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WHITEPAPER

Key to the Decentralized Future

HLC WHITEPAPER

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Executive Summary

Overview of HLC Blockchain

HLC Blockchain is a ground-breaking Layer 1 Blockchain engineered to provide exceptional security, transparency, speed, and reliability. It employs a unique **Proof-of-Distribution (PoD) consensus model**, which strategically allocates transaction fees among Validators, Delegators, and Smart Contract Creators, fortifying Network security and promoting active stakeholder engagement. Additionally, HLC integrates EVM-compatible features with this unique consensus mechanism (PoD) to overcome existing challenges in Blockchain Technology. This combination ensures HLC Blockchain surpasses the necessary performance, security, and interoperability standards for contemporary decentralized applications. As an acronym for **Hyperluxo Coin**, HLC symbolizes a holistic strategy for embedding financial elements within the Metaverse and extending their influence beyond it.

Vision

Our vision is to revolutionize the Blockchain landscape by creating a secure, transparent, and efficient decentralized platform that empowers individuals and businesses worldwide. We aim to build an inclusive digital ecosystem where users can seamlessly interact with decentralized applications, conduct transactions with minimal fees, and enjoy unparalleled security and transparency.

By integrating HLC Blockchain into various platforms, we strive to make decentralized technologies a cornerstone of financial innovation and accessibility, driving global adoption and fostering a new era of trust and efficiency in digital transactions.



Mission

Our mission is to develop and maintain an advanced Layer 1 Blockchain that addresses the critical challenges of scalability, security, and interoperability faced by current Blockchain technologies. We are committed to providing a platform that supports high transaction speeds, low fees, and robust security measures.

Through continuous innovation and community engagement, we aim to build a comprehensive ecosystem that includes decentralized applications (dApps), seamless integrations, and extensive utility for our native HLC Coin. Our goal is to empower users, developers, and businesses to leverage the full potential of Blockchain technology, driving the adoption and growth of decentralized solutions across various industries.

Problem Statement

The current Blockchain ecosystem faces substantial challenges that hinder its broader adoption and optimal functionality. Predominant among these are prohibitively high transaction fees, which make micro transactions and routine use cases economically impractical, thus deterring widespread user engagement.

Scalability remains a critical issue, with many Networks unable to sustain high transaction speeds and throughput, resulting in congestion and inefficiencies. Security vulnerabilities pose a persistent threat, as numerous Networks are prone to attacks and breaches, jeopardizing user data and digital assets.

Furthermore, the lack of interoperability between disparate Blockchain Networks leads to a fragmented landscape, limiting the seamless integration and interaction of various applications. Energy inefficiency, especially within Proof of Work (PoW) consensus mechanisms, contributes to significant environmental concerns and elevated operational costs. The inherent technical complexity of



Blockchain technology also presents a substantial barrier to entry for new users and developers, curbing accessibility and hindering adoption.

HLC Blockchain is designed to surmount these challenges by providing a highly scalable, secure, and energy-efficient platform characterized by low transaction fees, high throughput, and robust interoperability. Our innovative approach aims to resolve these critical issues, propelling the next wave of Blockchain innovation and widespread adoption.

Through these efforts, we strive to deliver appropriate value to our clients, users, and Web3.0 enthusiasts who are eager to embrace the industry for a better future.

INTRODUCTION

Welcome to the HLC ecosystem, where we are pioneering the future of digital finance through innovation and empowerment. We invite you to join us as we unveil HLC, a Blockchain platform and its comprehensive suite of products, embarking on a journey that will transform digital asset management. In recent years, ground-breaking technologies have revolutionized the digital landscape, challenging traditional financial systems and fostering a more transparent, fair, and user-centric economic paradigm. Conventional banking, hindered by slow processes, high costs, and bureaucratic obstacles, has struggled to keep pace. The HLC ecosystem addresses these issues head-on, offering a robust Blockchain solution.

