

A Comprehensive Analysis of Modern Investment Principles: Trends, Challenges, and Investment Implications in the Digital Age

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Abstract

This study aims to examine and analyze recent developments in investment practices and outcomes in the digital era. The main focus includes the impact of financial technology (FinTech) adoption on corporate investment efficiency and allocation, the behavior of retail investors increasingly influenced by social media and online trading platforms, as well as the dynamics of sustainable investment (ESG) and its implications for financial performance. In addition, this study highlights policy aspects and managerial practices that are relevant to the changing landscape of modern investment. Based on a synthesis of literature from the past five years, the findings indicate that digitalization—through the use of FinTech and online platforms—has transformed capital allocation mechanisms while also affecting investor decision-making patterns. Meanwhile, empirical evidence regarding the impact of ESG-based investments on corporate performance remains heterogeneous, indicating the need for more comprehensive data and consistent reporting standards. Thus, this study contributes to a deeper understanding of the trends, challenges, and implications of investment in the digital era.

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1. INTRODUCTION

The digital transformation of financial markets has transformed the way capital flows operate: digital investment platforms, retail trading apps, robo-advisors, asset tokenization, and algorithm-based credit services have become part of the modern investment ecosystem. These changes offer the potential for financial inclusion and market efficiency, but they also present complex legal challenges: how to protect new retail investors, how to position smart contracts within the contract law system, and how to respond to cross-border regulatory fragmentation that opens up opportunities of *regulatory arbitrage*.^[1]

Investment is a crucial pillar of economic development, at the individual, corporate, and national levels. Modern investment principles are not solely focused on financial returns, but also encompass risk management, efficient capital allocation, and long-term sustainability.^[2] With technological advancements and globalization, investment practices have undergone significant transformations, marked by the emergence of digital innovation, changes in investor behavior, and increased attention to environmental, social, and governance (ESG) issues.

The digital era presents both new opportunities and challenges for the investment world. The adoption of financial technology (FinTech) expands access to financial instruments, lowers barriers to market participation, and increases the efficiency of the investment process.^[3] However, on the other hand, this development also poses risks such as high

market volatility, the dominance of algorithmic trading, and the potential for speculative behavior fueled by social media and online platforms.

In addition to technological factors, global trends indicate increasing investor awareness of sustainable investment. The concept of ESG is increasingly becoming a key consideration in investment decisions, both by financial institutions and individual investors. However, empirical evidence regarding the relationship between ESG and financial performance remains mixed, giving rise to academic and practical debate.[4] Given these dynamics, this research is crucial to provide a comprehensive understanding of modern investment principles, emerging trends, challenges faced, and strategic legal implications for investors, companies, and policymakers. An analytical approach to the current literature is expected to contribute to the development of investment theory while offering practical recommendations for addressing investment transformation in the digital era.[5]

This paper examines the construction of investment law in the digital era and offers policy recommendations to enhance legal certainty while maintaining investor protection and market integrity.

2. RESEARCH METHODS

This research uses a qualitative approach with a literature study method (*literature review*) to analyze the development of modern investment principles in the digital era. The selection of this method is based on research objectives that focus on conceptual analysis, theoretical synthesis, and review of previous research results relevant to the topic.[5]

The primary data sources for this study were scientific journal articles, conference proceedings, research reports, and other academic publications published in the last five years (2019–2024). Inclusion criteria included publications discussing:

- 1) The impact of digitalization and FinTech on investment practices.
- 2) Retail investor behavior on online trading platforms and social media.
- 3) Sustainable investing (ESG) trends and their implications for financial performance.
- 4) Analysis of investment challenges and opportunities in the digital era.

Data collection was carried out by searching for articles in leading academic databases such as *Scopus*, *ScienceDirect*, *SpringerLink*, *Taylor & Francis*, as well as *Google Scholar*. Data analysis was carried out in the following stages:

- 1) Literature Selection: Sorting articles according to inclusion criteria and excluding irrelevant publications.
- 2) Theme Categorization: Grouping research findings into main themes, namely investment trends, digitalization challenges, investor behavior, and ESG implications.
- 3) Narrative Synthesis: Integrating research findings to produce a comprehensive understanding of modern investment principles and their practical implications.

