

# Integration and Innovation of Legal Technology in Capital Markets, Compliance Supervision, and Intellectual Property Rights

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**Abstract:** *This paper delves into the integration and innovation of legal technology in capital markets, compliance supervision, and intellectual property rights. By analyzing the current status, application cases, and challenges in each field, it elaborates on collaborative innovation mechanisms and future trends, emphasizing their significance for legal practice and social development. The study indicates that cross-domain collaboration and technology application will drive the transformation of the legal industry, but the impact on ethics and policy regulations needs attention.*

**Keywords:** *Legal Technology, Capital Markets, Compliance Supervision, Intellectual Property Rights, Digital Transformation, Smart Contracts, Risk Assessment, Information Disclosure, Electronic Signature, Identity Authentication, Big Data Analysis, Artificial Intelligence, Blockchain Technology, Regulatory Technology, Financial Innovation, Data Security, Cybersecurity, Globalization of Business, Digital Currency, Anti-Money Laundering, Insider Trading, Market Manipulation*

## 1. Introduction

### 1.1 Background Introduction

In today's digital age, legal technology (LegalTech) is booming and profoundly affecting various legal-related fields. With the rapid development of information technology, the scale and complexity of capital markets are continuously increasing, compliance supervision faces new challenges brought by globalization and digitalization, and intellectual property protection encounters many difficulties due to the rapid spread of digital content. The emergence of legal technology provides new ideas and tools to solve problems in these fields. For example, in capital markets, big data and artificial intelligence technologies help to more accurately assess risks; in compliance supervision, automated monitoring systems can monitor corporate behavior in real-time; in the field of intellectual property rights, blockchain technology can achieve precise traceability of copyright.

### 1.2 Significance of the Study

Collaborative innovation in these three fields is of great significance. The healthy development of capital markets depends on effective compliance supervision and intellectual property protection to attract investors and promote corporate innovation. Compliance supervision needs to use legal technology to adapt to the complex and changing market environment and ensure fair competition in the market. Innovations in the field of intellectual property rights need to be protected under a sound legal framework and advanced technical means to realize their economic value. This integration can not only improve the efficiency and accuracy of legal practice but also have a profound impact on the sustainable development of the social economy, such as encouraging innovation, optimizing resource allocation, and enhancing market trust.[1]

## 2. Application and Innovation of Legal Technology in Capital Markets

### 2.1 Digital Transformation of Capital Markets

Capital markets are undergoing profound digital transformation in today's era. Traditional trading methods are gradually being replaced by efficient and intelligent digital models. The widespread

popularity of electronic trading platforms has simplified the trading process, allowing investors to conduct securities transactions, fund subscriptions, and redemptions anytime, anywhere online, greatly improving the convenience and immediacy of transactions. The digital presentation and dissemination of market data allow investors to obtain a vast amount of market information in real-time, including stock price trends, trading volume changes, macroeconomic data, and corporate financial statements. These data flow in the market at an unprecedented speed and scale, providing investors with more comprehensive and timely decision-making basis.[1]

Algorithm-driven investment strategies have become an important feature of the digital transformation of capital markets. Quantitative investment companies use complex mathematical models and algorithms to deeply mine and analyze market data to identify potential investment opportunities. For example, by analyzing historical price trends, trading volume changes, and various technical indicators, investment models are constructed to predict future stock price trends. High-frequency trading takes algorithmic trading to the extreme, relying on ultra-high-speed computer systems and low-latency network connections to execute a large number of trading orders in a very short time, capturing minor market price fluctuations to make profits. This trading method not only requires high-tech infrastructure support but also needs precise algorithmic models to ensure the accuracy and timeliness of transactions.

Big data analysis also plays a key role in the digital transformation of capital markets. Financial institutions and investment companies collect and integrate massive amounts of data from multiple channels, including market transaction data, social media sentiment data, news information data, and corporate operation data. By using advanced data processing technologies and algorithms, valuable information such as market trends, investor sentiment changes, industry competitive situations, and corporate potential risks is extracted from these massive data. This information helps investors to better understand the market environment, optimize investment decisions, and also provides market feedback for companies to adjust their strategies and business strategies.

