

## FinTech Disruption in Economic Policy and Its Relevance for Education

Touria NADAH<sup>1\*</sup>, Sudip Debkumar Chatterji<sup>2</sup>, Touria NADAH<sup>2</sup>, Milagritos Josefina Saavedra Jaramillo<sup>3</sup>, Abdelhamid Nechad<sup>4</sup>, Nahid ALmasov<sup>5</sup>, Dr. Francis Pol C. Lim<sup>6</sup>

<sup>1\*</sup> National School of Commerce and Management -University of Hassan II Casablanca, Morocco

Email: [touria.nadah-etu@etu.univh2c.ma](mailto:touria.nadah-etu@etu.univh2c.ma)

<sup>2</sup> sudipchatterji@gmail.com, Faculty @ Burapha university international college

<sup>3</sup>Universidad Nacional Mayor de San Marcos,

Email: [msaavedra@unmsm.edu.pe](mailto:msaavedra@unmsm.edu.pe)

<sup>4</sup>ESCA School of Management-Casablanca, Morocco,

Email: [anechad@esca.ma](mailto:anechad@esca.ma),

<sup>5</sup>Deputy Dean of the Faculty of Business and Economics, Jeyhun Hajibeyli, 71, of Nasimi district, Baku city, Azerbaijan, Azerbaijan University,

Email: [nahid.almasov1990@gmail.com](mailto:nahid.almasov1990@gmail.com)

<sup>6</sup>Vice President for Academics, American Management University, Utah, USA; Professor, Charisma University, Turks and Caicos Islands

Email: [limfrancispol19@gmail.com](mailto:limfrancispol19@gmail.com)

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### ABSTRACT

Financial technologies (FinTech) are becoming a widely accepted force of transformation in economic systems that change the manner in which policies are developed, executed, and assessed. FinTech's disruptive nature is not confined to financial markets, and it affects monetary policy transmission, regulatory frameworks, and the general economic governance. This article discusses the role of FinTech disruption in modifying the classic paradigms of economic policy through the facilitation of new ways of financial inclusion, data-based decision-making, and cross-border transactions. Meanwhile, the pace of technological adaptation also introduces the issues of cybersecurity, consumer protection, and regulatory adaptation. These dynamics bring out the dual nature of FinTech as a driver of economic resilience and a source of systemic risk. One of the main contributions of this article is the relevance of FinTech disruption to education. With the integration of a digital financial ecosystem in economies, educational institutions should prepare learners with skills to bridge economics, finance, technology, and applied psychology. This necessitates innovation in the curriculum that includes digital finance, the behavioural reactions to technology, and the ethics of algorithm-based decision-making. The study connects the disruption of economic policy with the transformation of education, providing lessons to policymakers, academics, and practitioners who aim to equip future generations to work in a fast-changing financial environment. Finally, the paper situates the concept of FinTech as a lens that is essential to understanding economic transformation and educational innovation together, and offers a basis for interdisciplinary research and policymaking.

**Keywords:** FinTech, economic policy, disruption, financial inclusion, education, digital economy, innovation



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### 1. INTRODUCTION

The biggest and the most influential elements of the worldwide finance sector in the past 20 years is financial technology, or FinTech, which has completely changed how financial services are provided, regulated, and demanded. Old ideas about how money is transferred, financial systems are regulated, and cross-border integration is possible have been challenged by the rapid adoption of mobile financial services, blockchain-based electronic payment platforms, and decentralized finance

(DeFi) (Feyen et al., 2021). Because it can alter the speed, scope, and effectiveness of monetary and fiscal responses, FinTech has expanded its influence beyond the financial sector to include macroeconomic policy frameworks. It is now the responsibility of central banks and regulators to address digital assets and algorithmic decision-making, as well as cybersecurity vulnerabilities, in their policy-making (Arner et al., 2020; Shen, 2021). This background explains why it is necessary to conduct a detailed study of FinTech as a

How to cite: Chatterji SD. FinTech disruption in economic policy and its relevance for education. *FinTech Disruption in Economic Policy*. *Advances in Consumer Research*. 2025;2(5):264–271. financial resiliency facilitator and a possible engine of systemic instability.

