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# Self Chain: A Modular Intent-Centric Blockchain for Enhanced Security and User-Friendliness

## 1. Abstract

Self Chain is a pioneering Layer 1 blockchain designed to redefine how users and developers interact with the decentralized web. By introducing a modular, intent-centric access layer, paired with cutting-edge keyless wallet infrastructure, Self Chain addresses the core challenges of usability, security, and accessibility that have hindered blockchain adoption.

Leveraging advanced technologies such as Multi-Party Computation (MPC), Threshold Signature Scheme (TSS), and Account Abstraction (AA), Self Chain eliminates the complexities of traditional private key management. This allows users to engage with decentralized applications (dApps), GameFi, and DeFi through natural language intent processing, drastically simplifying the user experience.

Additionally, Self Chain's architecture is built for seamless multi-chain interoperability, enabling secure, gasless transactions and automated smart accounts that operate across multiple blockchain networks. By empowering developers with robust SDKs and tools, and enhancing user experience through a keyless, intuitive interface, Self Chain is set to become a cornerstone of the Web3 ecosystem.

Join us in revolutionizing the future of blockchain technology by making decentralized access secure, intuitive, and universally accessible.

## 2. Introduction

The rapid expansion of decentralized technologies has unlocked unprecedented possibilities across a wide range of sectors, including finance, gaming, and digital identity. However, the mainstream adoption of blockchain technology has been significantly impeded by several critical challenges. These include the complexities associated with private key management, a steep learning curve for interacting with decentralized applications (dApps), and the fragmented user experience across multiple blockchain networks.

Traditional blockchain systems, which rely heavily on intricate private key management, expose users to substantial risks of asset loss due to user error, phishing attacks, or malicious activities. Additionally, the need for users to understand and navigate various wallets, chains, and transaction mechanisms has created significant barriers for non-technical users, stifling the broader adoption of decentralized technologies.

Self Chain is engineered to address these challenges head-on by introducing a revolutionary intent-centric access layer combined with advanced keyless wallet infrastructure. Our platform leverages cutting-edge technologies, such as Multi-Party Computation (MPC) for secure data sharing, Threshold Signature Scheme (TSS) for enhanced transaction security, and Account Abstraction (AA) for simplified user interactions, to create a seamless and secure blockchain experience.

By eliminating traditional private key management and enabling natural language interactions, Self Chain significantly lowers the barrier to entry for users, making the Web3 ecosystem more accessible to a diverse audience. Furthermore, our focus on robust security, user-friendliness, and seamless cross-chain interoperability positions Self Chain as a transformative force in the blockchain industry, poised to drive widespread adoption across multiple sectors.

### 3. Market Positioning

Despite the transformative potential of blockchain technology, several critical issues have significantly impeded its widespread adoption. These challenges primarily revolve around the complexities of private key management, the steep learning curve associated with decentralized applications (dApps), and the fragmented user experience across multiple blockchain networks.

	Keyless Wallet	CEX	Traditional Wallets	Smart Contract Wallets (ERC4337)
Self custody without key management	✓	×	×	✓
Self-custody assets	✓	×	✓	✓
Cross-chain interoperability	✓	×	Limited	×
Privacy	✓	×	×	×
Programmable functionality	✓	×	×	✓
Recoverability	✓	✓	×	✓

#### 3.1 Complex Private Key Management

- **Security Risks:** Traditional blockchain systems rely heavily on private keys for securing assets and authorizing transactions. This dependency places the burden of security on users, who must safely store and manage their private keys or seed phrases. The loss of these keys often results in irreversible asset loss. Additionally, private keys are susceptible to phishing, theft, and other security breaches, leading to substantial financial losses.
- **User Error:** The complexity of private key management creates a significant barrier to adoption, especially for non-technical users. The risk of making mistakes—such as losing a private key, misplacing a seed phrase, or falling victim to social engineering—can have severe consequences, deterring many potential users from engaging with blockchain technology.

## 3.2 Steep Learning Curve for dApps

- **Usability Challenges:** Interacting with decentralized applications often requires navigating multiple wallets, understanding various blockchain networks, and managing different tokens. This fragmented and technically demanding experience can be daunting, especially for newcomers. The lack of intuitive interfaces and seamless interactions discourages broader user engagement with decentralized technologies.
- **Fragmentation Across Networks:** The multi-chain nature of the Web3 ecosystem complicates the user experience, as users frequently switch between different networks, each with its own wallet, transaction mechanisms, and user interface. This fragmentation increases the likelihood of errors and creates an additional layer of complexity for users trying to interact with dApps across different blockchains.

## 3.3 Barriers to Mainstream Adoption

- **Inaccessible Technology:** The technical barriers associated with blockchain technology make it inaccessible to the average user. Tasks that are routine in the Web2 world—such as sending tokens, interacting with services, or participating in online activities—become cumbersome and require specialized knowledge in the Web3 space. This limits the potential user base and slows the mainstream adoption of blockchain technologies.
- **Security Concerns:** While the decentralized nature of blockchain offers significant advantages, it also presents challenges in ensuring consistent security across various platforms and applications. Many users lack confidence in their ability to protect their digital assets within decentralized systems, further inhibiting their willingness to adopt blockchain technologies.

## 3.4 Lack of Interoperability

- **Siloed Ecosystems:** The blockchain space is highly fragmented, with multiple isolated ecosystems that do not easily interact with one another. Users often find themselves locked into specific platforms, unable to transfer assets or data

seamlessly between different blockchains. This lack of interoperability stifles innovation and limits the potential for a more interconnected and efficient decentralized ecosystem.

### 3.5 Poor User Experience

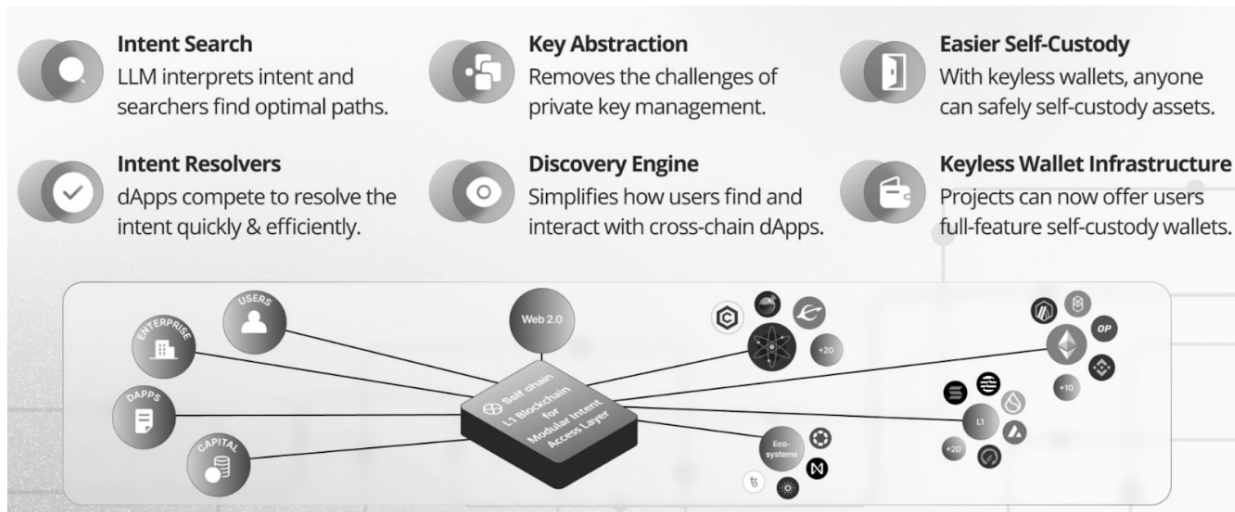
- **Cumbersome Processes:** The current state of user experience in blockchain technology is far from user-friendly. The need to manage multiple wallets, understand complex transaction mechanisms, and navigate different blockchains creates a high barrier to entry for mainstream users. This complexity often leads to user frustration and abandonment, as the learning curve is simply too steep for many.

