

iAssets: Programmable Real World Assets

By INJECTIVE RESEARCH

Traditional financial markets operate within rigid frameworks that restrict composability, create inefficiencies in capital allocation, and impose barriers to accessibility. While decentralized finance (DeFi) introduced programmability and permissionless market access, early implementations remained capital-inefficient, often requiring excessive collateralization and leading to sequestered liquidity. Injective introduces iAssets, a new class of programmable financial primitives that enable dynamic liquidity allocation, position-based exposure, and cross-market composability. Unlike static tokenized assets, iAssets function as on-chain instruments with second-order utility and no pre-funding constraints. This paper outlines the mechanisms behind iAssets and explains how Injective serves as the settlement layer for a fully composable financial system.

1 Introduction

Financial markets rely on standardized contracts, centralized clearinghouses, and institutional frameworks to manage risk and liquidity flows. While these structures provide stability, they also introduce capital inefficiencies, limit accessibility, and restrict financial innovation.

Tokenization was introduced as a way to digitally represent assets on-chain, offering the potential for greater accessibility and liquidity across markets. However, existing implementations have fallen short in unlocking financial composability, as most tokenized assets remain static representations, created by locking capital to mint synthetic representations. This circumvents technical hurdles, trading off asset programmability and utility extension for ease of on-chain issuance. While this model has been a successful innovation thus far, it remains an incomplete solution, leaving significant potential unrealized.

Injective introduces iAssets, a new paradigm for financial markets where real-world assets are no longer confined to passive representations. Unlike traditional tokenization models, iAssets are composable financial primitives, allowing assets to function across applications and financial strategies, such as lending, hedging, and yield generation. This approach moves beyond conventional tokenization by offering a capital-efficient, institutional-grade alternative to legacy financial structures. By transforming financial assets into programmable building blocks, iAssets unlock new opportunities for market participants, enabling greater efficiency and composability across financial applications.

The following sections examine the structural inefficiencies in traditional finance (TradFi), the design and mechanics of iAssets, and how Injective enables a composable financial system that vastly improves capital efficiency, market structure, and liquidity provisioning.

2 The Limitations of Traditional Finance

Despite its dominance, traditional finance remains defined by centralized institutions, rigid financial agreements, and restricted market access. While these mechanisms were designed to ensure stability and mitigate risk, they have also led to capital inefficiencies, settlement delays, and exclusionary financial practices that limit the ability of assets to move freely across markets.

2.1 Settlement Delays & Inefficiently Locked Capital

One of the core inefficiencies of TradFi is its reliance on clearinghouses, such as DTCC (Depository Trust & Clearing Corporation) and LCH (London Clearing House), to facilitate post-trade processing and settlement. While these intermediaries reduce counterparty risk, they introduce significant delays and capital lock-ups.

Most financial transactions follow T+1 or T+2 settlement cycles, meaning funds remain inaccessible for 24 to 48 hours before clearing. These delays create liquidity traps, forcing institutions to hold excess reserves to meet margin requirements and preventing capital from being redeployed efficiently. Operationally, these bottlenecks introduce significant opportunity costs for market participants, particularly in volatile markets where access to immediate liquidity is critical.

2.2 Restricted Market Access

Access to financial markets remains highly exclusive, with many asset classes—including structured products, derivatives, and private credit—available only to institutional investors and accredited participants. This exclusivity is reinforced by regulatory barriers, fixed trading schedules, and preferential access to over-the-counter (OTC) markets.

- **Fixed trading schedules limit full market access.** Exchanges such as the NYSE operate on fixed hours (9:30 AM - 4 PM EST), preventing trading outside of institutional-friendly hours and restricting global participation.
- **Regulatory accreditation requirements exclude retail investors.** Many financial products require investors to meet strict financial and legal thresholds, restricting access to private markets and advanced trading instruments. This regulatory framework reinforces a system where only

high-net-worth and institutional investors can participate in higher-yield opportunities.

- **Institutions gain preferential access to OTC markets.** Large financial entities can execute over-the-counter trades, bypassing public exchanges and gaining better liquidity and pricing. These privately negotiated markets create an advantage for institutions while limiting opportunities for smaller market participants.

These restrictions create an uneven playing field where financial innovation primarily benefits large market participants while excluding retail and smaller institutional traders.

2.3 ISDAs: Market Exclusivity in TradFi

A specific example of TradFi's rigid structure can be seen in ISDA (International Swaps and Derivatives Association) agreements, which govern the \$500+ trillion global derivatives market. These agreements provide standardized rules for counterparty risk, collateralization, and settlement, ensuring that financial institutions can trade derivatives with legal protections.