The disruptive potential of FinTech is not limited to the economic sphere, but can also be applied to education, which has been neglected in FinTech scholarship. As economies move towards digital financial ecosystems, there is increasing pressure on education institutions to equip future policymakers, regulators and professionals with hybrid skill-sets that combine elements of finance, technology, behavioural psychology and ethics. An important reason for this is that digital financial literacy is becoming the foundation of economic participation (OECD 2020), especially in societies where financial products are becoming more complex. In order to be effectively economically included, Demircuc-Kunt (2022) highlights the significance of having both access to online services and the cognitive abilities to use them responsibly. Despite these realisations, different nations have different approaches to incorporating FinTech literacy into their curricula, with developed economies showing more evolution than those in developing nations (Nguyen, 2022; Sreenu, 2024).

To date, researchers studying FinTech disruption have mostly concentrated on two areas of study: the potential for financial system restructuring and the impact on regulation. Research from stream 1 shows how innovations like open banking platforms and digital currencies issued by central banks (CBDCs) can improve system efficiency while also posing privacy and overall risk issues (Frost et al., 2019). The second stream regards the regulatory matters concerning FinTech, including the consumer protection, the cross-border flows and anti-money laundering (AML) (Anagnostopoulos, 2018; Vives, 2017). In this case, education is important for two reasons. Firstly, learning gives people the foundational knowledge they need to actively participate in the financial markets, which are arguably becoming more digital. Our societies are ruled by algorithms and sophisticated solutions these days, which expose people to fraud, false information, and poor financial decisions if they lack the requisite knowledge and abilities (Stolper & Walter, 2017). Danquah & Amankwah-Amoah (2022) state that for financial innovation to support inclusive and sustainable development, there is a need to ensuring that existing inequality in the financial sector is not magnified.

There are two primary reasons why education is important. In the first place, it helps people comprehend how the digital financial markets function. People who lack this knowledge are more susceptible to fraud, deceit, and making bad decisions (Stolper & Walter, 2017). Secondly, it gives policymakers and regulators the interdisciplinary knowledge they need to create flexible and progressive policies. For instance, understanding topics like algorithmic bias and blockchain systems is now necessary for good financial governance. In the age of financial innovation, cooperation between FinTech and education is crucial to lowering inequality, claim Danquah and Amankwah-Amoah (2022).

Three goals are pursued in this paper. First, it looks at how FinTech is changing economic policy, specifically how it affects regulation, cross-border integration, and monetary transmission. Second, it draws attention to FinTech's dual function as a catalyst for growth and resilience as well as a source of systemic risk. Lastly, it examines the educational ramifications, placing special emphasis on skill development.

## 2. METHODOLOGY

### 2.1 Research Design

The conceptual, holistic design of this study draws from economics, instructional technology, and financing. It synthesizes findings from research, policy papers, and empirical research to qualitatively examine the connection between financial technology, and regulation as opposed to testing a hypothesis. Secondary sources offer a rich foundation for mathematical and comparison analysis; no initial information is used. This method offers educators and policymakers useful information while capturing the complexities of FinTech uncertainty.

### 2.2 Data Sources

Only secondary sources that strike a balance between academic accuracy and policy significance are used in this study. Peer-reviewed publications from prestigious search engines like Scopus, Web of Sciences, and JSTOR are consulted, and topics range from financial accessibility, oversight, and the educational aspects of digital finance to the development of FinTech and its policy implications. Systematic reviews and meta-analyses are favoured as they draw on more than one context and are more reliable. On the policy side, reports and white papers of international organisations such as the International Monetary Fund, the World Bank, the Bank for International Settlements and the OECD are reviewed to capture the global policy debate about FinTech. Country-specific approaches to digital finance are also identified from the analysis of national-level reports prepared by central banks, finance ministries and regulatory agencies, which illustrate policy integration of education in the country. Furthermore, the Payment Service Act of Singapore and the MiCA legislation in the European Union provide empirical evidence to support the idea of adaptation in governance. Using case data, such as nation-specific studies on FinTech adoption and university curriculum modifications, theoretical findings are connected to real-world applications. The study's findings are theoretically and empirically grounded because it can triangulate across these various types of sources.

### 2.3 Analytical Approach

The topical synthesis, an analytical method that works well for interdisciplinary conceptual work, serves as the study's theoretical foundation. The process starts with the methodical abstraction of pertinent data and information from sources that have been identified. Focus is then placed on how FinTech is changing fiscal and monetary policy, how regulatory structures are changing to meet disruptions in technology, and the fresh needs for educational reform that follow. Following recruitment, the data is coded based on categories such

How to cite: Chatterji SD. FinTech disruption in economic policy and its relevance for education. *FinTech Disruption in Economic Policy. Advances in Consumer Research.* 2025;2(5):264–271. as curriculum innovation, systemic risk, regulatory adaptation, monetary policy transmission, and financial inclusion. These categories are then combined to create more general conceptual themes that highlight FinTech's dual characteristics as a source of systematic vulnerability and a driver of economic durability.