The theoretical basis of this research refers to various concepts and theories that are relevant to understanding modern investment principles, especially in the context of the digital era[6]. First modern investment theory, modern investment principles are rooted in *Modern Portfolio Theory*(MPT) proposed by Harry Markowitz (1952). This theory emphasizes the importance of portfolio diversification to minimize risk without reducing potential returns. Furthermore, the development of *Capital Asset Pricing Model*(CAPM) by Sharpe (1964) and the theory of *Efficient Market Hypothesis*(EMH) by Fama (1970) asserts that market prices reflect all available information, so rational investors should focus on efficient portfolios.[7]

Both behavioral finance theories, although classical investment theory assumes that investors are rational, behavioral finance research shows that investment decisions are often influenced by psychological biases and social factors.[8] Concepts such as herding

behavior, overconfidence, And loss aversion is important to understand the behavior of retail investors, especially in the digital era when social media and online trading platforms accelerate the flow of information and encourage speculative behavior.

Thirdly, FinTech and digital investment, FinTech is defined as the use of digital technology to provide more efficient, faster, and inclusive financial services[6]. In the context of investment, FinTech facilitates the birth of online trading platforms, *robo-advisors*, and micro-investment applications that enable broader retail investor participation. The concept of disruptive *innovation*(Christensen, 1997) can be used to explain how FinTech is changing the traditional investment landscape by lowering barriers to entry and increasing market efficiency.[9]

Fourth sustainable investing and ESG, Theory of *Stakeholder* (Freeman, 1984) is an important basis for understanding sustainable investment, where a company's success is not only measured by financial performance but also by its contribution to the environment, social and governance (*Environmental, Social, and Governance/ESG*). ESG is considered an important indicator in assessing a company's long-term sustainability. However, the literature shows mixed results regarding the relationship between ESG and company financial performance, thus encouraging the need for more consistent and transparent reporting standards.[10]

Fifth, implications for managerial policy and practice, within the framework of institutional theory, regulations and policies play a significant role in shaping investment market behavior.[6] The adoption of ESG reporting standards, retail investor protection, and FinTech regulations are crucial factors in maintaining market stability while supporting investment growth in the digital era. Based on this theoretical foundation, the research is directed at analyzing trends, challenges, and legal implications of modern investment by considering the interaction between classical theory, behavioral finance, digitalization, and sustainability principles.[2]

Final, *smart contract*, Asset tokenization and legal certainty of contracts have the potential to automate the execution of obligations and facilitate market access; however, aspects of proof, interpretation of will statements and remedy mechanisms in the event of bugs or extraordinary circumstances still give rise to legal debate.[11] Many legal scholars suggest arrangements that combine traditional contract principles with specific rules for contractual codes.

3. RESEARCH RESULTS AND DISCUSSION

3.1.Digitalization and Investment Efficiency

Digitalization is one of the main drivers of change in the modern investment world. Transformation is reflected in the adoption of financial technology (FinTech), online trading platforms, and artificial intelligence-based algorithms that optimize the investment decision-making process[6]. First, digitalization improves operational efficiency by lowering transaction costs and accelerating access to financial instruments. While previously stock and bond trading could only be conducted through traditional intermediaries, investors can now access the capital market directly through online applications at relatively low costs. This phenomenon increases financial inclusion, especially for retail investors who previously had difficulty entering the investment market due to limited capital and access.[12]

Second, digitalization also improves information transparency. Through online platforms, market data, financial reports, and even technical analysis are available in real time, enabling investors to make faster, more informed decisions. On the other hand, the presence of *robo-advisors* helps investors manage their portfolios with an automated approach tailored to their individual risk profiles.[3] However, digitalization

also presents a number of new challenges. Cybersecurity risks, algorithmic manipulation, and increased market volatility due to social media-based trading pose potential instability.[4] Furthermore, low financial literacy among some retail investors can lead to speculative decision-making.