While ISDAs have created a structured risk management framework, they have also reinforced exclusivity and inefficiency. ISDA agreements require extensive legal bureaucratic processing, making them inaccessible to most market participants. Only large institutions with significant legal and financial resources can engage in ISDA-covered trading, leaving smaller firms and individuals locked out of one of the largest financial markets in existence.

Beyond exclusivity, ISDAs also contribute to slow, manual processes that hinder financial efficiency. Unlike DeFi, where smart contracts execute trades automatically based on predefined logic, ISDA-covered trades often require manual collateral adjustments, margin calls, and legal reviews before settlement. This results in delays, increased costs, and unnecessary friction in a market that could otherwise operate far more efficiently.

Even attempts to modernize ISDAs through electronic contracts and automated processing have failed to address the core issue: financial agreements in TradFi remain institutionally controlled, legally complex, and operationally inefficient. Instead of democratizing access to derivatives markets, ISDA agreements cement these instruments firmly within the hands of the largest banks and financial institutions.

2.4 Capital Inefficiency & Segregated Liquidity

Traditional financial systems require capital to be pre-funded for individual transactions, restricting liquidity from moving dynamically across markets. Reg-

ulatory frameworks such as Basel III impose strict reserve requirements, forcing institutions to hold idle collateral reserves rather than deploying capital in a productive manner. Instead of responding to real-time market needs, liquidity remains fragmented across segregated pools, limiting composability and reducing the utility of existing assets.

2.5 Opacity in Prime Brokerage & Systemic Risk

Opacity is unfortunately a core aspect of TradFi's centralized financial infrastructure, amplifying risk while attempting to facilitate multipurpose asset utility. Nowhere is this more evident than in prime brokerage, a critical service offered by large financial institutions to hedge funds, proprietary trading firms, and institutional investors.

Prime brokers engage in rehypothecation, a process where client assets—such as securities posted as collateral—are reused for additional lending. In theory, this increases capital efficiency by allowing more trading activity with fewer idle assets. However, in practice, it creates hidden leverage and systemic fragility. When the same collateral is pledged multiple times across different counterparties, financial institutions and market participants become exposed to cascading risks that are neither visible nor properly accounted for.

The absence of real-time transparency in prime brokerage means that even sophisticated institutions often lack full visibility into their true counterparty exposure. As a result, financial firms may assume they hold sufficient collateral against outstanding obligations, only to find that liquidity mismatches emerge during market stress. This risk is further compounded when firms borrow extensively through synthetic financial instruments, such as total return swaps (TRS), which provide leverage without requiring asset ownership.

The 2008 collapse of Lehman Brothers highlighted the systemic dangers of rehypothecation within an opaque financial system. As a major prime broker, Lehman extensively reused client collateral, creating hidden leverage that neither counterparties nor regulators fully understood. When market conditions deteriorated, firms relying on Lehman's financing discovered that their pledged assets had been rehypothecated multiple times, rendering them inaccessible. The resulting liquidity shortfall triggered a wave of forced liquidations, exacerbating market contagion and accelerating Lehman's bankruptcy. This event underscored how opacity in prime brokerage makes it impossible to accurately assess risk, leaving financial institutions vulnerable to sudden liquidity crises.

Despite regulatory efforts following 2008, prime brokerage remains structurally opaque, with collateral movements, margin exposure, and leverage ratios internally managed by financial institutions rather than being transparently auditable. This lack of visibility distorts risk pricing and liquidity provisioning, as neither market participants nor regulators can track recursive collateralization structures

in real time. Without transparent mechanisms for collateral tracking and counterparty exposure, financial institutions continue to accumulate hidden leverage, reinforcing the fragility of global markets.

2.6 Intermediary-Driven Market Structure

Most financial transactions require multiple layers of intermediaries—brokers, clearinghouses, custodians, and settlement banks—each adding execution delays, counterparty risks, and additional fees. Even in highly liquid markets such as foreign exchange (FX), centralized entities like CLS (Continuous Linked Settlement) control settlement, limiting capital mobility and increasing both cost and risk exposure for market participants.

These inefficiencies are not incidental—they are fundamental to how TradFi currently operates. While attempts have been made to modernize financial infrastructure through electronic agreements and incremental settlement improvements, these solutions fail to address the core issue: financial assets remain locked within institutionally controlled silos, preventing them from being deployed efficiently across financial applications.

