

2.1 Tokenization & Regulation

While the blockchain allows for trust mitigation, peer-to-peer transactions, and verifiably true execution via smart contracts, the world of digital assets is currently still quite disconnected from the real world. Experts agree that for blockchain technology to reach its true potential there is a need for real-world asset (RWA) integration. Integrating RWAs promises tremendous efficiency gains across a significant variety of sectors. However, as we venture deeper into this confluence of the digital and tangible, there's an undeniable requirement for clear regulatory guidelines. Such measures are essential to safeguard users, especially those who might not have a comprehensive understanding of the intricate workings of the technology.



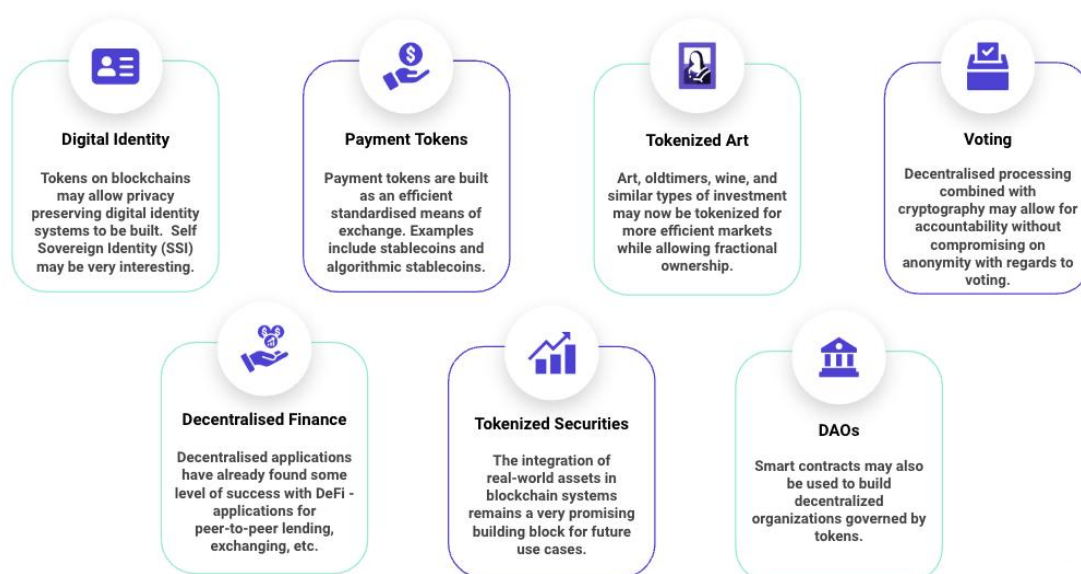
In this chapter, we will delve into the intricate legal considerations surrounding blockchain and cryptocurrency, primarily within the European Union. We will also explore the transformative concept of tokenization and its potential value in modern digital economies. Lastly, we'll cast an eye to the future, discussing the possible trajectories and outlooks for these technologies in the coming years.

1. Tokenization and Security Tokens: A Primer

Tokenization, in the context of blockchain and cryptocurrency, refers to the process of converting rights to an asset into a digital token on a blockchain. Essentially, it's a method of representing ownership or a stake in something real—be it a physical object, an intangible asset, or even a set of rights—through a digital medium. By doing so, tokenization can unlock a plethora of benefits, especially in the realm of finance and asset management.

Imagine owning a piece of artwork, a share in a company, or rights to a stream of revenue. Traditionally, the ownership of these assets would be documented on paper or through centralised databases. The transfer, sale, or splitting of these assets would require cumbersome paperwork, intermediaries, and often, significant time. Tokenization simplifies this by turning these rights into tokens that can be easily traded, transferred, or divided on a blockchain. The key advantages here are liquidity and accessibility. Assets that were previously illiquid or hard to divide, such as real estate or art, can now be tokenized, allowing multiple people to own fractions of these assets. This fractional ownership can be traded on secondary markets, providing owners with more flexibility and liquidity.

Now, when we talk about tokenization, it's essential to distinguish between the various types of tokens. Tokens are units of account that utilise the consensus protocol of another chain. While there are several categories, for the purpose of this chapter, the focus will be on security tokens.



Token Types: Overview

2. Security Tokens

Security tokens are a subset of the broader tokenized landscape. They represent ownership in a real-world asset, be it equity in a company, a share of profits, a piece of real estate, or any other form of investment. Essentially, they are digital contracts for fractions of any asset or right.