Thus, digitalization has positive impacts in the form of increased efficiency, accessibility, and transparency of investments. However, these benefits can only be maximized if accompanied by strengthened regulations, increased financial literacy, and the development of reliable digital security systems. Synergy between technology, regulation, and education is key to ensuring the sustainability of the investment ecosystem in the digital era. The study results show that the adoption of FinTech has accelerated the digitalization process in the investment world. Online platforms and robo-advisors allow investors to allocate assets with lower transaction costs, faster access, and more transparent information. Recent research also indicates that digitalization increases financial inclusion by expanding retail investor participation in capital markets. However, challenges arise related to data protection, cybersecurity risks, and inconsistent regulations across countries.

3.2. Retail Investor Behavior and Social Media

In the modern investment landscape, retail investor behavior has become increasingly important to observe, especially with the increasing role of social media and online trading platforms. While previously retail investors' investment decisions were largely influenced by recommendations from financial advisors or conventional news, the dynamics have now changed due to the rapid and viral flow of information on social media.[7] Phenomena such as *Game Stop short squeeze*. The 2021 crisis provided concrete evidence of how retail investor coordination through online forums and social media can shake up global stock markets. This event demonstrated that social media is not just a means of sharing information, but also an instrument of mass mobilization that can create surges in demand and extreme market volatility.[13]

Theoretically, retail investor behavior can be explained through the Behavioral Finance framework. Psychological biases such as *herding behavior*, *overconfidence*, *loss aversion*, and *confirmation bias* often dominate investment decisions based on trends or popular opinions on social media [14]. As a result, investment decisions are often not entirely rational and have the potential to create price bubbles (*price bubble* on the other hand, social media also has a positive impact, namely expanding financial literacy by providing a space for discussion, education, and information exchange between investors. Many platforms now provide educational content that helps novice investors better understand financial instruments.[15]

However, the biggest challenge lies in the validity of the information. Not all information circulating on social media can be verified, leaving retail investors vulnerable to misinformation, opinion manipulation, and fraudulent practices of *pump and dump*. Therefore, digital and financial literacy are key factors in maintaining the quality of investment decisions. Thus, social media has fundamentally changed the behavior of retail investors—from mere recipients of information to active actors capable of influencing market movements. To maintain financial system stability, a combination of investor education, information transparency regulations, and oversight of potential misuse of social media in investment practices is required.

The social media phenomenon has proven to play a major role in influencing retail investor behavior. Events such as *Game Stop short squeeze* (2021) shows how investor coordination through online platforms can create extreme volatility in the market. Financial literacy and behavioral biases such as *herding* and *over confidence*

increasingly relevant in understanding investment decision-making patterns. This underscores the need for education and regulation to reduce the risk of excessive speculation that could disrupt market stability.

3.3.Sustainable Investing (ESG) and Financial Performance

Sustainable investment taking into account environmental aspects (*environmental*), social (*social*), and governance (*governance*), or what is known as ESG, is increasingly occupying a strategic position in modern investment practices. Global awareness of climate change issues, corporate social responsibility, and transparent governance is encouraging investors to not only pursue short-term financial gains but also pay attention to long-term sustainability.[16]

Research over the past five years shows an increasing trend in demand for ESG-based investment products, among both institutional and retail investors. Companies with high ESG scores are generally perceived as better able to manage risk, maintain their reputation, and create long-term added value. In this context, ESG is seen as a key indicator for assessing a company's resilience to global challenges such as the climate crisis, regulatory changes, and social pressures.