## ***2.2 The Role of Legal Technology***

In the process of the increasing digitalization of capital markets, the importance of legal technology is becoming more and more prominent. It supports the stability and development of capital markets like a cornerstone, playing an indispensable role in many key aspects.

### ***2.2.1 Smart Contracts Ensure Transaction Safety and Efficiency***

Smart contracts are computer programs based on blockchain technology that automatically execute contract terms. In capital markets, they are widely used in various financial transactions, such as securities transactions, derivative transactions, and equity crowdfunding. The code of smart contracts pre-set the rights and obligations of both parties to the transaction, transaction conditions, and execution logic. Once the preset conditions are met, the contract will be automatically executed without the intervention of a third party, greatly improving the efficiency and accuracy of transactions. For example, in securities transactions, smart contracts can achieve automatic delivery of securities and automatic settlement of funds, reducing the errors and delay risks that may be brought by manual operations. At the same time, the distributed ledger technology of the blockchain ensures the immutability and transparency of smart contracts, allowing both parties to the transaction and regulatory agencies to view the execution of the contract in real-time, effectively preventing fraudulent acts and providing a high level of security for capital market transactions.[2]

### ***2.2.2 Risk Assessment and Management Aid in Scientific Decision-Making***

With the explosive growth of capital market data, traditional risk assessment methods can no longer meet market demands. Legal technology risk assessment software, with the help of big data analysis and artificial intelligence algorithms, can process and deeply analyze massive market data in real-time, thereby accurately assessing various investment risks. These software can integrate multi-source information such as macroeconomic data, industry data, corporate financial data, and market transaction data to construct complex risk models to predict market fluctuations, credit risks, and liquidity risks.

### ***2.2.3 Information Disclosure and Regulatory Compliance Ensure Market Transparency***

In capital markets, information disclosure is a key link to protect investor rights and maintain market fairness and justice. Legal technology, through digital means, has significantly improved the quality and efficiency of information disclosure, ensuring market transparency. On the one hand, listed

companies and financial institutions use information disclosure platforms to timely release financial reports, significant event announcements, and other important information in standardized and standardized electronic formats, allowing investors to conveniently obtain the information they need. On the other hand, regulatory technology tools such as data mining and analysis algorithms can monitor the information disclosure of listed companies and financial institutions in real-time to ensure compliance with laws, regulations, and regulatory requirements.

#### ***2.2.4 Electronic Signature and Identity Authentication Enhance Transaction Convenience and Security***

In the digital transaction environment of capital markets, electronic signature and identity authentication technologies have become important means to ensure transaction security and convenience. Electronic signature technology is based on cryptographic principles and authenticates the identity of the signer through digital certificates and other methods, ensuring the integrity and non-repudiation of signed documents. Investors can use electronic signature technology to replace traditional paper signatures when conducting securities transactions, online account opening, signing electronic contracts, and other operations, achieving remote and instant signing, greatly improving the convenience and efficiency of transactions. At the same time, identity authentication technologies such as biometric technology (fingerprint recognition, facial recognition, iris recognition, etc.), dynamic password technology, and multi-factor authentication technology further enhance the identification and verification capabilities of transaction subjects. These technologies, combined with electronic signature technology, effectively prevent risks such as identity theft and fraudulent transactions, providing reliable security for digital transactions in capital markets.[2]

### ***2.3 Innovation Case Analysis***

#### ***2.3.1 Case One: Digital Transformation and Legal Technology Application of Securities Exchanges***

A large securities exchange actively promotes digital transformation and fully introduces legal technology, achieving significant results. The exchange has built a cloud-based trading system that can quickly process a large number of trading orders, ensuring the efficiency and stability of transactions. In the transaction process, smart contract technology has been used to achieve automatic matching and settlement of securities transactions, significantly shortening the transaction cycle and reducing transaction costs. For example, a securities transaction that used to take T+3 working days from order placement to final settlement can now be shortened to T+0 or T+1 with the adoption of smart contracts, improving the efficiency of fund use.