The HLC Blockchain was created to overcome the critical challenges of scalability, security, and interoperability that existing Blockchain technologies face. As passionate crypto enthusiasts, the founders of HLC saw the need for an extraordinary platform that offers comprehensive solutions all in one place. This approach aims to provide significant benefits to all enthusiasts, whether they join now or in the future.



With the rapid growth of decentralized applications and financial services, there is a pressing need for a Blockchain that can handle high transaction volumes without compromising security or speed. The HLC Blockchain is designed to meet these needs, providing a strong foundation for the next generation of digital applications. Seamlessly integrated within the Hyperluxo Group Ecosystem, HLC

Coin connects

with various platforms such as the *Hyperluxo Trade (Forex Trading Platform)*, *Hyperluxo X (Crypto Exchange)*, *MetaSoilverse (Metaverse Platform)*, *MetaSoilverse NFT Marketplace*, *Hyperluxo Game (Hyperluxo Game)*, *Hyperluxo Pay (Crypto Payment Solutions)* etc. This extensive integration drives value and utility across the entire Hyperluxo ecosystem.

Our Blockchain, meticulously engineered for scalability and security, serves as the core of the ecosystem. With features such as high throughput, fast transactions, and cost efficiency, it ensures a seamless and effective digital experience. Its deterministic finality eliminates the need for additional confirmations, setting it apart from Networks with probabilistic finality.

Within the HLC ecosystem, users can take advantage of dynamic and lucrative staking opportunities. By staking the native HLC Coin as validators or delegators, users **can earn up to 8% APY**, thereby enhancing Network security and decentralization.

Our inclusive ecosystem welcomes users from all backgrounds, offering secure, cost-effective, and developer-friendly Blockchain solutions. HLC is not just a collection of products; it embodies a commitment to redefining the standards of the digital asset market. The pioneering HLC Blockchain, serving as the cornerstone of this transformative ecosystem, invites you to explore and help shape the future of digital finance.

Challenges in the Current Blockchain Landscape

Blockchain technology aims to revolutionize traditional systems by replacing centralized authorities with a decentralized Network that fosters trust among users, even those who have no previous connections. At its core, Blockchain seeks to shift from traditional trust mechanisms to a system that enforces integrity through its design.

However, applying Blockchain technology in real-world scenarios comes with challenges, notably in transaction speed. Unlike conventional systems such as Visa card payments, which rely on Visa to create and maintain a permanent transaction record, Blockchain operates with a "distributed ledger" shared among multiple participants. This ledger provides a permanent and widely accessible record, enhancing transparency and accountability, as anyone with the necessary technology and internet access can verify the system.

Despite its advantages, the decentralized nature of Blockchain can result in slower transaction processing. For instance, early Blockchains like Bitcoin handle about 5 transactions per second, significantly less than Visa's capacity to process over 1,700 transactions per second.

Addressing these challenges requires tackling the **Blockchain scalability trilemma**. This trilemma illustrates the difficulty of balancing **decentralization, security, and scalability**, with each factor often necessitating compromises.



However, the technical challenges impeding the widespread adoption of DLT extend beyond the trilemma. These issues encompass economic constraints like high transaction fees, the development of reliable finalization and consensus mechanisms, and resolving problems related to timely confirmation of transactions for users.

Scalability, Finalization and Consensus

Prominent Blockchains such as Bitcoin and Ethereum utilize a Network of decentralized nodes to record transactions within blocks. Validating each block requires achieving consensus among all nodes, with agreement reached one block at a time.

This method entails trade-offs. Although a block may initially gain approval from the majority of nodes, there is a potential risk: if a transaction within the block is later identified as fraudulent, the entire block might be reverted or removed from the chain. Consequently, legitimate transactions would need to be reprocessed in a new block.



Furthermore, scalability challenges are closely tied to the consensus mechanism. Since every node must validate and store each block, the Network's efficiency is constrained by the processing speed of the nodes. This results in the issue of "chain strength being only as strong as the weakest link," where the Network's overall performance is limited by its slowest nodes.