However, the relationship between ESG performance and financial performance still shows heterogeneous results. Some studies have found a positive correlation, meaning that companies with good ESG practices tend to have more stable financial performance and lower risk. Conversely, several other studies have stated that ESG implementation does not always have a significant impact on profitability and can even incur additional costs for the company.[3] This heterogeneity in results is caused by differences in ESG reporting standards across countries, limited data that can be measured consistently, and variations in ESG assessment methodologies. This indicates an urgent need to create a standardized, transparent, and comparable reporting system across jurisdictions.

For investors, ESG is not only an ethical assessment instrument, but also a risk mitigation strategy that can increase public trust. For companies, consistent implementation of ESG principles can be a competitive advantage in the global market.[17] However, the success of this strategy depends heavily on the company's commitment to integrating sustainability into its core business strategy, not just as a reputational symbol (*greenwashing*). Thus, ESG-based sustainable investing is a crucial pillar of modern investment principles. Although empirical evidence regarding its impact on financial performance remains mixed, the global trend is toward ESG integration as the new standard in responsible, long-term investment practices.

The trend of sustainable investing is becoming increasingly dominant in modern practice. Both institutional and individual investors are increasingly paying attention to ESG aspects in their portfolios. Several studies have shown that companies with strong ESG performance tend to have lower risk and stronger reputations. However, empirical evidence regarding its impact on financial performance remains heterogeneous—some studies show a positive correlation, while others find no significant relationship. This underscores the need for consistent ESG reporting standards and more objective measurement.

3.4.Regulatory and Policy Challenges

The rapid development of digital technology in investment, particularly through FinTech, social media, and online trading, presents new challenges for financial authorities and regulators. Regulations that have previously focused on conventional instruments need to adapt to the dynamics of digital innovation to protect investors and

maintain market stability. One key challenge is protecting retail investors. With increasingly easy access to investment through online applications, the number of novice investors has increased significantly, but this is not always accompanied by adequate financial literacy. This raises the risk of speculative behavior, vulnerability to market manipulation, and significant losses if effective oversight is lacking.

Furthermore, cybersecurity risks are a crucial issue in the world of digital investment. Hacking attacks, data theft, and trading system manipulation can undermine investor confidence and potentially destabilize the financial system. Therefore, regulators need to establish strict digital security standards for technology-based investment service providers. Another challenge is the cross-border nature of FinTech regulation. Many online investment platforms operate globally, while financial regulations remain nationally regulated. This creates a regulatory gap (*regulatory gap*) which can be exploited by certain parties to carry out regulatory arbitrage or illegal practices such as money laundering (*money laundering*).[8]

On the other hand, the growing trend of sustainable investing (ESG) also demands more comprehensive regulations regarding reporting standards and transparency. Without uniform guidelines, investors find it difficult to distinguish between companies that are truly committed to sustainability and those that are merely performing of *greenwashing*. Regulatory and policy challenges in modern investment encompass four key aspects: investor protection, cybersecurity, cross-border regulatory harmonization, and standardization of ESG reporting. To address these challenges, regulators need to adopt a more flexible, collaborative, and technology-driven approach. Synergy between governments, financial authorities, companies, and the investor community is key to creating a healthy, transparent, and sustainable investment ecosystem in the digital age.

Regulation is a crucial factor in guiding modern investment practices. On the one hand, the development of FinTech opens up opportunities for financial inclusion and market efficiency; however, without adequate regulation, risks related to investor protection, money laundering, and market manipulation can increase. Therefore, synergy between technological innovation and public policy is crucial in maintaining fairness, transparency, and stability of the financial system.

3.5. Managerial and Strategic Implications

The transformation of investment in the digital era has significant legal implications for corporate managers, investment managers, and strategic policymakers. Digitalization, changing investor behavior, and increasing demands for sustainability require companies to adapt their business and managerial strategies to remain relevant and competitive. First, companies need to integrate digital technology into financial and investment management. Utilizing big *data analytics*, artificial intelligence, and robo-advisory can help in faster, more accurate, and more efficient decision-making. Technology-based portfolio management also allows for the adjustment of investment strategies to dynamic market conditions.[9]

Second, there are strategic legal implications related to managing relationships with retail investors. With investors increasingly actively utilizing social media and online platforms, companies are required to increase transparency, digital communication, and information disclosure to build trust. This can also serve as a means to strengthen the company's positive public image.