A new financial framework is required—one that removes intermediary dependencies, eliminates settlement delays, and allows assets to move freely across markets.

3 *iAssets*: A New Hybrid Financial Primitive

The evolution of financial markets requires a new class of financial primitives that move beyond the inefficiencies of existing financial systems. Traditional markets rely on institutionally controlled infrastructure, static financial agreements, and pre-funded capital requirements, while early blockchain-based solutions have struggled to establish frameworks that enable dynamic liquidity movement and capital efficiency across applications.

3.1 Early DeFi Shortcomings: The Flawed CDP Model

While TradFi's inefficiencies stem from institutional and regulatory constraints, DeFi's early challenges were primarily technical and economic in nature. During the initial wave of innovation, many protocols attempted to introduce synthetic assets to replicate real-world financial instruments, but they relied on collateralized debt positions (CDPs)—a design that imposed excessive capital requirements and failed to scale efficiently.

One of the most well-known implementations of this model emerged in 2021, when protocols allowed users to mint on-chain synthetic stocks and commodities.

However, these solutions required 150%+ collateralization, forcing users to lock excess capital to maintain their positions. This introduced severe inefficiencies:

- **Capital Inefficiency:** Instead of capital being actively deployed in markets, it remained locked in smart contracts, reducing liquidity and economic utility.
- **Systemic Fragility:** If collateral values dropped, forced liquidations triggered cascading sell-offs, leading to death spirals where asset values collapsed.
- **Accessibility Barriers:** High collateral requirements made participation prohibitively expensive, preventing retail traders and smaller institutions from effectively using synthetic assets.

Instead of solving TradFi's exclusivity problem, DeFi's early implementations recreated a different version of the same inefficiencies, swapping legal constraints for economic limitations.

3.2 iAssets: A New Hybrid Asset Class for TradFi & DeFi

The inefficiencies of early DeFi models, coupled with the institutional bottlenecks of TradFi, highlight the need for a new approach to on-chain financial instruments. What's missing is an infrastructure layer that upends standard tokenization processes, enabling real-world assets to be imbued with the technological capabilities of native digital assets, rather than merely creating 1:1 on-chain representations.

iAssets introduce a fundamentally different model, designed to enable capital efficiency, composability, and real-time liquidity movement across financial applications. Injective's approach transforms financial instruments into true digital assets, where programmability and second-order utility is inherently present from day one. As a result, iAssets function as active components of an on-chain economy, designed for real-time liquidity demands and multipurpose utility.

3.3 The Mechanics of iAssets

The instantiation of an iAsset is only possible via Injective's specialized financial infrastructure and liquidity environment. Injective is a high-performance, interoperable blockchain optimized for on-chain finance, providing a modular architecture that enables institutional-grade trading capabilities, end-to-end asset tokenization, and network-level liquidity. Unlike traditional synthetic assets, which rely on pre-funded collateral pools and isolated liquidity models, iAssets are natively integrated into Injective's network-level liquidity provisioning, chain-level exchange infrastructure, and automated market-making system. This foun-

dational architecture enables iAssets to function as capital-efficient, composable financial instruments without requiring user collateralization or capital lock-ups.

The issuance of an iAsset involves three core components, powered by Injective Web3 modules*:

1) Price Sourcing via the Oracle Module

- iAssets derive their value from off-chain financial instruments, such as stocks, indices, and commodities.
- The Oracle Module securely sources and delivers these price feeds to Injective’s on-chain infrastructure, ensuring real-time market tracking.
- This module is directly integrated with Injective’s suite of modules, allowing for instant market creation and trading.

2) Market Creation via the Exchange Module

- A market for the iAsset is permissionlessly created on Injective’s Exchange Module—a fully decentralized spot and derivatives exchange that operates using an on-chain central limit order book (CLOB).
- Any base asset can serve as the collateral pair for an iAsset, though stablecoins are commonly used for price stability.
- The Exchange Module is powered by a diverse set of prominent financial firms and professional market makers, ensuring deep liquidity from the outset.

3) Liquidity Management & Market Making

- Unlike traditional synthetic assets that require pre-funded collateral pools, iAssets rely on Injective’s shared liquidity network, allowing capital to be dynamically allocated in real-time based on market demand.
- Market makers supply liquidity to the newly created market, treating it like any other trading pair.
- As more liquidity providers (LPs) and traders enter the market, institutional market makers automatically adjust liquidity provisioning to meet trading activity.
- Injective’s anticipated Liquidity Availability architecture will significantly enhance the depth and efficiency of real-time liquidity allocation and management, bolstering the advantages of leveraging iAssets.
- No collateralization is required from users, making iAssets far more capital-efficient than over-collateralized synthetic assets.