### 3.6 Limited Developer Tools and Resources

- **Fragmented Development Ecosystem:** The blockchain development ecosystem is often fragmented, with developers needing to navigate different standards, tools, and frameworks depending on the platform they are building on. This lack of standardized, developer-friendly tools hinders the creation of seamless, interoperable applications and slows the pace of innovation in the space.

## 4. Self Chain Solution

Self Chain introduces a comprehensive solution to address the critical challenges of usability, security, and accessibility in the blockchain space. By leveraging advanced technologies like Multi-Party Computation (MPC), Threshold Signature Scheme (TSS), Account Abstraction (AA), and a modular, intent-centric architecture, Self Chain redefines user interactions with decentralized applications and digital assets. This solution simplifies the blockchain experience, making it accessible to both technical and non-technical users alike, while also enhancing security and scalability.



## 4.1 Modular Intent-Centric Access Layer

- Simplified Interaction:** Self Chain’s intent-centric architecture allows users to interact with dApps by simply expressing their goals—such as transferring assets, executing smart contracts, or participating in DeFi protocols—using natural language commands. The system decodes these intents and manages the complexities behind the scenes, eliminating the need for users to understand the intricate details of blockchain operations.
- Optimized Execution:** Specialized intent searchers and solvers within the Self Chain ecosystem work to find the most efficient and cost-effective way to fulfill user requests. By leveraging advanced algorithms and market-driven incentives, the system ensures that transactions are executed with optimal speed, cost, and security.

## 4.2 Keyless Wallet Infrastructure

- MPC-TSS Security:** Self Chain eliminates the traditional burden of private key management by implementing a keyless wallet system. This system uses Multi-Party Computation (MPC) and Threshold Signature Scheme (TSS) to split private keys into multiple shares, which are then distributed across different nodes. This approach significantly reduces the risk of key compromise, as no single point of failure exists.



- **Keyless Access:** Users can access their wallets using familiar login methods, such as social media accounts or biometric authentication, thereby removing the need for seed phrases while maintaining high levels of security. This keyless approach democratizes access to blockchain technology, making it more user-friendly and secure.
- **Effortless Recovery:** In the event of a lost device or forgotten credentials, users can easily recover their wallets through a securely distributed recovery process, ensuring they never permanently lose access to their assets.

### 4.3 Account Abstraction (AA)

- **Programmable Smart Accounts:** Self Chain introduces programmable smart accounts that automate complex tasks, such as transaction bundling, recurring payments, and automated DeFi strategies. This reduces the need for constant manual intervention, allowing users to focus on their goals rather than the mechanics of blockchain operations.
- **Enhanced Security:** By abstracting account management, Self Chain minimizes the risk of user error and increases transaction security. The system's architecture allows for more robust security measures, such as social recovery and multi-signature authentication, which are seamlessly integrated into the user experience.
- **Gasless Transactions:** Users can pay transaction fees using various ERC20 tokens or through sponsored transactions, lowering the barrier to entry for newcomers who may be unfamiliar with the concept of gas fees. This feature makes blockchain interactions more intuitive and accessible.

### 4.4 Seamless Multi-Chain Interoperability

- **Cross-Chain Compatibility:** Self Chain is designed to work across multiple blockchain protocols, ensuring that users can interact with a wide range of dApps and services without facing compatibility issues. This cross-chain functionality is enabled by the platform's intent-centric architecture, which abstracts the underlying complexities of different blockchains.
- **Inter-Blockchain Communication (IBC):** Leveraging IBC protocols, Self Chain facilitates smooth and secure asset transfers between different blockchains. This enhances the

overall user experience by allowing users to manage and transfer their assets seamlessly across multiple chains.

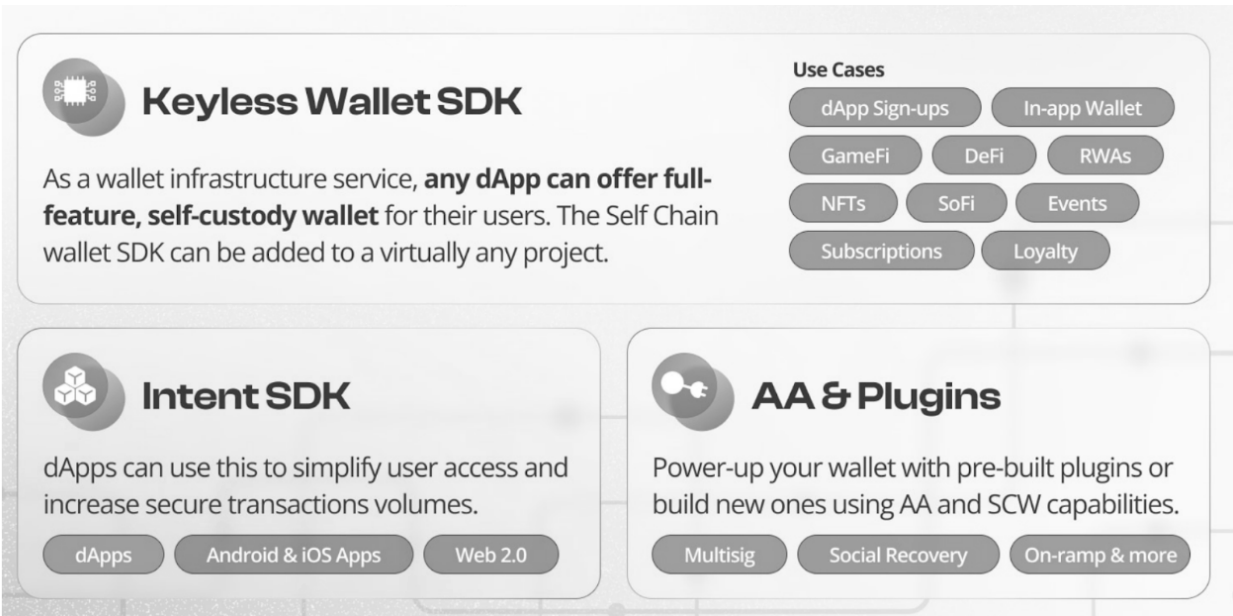
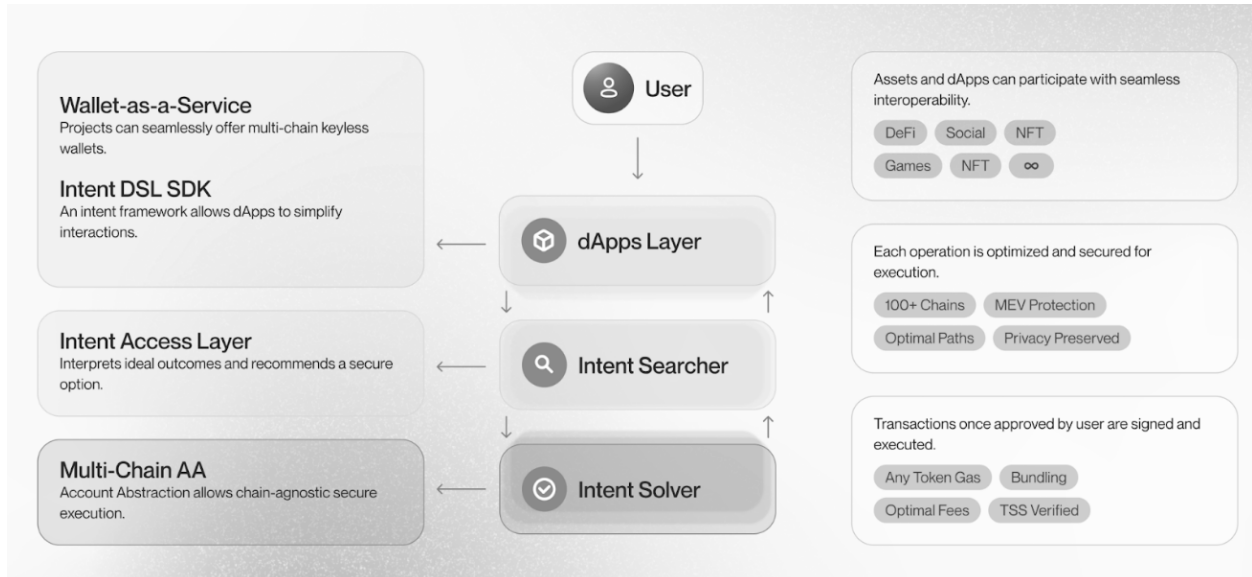
## 4.5 Developer-Friendly SDKs and Tools

