. This convergence is not merely a technological advancement; it's a fundamental shift that propels the financial sector into a new era of customer-centricity and digitized operations.

2 Digital Transformation in Finance

The integration of digital technology into the financial sector, known as Digital Transformation, has fundamentally altered how financial services are provided, consumed, and optimized. This section delves into the key aspects and drivers of Digital Transformation in finance, supported by relevant references.

2.1 Definition and Relevance: Digital Transformation entails the comprehensive adoption of digital technologies to reimagine business processes, customer interactions, and value creation within the financial sector. It encompasses technologies such as artificial intelligence (AI), data analytics, cloud computing, and mobile applications, all of which collectively reshape traditional financial operations (Westerman et al., 2011).

2.2 Technological Drivers: The surge of digital technology has been instrumental in driving Digital Transformation within the financial industry. Cloud computing enables scalable infrastructure and data storage, fostering agility in service provision (Cecere & Kim, 2012). AI and machine learning algorithms facilitate data analysis, risk assessment, fraud detection, and predictive modeling (Chen et al., 2012). These technological advancements have laid the foundation for enhanced customer experiences, personalized services, and data-driven decision making.

2.3 Benefits of Digital Transformation: Digital Transformation offers several benefits to financial institutions:

2.3.1 Operational Efficiency: Automated processes and streamlined workflows lead to reduced operational costs and increased efficiency (PwC, 2018).

2.3.2 Customer-Centricity: Digital channels enable 24/7 access to services, personalized interactions, and tailored offerings (Deloitte, 2020).

2.3.3 Innovation: The integration of technology allows for the creation of new financial products and services (Schueffel, 2016).

2.3.4 Data Insights: Data analytics provide insights into customer behaviors, enabling precise targeting and risk assessment (Westerman et al., 2011).

3 Financial Technology (Fintech)

Fintech, an abbreviation of Financial Technology, represents a dynamic amalgamation of finance and technology that has transformed traditional financial practices. This section elucidates the essence of Fintech, its manifestations across distinct financial domains, and showcases pivotal examples of disruptive Fintech innovations. Additionally, it delves into the instrumental role of Fintech startups in propelling innovation within the industry.

3.1 Definition and Scope: Fintech encapsulates an array of technology-driven innovations that reimagine financial processes and services. Its scope spans multiple financial domains:

International Journal of Academic Accounting, Finance & Management Research(IJAAFMR) ISSN: 2643-976X Vol. 7 Issue 9, September - 2023, Pages: 9-15

3.2 Payments: Fintech reshapes payments through digital wallets like PayPal and mobile payment solutions such as Apple Pay (Deloitte, 2020).

3.3 Lending: Peer-to-peer lending platforms like LendingClub and Prosper leverage technology to match borrowers directly with lenders, circumventing traditional intermediaries (Schueffel, 2016).

3.4 Insurance: Insurtech firms like Lemonade utilize data analytics and AI to streamline insurance claims and automate underwriting (PwC, 2017).

3.5 Investment and Wealth Management: Robo-advisors such as Betterment and Wealthfront offer algorithm-driven investment strategies, challenging traditional advisory models (Beck et al., 2014).

3.6 Blockchain and Cryptocurrencies: Fintech's scope extends to blockchain technology, the foundation of cryptocurrencies like Bitcoin, which enables secure and transparent transactions (World Economic Forum, 2016).

3.7 Disruptive Fintech Innovations: Fintech innovations have disrupted conventional financial services by redefining accessibility, efficiency, and user experience:

3.8 Mobile Payment Solutions: PayPal, a pioneer in mobile payments, facilitated secure online transactions, diminishing the need for physical currency (Deloitte, 2020).

3.9 Cryptocurrencies: Bitcoin, a decentralized digital currency, challenged traditional notions of currency and payment systems (Beck et al., 2014).

3.10 Peer-to-Peer Lending: LendingClub revolutionized lending by connecting individual lenders and borrowers, circumventing traditional banks (Schueffel, 2016).

3.11 Robo-Advisors: Betterment's robo-advisory platform disrupted wealth management by offering cost-effective, automated investment advice (PwC, 2017).

3.12 Role of Fintech Startups: Fintech startups are catalysts for innovation within the financial sector, contributing to its evolution in several key ways:

3.13 Identification of Market Gaps: Startups identify unmet needs in the financial market and develop tailored solutions to address them (Sundararajan, 2017).

3.14 Disruption of Traditional Models: Through novel approaches, startups challenge traditional financial models, promoting more efficient and customer-centric alternatives (KPMG, 2021).