*Modules are foundational components in Injective’s blockchain architecture, each built to provide specific functionalities. A module is essentially a self-contained unit with well-defined logic and services, allowing Injective to efficiently manage diverse operations across the network. Modules work like building blocks that can be combined to expand the blockchain’s capabilities. This approach reduces the friction and technical complexity of implementing core features, making development easier. Each module operates independently but communicates with others through inter-module messaging, making Injective’s architecture modular and adaptable. This allows Injective to continuously evolve, delivering targeted upgrades and functionality without overhauling the entire system.

Once live, the iAsset becomes fully tradable on-chain, supporting a wide range of advanced order types, including limit orders, market orders, take-profit/stop-loss (TP/SL), atomic orders, and more. Beyond trading, iAssets can be directly plugged into diverse use cases, secondary markets, etc., providing day-one utility rather than merely being a replica of a real world asset.

3.4 Composability & Market Integration

iAssets integrate directly into Injective's financial infrastructure, enabling deployment across trading, lending, derivatives, and structured products without requiring dedicated liquidity segmentation. Unlike tokenized assets that often rely on isolated liquidity pools, iAssets function within a network-wide liquidity framework, ensuring capital can be efficiently allocated across multiple financial applications.

Multipurpose Utility Due to Injective's architecture and the iAsset design, rehypothecation of assets becomes a native feature without sacrificing on transparency. This would allow users to optimize liquidity allocation while maintaining execution availability and comprehensive risk management.

As such, this unlocks the potential for iAssets to be:

- **Used as collateral for leveraged trades.** Traders could post iAssets as margin to access leverage, expanding capital efficiency without requiring additional liquidity reserves.
- **Generate yield while remaining available for execution.** iAssets could be allocated into yield-bearing strategies without being locked, ensuring they could still be deployed for trading or risk management when needed.
- **Integrated into structured products that dynamically hedge risk.** iAssets could be incorporated into automated strategies that rebalance exposure based on market conditions, allowing for more sophisticated risk management.

For example, consider Apple, the largest company globally. If an iAsset was created called iAAPL, several advantages would exist relative to typical tokenized assets or TradFi instruments:

- **24/7 Trading Access:** The ability to access on-chain markets at anytime globally.
- **Use as Collateral:** Leverage trading, maintain exposure within an open limit order, lending, etc.

- **Automation:** Algorithmic strategies could utilize funding rate yields to dynamically hedge portfolio risk or fuel yield optimization techniques.
- **Full Transparency:** Easily audit and track rehypothecation to avoid systematic risks, manually or programmatically.

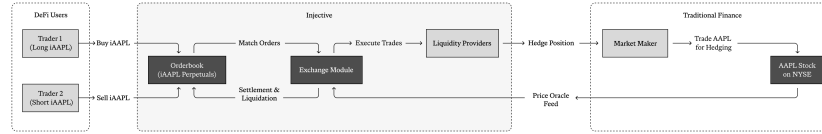


Figure 1. iAsset Framework

As the proliferation of iAssets takes full form, the potential for sophisticated financial engineering will continue to grow. Such capabilities will allow for a more secure and dynamic financial environment inherently superior to conventional off-chain venues.

Market-Level Composability Traditional assets and early DeFi models rely on market-specific liquidity infrastructure, forcing capital to be allocated into separate, non-transferable pools and venues. The design of how iAssets are created and structurally exist on-chain eliminates these barriers, enabling native composability across markets without additional integrations or custom solutions.

- **Cross-Application Trading & Settlement:** iAssets can be utilized across multiple financial primitives, eliminating restrictions imposed by asset-specific smart contracts.
- **Interoperability Across Market Types:** iAssets enable fluid interaction between spot trading, derivatives, structured products, and lending applications without requiring conversion or liquidity migration.
- **Programmability in Market Design:** iAssets can be algorithmically deployed into automated market-making strategies, structured financial instruments, or collateralized portfolios, allowing for new forms of financial engineering.

By enabling cross-market composability, iAssets facilitate a more adaptable and efficient financial system, where assets can move freely between trading, lending, and structured strategies without functional constraints.

3.5 Liquidity Dynamic & Risk Management

Dynamic Liquidity Utilization Unlike traditional assets, iAssets operate within a network-wide liquidity provisioning framework that enables assets to move freely between financial applications without pre-funding constraints.