Decentralization vs. Transaction Speed

In distributed ledgers like Bitcoin and Ethereum, achieving finality depends on the time it takes to potentially reverse a consensus event. While consensus can be overturned, the confirmation process is often slow. As a result, many Blockchains operate under "probabilistic finality," which means there is a high likelihood that a transaction won't be reversed, but there is no absolute certainty.

To meet the growing demand for faster transaction speeds, decentralized finance (DeFi) has explored the use of centralized chains. This approach, however, involves sacrificing some degree of decentralization, making these systems susceptible to Denial of Service (DoS) attacks, as detailed in the Proof of Stake Security section.

To overcome these challenges, HLC has introduced a more efficient solution, which is further explained in the Robust Blockchain Protocol section.

Transaction Fee

In Proof of Work (PoW) systems, such as those used by Bitcoin and the original Ethereum model, transaction costs are a key component. A significant portion of these costs comes from fees paid to block miners, which are essential for safeguarding the system from certain vulnerabilities.



The PoW model, as implemented in Bitcoin and early Ethereum, incurs high costs due to these mining fees. While these fees are crucial for enhancing security, PoW's demand for powerful hardware results in considerable energy consumption, which exacerbates the global energy crisis. This energy-intensive process has led to centralization, with a few entities dominating mining pools. Additionally, PoW fees can restrict Blockchain functionality, impacting areas like decentralized applications (dApps), trustless gameplay, and micropayments.

To tackle these issues, Ethereum launched its Proof-of-Stake (PoS) Blockchain in December 2020, with a full rollout in September 2022. PoS offers a more cost-efficient alternative while addressing many of the security concerns inherent in PoW systems.

Improved Accessibility

Overcoming barriers to entry, particularly in terms of accessibility, remains a major challenge in the Blockchain ecosystem. The complex features of Decentralized Finance (DeFi) present a steep learning curve, making it difficult for users without IT expertise to engage with these services. This creates a dual challenge, affecting both IT-illiterate consumers and developers who struggle with accessibility issues.

User-Centric Access

Technically skilled individuals often enjoy financial stability and ample free time, allowing them to conduct thorough research and troubleshoot issues effectively.



They also benefit from a supportive community that offers assistance when needed.

On the other hand, economically disadvantaged individuals face different challenges. They frequently have limited time and may lack the necessary technological expertise, which presents a significant barrier to entering Blockchain-based DeFi marketplaces.

It's essential to understand that most potential users fall between these two extremes. As such, new DeFi ecosystems must address these barriers to entry. Unfortunately, many Blockchain innovators have yet to effectively tackle this issue, leaving non-technical users to navigate a steep learning curve for adopting Blockchain technologies.

Developers' Accessibility

Creating effective Blockchain technology demands a team with expertise in cryptography, Network security, and sidechain security, the foundational Blockchain layer, distributed systems, and smart contracts. However, many developers primarily concentrate on writing smart contract code for decentralized applications (dApps) and frontend code for user interfaces. To streamline development, it's crucial to abstract the complexities of the core Blockchain, allowing developers to focus on secure innovation within the dApp space without having to directly engage with the underlying technology.

Tokenomics Diversity in Blockchain Ecosystems

Tokenomics serves as the financial framework that governs a Blockchain ecosystem. It's important to recognize that tokens come with diverse



characteristics. For instance, meme coin Tokenomics often prosper in inflationary conditions where supply is not limited. This setup might attract risk-seeking investors looking for rapid gains, but it may not suit conservative investors who value stability and prefer ecosystems with fixed supplies, similar to Bitcoin. Moreover, conservative investors may also look for Tokenomics that offer genuine passive income opportunities.