At the same time, the exchange uses big data analysis and artificial intelligence algorithms to monitor and analyze market transaction data in real-time, promptly detecting signs of abnormal trading behavior, such as insider trading, market manipulation, and other illegal and irregular activities. By establishing a risk warning model, when abnormal fluctuations or suspicious transaction patterns are detected in transaction data, the system automatically sends out warning signals, and regulatory personnel can intervene and investigate in a timely manner, effectively maintaining market order. In addition, the exchange has launched an online information disclosure platform, through which listed companies can timely and accurately disclose financial reports, major announcements, and other information in a standardized format. Investors can easily access and analyze this information to make more rational investment decisions.[3]

#### ***2.3.2 Case Two: Intelligent Investment Research Platform of Investment Banks***

A well-known investment bank has created an intelligent investment research platform that fully integrates legal technology and financial analysis technology. The platform uses natural language processing (NLP) technology to automatically capture, clean, and analyze massive amounts of unstructured text data such as news information, research reports, social media data, and regulatory documents, extracting key information and market trend signals. For example, the platform can quickly identify important events related to specific industries or companies from news reports, such as policy changes, new product releases, and management changes, and analyze the potential impact of these events on company stock prices and market trends.

Using machine learning algorithms, the intelligent investment research platform has built industry and company analysis models to deeply evaluate and predict corporate financial conditions, operating performance, competitive advantages, and risk factors. By learning and analyzing historical data, the platform can accurately predict a company's future profitability, cash flow status, and stock price trends,

providing strong support for investment decisions. At the same time, the platform also integrates legal databases and compliance monitoring tools, which can query relevant laws, regulations, and regulatory policies in real-time during investment analysis to ensure the compliance of investment actions. For example, when evaluating corporate merger and acquisition projects, the platform can quickly search for laws and regulations such as antitrust law and securities law, analyze the legal risks that merger and acquisition transactions may face, and provide corresponding strategy recommendations.[3]

### **3. Development and Challenges of Compliance Supervision Technology**

#### ***3.1 Digital Needs of Compliance Supervision***

##### ***3.1.1 Regulatory Complexity Arising from Global Business***

With the acceleration of economic globalization, the business scope of enterprises is no longer limited to the domestic market but has been widely expanded to the international stage. Multinational companies carry out business activities in multiple countries and regions around the world, involving the laws and regulations, regulatory policies, and industry standards of different jurisdictions. For example, a financial group may have branches in Europe, Asia, the Americas, and other regions, engaging in various financial businesses such as banking, securities, and insurance. In this case, enterprises need to comply with the regulations of various countries and regions on market access, capital adequacy, risk management, consumer protection, etc., and regulatory agencies also need to effectively supervise their business activities worldwide. This greatly increases the difficulty of compliance supervision, and the traditional regulatory model based on national sovereignty and territorial boundaries faces huge challenges. Regulatory agencies need to cross borders, coordinate regulatory policies between different jurisdictions, ensure that enterprises comply with operations worldwide, prevent regulatory arbitrage, and maintain the stability of the international financial market.

##### ***3.1.2 New Risks Brought by Digital Business Models***

The rapid development of digital technology has given rise to a series of new business models, such as e-commerce, digital currency, online lending, and financial technology. These digital business models are innovative, convenient, and efficient, but they also bring many new risks and challenges. Take digital currency as an example, the emergence of Bitcoin and other virtual currencies has raised a series of issues regarding currency issuance, payment settlement, anti-money laundering, tax compliance, etc. Due to the anonymity, decentralization, and cross-border nature of digital currency transactions, regulatory agencies find it difficult to track the source and destination of transaction funds, which are easily used for illegal activities, such as money laundering, terrorist financing, and illegal transactions. Online lending platforms face difficulties in credit risk assessment, fund pool risks, illegal fundraising risks, and information security risks. The rapid iteration and innovation of digital business models require regulatory agencies to continuously update their regulatory ideas and methods to adapt to new risk situations and ensure fair, just, and orderly market operations.[4]

##### ***3.1.3 Requirements for Massive Data Processing and Real-time Monitoring***

In the digital age, business activities of enterprises generate massive amounts of data, including transaction data, customer information, financial data, market data, and social media data. These data are not only huge in quantity but also diverse in type and complex in format. Traditional data analysis and processing methods can no longer meet the needs of compliance supervision. Regulatory agencies need to obtain, process, and analyze these data in real-time to monitor the compliance of enterprises and discover potential risks and illegal behaviors in a timely manner.