Third, implementing ESG principles is not only a social responsibility but also a long-term strategy to increase competitiveness. Companies that can demonstrate their commitment to sustainability through credible reporting will be more attractive to

investors and will also be more resilient to regulatory pressures and global market changes.

Fourth, at the managerial level, companies are required to develop adaptive capacity to new regulations governing FinTech, cybersecurity, and ESG reporting standards. This requires close collaboration between risk management, information technology, and finance units to ensure corporate strategies remain aligned with the applicable regulatory framework. Overall, the managerial and strategic legal implications of modern investment developments underscore the importance of technological innovation, transparent governance, sustainability orientation, and adaptability to regulatory changes. Companies that can respond quickly and appropriately will have a competitive advantage in facing challenges and capitalizing on investment opportunities in the digital era.

For companies, this development requires adaptation of investment strategies and financial management.[18] The integration of digital technology in portfolio management, the application of ESG principles, and an understanding of retail investor behavior are strategic factors that determine long-term competitiveness. Companies that are able to appropriately adopt digital innovation and build transparent ESG reporting will have a competitive advantage in the global market.

3.6.Retail Investor Protection - New Challenges

The digital era has driven a surge in the number of retail investors, particularly through mobile-based investment apps and online trading platforms. This phenomenon has expanded financial inclusion, but also presents new challenges in terms of legal protection. First, retail investors tend to have limited financial literacy compared to institutional investors.[19] Ease of investment access is often not matched by an understanding of the risks, resulting in many investors becoming trapped in speculative practices influenced by social media trends of *influencer*, or online communities. This poses a significant risk of harm without adequate protection mechanisms.

Second, the risk of digital market manipulation is increasing. Phenomena such as *pump and dump*, the spread of misleading information, and massive coordination in online forums, demonstrate the need for more responsive regulations to prevent price distortions that harm retail investors. Third, the issue of personal data protection and cybersecurity has taken on a new dimension. With the dominance of digital platforms, investor transaction data is vulnerable to misuse for commercial purposes and cybercrime. Data protection regulations and transparency obligations for investment service providers are key. Fourth, legal challenges are also evident in the context of dispute resolution. Disputes arising from digital transactions often involve cross-border jurisdictions, creating complexity in determining applicable law and effective dispute resolution mechanisms.[7]

Thus, protecting retail investors in the digital era requires a more adaptive legal approach, including digital financial literacy, strengthening regulations on online market behavior, cybersecurity standards, and innovation in electronic dispute resolution mechanisms (*online dispute resolution* is crucial for maintaining public trust and the sustainability of the digital financial market).

3.7.Smart Contract and Enforceability – Legal Certainty Gap

Technological development *blockchain* has given rise to new contractual innovations in the form of *smart contracts*, namely a digital agreement that is executed automatically based on a programmed algorithm of *Smart contracts* offers efficiency, speed, and minimal third-party intervention. However, from a legal perspective, this

innovation raises fundamental problems related to legal certainty and enforceability. First, there is a gap between the concept of traditional contract law and smart *contracts*. Contract law requires the elements of consensus, cause, and legitimate object, while *smart contracts* operate through code that automatically executes commands without any room for interpretation. This raises the question: can code fully represent the will of the parties, and how can the validity of a consensus be assessed if it is not written down in a human-understandable form?