Establishing Trust and Credibility in Blockchain Ecosystems

Building a reliable reputation is a major challenge for emerging technologies. Traditional banking systems, which decentralized finance (DeFi) aims to replace, have successfully built a reputation for trustworthiness through their established practices and consistent financial management. They effectively mitigate risks and earn public confidence by demonstrating stability and integrity.

For DeFi ecosystems to succeed, it's crucial for users to trust not just the underlying Blockchain technology but also its security, validators, and smart contracts. Therefore, a significant challenge for Blockchain developers is establishing and maintaining credibility.

Legitimacy is another related issue. Many Blockchain projects, which focus on specific solutions like NFT sales or new coin launches, often struggle with regulatory approval and establishing their credibility. Moreover, new entrants in the DeFi and Blockchain sectors frequently face liquidity problems, which can hinder their ability to navigate the volatile digital asset markets and affect their growth and scalability.



HLC Blockchain: A Full-Spectrum Solution

HLC Blockchain has overcome major hurdles in the Blockchain ecosystem by effectively solving the Blockchain Trilemma, seamlessly integrating transaction speed, security, and scalability. More details on the protocol's security features are provided in the next section. Recognizing the importance of building a trustworthy user ecosystem, HLC has implemented strategies to address this, which are elaborated in the Engaged Communities section. **The native coin, HLC**, is crucial for facilitating transactions, incentivizing Network participation, and ensuring governance within the ecosystem, thereby enhancing its resilience and growth. To thrive in a competitive market, a strong financial foundation is essential for long-term viability. To this end, the HLC Foundation has developed a resilient economic strategy, detailed in the Resilient Economics section.

Utility of Native Coin: HLC

HLC Coin serves as the native cryptocurrency within the HLC ecosystem. It is used for transaction fees, staking rewards, and various utility functions across the Hyperluxo platforms. HLC Coin's utility transactions, providing value and functionality in multiple contexts, from digital payments (DeFi) applications. The total supply of HLC Coin is capped at 1 Billion HLC, which will be distributed across different segments including rewards, development, marketing, liquidity, reserves, and more.

to decentralized finance

extends beyond simple



HLC, the native coin of HLC Blockchain, powers transactions and governance within the ecosystem. As mentioned earlier it serves as a staking asset, incentivizing Network security and participation. HLC holders benefit from rewards, while its anti-inflationary measures ensure stability. Bridged across Networks, HLC facilitates seamless cross-chain transactions and interoperability and other features are as under:

Securing the Network: Fees

The HLC protocol implements transaction and smart contract interaction fees, which are expressed in HLC. These fees are deliberately maintained at a minimal level, yet they serve as a deterrent against malicious activities, given the economic infeasibility of such actions.

Payments

HLC Network demonstrates scalability by efficiently handling thousands of transactions per second, resulting in minimal inflation in transaction costs and low payment expenses. This positions HLC as a highly viable option for conducting transactions on the Blockchain.

Native dApps

The HLC coin serves as the primary utility token within the native dApps of the HLC ecosystem, facilitating various functions such as interest payments on digital assets and participation in liquidity mining. As the ecosystem expands, holders of HLC coins will play a pivotal role in forthcoming governance decisions on the HLC Blockchain, enhancing their engagement and influence within the ecosystem as explained in the very next sub-section.



Integration within Hyperluxo Group Ecosystem

HLC Coin is utilized across the Hyperluxo Ecosystem, including *Hyperluxo Trade (Forex Trading Platform)*, *Hyperluxo X (Crypto Exchange)*, *MetaSoilverse (Metaverse Platform)*, *MetaSoilverse - NFT Marketplace*, *Hyperluxo Game (Hyperluxo Game)*, *Hyperluxo X (Crypto Payment Solutions)* etc. This extensive integration enhances the coin's utility and value, driving demand and adoption. Users can use HLC Coin for a variety of purposes, from purchasing virtual land in MetaSoilverse to buying, selling, and trading on Hyperluxo Trade.