#### ***3.2 Regulatory Technology Solutions***

##### ***3.2.1 Application of Big Data Analysis Technology in Compliance Supervision***

Big data analysis technology has become a core tool of regulatory technology, providing strong data processing and analysis capabilities for compliance supervision. Regulatory agencies can use big data technology to collect, integrate, and store massive amounts of data from different data sources, including internal enterprise data (such as financial statements, transaction records, customer information, etc.), external data (such as market data, news information, social media data, etc.), and regulatory data (such as laws, regulations, and penalty cases, etc.). By cleaning, transforming, and analyzing these data, regulatory agencies can gain an in-depth understanding of the business status, risk

status, and compliance status of enterprises, discovering potential risk points and illegal behavior patterns.

For example, in anti-money laundering supervision, big data analysis technology can monitor and analyze transaction data of financial institutions in real-time. By constructing complex transaction behavior models, it can identify abnormal transaction patterns, such as large cash transactions, frequent fund transfers, and transactions with high-risk areas or industries. Regulatory agencies can investigate and verify suspicious transactions in a timely manner based on these early warning information, effectively preventing money laundering risks. In securities market supervision, big data analysis technology can analyze stock transaction data, company announcements, news reports, and social media sentiment, predict market trends and stock price fluctuations, and monitor insider trading and market manipulation. By clustering and associating investor transaction behaviors, it can discover abnormal transaction groups and associated accounts, and take regulatory measures in a timely manner to maintain market fairness and stability.[4]

### ***3.2.2 Artificial Intelligence Algorithms Help Identify Risks and Early Warnings***

Artificial intelligence algorithms play an increasingly important role in compliance supervision, especially in risk identification and early warning. Machine learning algorithms can automatically identify risk characteristics and patterns by learning and training a large amount of historical data, constructing risk prediction models.

Natural language processing (NLP) technology can automatically analyze and understand textual data such as corporate documents, reports, and news information. In compliance supervision, NLP technology can be used to monitor the information disclosure of enterprises to ensure compliance with laws, regulations, and regulatory requirements.

In addition, artificial intelligence algorithms can be combined with big data analysis technology to achieve dynamic monitoring and early warning of risks. By collecting and analyzing corporate operation data in real-time, using artificial intelligence algorithms to continuously optimize risk prediction models, new risk factors and trends can be identified in a timely manner, warning signals can be issued, and regulatory agencies can take timely response measures to control risks in their infancy.

### ***3.2.3 Blockchain Technology Enhances Regulatory Transparency and Data Security***

The distributed ledger, immutability, and traceability of blockchain technology bring new solutions to compliance supervision, especially in enhancing regulatory transparency and data security. In the financial regulatory field, blockchain technology can be used to build regulatory sandbox platforms to test and supervise financial innovations and products. Regulatory agencies, financial institutions, and innovative companies can share information on the regulatory sandbox platform and jointly test the compliance and risk status of innovative products. The distributed ledger technology of the blockchain ensures the transparency and immutability of information, allowing regulatory agencies to view the transaction data, risk indicators, and compliance status of products in real-time, and companies can also understand regulatory requirements and feedback in a timely manner, promoting a positive interaction between financial innovation and compliance supervision.[5]

In terms of data security, blockchain technology can provide security for the storage and sharing of corporate data. Companies can encrypt and store important data on the blockchain, control data access permissions through private keys, ensuring data security and privacy. At the same time, the traceability of the blockchain allows the source and usage process of data to be clearly recorded, facilitating regulatory agencies to audit and supervise. For example, in the medical industry, blockchain technology can be used to store patient medical data, patients can authorize medical institutions or research institutions to access specific data, and regulatory agencies can supervise the use of data to prevent data leaks and abuse, protecting patient privacy rights.