Second, in the context of law enforcement (*enforcement*), there are still gaps. Disputes arising from the implementation/smart contracts are often difficult to bring to conventional courts, as the evidence and contract mechanisms reside on a decentralized, cross-jurisdictional blockchain system. The ambiguity of applicable law and dispute resolution authorities poses a serious obstacle. Third, there is the risk of "code as law" (*code is law*), where the algorithm determines the results without considering the principles of fairness, good faith, or force majeure (*force majeure*). This condition can be detrimental to one of the parties if a programming error occurs or a situation that is not anticipated by the contract code[9]. Fourth, the regulatory framework that is not yet harmonized between countries adds to the uncertainty. Some jurisdictions are starting to recognize the legality of smart *contracts*, while others still position it as an instrument without certainty/enforceability. This has the potential to cause *regulatory arbitrage* and legal vulnerabilities for investors and business actors.

Smart contracts demonstrate the great potential for digital investment efficiency, but also highlights gaps in legal certainty. Regulatory adaptations that explicitly recognize digital contracts and mechanisms are needed. *Hybrid dispute resolution* (combined court and online *dispute resolution*), as well as contract programming standards that accommodate the principle of fairness.[13] Without this, the efficiency advantages of smart contracts can be reduced by the high risk of legal uncertainty.

3.8. Cross-Jurisdictional Regulation and International Coordination

Digital transformation in the financial and investment sectors raises serious cross-jurisdictional issues. The key characteristics of digital technologies—such as blockchain, *online trading platforms*, and crypto assets—are global, borderless, and operated by entities that are often not subject to a single national legal regime. This presents significant challenges for international regulation and coordination. First, there are regulatory gaps between countries. Some jurisdictions have recognized the legality of digital assets, smart contracts, and digital *securities*, while other countries still prohibit or do not have specific regulations.[20] This inconsistency opens up opportunities, *regulatory arbitrage*, the practice of exploiting legal differences between countries to exploit the loosest regulatory loopholes. As a result, investor protection becomes uneven and the integrity of global markets is threatened.

Second, the issue of retail investor protection and the stability of the global financial system cannot be addressed unilaterally. For example, the volatility of crypto assets or the phenomenon of massive speculation on international platforms could give rise to...*spillover effect across* jurisdictions. Therefore, coordination between financial authorities across countries is crucial to prevent a systemic crisis. Third, cross-border law enforcement also faces challenges. Many digital investment platforms operate outside national jurisdictions, making investigations, asset freezing, or dispute resolution difficult. The absence of a clear international legal mechanism creates legal uncertainty for both investors and regulators.

Fourth, efforts to harmonize global regulations are beginning to be seen, for example through the G20 initiative, *Financial Stability Board*(FSB), and *International Organization of Securities Commissions* (IOSCO). However, implementation at the national level is often slow due to differences in economic, political, and legal interests. Thus, cross-jurisdictional regulation and international coordination are among the most pressing challenges in digital investment. A multi-level governance approach is needed, integrating national regulations, regional frameworks (e.g., ASEAN or the European Union), and collectively agreed global standards.[8] In addition, strengthening international cooperation mechanisms in the field of cybersecurity, investor protection, and digital market supervision are strategic steps to create a safe, transparent, and sustainable digital investment ecosystem.

4. CONCLUSION

Modern investment principles in the digital era are undergoing a fundamental transformation marked by the influence of FinTech, changes in investor behavior, and increased attention to sustainability (ESG) aspects. The adoption of digital technology through online platforms and technology-based financial services has increased efficiency, accessibility, and financial inclusion, although challenges remain, including cybersecurity risks and the need for adaptive regulation. Retail investor behavior, increasingly influenced by social media, is creating new dynamics in the capital market, including increased volatility due to herding behavior and online community-based speculation. This situation emphasizes the importance of financial literacy and strengthened regulations to protect market stability.

Meanwhile, the trend of ESG-based investing shows significant development as part of modern investment principles. However, the heterogeneity of empirical evidence regarding the relationship between ESG and financial performance indicates the need to develop more comprehensive and transparent reporting standards. Overall, investing in the digital era demands synergy between technological innovation, adaptive regulation, and responsive managerial practices. Companies, investors, and policymakers need to collaborate to create a more inclusive, sustainable, and resilient investment ecosystem in the face of global challenges.

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