The distinction between security tokens and other tokens, such as utility tokens, is crucial. While utility tokens provide users with future access to a product or service, security tokens derive their value from an external, tradable asset. Because they represent a stake in a company or project, they are subject to the regulatory framework of securities, and this is where they get their name. Using a more traditional example, stocks are also securities. The rise of security tokens on blockchains brings several benefits:

- **Increased Liquidity:** As mentioned, tokenizing assets can make previously illiquid assets tradable, opening up new avenues for investment and trading.
- **Fractional Ownership:** Tokenization allows assets to be divided into smaller units, letting more people invest with a lower entry barrier.
- **Automated Compliance:** Smart contracts on blockchains can be programmed to automate certain regulatory and compliance requirements, making the process smoother and more efficient.
- **Global Markets:** By tokenizing assets, they can be traded on global markets, expanding the potential pool of investors and liquidity while enabling global access.

However, it's also worth noting the challenges. The regulatory landscape for security tokens is still evolving. Given that they fall under securities law, there's a need for clear guidelines and frameworks to ensure investor protection and market integrity. Furthermore, the technology and infrastructure for trading and managing security tokens are still in their nascent stages, requiring further development and standardisation.

3. The need for regulation

The regulation of security tokens is paramount, particularly in light of the Initial Coin Offering (ICO) frenzy of 2017. During this period, numerous projects raised billions of dollars through ICOs, often based on little more than whitepapers filled with grand promises. Many of these projects lacked transparency, had ill-defined goals, or were outright scams, leading to significant losses for

uninformed and unsuspecting investors. Without proper regulatory oversight, such a landscape is rife with misconduct, fraud, and potential manipulation. Regulation not only ensures that token issuers meet certain standards of transparency, accountability, and investor protection but also helps instil confidence in the market. By providing a clear framework for the issuance and trading of security tokens, regulations can foster a more stable, trustworthy, and mature ecosystem, allowing genuine projects to flourish while shielding investors from undue risks.

The primary objective of any financial regulation is to protect investors. In the context of security tokens, this means ensuring that issuers provide accurate and complete information about their projects, that tokens are traded in a fair and transparent manner, and that investors have recourse in the event of misconduct. Without such regulations, the market for security tokens could devolve into a Wild West scenario, where bad actors exploit the lack of oversight to defraud investors.

Additionally, regulation provides a clear path for legitimate businesses to operate within the confines of the law. This clarity is essential for attracting institutional investment, which often remains on the sidelines in the absence of well-defined rules. Institutional participation can bring substantial liquidity and credibility to the security token market, further stabilising it and promoting its growth.

4. MiCA

Given the borderless nature of blockchain technology, there is a pressing need for global coordination in regulating security tokens. Thus far, most regulation has mostly been at the national level. However, the European Union has taken a significant step in creating a standardised token regulation. The Markets in Crypto-Assets Regulation (MiCA) which takes effect in 2024. Under this regulation, the EU aims to become the first major jurisdiction in the world with a comprehensive, tailored law for the crypto sector. The primary purpose of MiCA is to ensure legal clarity for businesses and to attract more investments to the region, thus cementing the EU's position in the global crypto economy. This law, which will apply across 27 countries, aims to represent nearly one-fifth of the global economy.

MiCA's foundation is largely based on the existing EU rules for securities trading but has been adapted to address the unique challenges and opportunities presented by the crypto sector. Companies wishing to offer crypto services, whether that involves trading, custody, portfolio management, or advice, will be mandated to obtain authorisation from one of the EU's 27 national financial regulators.

Furthermore, any company intending to offer crypto assets to the public will be required to publish a white paper that is transparent, fair, and adequately warns potential buyers of associated risks.

A significant portion of MiCA addresses stablecoins due to their growing relevance in the crypto market. Recognising their potential impact, especially after events like the terraUSD instability in 2022, MiCA ensures that these assets, known as "e-money tokens" (EMTs) or "asset-referenced tokens" (ARTs), maintain appropriate reserves and robust governance. Notably, the regulation sets a cap on transactions for stablecoins not pegged to an EU currency, limiting them to a maximum of 1 million transactions per day.

The European crypto industry has largely welcomed MiCA, recognising the benefits it offers in terms of legal clarity and the potential for attracting investments from the conventional finance sector. However, with these advantages come challenges, including strict compliance measures and potential million-euro fines for non-compliance.

MiCA has also raised some controversies, especially during its formulation phase. For instance, there were debates over the inclusion of measures against energy-intensive proof-of-work technologies. While these measures were eventually dropped, crypto firms are still required to disclose their environmental impacts.

The global implications of MiCA are vast. Given the "Brussels effect," where multinational companies tend to adopt a single set of standards, MiCA might set a precedent for other nations, influencing their approach to crypto regulation. In fact, legislators from countries like the U.S. and U.K. have shown interest in the EU's regulatory framework, suggesting that they might implement similar regulations in the future.

Find the full text of the MiCA regulation here: <http://data.europa.eu/eli/reg/2023/1114/oj>

Additional Information may be found on the website of the European Securities and Markets

Authority: <https://www.esma.europa.eu/esmas-activities/digital-finance-and-innovation/markets-crypto-assets-regulation-mica>



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