- **Keyless Wallet SDK:** Self Chain provides developers with a comprehensive SDK to integrate its keyless wallet infrastructure into their applications. This enables developers to offer their users a secure, intuitive, and seamless asset management experience without needing deep blockchain expertise.
- **Intent SDK:** The Intent SDK allows developers to build applications that can interpret and act on user intents, streamlining interactions between users and blockchain networks. This SDK simplifies the development process, enabling developers to create more user-friendly and accessible dApps.
- **Account Abstraction Plugins:** Developers can utilize pre-built or custom plugins to enhance smart account functionality, enabling features like multi-signature wallets, social recovery, and automated DeFi strategies. These tools empower developers to build more sophisticated and secure blockchain applications.

# 5. Technical Architecture

The technical architecture of Self Chain is meticulously designed to provide a modular, secure, and scalable blockchain platform that meets the diverse needs of users and developers. The architecture is centered around several key components, including the Wallet-as-a-Service (WaaS) platform, Intent DSL SDK, Intent Access Layer, and Multi-Chain Account Abstraction (AA). These components work synergistically to deliver a seamless and user-friendly experience across multiple blockchain networks, all while maintaining the highest standards of security and efficiency.

## 5.1 Wallet-as-a-Service (WaaS)



- **Keyless Architecture:** The Wallet-as-a-Service platform is the foundational element of Self Chain’s architecture. It eliminates traditional private key management challenges by introducing a keyless wallet system. This system leverages Multi-Party Computation (MPC) and Threshold Signature Scheme (TSS) to ensure that private keys are never fully reconstructed, providing robust security against potential threats.
- **Multi-Chain Support:** WaaS supports multi-chain operations, allowing users to manage assets across different blockchains without needing multiple wallets. This is particularly

beneficial for users who interact with multiple decentralized applications (dApps) across various networks.

- **Seamless Onboarding:** Users can sign in with familiar credentials such as email, social media accounts, or biometric authentication, making the onboarding process straightforward and accessible to everyone, even those with no technical expertise.
- **Developer SDK:** The WaaS platform includes a versatile SDK that developers can integrate into their projects to offer full-featured, self-custody wallets. This SDK abstracts the complexities of blockchain, enabling developers to focus on creating value-added features for their users.

## 5.2 Intent DSL SDK

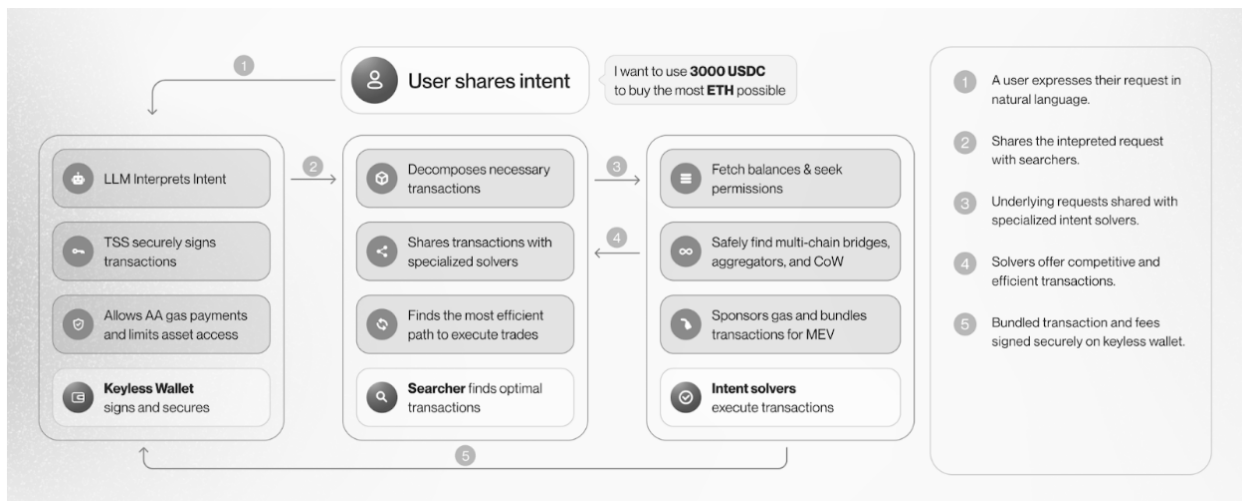
- **Natural Language Processing:** The Intent DSL SDK is a groundbreaking framework that simplifies user interactions with blockchain technology. It allows dApps to interpret user intents—expressed in natural language—and translate them into executable transactions on the blockchain. This reduces the cognitive load on users and eliminates the need for them to understand the technical aspects of blockchain operations.
- **Optimized Execution:** Once an intent is interpreted, it is securely passed through the system's layers to find the most efficient and secure execution path. This process is optimized for speed, cost, and security, ensuring that users get the best possible outcome.
- **Extensible Framework:** The Intent DSL SDK is designed to be extensible, allowing developers to build on top of it and create custom intent-based interactions for their applications. This makes it a powerful tool for enhancing user experience across various blockchain use cases.