## 2.4 Theoretical Framework Alignment

Three supplementary hypotheses serve as the foundation for the study's analysis. FinTech's challenges to conventional financial structures and governance paradigms are explained by disruptive innovation theory. The way that FinTech-driven innovations impact oversight, trust, spending models, and regulation is highlighted by policy feedback theory. The demand for multifaceted abilities that combine technology, economics, psychology, and ethics is highlighted by Human Capital Theory, which links educational innovation with economic transformation. When taken as a whole, these viewpoints show FinTech modification as a complex force that calls for structural adjustments in education and policy.

## 3. RESULTS

### 3.1 FinTech Disruption in Economic Policy

The results show that FinTech has become a major driver of economic policy changes, particularly in the realms of broader governance systems, regulatory modifications, cross-border patterns, and money transmission. The findings demonstrate how the advent and usage of digital wallets, blockchain-based transaction networks, and CBIs are fundamentally altering the means through which monetary policy is implemented. In the past, central banks used banking institutions to influence interest rates and liquidity. The growing dependency on the decentralised financial platforms has led to the development of parallel structures that circumvent the traditional transmission channels. The Bank for International Settlements (BIS) has published several reports about the issues of CBDCs, suggesting that CBDCs, if truly and widely adopted, will improve the speed of monetary policy but at the same time diminish the ability of conventional instruments if not properly integrated. Case studies from China's e-CNY and the European Central Bank's digital euro program establish that digital currencies are effective for transaction efficiency but may be problematic in terms of privacy and surveillance, and cross-border capital flows. Figure 1 presents the status of CBDC projects around the world, with most of them at research or development stages.

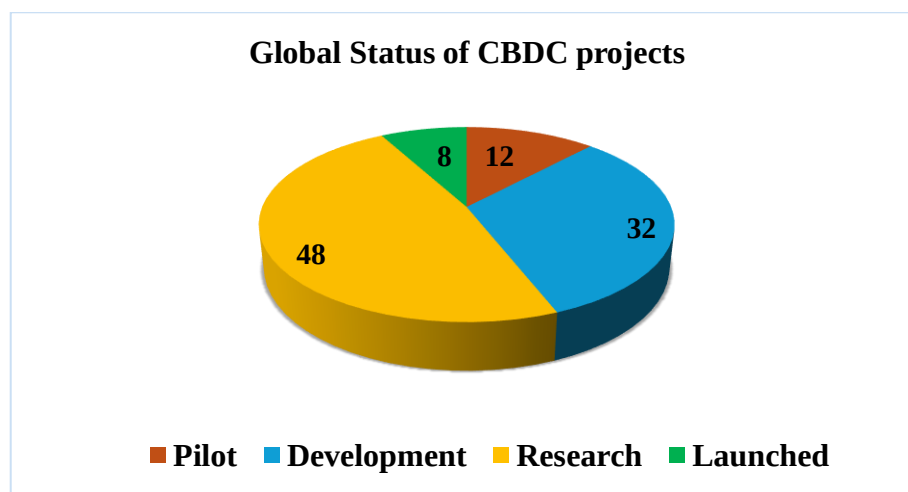


Figure 1: Pie chart of the global status of Central Bank Digital Currency (CBDC) projects

Regulatory adaptation is a theme that is prevalent throughout the literature and policy reports. The proof is that FinTech presents challenges that go beyond traditional financial oversight. Cybersecurity vulnerabilities, data protection problems, and the rise of unregulated cryptocurrencies are all reasons for the need for new frameworks. It is common knowledge that unlicensed platforms often dominate lending and remittance markets, and the IMF reports that this often leads to consumer protection being undermined. Evidence from India and Nigeria shows that fast-tracking of mobile-based payment systems led to both increased inclusion and large-scale scams and data leakages. At the same time, the advanced economies such as Singapore and the EU have shifted towards proactive regulation with frameworks such as the Payment Services Act (Singapore) and the MiCA regulation (EU). These models suggest that stronger regulatory adaptation provides a sense of confidence and

stability, and lax oversight contributes to the problem of systemic vulnerabilities.