## **4. Modernization of Intellectual Property and Digital Copyright Management**

### ***4.1 Intellectual Property Rights Challenges in the Digital Age***

#### ***4.1.1 Digital Content Easy to Copy and Infringement Flood***

The rapid development of digital technology has made the copying of digital content extremely simple and convenient. Whether it is text, images, audio, or video, it can be copied in an instant by simply clicking a few times on the mouse or touching the screen, and the cost of copying is almost

negligible. This easy copyability leads to the flood of infringement. A large number of unauthorized digital works are widely disseminated on the Internet, such as free downloads of pirated music, movies, e-books, etc. Taking the music industry as an example, in the past, music was mainly distributed in physical forms such as records, and copying and dissemination were relatively difficult, requiring professional equipment and certain costs. However, in the digital age, music files can be easily transferred from one device to another, and many music-sharing websites and applications provide free music download services without the permission of copyright owners, seriously damaging the interests of music creators, record companies, and music industry practitioners. Similarly, in the film and television industry, pirated movie resources are rapidly spread on the Internet, affecting box office revenue and subsequent copyright income.

#### ***4.1.2 Difficulties in Protecting Intellectual Property Rights in the Network Environment***

The openness, virtuality, and global nature of the network environment bring many difficulties to the protection of intellectual property rights. On the one hand, it is difficult to determine the subject of infringement. On the network, users can operate using anonymous or pseudonymous identities, making it difficult for copyright owners to track the real identity and geographical location of infringers. For example, on some anonymous forums or social platforms, users can easily upload and share infringing content, and platform managers find it difficult to accurately identify infringers among a large number of users. On the other hand, it is more difficult to obtain and fix evidence of infringement. Digital content is widely disseminated on the network at high speed and can be easily deleted or modified, which brings great challenges to copyright owners in collecting evidence of infringement.[5]

#### ***4.2 Application of Legal Technology in Intellectual Property Management***

##### ***4.2.1 Blockchain Technology for Intellectual Property Registration and Tracing***

Blockchain technology, with its distributed ledger, immutability, and traceability, provides innovative solutions for the registration and tracing of intellectual property rights. In terms of intellectual property registration, creators can record information about their works, such as the name of the work, creation time, author identity, and content summary, on the blockchain through encryption algorithms. Each node on the blockchain saves a complete copy of the ledger, ensuring the security and reliability of the registration information. Once the information is recorded on the blockchain, it cannot be tampered with, providing conclusive evidence for the ownership of intellectual property rights. For example, some digital art creators register their works on blockchain platforms, generating unique digital certificates as proof of work copyright, which is gradually recognized in the digital art market.

In terms of intellectual property tracing, blockchain technology can record the entire process from the creation to the dissemination of works. Every authorization use, transfer transaction, and other information about the work will be recorded on the blockchain, forming a complete traceability chain. This allows copyright owners to clearly track the flow of works and promptly discover the occurrence of infringement. For example, in music copyright management, through blockchain technology, the distribution, authorized playback, copyright transfer, and other links of music works can be accurately recorded, and copyright owners can monitor the use of works in real-time to ensure their rights are protected.

##### ***4.2.2 Artificial Intelligence Technology Assists in Intellectual Property Infringement Monitoring***

Artificial intelligence technology plays an increasingly important role in the monitoring of intellectual property infringement. Image recognition technology based on deep learning algorithms can quickly compare massive amounts of images to identify images similar to copyrighted works. For example, in the copyright protection of photographic works, artificial intelligence systems can scan image libraries on the Internet to detect unauthorized use of specific photographic works. Text analysis technology can analyze a large amount of text content to determine whether there is plagiarism. For literary works, academic papers, etc., artificial intelligence can compare vocabulary, grammatical structure, semantics, and other features to find text paragraphs similar to known copyrighted works, assisting copyright owners in discovering infringement.[6]

In addition, artificial intelligence technology can monitor online public opinion, social media, and other channels to promptly discover hot topics related to intellectual property rights and potential infringement clues. For example, when a brand's trademark is mentioned a lot on social media and there is suspected infringement, the artificial intelligence system can automatically issue an early warning to remind the brand owner to pay attention and take corresponding measures. At the same time,

artificial intelligence technology can continuously learn and optimize infringement monitoring models to improve the accuracy and efficiency of monitoring, adapting to constantly changing infringement methods and forms.