## 5.3 Intent Access Layer

- **Pathfinding and Optimization:** The Intent Access Layer is where user intents are broken down into actionable steps and executed across the blockchain network. This layer uses

advanced algorithms to find the most efficient execution path, optimizing for factors like gas fees, transaction speed, and network security.

- **Cross-Chain Interoperability:** Built with interoperability in mind, the Intent Access Layer supports interactions across over 100 blockchain networks. Whether the intent involves DeFi protocols on Ethereum, NFTs on Solana, or liquidity pools on Binance Smart Chain, the Intent Access Layer ensures seamless execution.
- **MEV Protection and Privacy:** The architecture includes mechanisms to protect users from Miner Extractable Value (MEV) risks, such as front-running and other forms of transaction manipulation. Privacy is also preserved through advanced cryptographic techniques, ensuring that sensitive information remains secure throughout the process.



Once private key management and access to an increasingly diverse crypto landscape is simplified with intent solutions, adoption can grow by order of magnitude.

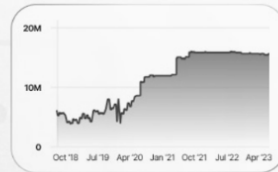
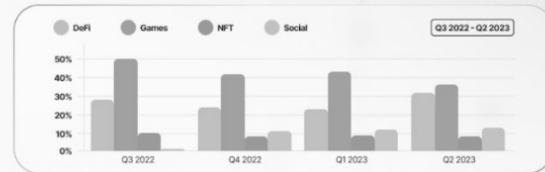


### Wallets are essential

Users rely on their wallets to securely connect and carry out essential trades. For example the chart here show number of swaps on Metamask, crossing \$26.9B cumulative volume.

### Complexity in discovery

There are over 15,000+ dApps on the Ethereum ecosystem, and many more across others. Users and projects alike struggle to discover and maintain consistent usage.

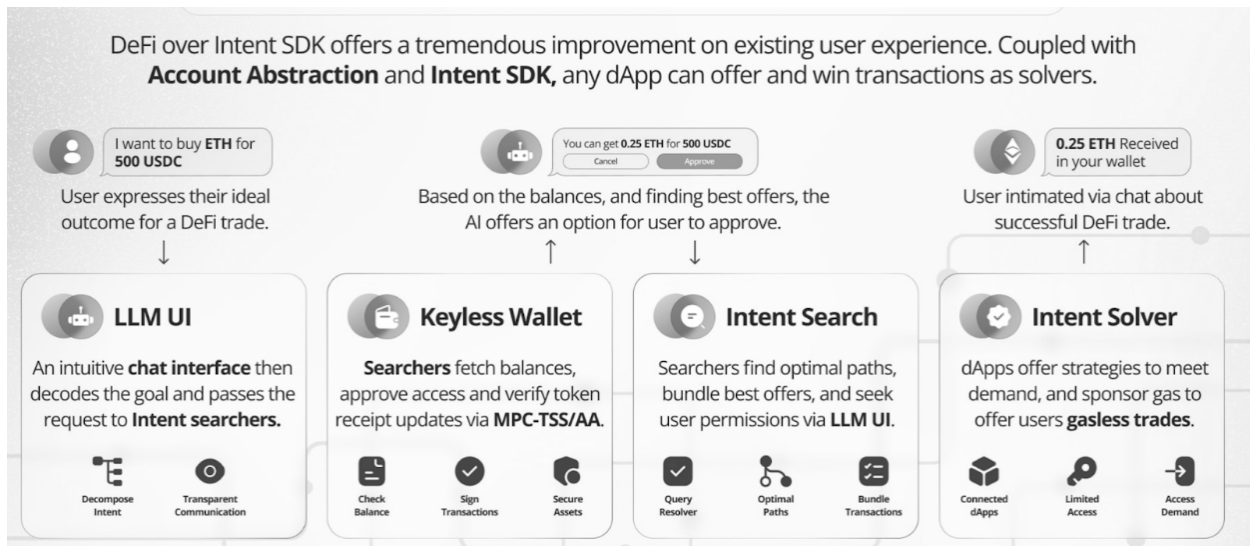


### Gas Fees vs. User Trends

While mainstream users are spending more on just their apps (a massive opportunity for decentralized digital assets), Ethereum gas fees has become prohibitively more expensive.

## 5.4 Multi-Chain Account Abstraction (AA)

Account Abstraction is a cornerstone of Self Chain’s architecture. It provides users with a more flexible and secure way to manage their digital assets. By abstracting away the complexities of account management, we empower users to interact with the blockchain in a more intuitive and accessible manner.



- **Smart Account Functionality:** Unlike traditional EOAs (Externally Owned Accounts), our AA layer allows for programmable smart accounts. These accounts can automate complex tasks, such as executing bundled transactions, managing gas fees, or enabling social recovery, all without user intervention.
- **Chain-Agnostic Operations:** The AA layer is designed to be chain-agnostic, meaning that it can operate seamlessly across different blockchain networks. This flexibility is crucial for users who hold assets on multiple chains and want to manage them from a single, unified interface.
- **Gasless and Bundled Transactions:** We've integrated support for gasless transactions, where users can execute operations without worrying about gas fees. This feature is particularly beneficial for dApps aiming to lower their users' entry barriers. Additionally, transactions can be bundled to optimize for cost and speed, ensuring that users always get the best possible deal.

## 5.5 Intent Searchers and Solvers

The efficiency and effectiveness of Self Chain's operations are enhanced by the roles of Intent Searchers and Solvers, specialized components within the architecture that ensure user intents are executed optimally.

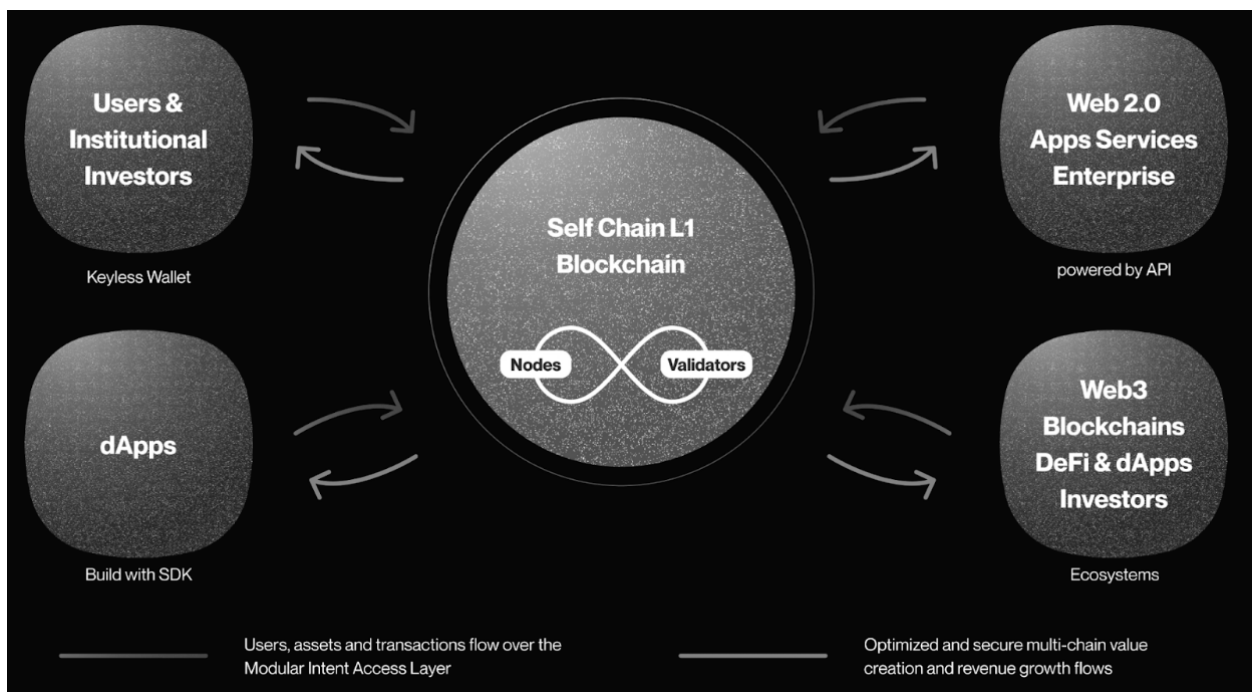
- **Searchers:** Once an intent is received, Searchers find optimal transactions across different chains. They decompose the intent into necessary steps and identify the best possible execution paths.
- **Solvers:** Solvers then compete to execute these transactions, often bundling them to reduce costs and improve execution speed. This competitive process ensures users benefit from the most efficient and secure transactions possible.