The findings also show that FinTech is contributing to a level of cross-border financial integration that has never been seen before. Mobile banking, online remittances, and cryptocurrency flows offer a mechanism for capital to move faster than the coordination of regulation. World Bank reports that the cost of digital remittance platforms is significantly lower, from 8-10 % to below 3 % in some cases. The cross-border transactions also make it more difficult to enforce taxation and anti-money laundering legislation. Research on digital money transfers from southern Africa shows that although they made it easier for rural communities to access financing, these systems were exposed to malicious financial flows due to a lack of regional regulatory frameworks.

As demonstrated by the UK's open banking campaign for better credit risk assessment, fintech platforms produce vast amounts of data that, when used effectively, can inform policymaking. However, monopolization, exploitation, and increased inequality are risks

associated with inadequate data protection. Table 1 below provides a comparative analysis of the policy impacts from FinTech such as China's CBDC, the EU's MiCA rules, Singapore's Payment Services Act and India's UPI.

**Table 1:** Comparative summary of FinTech's policy impacts

| Country/Region | Policy/Initiative                | Policy Focus                                                                                  | Impacts                                                                                                            |
|----------------|----------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| China          | Digital Yuan (e-CNY)             | Central Bank Digital Currency to enhance payment efficiency and control capital flows.        | Improved transaction efficiency; enhanced monetary control; concerns about privacy and cross-border capital flows. |
| European Union | MiCA Regulation                  | Comprehensive regulatory framework for crypto-assets and digital finance.                     | Increased legal certainty; harmonized rules across EU; improved investor protection and market integrity.          |
| Singapore      | Payment Services Act (2019)      | Licensing and regulation of payment providers; balancing innovation with consumer protection. | Boosted consumer trust; supported innovation; strengthened oversight against money laundering and fraud.           |
| India          | Unified Payments Interface (UPI) | Digital infrastructure enabling real-time payments and financial inclusion.                   | Expanded financial inclusion; reduced transaction costs; scaled rapidly across banks and FinTech platforms.        |

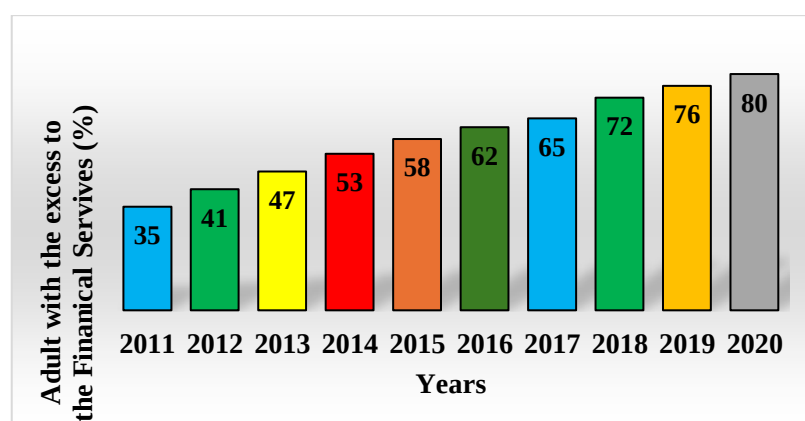
### 3.2 Risks and Opportunities of FinTech

The results demonstrate FinTech's dual nature as both a force for systemic threats and a force for resilience. The three most critical threats identified were: systemic instability, consumer exploitation, and cybersecurity. A systemic review of 74 FinTech cybersecurity papers identifies malicious software, phishing, identity theft, and credit allocation algorithmic bias among the more common threats. In economies with inadequate cybersecurity infrastructure, these vulnerabilities are exacerbated. For example, a cyberattack in 2021 caused a nationwide outage of one of Africa's largest mobile money services, affecting the daily transactions of millions of people. Regulators in India pointed out multiple cases where lending apps exploited weaknesses to put low-income borrowers in debt traps.

At the same time, the results also indicate that FinTech, if backed by adaptive policies, can boost economic resilience and inclusion in spite of these risks. During the pandemic of coronavirus (Covid-19), mobile payment systems and digital lending platforms helped keep the

economy active in developed and developing countries. In Kenya, M-Pesa allowed maintenance of transactions when the use of physical cash declined. In Europe, digital lending platforms provided loans to small businesses, which were shut out of traditional banking channels. While many countries also have managed to significantly boost financial inclusion rates thanks to digital platforms, data indicates that higher levels of financial inclusion are directly correlated with strong mobile penetration: in India, for example, access to financial services increased from 35 % in 2011 to almost 80 % by 2020.