- **On-Demand Capital Allocation:** iAssets are not restricted to pre-funded contracts but instead allocate liquidity dynamically across trading, lending, and structured finance applications based on real-time market conditions.
- **Continuous Liquidity Deployment:** Unlike AMMs or CDPs, iAssets ensure that liquidity remains accessible for execution, margin collateral, and secondary market demand.
- **Cross-Application Liquidity Flow:** iAssets allow for capital to be efficiently redeployed across multiple strategies, eliminating the need for liquidity fragmentation across isolated pools.

Risk Management Without Over-Collateralization The reliance on over-collateralization in DeFi has historically resulted in systemic inefficiencies, cascading liquidations, and capital constraints. iAssets introduce a more flexible risk model that optimizes exposure without forcing excessive capital lockups.

- **Position-Based Risk Controls:** iAssets enable controlled exposure without requiring static over-collateralization, reducing capital inefficiencies while maintaining financial stability.
- **Adaptive Liquidity Protection:** Market conditions dictate real-time liquidity adjustments, ensuring that capital remains efficiently allocated while mitigating liquidation risk.
- **Programmable Risk Management:** iAssets can be integrated into automated risk management strategies, allowing for dynamic exposure adjustments without manual intervention.

By eliminating the liquidity inefficiencies across both TradFi and early DeFi models, iAssets create a financial system where capital is always deployable, liquidity remains accessible, and risk management is adaptive rather than restrictive.

3.6 A New Market Structure

Traditional financial markets rely on centralized intermediaries for trade processing, clearing, and enforcement, leading to settlement delays, capital lock-ups, and restricted access to structured financial products. iAssets remove these constraints by bringing financial agreements on-chain, enabling:

- **Immediate Settlement:** No reliance on clearinghouses like DTCC or manual reconciliation.
- **Open Market Participation:** No accreditation barriers preventing access to structured products.

- **Global Trading Without Restrictions:** No exchange-imposed market hours or jurisdictional limitations.

By introducing programmable exposure, composable risk management, and flexible asset allocation, iAssets enable the next evolution of on-chain financial markets. This innovation creates new opportunities for traders, institutions, and liquidity providers:

- **Programmable Trading Strategies:** Set on-chain execution logic for automated trading strategies, replacing the manual processes of traditional derivatives markets.
- **Dynamic Hedging Mechanisms:** Adjust exposure, collateral, and leverage conditions dynamically to enhance overall position management capabilities.
- **Algorithmic Market-Making:** Adjust liquidity provisioning dynamically, making markets more efficient and reducing reliance on centralized liquidity providers.

These possibilities make iAssets fundamentally different from existing DeFi synthetic assets or tokenized TradFi products—they are not just representations of financial assets, but self-executing financial instruments that remove inefficiencies from the system.

4 Injective’s Composable Financial Ecosystem

Injective is uniquely positioned to pioneer this new financial paradigm due to its native infrastructure, modular design, and institutional-grade performance. Unlike generic blockchain solutions, Injective’s ecosystem is specifically built to host advanced financial markets while ensuring:

- **Exchange-Optimized Liquidity:** Injective’s on-chain order book and frequent batch auction models provide an optimal foundation for liquidity-efficient trading with minimal slippage.
- **Real-World Asset Tokenization Infrastructure:** Injective’s RWA module ensures that iAssets can integrate real-world instruments while preserving programmability and composability.
- **Integrated Risk & Market Structures:** Unlike standalone DeFi protocols, Injective allows liquidity to move natively across financial applications through its shared liquidity layer and anticipated Liquidity Availability architecture, ensuring iAssets are efficiently utilized across trading, lending, and structured products.

4.1 The Role of Liquidity Availability in iAssets

Liquidity Availability is a novel framework introduced by Injective, aimed at tackling the problem of Application-Specific Liquidity inherent across all network architectures. Ostensibly, this approach decouples applications from their liquidity bases, empowering networks to ensure the successful execution of a transaction at any given moment.

Key innovations introduced include:

- **Just-in-Time (JIT) Actions:** Actions that respond to specific changes in the chain state when certain trigger conditions are met. These actions are designed to optimize the allocation of various resources by dynamically reallocating them as needed.
- **Liquidity Proving:** A mechanism where dApps provide verifiable proofs that they possess the liquidity required to meet obligations and JIT Action servicing.
- **Solver & Routing Layer:** The decision-making engine within the Liquidity Availability framework, responsible for optimizing and dynamically routing liquidity based on real-time network conditions.