Strengthening Blockchain Protocol

Leveraging advanced Blockchain technology, HLC ensures remarkable scalability, robust security measures, and near-instantaneous transaction processing. Addressing the inherent challenges of Distributed Ledger Technology



(DLT) within Blockchain systems demands innovative solutions. The HLC development team is dedicated to overcoming these obstacles, guaranteeing the practical feasibility of the underlying DLT.

Central to HLC's technical approach is its commitment to a decentralized Blockchain framework, which eliminates the need for a central authority and ensures secure, cost-effective transactions on a large scale. *At the core of this framework is the innovative Proof-of-Distribution (PoD) consensus model. PoD strategically allocates transaction fees among Validators, Delegators, and Smart Contract Creators, enhancing Network security, incentivizing engagement, and fostering continuous innovation.*

In addition, HLC integrates the Delegated Proof of Stake (DPoS) mechanism, which complements Proof-of-Distribution (PoD) by optimizing transaction processing efficiency and reliability. The combined use of PoD and DPoS not only streamlines operations by eliminating leader selection processes but also reinforces HLC's technical resilience and decentralized nature.

In summary, HLC's technical strategy integrates expert development, a focus on decentralization, and advanced consensus mechanisms to effectively tackle the technical challenges of Distributed Ledger Technology.

Significance of EVM-Compatible Blockchain

The significance of EVM compatibility encompasses several key aspects:

□ **Interoperability:** Ethereum serves as a leader in decentralized applications, smart contracts, and token issuance. EVM compatibility enables your Blockchain or smart contract platform to seamlessly integrate with the extensive Ethereum ecosystem, granting access to a wide range of existing applications and users.



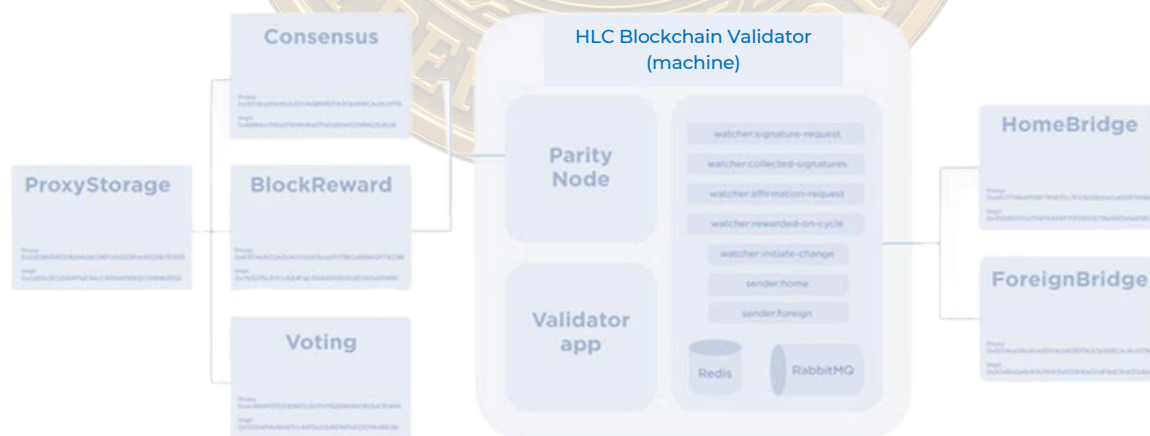
- **Developer Adoption:** Developers are already well-versed in the Ethereum development stack, tools, and languages like Solidity. EVM compatibility simplifies the process for developers to transition their skills and projects to your platform, reducing the learning curve and attracting a broader developer community.
- **Existing Contracts and DApps:** Many decentralized applications (DApps) and smart contracts exist on the Ethereum Network. EVM compatibility facilitates the smooth migration and execution of these contracts and DApps on your platform, minimizing the effort needed to port existing projects.
- **Token Compatibility:** Tokens compatible with the Ethereum Virtual Machine (EVM) can be easily listed on both decentralized and centralized exchanges supporting Ethereum-based assets. This enhances liquidity and market access for tokens issued on your platform, contributing to their overall value and utility.
- **Liquidity and Exchanges:** Tokens adhering to EVM compatibility can secure listings on decentralized and centralized exchanges supporting Ethereum-based assets, streamlining liquidity and market access for tokens originating from your platform, thereby increasing their overall value and utility.
- **Ecosystem Expansion:** Attracting new projects, start-ups, and developers, the platform becomes a hub for building decentralized applications (DApps) and services. This influx fosters a more dynamic and diverse ecosystem.
- **Network Effects:** Leveraging the growing value of a platform as more participants join, this compatibility capitalizes on the existing Network effect of Ethereum. This alignment can significantly boost the growth and adoption of your platform.