The synthesis notes that the balance between opportunity and risk is affected by regulatory maturity, technological savvy, and institutional readiness. Countries with strong frameworks, like Singapore, are successful in encouraging innovation while managing the risks, and weaker frameworks leave their population vulnerable. Figure 2 depicts the twin heads of FinTech in the face of its risks and the opportunities it presents to financial systems.



**Figure 2:** Dual Role of FinTech (a two-column figure: *Risks* vs. *Opportunities*, with examples under each)



### 3.3 Relevance for Education

The results all point to education as the crucial factor linking FinTech disruption and sustainable economic governance. Three categories are identified: skill requirements, curriculum innovation, and institutional adaptation.

Research indicates that, in the future, we will need hybrid skills from future professionals that blend economics, finance, technology, behavioural psychology, and ethics. The OECD highlights the inadequacy of conventional economics and finance curricula to equip graduates to work in algorithmic financial markets. For instance, there has been a significant demand for data analysts, blockchain developers, and behavioural economists in financial institutions around the world. A survey that the World Economic Forum carried out has revealed that digital finance literacy is deemed as important as financial literacy in preparing the workforce for the future.

The study finds new cases where educational institutions are trying to adapt. For example, universities in Singapore and the UK have started courses on digital currencies, blockchain governance, and algorithmic ethics. Business schools in Europe are including modules on behavioural responses to financial technologies as part of an emerging need for applied psychology. The evidence shows that such initiatives are still scattered and mostly experimental. There is still no

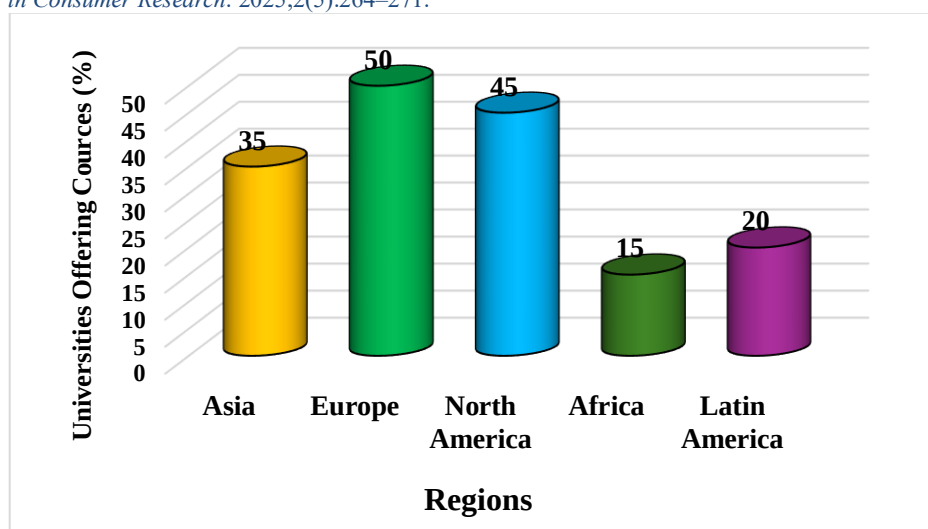
standardised framework for the integration of FinTech literacy as part of economics or policy curricula across the world.

Educational institutions must update their overall plans in addition to their curricula in order to remain relevant. Universities are reportedly under pressure to establish collaborations with FinTech firms, multidisciplinary research facilities, and hands-on training initiatives. MIT's Digital Currency Project, which collaborates with central banks and lawmakers to inform the real world, is a noteworthy example. Colleges in many developing nations, on the other hand, lag far behind and produce graduates who are unprepared for a financial system that is rapidly becoming more digital.

The study's findings demonstrate that, in terms of economic policy outcomes, education is both a reactive and a proactive process. The capacity of lawmakers and regulators to understand and control FinTech disruption is facilitated by a skilled workforce. The development of flexible, inclusive, and safe policy frameworks is more likely in nations where financial technology education is integrated into economics and policy schools. Table 2 compares current gaps in the financial and economics curricula with key FinTech-related skill competencies, such as blockchain literacy, data ethics, and behavioral finance. The proportion of universities offering FinTech and electronic banking courses by region is broken down in Figure 3.