### ***4.2.3 Big Data Analysis Optimizes Intellectual Property Value Assessment***

Big data analysis brings new methods and ideas to the assessment of intellectual property value. By collecting and analyzing a large amount of data related to intellectual property rights, such as market transaction data, industry development data, consumer behavior data, and work dissemination data, a more comprehensive and accurate assessment of the value of intellectual property rights can be made. In terms of patent value assessment, big data analysis can consider factors such as the technological innovation of patents, market demand, and the layout of competitors' patents. For example, by analyzing the patent application trends, technological development directions, and market demand for specific technologies in related industries, the application potential and economic value of a patent in the future market can be assessed.

For copyright works, big data analysis can assess their value based on the dissemination range, audience characteristics, and popularity of the works. For example, a movie's box office revenue, online playback volume, and social media attention can all serve as important basis for assessing its copyright value. At the same time, big data analysis can also combine with changes in the market environment and industry competition to dynamically adjust the intellectual property value assessment model, providing a more scientific and reasonable value reference for the transaction, authorization, and financing of intellectual property rights, and improving the efficiency of the intellectual property market operation.

## **5. Collaborative Innovation Mechanism of Legal Technology Integration**

### ***5.1 Cross-domain Cooperation Model***

Cross-domain cooperation is the key to achieving the integration of legal technology. The public-private partnership (PPP) model has been widely applied in practice, with governments, enterprises, and research institutions participating in the research and development and promotion of legal technology projects. Governments provide policy support and financial guidance, enterprises play the role of market entities, investing in research and development resources and application practices, and research institutions provide technical innovation and theoretical research support. For example, governments and enterprises cooperate to establish legal technology research and development centers to promote the application of new technologies in the legal field. In addition, the formation of industry alliances also promotes exchanges and cooperation between different entities, jointly formulates industry standards and specifications, and promotes the healthy development of the legal technology industry.

### ***5.2 Technology-driven Legal Service Innovation***

Technological innovation continues to drive the transformation of legal service models. Online dispute resolution (ODR) platforms use Internet technology to provide parties with convenient and efficient dispute resolution methods. Parties can resolve disputes through video conferences, online negotiations, and other methods, reducing the cost of rights protection. Artificial intelligence legal consultation systems can provide preliminary legal advice to users, answer common legal questions, and improve the accessibility of legal services. At the same time, big data analysis technology provides lawyers with more comprehensive case references and legal research support, helping lawyers better serve their clients.[6]

### ***5.3 Policy and Regulatory Support***

Governments and regulatory agencies play an important role in the integration of legal technology. In terms of policy, governments should introduce innovative policies and measures, such as tax incentives and financial subsidies, to stimulate the innovation vitality of enterprises and research institutions. For example, tax reductions for enterprises developing legal technology products can encourage them to increase research and development investment. In terms of regulation formulation, it is necessary to update and improve relevant laws and regulations in a timely manner to provide a legal framework for the application of legal technology. At the same time, regulatory agencies should

strengthen the supervision of legal technology products and services to ensure their legal and compliant operations and protect user rights and interests.

## 6. Conclusion

This study deeply analyzes the integration and innovation of legal technology in capital markets, compliance supervision, and intellectual property rights. In capital markets, digital transformation has promoted the innovation of transaction models, and legal technology such as smart contracts and risk assessment software plays a key role, improving transaction security, efficiency, and transparency, and many innovative cases have shown its positive impact. In terms of compliance supervision, digital needs stem from the globalization of business, new business risks, data processing challenges, and consumer rights protection needs, and regulatory technology provides solutions with the help of big data, artificial intelligence, blockchain, and other technologies, while cross-border compliance faces regulatory differences and data protection difficulties, and international cooperation is crucial. In the field of intellectual property rights, the digital age brings challenges such as rampant infringement, protection difficulties, vague boundaries, and complex compensation calculations, and legal technology responds with means such as blockchain registration and tracing, artificial intelligence monitoring, big data evaluation, and online platform transaction authorization, and international treaties, dispute resolution mechanisms, and law enforcement cooperation assist in the protection of intellectual property rights at the international level.

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