3.15 Emphasis on Customer-Centricity: Fintech startups prioritize user experience and customization, fostering more personalized financial services (PwC, 2017).

3.16 Collaboration and Ecosystem Building: Fintech startups often collaborate with established financial institutions, infusing technological advancements into traditional operations (World Economic Forum, 2016).

4.0 Research Methodology

This study content has been synthesized through an extensive review of academic literature, industry reports, and reputable sources spanning the fields of Digital Transformation, Fintech, finance, and technology. The methodology involves the following steps:

4.1 Literature Review: A comprehensive search was conducted in academic databases, industry publications, and scholarly journals to gather relevant information on Digital Transformation, Fintech, and their convergence.

4.2 Source Selection: Peer-reviewed articles, reports from reputable organizations such as Deloitte, PwC, KPMG, and the World Economic Forum, as well as books authored by experts in the field, were selected as primary sources of information.

4.3 Content Synthesis: Key concepts, definitions, impacts, challenges, opportunities, and trends were distilled from the selected sources. These were then synthesized to create coherent and well-structured sections for the article.

4.4 Case Studies and Examples: Real-world case studies and examples of successful collaborations, emerging technologies, and innovative solutions were integrated to illustrate the practical application of concepts discussed.

4.5 Referencing: In-text citations were strategically incorporated to provide proper attribution to the sources and to enable readers to access additional information if desired.

4.6 Quality Assurance: The study content was reviewed to ensure accuracy, consistency, and adherence to the topic, maintaining the highest standards of integrity in presenting information.

The methodology employed ensures that the content is well-informed, evidence-based, and reflective of the current state and trends at the intersection of Digital Transformation and Fintech in the finance industry.

5.0 Convergence of Digital Transformation and Fintech: Transforming the Financial Landscape

The intersection of Digital Transformation and Fintech marks a pivotal juncture where technology and finance converge to reshape the financial landscape. This section discussed how these two forces intertwine to revolutionize finance, focusing on the enhancement of customer experiences and the amplification of data-driven insights for smarter Fintech solutions.

5.0.1 Reshaping Customer Experiences: The convergence of Digital Transformation and Fintech has profoundly transformed how customers interact with financial services. Digital channels have become the cornerstone of customer engagement, enabling seamless access to banking, payments, and investments. Mobile banking apps offer real-time transaction updates and secure access to accounts, enhancing convenience and accessibility (Deloitte, 2020). Moreover, personalized services powered by AI-driven algorithms have led to tailor-made financial recommendations, ensuring customers receive solutions aligned with their preferences (Schueffel, 2016).

5.0.2 Amplifying Data-Driven Insights: The data-rich landscape fostered by Digital Transformation is a bedrock upon which Fintech innovations thrive. Advanced data analytics and AI algorithms enable financial institutions to derive actionable insights from vast datasets. These insights empower Fintech solutions to offer superior risk assessment, fraud detection, and investment strategies (Westerman et al., 2011). For instance, AI-powered credit scoring models leverage diverse data sources to assess creditworthiness accurately, enabling financial inclusivity (Chen et al., 2012). The amalgamation of Digital Transformation and Fintech thus creates a virtuous cycle: Fintech leverages data insights to enhance its services, while Digital Transformation gains new dimensions from Fintech-driven innovations.

5.1 Influence of convergence of Digital Transformation and Fintech

The convergence of Digital Transformation and Fintech extends its transformative influence across various financial domains, fundamentally reshaping traditional services such as banking, investment, and insurance. This section highlights the automation of processes, operational cost reduction, and enhanced risk management. Case studies and examples underscore the tangible benefits of Digital Transformation through Fintech implementations.

5.1.1 Banking: Digital Transformation powered by Fintech has revolutionized banking by introducing innovative ways to serve customers and streamline operations. Automated customer interactions through chatbots and virtual assistants have redefined customer service, while digital account opening processes have expedited onboarding (Deloitte, 2020). This convergence has also automated routine transactions, reducing human intervention and enabling banks to allocate resources more efficiently.

5.1.2 Investment: The intersection of Digital Transformation and Fintech has democratized investment opportunities and strategies. Robo-advisors leverage AI algorithms to provide low-cost, algorithmic investment advice, making wealth management more accessible to a broader audience (Schueffel, 2016). This convergence has shifted the investment landscape from traditional advisory models to data-driven, personalized solutions.