**Table 2:** Mapping of identified skill sets (e.g., blockchain literacy, data ethics, behavioural finance) to current gaps in economics/finance curricula

| Skill Set / Competency                      | Importance in the FinTech Era                                                                      | Current Status in Economics/Finance Curricula                                                                     | Identified Gap                                                                             |
|---------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Blockchain Literacy</b>                  | Critical for understanding digital currencies, smart contracts, and decentralized finance.         | Rarely included in economics or finance courses; mostly offered in computer science programs.                     | Lack of interdisciplinary integration; limited exposure for economics/policy students.     |
| <b>Data Analytics &amp; AI</b>              | Essential for handling big financial data, algorithmic trading, and policy simulations.            | Basic statistics/econometrics courses exist, but limited focus on AI, machine learning, or financial data mining. | Strong demand-supply gap in advanced digital analytics training for policy/econ graduates. |
| <b>Cybersecurity Awareness</b>              | Vital for managing risks, protecting consumer data, and ensuring financial system integrity.       | Hardly addressed in economics/finance curricula; sometimes covered in IT electives.                               | Major curriculum blind spot; policymakers and regulators are often underprepared.          |
| <b>Digital Ethics &amp; Data Privacy</b>    | Important for governance of algorithmic decision-making, responsible AI, and consumer protection.  | Ethics is often taught in business schools, but not tailored to digital finance.                                  | No structured modules addressing the ethical challenges of algorithmic finance.            |
| <b>Behavioural Finance &amp; Psychology</b> | Key for understanding consumer adoption of FinTech, digital nudges, and financial decision-making. | Taught in some finance programs, but with limited digital-era applications.                                       | Gap in connecting behavioural insights with digital platform usage.                        |
| <b>Policy and Regulatory Literacy</b>       | Necessary for designing adaptive regulations for crypto, digital banking, and mobile payments.     | Public policy/econ programs cover regulation broadly, but not FinTech-specific issues.                            | Limited cross-training between policy studies and FinTech governance.                      |



**Figure 3:** Percentage of universities offering FinTech/Digital Finance courses by region

#### 4. DISCUSSIONS

The findings support the claim that FinTech is now a major force behind policymaking and no longer a nebulous economic sector. One illustration of how money transfer mechanisms are evolving is the spread of digital currencies issued by central banks (CBDCs). More than 90% of central banks are researching CBDCs, according to an examination on the widespread use of CBDC by the Bank for the International Settlements. This indicates that the adoption of CBDC has recently taken a systemic turn. According to Auer et al. (2020), the introduction of CBDCs should strike a balance between privacy, financial stability, and the risks associated with cross-border flows.

Likewise, regulatory issues dominate the conversation. According to the paper, abuse of consumers through unregulated lending apps, underfunded cyber security defenses, limited regulatory contexts, and gamblers' financial fragility all have a detrimental impact on financial stability. This result is in line with the IMF Economic Stability Report 2022, which notes that DeFi systems are difficult to regulate because they don't fall under the purview of traditional regulators (IMF, 2025). Examples from Nigeria and India, where consumer frauds followed the quick uptake of mobile money, highlight the significance of controlling inclusion to prevent vulnerability from rising rather than falling.

FinTech-enabled cross-border financial flows also require new governance frameworks. In contrast to the worldwide mean of 6–8% for traditional payment services, the World Bank predicts that digital transfer platforms save a substantial amount of money on transactions (less than 3%). Similar to the issue raised by Gomber et al. (2017), these platforms complicate anti-money laundering (AML) efforts. FinTech is therefore a vector of structural hazards that policymakers must address as well as a tool for economic resilience.

The dual nature of FinTech is one of the many significant conclusions drawn from this study. On the one other hand, FinTech contributes to resilience by increasing inclusion and supporting economies during

emergencies. When physical cash movement decreased during the coronavirus pandemic, mobile money services like Kenya's M-Pesa enabled transactions to continue (Suri & Jack, 2016). However, if decentralized finance is abused, it may pose a systemic risk and cause economic instability. According to studies, one of the most well-known risks associated with FinTech adoption is cybersecurity, as reports of algorithmic bias and data breaches are growing.

To balance the conditions, institutional readiness and regulatory maturity are required. Singapore is a prime example of how effective regulatory frameworks can guide innovation in finance technology while lowering risks. However, FinTech adoption has accelerated inequality and exposed populations to exploitation in areas with inadequate oversight. This supports Philippon's (2016) conclusion that social welfare benefits from advances in technology in finance do not always outweigh costs, and that benefits only outweigh costs when the setting of institutions is suitable.