## 5.6 dApps Layer Integration

Self Chain's architecture is designed to be highly integrative, allowing assets and dApps to participate with seamless interoperability across multiple blockchains.



- **Cross-Chain dApp Interaction:** The platform supports decentralized applications, including DeFi, GameFi, NFTs, and enterprise solutions. Users can interact with these dApps without navigating the complexities of different blockchain networks.
- **Optimized for Performance:** Every operation within the dApps layer is optimized for performance, ensuring that transactions are secure but also fast and cost-effective. This provides a smooth and reliable user experience, regardless of complexity.

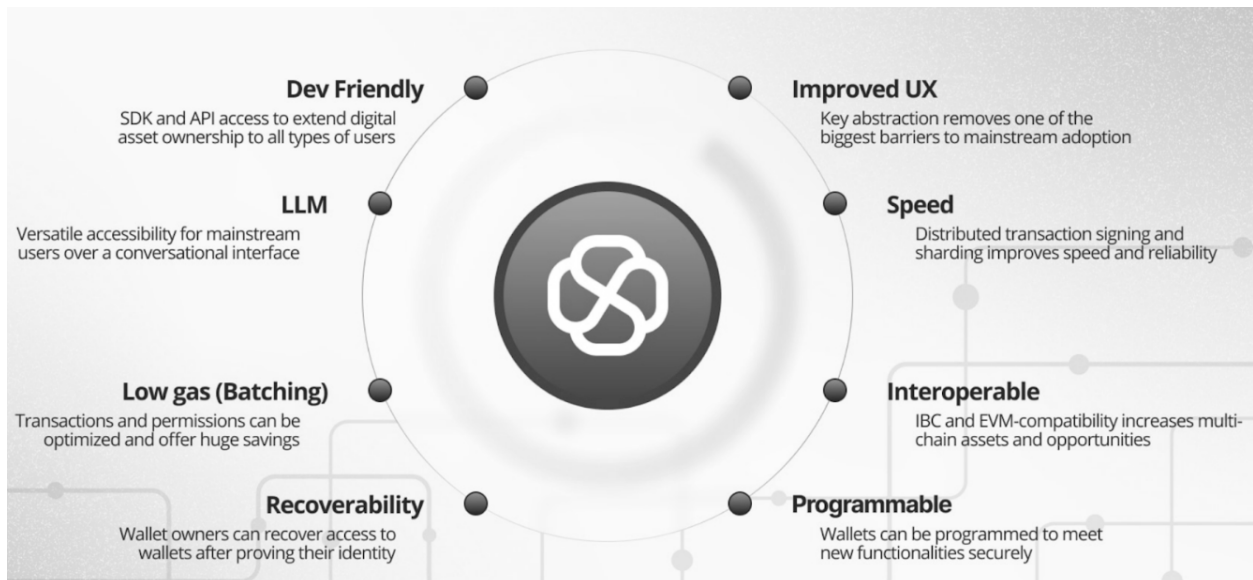


## 5.7 Security and Compliance

- **MPC-TSS-Based Security:** Security is a top priority within Self Chain’s architecture. The use of MPC-TSS ensures that private keys are never fully reconstructed or exposed, significantly reducing the risk of key compromise. This decentralized approach to key management ensures that no single point of failure can lead to the loss or theft of digital assets.
- **Privacy-Preserving Techniques:** The architecture includes advanced privacy-preserving techniques, such as zero-knowledge proofs and secure multi-party computation, to ensure that sensitive user data remains confidential throughout all transactions.



- **Regulatory Compliance:** Self Chain is designed to comply with existing regulatory frameworks while maintaining the decentralized ethos of blockchain technology. This includes support for Know Your Customer (KYC) and Anti-Money Laundering (AML) processes where necessary, ensuring that the platform is both secure and legally compliant.



Self Chain's architecture is a testament to our commitment to building a blockchain platform that is not only secure and robust but also accessible and user-friendly. By combining advanced cryptographic techniques with innovative user interface designs, we have created a system ready to lead the next wave of blockchain adoption. Our focus on modularity and interoperability ensures that Self Chain can adapt and grow alongside the rapidly evolving blockchain landscape, making it a future-proof solution for developers and users alike.

## 6. Use Cases

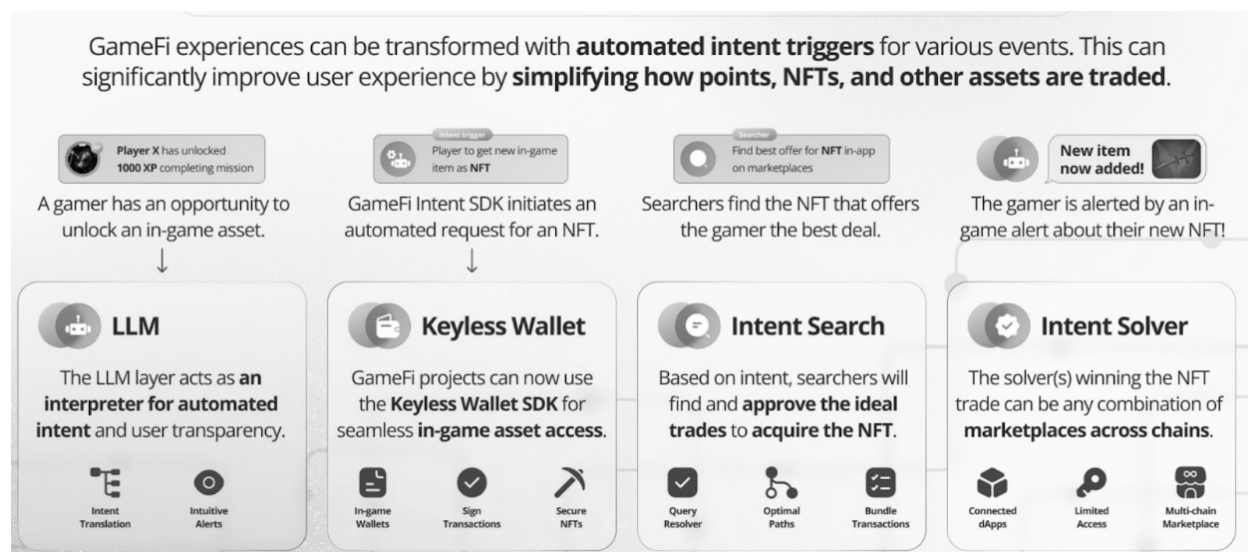
Self Chain's innovative architecture and features enable a wide range of use cases across multiple sectors. By leveraging the Self Token (SLF) alongside key technologies such as keyless wallets, intent-centric interactions, and account abstraction, Self Chain simplifies blockchain

operations and makes them accessible to a broader audience. Below are the primary use cases that showcase the versatility and power of Self Chain:

## 6.1 Keyless Wallets

- Secure and Simplified Crypto Asset Management:** Self Chain’s keyless wallets eliminate the need for traditional private key management, offering a secure and user-friendly way to manage crypto assets. The Self Token enables effortless access, enhanced security, and seamless recovery.
- Effortless Access:** Users can access their crypto assets through secure, keyless wallets using familiar login methods like social media accounts or biometric authentication. The Self Token is used for transaction fees and staking, simplifying the process for both novice and experienced users.
- Enhanced Security:** Leveraging MPC-TSS technology, Self Chain ensures that private keys are split and distributed across multiple nodes, enhancing security while simplifying the user experience.
- Seamless Recovery:** In case of a lost device, users can easily recover their wallets using the Self Token, ensuring that access to assets is never permanently lost.

## 6.2 GameFi



- **Optimal GameFi Experience:** Self Chain revolutionizes the GameFi sector by offering a streamlined and secure platform for managing in-game assets. The Self Token facilitates seamless transactions and asset management within the gaming ecosystem.
- **In-Game Asset Management:** Players can securely store, trade, and transfer in-game assets using keyless wallets. The Self Token is utilized for transaction fees and staking, providing a consistent and reliable gaming experience.
- **Cross-Game Interoperability:** Players can transfer assets between different games and blockchains, with the Self Token serving as the medium for these transactions. This feature fosters a more interconnected gaming ecosystem, allowing for greater flexibility and asset mobility.
- **Gasless Transactions:** GameFi projects can utilize account abstraction to offer gasless transactions, where the Self Token can be used to sponsor transaction fees, enhancing the user experience and lowering barriers to entry.

### 6.3 Intents

- **Intent-Centric Blockchain Interaction:** Self Chain's intent-centric access layer simplifies interactions with blockchain applications. The Self Token plays a crucial role in this process, serving as the currency for transaction fees and staking.
- **Simplified User Interactions:** Users can interact with blockchain applications using natural language commands. The system interprets these commands and handles the technical complexities, with the Self Token facilitating the underlying transactions.
- **Optimized Execution:** Intent searchers and solvers compete to fulfill user intents in the most cost-effective way, with Self Tokens incentivizing these actors to provide optimal solutions.
- **Cross-Chain Capabilities:** The intent-centric layer supports cross-chain operations, with the Self Token enabling seamless execution across networks. This capability is essential for users interacting with multiple blockchain platforms.

## 6.4 MPC-TSS

- **Secure Key Management for Web3 Wallets and Applications:** The MPC-TSS technology ensures secure key management across decentralized applications. The Self Token plays a key role in this ecosystem by enabling secure transactions, staking for network security, and governance participation.
- **Decentralized Security:** The Self Token is used to pay for transactions and stake in the network, ensuring the MPC-TSS network remains secure and resilient against attacks.
- **Flexible Access:** Users can perform secure transactions without managing private keys directly, with the Self Token used for transaction fees and staking. This flexibility makes the system more accessible and reduces the risk of key compromise.
- **Enhanced Trust:** The decentralized nature of MPC-TSS ensures that no single entity controls the private key, with Self Tokens serving as the backbone for secure interactions. This architecture enhances trust and reliability across the network.

## 6.5 Account Abstraction

- **Streamlined Web3 User Experience:** Self Chain's account abstraction feature creates programmable self-custodial accounts. The Self Token enables flexible and efficient transactions within this framework.
- **Smart Accounts:** Users can set up programmable smart accounts that automate tasks such as transaction bundling, recurring payments, or social recovery. The Self Token is used for these transactions and governance, making the process seamless and user-friendly.
- **Gasless Transactions:** Account abstraction enables gasless transactions where the Self Token can be used as an alternative to paying fees, making the blockchain experience more accessible and lowering the barrier to entry for new users.
- **Enhanced Flexibility:** Developers can create custom smart accounts and plugins that leverage the Self Token for advanced use cases like automated DeFi strategies, multi-signature wallets, or social recovery. This flexibility makes Self Chain an attractive platform for developers looking to innovate.

By integrating the Self Token with its innovative features, Self Chain simplifies blockchain operations and makes them accessible to a broader audience. The Self Token is the backbone for secure transactions, staking, and governance across various use cases, driving the adoption of decentralized technologies.

## 7.SLF Tokenomics

The SLF token is the native cryptocurrency of the Self Chain ecosystem. It is designed to drive the network’s security, facilitate transactions, and empower governance. SLF’s tokenomics are carefully structured to ensure long-term sustainability, incentivize network participation, and support the growth and development of the Self Chain platform.



### 7.1 Utility of SLF Tokens

- **Transaction Fees:** SLF tokens pay transaction fees on the Self Chain network. These fees include executing intents, transferring assets, and interacting with decentralized applications (dApps). The fee structure is proportional to the computational resources required by each transaction, ensuring a fair and efficient use of network resources.
- **Staking and Network Security:** Token holders can stake SLF tokens to secure the Self Chain network. Staking SLF contributes to the network’s proof-of-stake (PoS) consensus

mechanism, where validators are selected based on the amount of SLF staked. In return, stakers and validators earn rewards in the form of additional SLF tokens, incentivizing honest behavior and securing the network against attacks.

- Governance:** SLF holders have the right to participate in managing the Self Chain network. This includes voting on proposals related to network upgrades, protocol changes, and other important decisions. Governance participation is weighted by the amount of SLF staked, giving more influence to those with a more significant stake in the network's future.

## 7.2 Incentives and Ecosystem Development:

SLF tokens are used to incentivize developers, dApp creators, and other contributors to the Self Chain ecosystem. This includes grants, rewards for building on the platform, and other initiatives to foster a vibrant and innovative community.