5.1.3 Insurance: The fusion of Digital Transformation and Fintech has disrupted the insurance sector by enhancing customer experiences and risk management. Insurtech platforms leverage AI to analyze vast datasets and automate claims processing, expediting payouts and reducing administrative costs (PwC, 2017). This convergence also enables insurers to offer personalized policies based on individual behaviors and risks.

5.2 Case Studies and Examples:

5.2.1 Revolut: This neobank employs Fintech solutions to offer real-time spending insights, currency exchange, and international money transfers, transforming traditional banking services (KPMG, 2021).

5.2.2 Acorns: A micro-investing platform utilizing Fintech, Acorns rounds up purchases to invest spare change in diversified portfolios, making investment accessible to small amounts (Sundararajan, 2017).

5.2.3 Lemonade: This Insurtech disruptor employs AI-driven algorithms to automate claims processing, resulting in faster payouts and reduced operational costs (PwC, 2017).

International Journal of Academic Accounting, Finance & Management Research(IJAAFMR) ISSN: 2643-976X Vol. 7 Issue 9, September - 2023, Pages: 9-15

5.2.4 JPMorgan Chase and OnDeck: JPMorgan Chase collaborated with OnDeck, a Fintech lending platform, to leverage OnDeck's technology for small business lending. This collaboration streamlined JPMorgan's lending process, resulting in faster loan approvals and improved customer experiences (Deloitte, 2020).

5.2.5 HSBC and Tradeshift: HSBC partnered with Tradeshift, a supply chain finance platform, to digitize trade finance processes for its clients. This partnership facilitated efficient invoice management, reduced paperwork, and expedited transactions (KPMG, 2021).

5.3 Challenge and Security Concerns Digital Transformation and Fintech

While the convergence of Digital Transformation and Fintech presents transformative opportunities, it also introduces a host of regulatory challenges and security concerns. This section delves into these complexities, emphasizing the significance of balancing innovation with regulatory compliance, and highlighting the imperative of consumer protection and data privacy in the digital financial landscape.

5.3.1 Regulatory Challenges: The rapid pace of technological advancement often outpaces regulatory frameworks, leading to compliance challenges. Regulatory authorities are tasked with ensuring fair practices, preventing financial crime, and safeguarding consumer interests. Cryptocurrencies, for instance, raise questions about regulatory classification, taxation, and anti-money laundering measures (World Economic Forum, 2016). Striking a harmonious balance between fostering innovation and maintaining regulatory integrity remains a daunting task.

5.3.2 Security Concerns: Digital Transformation introduces new avenues for cyberattacks and fraud, necessitating robust security measures. The use of personal data for AI-driven decision-making raises concerns about data breaches and unauthorized access. High-profile breaches at financial institutions underscore the vulnerability of interconnected digital systems (PwC, 2017). Thus, ensuring the cybersecurity of financial infrastructure becomes paramount.

5.3.3 Innovation vs. Regulatory Compliance: The synergy between Digital Transformation and Fintech underscores the importance of harmonizing innovation with regulatory adherence. While innovation drives progress, adherence to regulations guarantees consumer trust and system stability. Collaborative efforts between regulators, industry players, and startups are essential to create flexible yet responsible regulatory frameworks (Deloitte, 2020).

5.3.4 Consumer Protection and Data Privacy: As financial services become increasingly digital, the need for robust consumer protection and data privacy mechanisms intensifies. Striking a balance between delivering personalized experiences and safeguarding sensitive information is crucial. Regulations such as the General Data Protection Regulation (GDPR) in the European Union exemplify attempts to protect individuals' personal data in the digital era (Sundararajan, 2017).

5.4 Opportunities for Collaboration: Bridging the Gap Through Partnership

The synergy between Digital Transformation and Fintech has spurred collaborative innovation, with traditional financial institutions partnering with nimble Fintech startups to unlock novel solutions. This section delves into the opportunities arising from such collaborations, explaining how the fusion of established institutions and startups leads to the creation of innovative financial solutions. Real-world examples highlight successful partnerships that have enhanced financial services.

5.4.1 Collaborative Dynamics: Collaboration between traditional financial institutions and Fintech startups creates a symbiotic relationship. While startups bring agility, technological expertise, and fresh perspectives, established institutions contribute their experience, customer base, and regulatory knowledge. This partnership bridges the gap between traditional practices and emerging innovations, fostering a holistic approach to transforming financial services (PwC, 2017).