This study's inclusion of education in the discussion of FinTech disruption is arguably its most significant contribution. The results suggest that future policy effectiveness may be threatened by the discrepancy between the current FinTech requirements for skills and economics/finance curricula. Human Capital Theory emphasizes that the ability of educational systems to adapt must be a prerequisite for economic transformation (Becker, 1993). However, in the digital financial age, essential skills like blockchain literacy, cybersecurity awareness, and algorithmic ethics are often absent from actual programs.

According to OECD data, monetary literacy is now as important for employment ability as traditional knowledge of money (2025). Similarly, according to the Global Economics Forum (2022), financial institutions place a high value on hybrid skills that combine technology, psychology, and economics. Online financial education has begun to take Gestalt in colleges in developed countries like the UK and Singapore, despite the fact that these initiatives are scattered and

How to cite: Chatterji SD. FinTech disruption in economic policy and its relevance for education. *FinTech Disruption in Economic Policy. Advances in Consumer Research*. 2025;2(5):264–271. experimental. Furthermore, graduates of less developed countries' educational systems are ill-equipped for work in the digital finance industry.

The findings also highlight the proactive nature of adaptive governance and the role that education plays in it. An adequately trained staff helps regulators and policymakers better anticipate and handle systemic risks in addition to responding to disruptions. One of the best examples of how academic-policy partnerships can provide useful insights for policymaking is the MIT Digital Money Initiative. Arner et al. (2016) underscore that the failure of policymakers to make a concerted effort to encourage mass FinTech education will serve to prolong the regulatory lag.

One of the lessons of this paper will be that FinTech disruption cannot be solved in the economics silo. An interdisciplinary approach is required due to the integration of Disruptive Innovation Theory, Policy Feedback Framework and Human Capital Theory. FinTech is a socio-technical change which is not an ethics, psychology and governance crossing the line, financial innovation. This is consistent with the plea by Gai et al. (2018) for interdisciplinary FinTech studies on the intersection of law, technology and economics.

There are a number of policy and practise implications for the discussion. First of all, regulators must adopt a pathway of innovation that will help ensure the economy and the consumers are protected from market volatility. This means that there is a need for cross-border coordination in areas such as the movement of remittances and cryptocurrency regulations. Second, to cope with the practise of digital finance, the curricula will have to become innovative, in order for educational institutions to adapt to the new reality. This includes the integration of algorithm ethics, data analytics, blockchain education and behavioural finance for finance and policy projects. Third, there is a need for multi-disciplinary research and training centers to be established, with greater interaction between regulators, industry and academic researchers. Fortunately, these types of policies can help legislators and educators shift questions surrounding FinTech challenges from a source of systemic risk to a source of strength.

The study is quite good albeit there is a limitation, namely: The empirical data is secondary and empirical evidence is limited. Furthermore, FinTech is a rapidly evolving sector, meaning that results may become rapidly outdated. As for the future, research should take care of longitudinal empirical studies which follow the changes of legislation adaptation and technologically enabled educational reforms. New comparative research may also help us understand why some countries can manage opportunities and risks while others cannot.

## 5. CONCLUSION

According to this study, FinTech is changing money transfers, regulations, and capital flows, making it a disruptive force in economic policy. It can promote sustainability, productivity, and inclusion, but it also

poses systemic risks, underscoring the need for adaptable regulation that strikes a balance between stability and innovation. In addition to policy, the research focuses on education, pointing out gaps in conventional curricula and the increasing need for hybrid skills like digital ethics, digital currency literacy, data analytics, and behavioural finance. Innovation and risk management are strengthened by an interdisciplinary workforce, and future societal and professional requirements are still shaped by the reciprocal effects of education and policy. All in all, this study positively adds to the ongoing discussion on FinTech by bridging the gap between the analysis of economic policies as well as the perspectives of educational theories. Either way, educators must ensure that FinTech is part of their curriculum to ensure inclusivity and resiliency, while policymakers should take active steps, at an international level, to ensure careful regulation. The authors conclude that future research should be empirical and comparative to obtain insights into the mediating effects of different national contexts on the risks and opportunities associated with FinTech. By combining innovation, regulation, and education, societies can harness the power of FinTech as a catalyst for economic transformation and the basis for sustainable and inclusive growth.

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