## 7.3 SLF Token Allocation

At genesis, the total supply of SLF tokens is capped at 360 million, with allocations carefully distributed across different categories to support the network's launch, growth, and sustainability. The allocation is as follows:

Category	Total tokens	% of Allocation	Monthly Vesting	Vesting Details
Migration Allocation	90M	25%	TBD (Vested)	TBD on mainnet launch.
Equity Investor Allocation	36M	10%	2M	0% release on mainnet launch, followed by a 12 month cliff, then monthly vesting for 24 months
Validator Node (Growth Sale)	100M	28%	8M	0% release on mainnet launch, followed by a 6 month cliff, then monthly vesting for 12 months
Ecosystem	68M	19%	2M	10% release on mainnet launch, then monthly vesting for 36 months
Foundation Nodes	36M	10%	3M	0% release on mainnet launch, followed by a 24 month cliff, then monthly vesting for 12 months
Team	30M	8%	1M	0% release on mainnet launch, followed by a 12 month cliff, then monthly vesting for 24 months

**Migration Allocation (25%):** This allocation is for migrating tokens from the previous ecosystem (FRONT) to SLF on the Self-Chain, ensuring a smooth transition for existing token holders.

**Equity Investors (10%):** These tokens are reserved for early investors who provided crucial support during the development phase of Self Chain. They acknowledge their contribution and align their interests with the network's long-term success.

**Validator Nodes / Growth Sale (28%):** Dedicated to expanding the validator network and driving growth through strategic partnerships. This allocation ensures that reputable validators join the network, contributing to its decentralization and security.

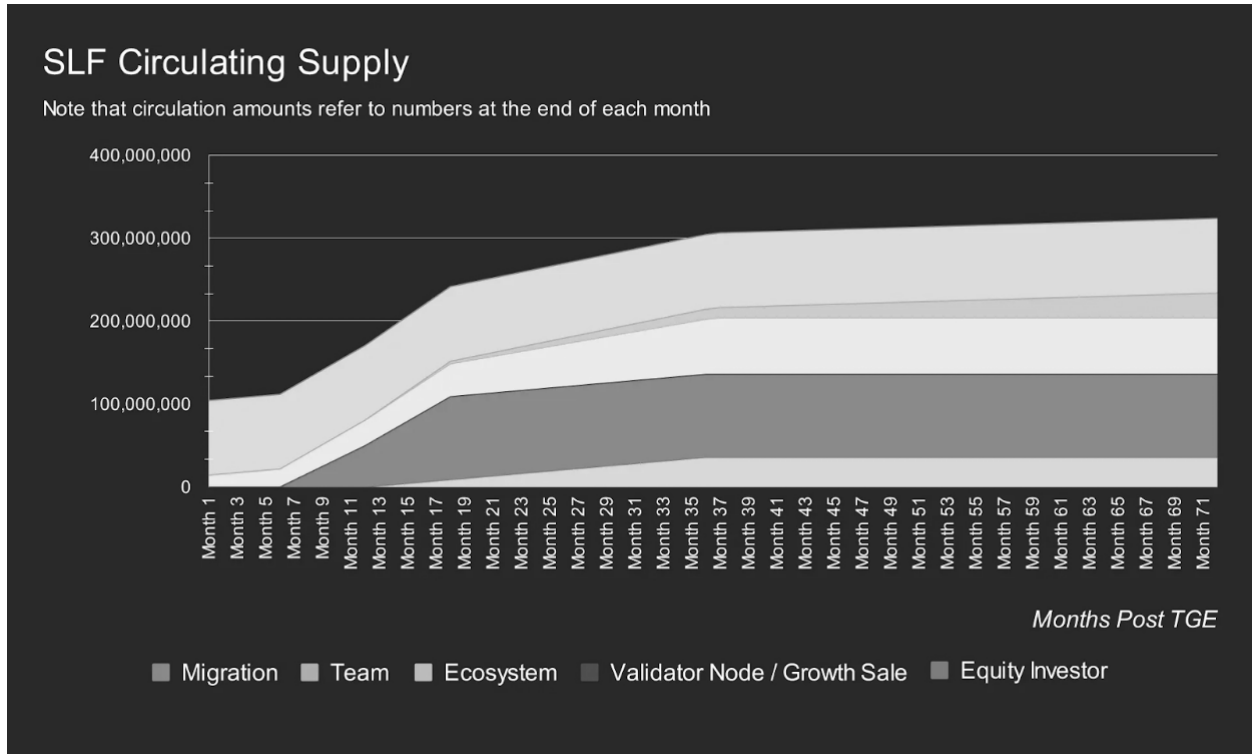
**Ecosystem (19%):** This allocation is used for ecosystem initiatives, including grants, developer incentives, and contributor rewards. It is critical for fostering innovation and ensuring that the Self Chain ecosystem continues to grow and evolve.

**Foundation Nodes (10%):** The Self Chain Foundation manages them to ensure network stability and maintain core infrastructure, particularly during the network's early stages of development.

**Team (8%):** This allocation is allocated to the core team and developers building the Self Chain platform. It is vested over time to align the team's incentives with the project's long-term success.

## 7.4 Vesting and Unlock Schedule

To ensure the stability of the SLF token and the long-term commitment of key stakeholders, the token allocation follows a carefully designed vesting and unlock schedule:



- **Migration Allocation:** No lock, fully available at mainnet launch.
- **Equity Investors:** 0% release at mainnet launch, followed by a 12-month cliff and then monthly vesting over 24 months.
- **Validator Nodes / Growth Sale:** 0% release at mainnet launch, followed by a 6-month cliff and then monthly vesting over 12 months.
- **Ecosystem:** Approximately 20% were released at the mainnet launch, with the remaining tokens vesting monthly for over 36 months.
- **Foundation Nodes:** Permanently locked vesting, where tokens remain locked indefinitely to ensure long-term stability.
- **Team:** 0% release at mainnet launch, followed by a 12-month cliff and then monthly vesting over 60 months.

At the Token Generation Event (TGE), 28.8% of the total supply (approximately 103.6 million SLF) will be released, with the majority coming from the Migration Allocation and Ecosystem Allocation. This initial release is designed to provide liquidity and support early network activities, while the gradual vesting of other allocations ensures a steady and controlled distribution of tokens over time.