5.4.2 Innovation through Partnerships: Partnerships between incumbents and startups result in pioneering solutions that combine the best of both worlds. Startups bring cutting-edge technology and customer-centric approaches, which, when integrated with the established infrastructure of financial institutions, generate innovative services. This approach enables incumbents to leverage Fintech advancements without undergoing a complete overhaul (World Economic Forum, 2016).

6.0 Future Trends and Implications: Shaping the Path Ahead

The convergence of Digital Transformation and Fintech continues to evolve, paving the way for emerging trends and technological advancements that will redefine the financial landscape. This section looks into the anticipated future trends at this intersection, discussing the potential impact of technologies like blockchain and quantum computing. Additionally, it sheds light on the evolving role of finance professionals due to ongoing technological advancements.

International Journal of Academic Accounting, Finance & Management Research(IJAAFMR) ISSN: 2643-976X Vol. 7 Issue 9, September - 2023, Pages: 9-15

6.0.1 Blockchain and Distributed Ledger Technology: Blockchain's potential extends beyond cryptocurrencies. It can revolutionize transactions, settlements, and supply chain finance by providing transparency, security, and efficiency (World Economic Forum, 2016).

6.0.2 Decentralized Finance (DeFi): DeFi platforms leverage blockchain to offer traditional financial services like lending, trading, and insurance without intermediaries. This movement challenges centralized financial systems (KPMG, 2021).

6.0.3 Quantum Computing: Quantum computing's immense processing power could transform complex risk assessments, algorithmic trading, and cryptography, reshaping financial operations (Deloitte, 2020).

6.1 Impact of Emerging Technologies:

6.1.1 Blockchain: Blockchain's immutable nature enhances security and trust, reducing fraud and compliance costs. Smart contracts automate agreements, streamlining processes (World Economic Forum, 2016).

6.1.2 Quantum Computing: Quantum computing's superior computational capabilities could enable faster data analysis, risk modeling, and optimization, empowering financial decision-making (Deloitte, 2020).

6.1.3 Evolving Role of Professionals: Technological advancements reframe the role of finance professionals:

6.1.4 From Routine Tasks to Value-Added Activities: Automation and AI reduce manual tasks, allowing professionals to focus on strategic decision-making and client relationships (Schueffel, 2016).

6.1.5 Data-Driven Decision Makers: Proficiency in data analysis becomes imperative, enabling finance professionals to derive insights and make informed choices (Westerman et al., 2011).

6.1.6 Ethical and Regulatory Experts: Finance professionals navigate the ethical implications of technology use and ensure compliance with evolving regulations (Sundararajan, 2017).

7. 0 Conclusion: Embracing the Ongoing Transformation

The confluence of Digital Transformation and Fintech marks a revolutionary juncture in the financial industry, reshaping its landscape with profound implications. Throughout this article, we have navigated the intersections of these forces and gleaned insights into their transformative power. Key takeaways underscore the following:

7.0.1 Reshaping Financial Services: The amalgamation of Digital Transformation and Fintech has redefined financial services across domains, from banking and lending to investment and insurance. Automated processes, personalized services, and data-driven insights have emerged as hallmarks of this transformation.

7.0.2 Collaborative Innovation: Collaboration between traditional financial institutions and nimble Fintech startups yields groundbreaking solutions. Such partnerships combine established expertise with technological agility, fostering innovative financial products and services.

7.0.3 Challenges and Compliance: The transformative journey is accompanied by regulatory challenges, security concerns, and ethical considerations. Striking the right balance between innovation and regulatory compliance remains crucial to maintaining consumer trust and system stability.

7.0.4 Future Trends and Evolution: The future holds promise in the form of emerging technologies like blockchain, DeFi, and quantum computing. These technologies are set to redefine financial processes, enhance security, and drive efficiency.

7.0.5 Adaptation and Continuity: The intersection of Digital Transformation and Fintech is an ongoing journey. As technologies evolve, so do their implications. The financial industry must continuously adapt to capitalize on opportunities, navigate challenges, and ensure ethical, secure, and customer-centric practices.

In essence, the convergence of Digital Transformation and Fintech is a dynamic force, transcending conventional boundaries and propelling finance into a new era. As we move forward, embracing change and pursuing innovation are paramount. The journey of transformation is ongoing, requiring vigilance, adaptability, and a commitment to harnessing the potential of these intertwined forces for a brighter financial future.

This study has unveiled the potential of this convergence and provided a glimpse into its transformative possibilities. By understanding its nuances, we are better equipped to navigate the ever-evolving landscape of finance in the digital age.

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