The solution posited by Injective will play a key role in further enhancing the effectiveness and utilization of iAssets. At a high level, Liquidity Availability on Injective will provide improved liquidity depth, network-wide capital efficiency, and lower barriers for entry and participation in the iAsset economy.

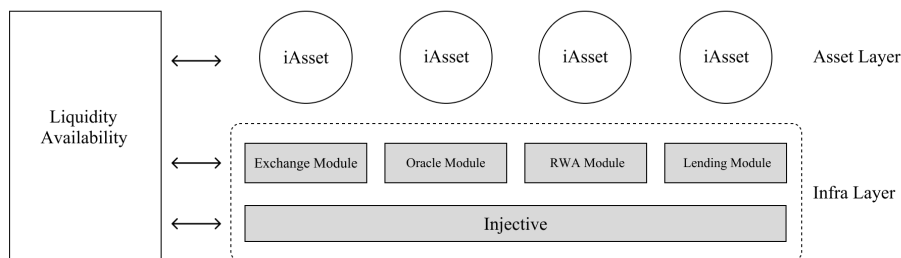


Figure 2. Liquidity Availability: iAsset Architecture

While iAssets eliminate liquidity fragmentation at the asset level, Liquidity Availability eliminates it at the intra-application and network level. Wholistically, these innovations work together to reinforce a decentralized environment where liquidity becomes an omnipresent, network-wide resource.

4.2 Network Effects

iAssets bolster Injective’s financial ecosystem by creating a more efficient liquidity model that encourages active market participation. Instead of sequestering capital, iAssets ensure liquidity remains continuously engaged across financial markets. By removing rigid collateral constraints, they attract liquidity providers and market participants seeking capital flexibility, allowing assets to be deployed multifunctionally. This expanded capital utility lowers barriers to entry for both institutional and retail users while reinforcing Injective as the base layer for capital-efficient financial markets.

Beyond liquidity incentives, iAssets accelerate network effects by enabling new financial instruments and trading strategies that were previously impractical to implement. Their programmability allows for the creation of structured products, algorithmic hedging mechanisms, and dynamic exposure models, fostering deeper integration across financial applications. As these instruments proliferate, Injective’s role as the settlement layer for next-generation financial markets is reinforced, ensuring that liquidity, capital efficiency, and financial innovation remain at the core of its ecosystem.

5 Future Considerations & Open Questions

While iAssets present a significant advancement in financial composability and capital efficiency, certain challenges and areas for exploration remain. Ensuring deep liquidity across all financial applications, refining risk management strategies, and expanding iAssets to accommodate a broader range of real-world instruments, are key areas that warrant further exploration.

One of the primary considerations is how liquidity provisioning models will continue to evolve as iAssets scale across more use cases. While Injective’s Liquidity Availability framework mitigates many liquidity fragmentation issues, ongoing research is needed to optimize liquidity routing, maintain execution efficiency across volatile market conditions, and safeguard against potential attack vectors. Additionally, further refinement of risk management mechanisms will be critical as new financial instruments emerge, particularly in developing adaptive risk frameworks that do not rely on static collateralization models.

Beyond liquidity and risk management, another open question is how iAssets can extend into more complex financial markets, such as corporate bonds, alternative assets, and private credit. Integrating off-chain assets while preserving capital efficiency and decentralized trust will require continued improvements in oracle design, settlement mechanisms, and regulatory considerations. Addressing these factors will not only expand the potential of iAssets, but also reinforce Injective’s position as the foundation for next-generation financial markets.

6 Conclusion

iAssets represent a fundamental shift in how financial markets function. For too long, markets have been constrained by institutional bottlenecks, capital inefficiencies, and fragmented liquidity. iAssets eliminate these limitations, transforming financial instruments into dynamic, composable primitives that function across an integrated on-chain economy.

This marks the transition from static, institutionally controlled assets to programmable, self-executing financial instruments that power a new era of market innovation. By removing the limitations of both TradFi and DeFi, Injective unlocks a new market structure that accelerates global liquidity efficiency, market access, and financial innovation.

Injective's infrastructure-first approach ensures that this transformation is not theoretical but actively deployable. With an on-chain order book, institutional-grade performance, real-world asset tokenization frameworks, and an ecosystem designed for high-performance financial applications, Injective provides the foundational layer for the next generation of financial markets. As the industry moves toward a more open, efficient, and composable system, Injective is positioned at the center, providing the infrastructure that will power the future of programmable finance.