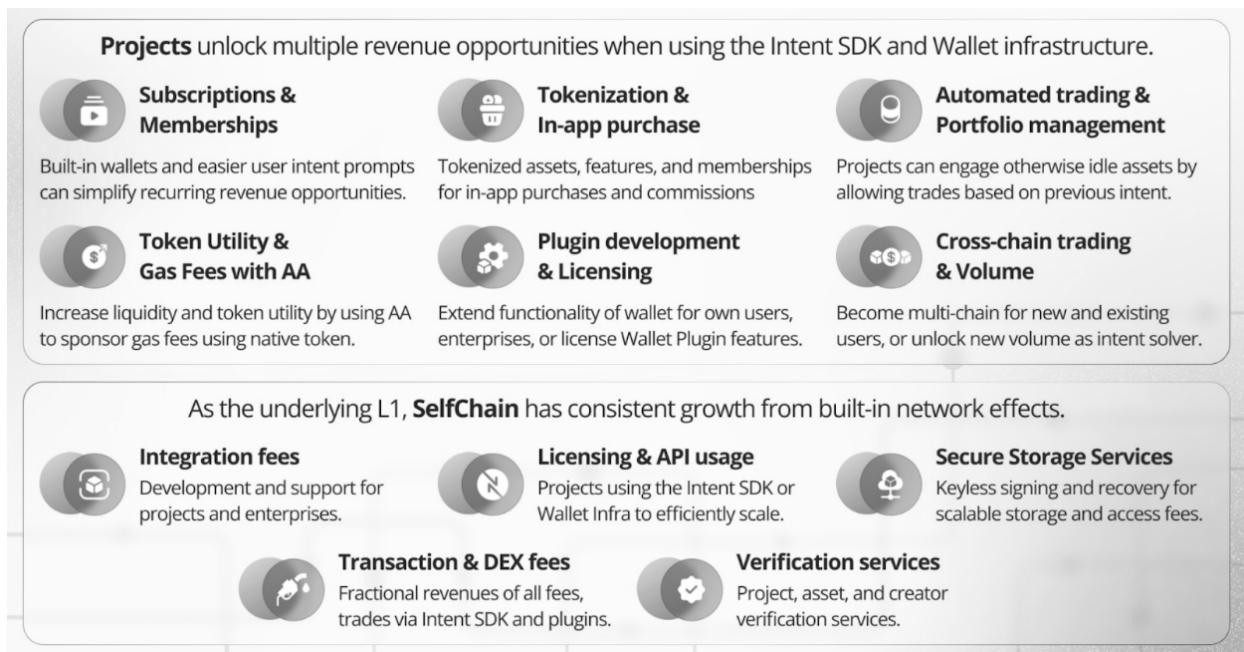


## 7.5 Economic Security and Incentives

The economic security of Self Chain is directly tied to the staking of SLF tokens. The more SLF tokens staked, the greater the network's security and resilience against attacks. Validators and stakes are incentivized through block rewards, which are distributed proportionally based on the amount of SLF staked.

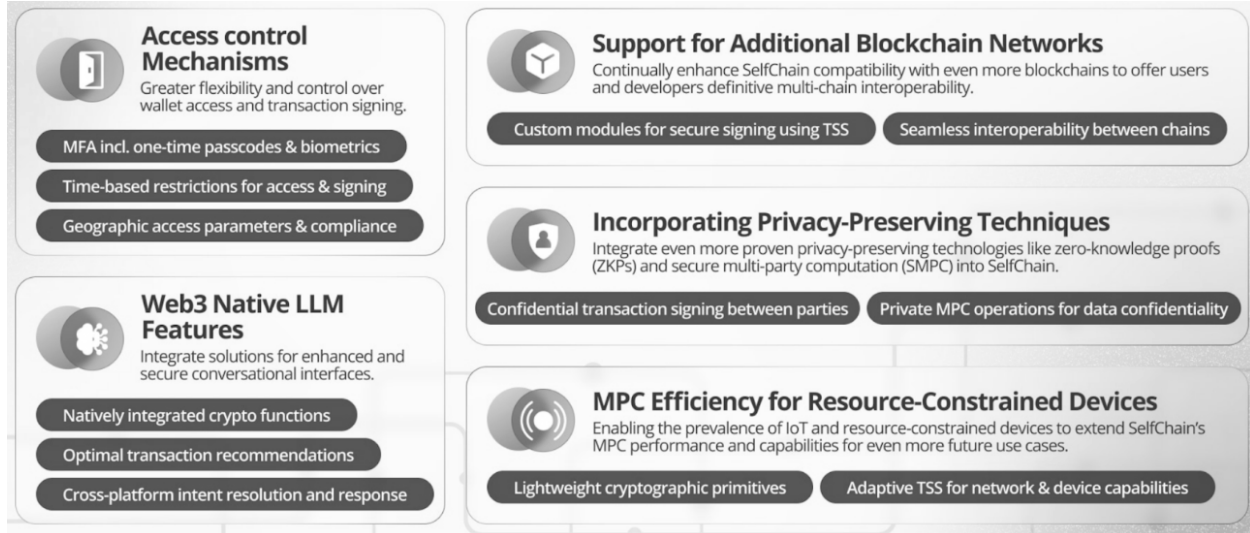
Additionally, SLF tokens play a crucial role in incentivizing ecosystem growth. Developers and contributors are rewarded with SLF for building on the Self Chain platform, participating in governance, and driving innovation. This creates a positive feedback loop where the ecosystem's growth increases demand for SLF, further strengthening the network.

## 7.6 Long-Term Vision and Revenue



The tokenomics of SLF are designed with a long-term vision in mind. By aligning incentives across all participants—users, validators, developers, and investors—Self Chain aims to create a sustainable and thriving ecosystem. The controlled release of tokens, combined with robust staking and governance mechanisms, ensures that Self Chain remains secure, innovative, and adaptive to the evolving needs of the blockchain industry.

## 7.7 Roadmap - <https://selfchain.xyz/roadmap>



## 8. Conclusion

Self Chain represents a bold leap forward in blockchain technology, addressing some of the most critical challenges that have hindered the mainstream adoption of decentralized systems. By integrating cutting-edge innovations such as Multi-Party Computation (MPC), Threshold Signature Scheme (TSS), Account Abstraction (AA), and a revolutionary intent-centric access layer, Self Chain is poised to redefine how users and developers interact with blockchain technology.

### 8.1 Key Innovations:

- Enhanced Security:** Self Chain's keyless wallet infrastructure, powered by MPC and TSS, ensures that users' assets are protected with unparalleled security while simplifying the user experience by eliminating the need for complex private key management.
- User-Centric Design:** The intent-centric access layer and Account Abstraction empower users to engage with blockchain applications effortlessly, whether through natural language commands or programmable smart accounts. This user-centric approach lowers the barriers to entry and invites a broader audience into the Web3 ecosystem.

- **Seamless Interoperability:** Self Chain's architecture is designed for cross-chain compatibility, enabling users and developers to interact seamlessly across multiple blockchain networks. This interoperability is crucial for fostering a more connected and efficient decentralized ecosystem.
- **Developer-Friendly Ecosystem:** With comprehensive SDKs and tools, Self Chain provides developers with the resources they need to build secure, user-friendly applications. The platform's modularity and flexibility ensure it can adapt to the rapidly evolving demands of the blockchain industry.

## 8.2 Long-Term Vision

Self Chain's vision extends beyond solving immediate challenges. By creating a platform that is secure, accessible, and adaptable, Self Chain aims to lead the next wave of blockchain innovation. The platform is not just a technological solution but a catalyst for the widespread adoption of decentralized applications across various sectors, including finance, gaming, enterprise, and beyond.

## 8.3 Driving Adoption

The Self Token (SLF) is central to Self Chain's ecosystem, driving network security, facilitating transactions, and empowering decentralized governance. Through a carefully designed tokenomics structure, Self Chain ensures the long-term sustainability and growth of the platform, incentivizing participation from all stakeholders, including users, developers, and validators.

As the blockchain landscape continues to evolve, Self Chain is well-positioned to address emerging challenges and unlock new opportunities. By prioritizing user experience, security, and interoperability, Self Chain is set to become a cornerstone of the decentralized future, empowering individuals and organizations to fully harness the potential of Web3 technologies.

## 8.4 Final Thoughts

In conclusion, Self Chain is more than just a blockchain platform; it is a comprehensive solution designed to bridge the gap between the complex world of decentralized technologies and the

needs of everyday users and developers. With its innovative approach, Self Chain is poised to lead the way in making blockchain more secure, user-friendly, and accessible to all, driving the next phase of blockchain adoption and setting new standards for the industry.