- ❑ **Migration and Redundancy:** By providing an alternative to the Ethereum Network, this compatibility acts as a backup for developers and projects, allowing them to migrate or duplicate their operations if issues or limitations arise on Ethereum.
- ❑ **User Base:** Leveraging compatibility with Ethereum allows your platform to access its existing user base, potentially drawing in individuals who are already acquainted with Ethereum's ecosystem and applications.
- ❑ **Standardization:** As the benchmark for smart contracts and decentralized applications (DApps), Ethereum sets the standard in the Blockchain industry. Compatibility with its framework ensures consistency and standardization, facilitating easier interaction for developers and users across various platforms.

CONSENSUS CONTRACT ARCHITECTURE

Consensus serves as a fault-tolerant mechanism utilized in Blockchain systems to achieve the necessary agreement on the singular state of the Network.





Client Application

HLC Blockchain API's

Smart Wallets
API

Notification API

Admin API

Relay
API

Trade API

Data API

Indexers

RFCs

Relayers

HLC Blockchain Network

Smart Wallets

NFT's

Tokens

Other Contracts

HLC Stack: Essential Components

The HLC Stack comprises several vital components, including:

- HLC APIs, encompassing:
 - o Smart Wallets API for the creation and management of Smart Contract Wallets.
 - o Admin API for automating tasks such as rewards and airdropping.
 - o Notifications API for subscribing to updates about wallet activity.
 - o Trade API for fetching trade data and assisting with swaps.
 - o DATA APIs enabling additional indexed data such as balances, transaction histories, and more.
- Indexers, encompassing subgraphs and the explorer.
- Smart Wallet Contracts and their modules.



- Token contracts, covering ERC20 tokens and ERC721 (NFTs).
- Token factories for the creation of new tokens.
- Other smart contracts, including AMMs of DEXes, and more.

These elements collectively constitute the robust and comprehensive HLC Stack, providing a powerful toolkit for developing and deploying Blockchain-based applications on the HLC Network.

Scalability

HLC addresses scalability challenges by integrating an innovative Layer 1 (L1) Blockchain protocol utilizing a unique Directed Acyclic Graph (DAG) model within its distributed ledger system.

The DAG model, operating on a cyclical basis, enhances scalability as the Network grows. It incorporates sharding, partitioning the validator set into smaller groups called shards. Each shard's validators process transactions for specific accounts and update the ledger accordingly. Further details on the validation process can be found in the subsequent sections.

In this framework, the state—including account and transaction records, transaction processing, and consensus achievement (if required)—is distributed across multiple nodes. This decentralized approach eliminates the need for global consensus, as each shard operates independently.

While Ethereum has successfully implemented this model, HLC improves it by introducing an updated fork of Ethereum. This integration allows HLC to leverage the advantages of this approach. As more independent validators are



gradually deployed to the HLC Blockchain, the Network's security and decentralization will be further enhanced.

Compatibility

HLC is designed to seamlessly support Solidity, making the underlying Blockchain fully compatible with the Ethereum Virtual Machine (EVM). This enables developers to easily migrate their existing Ethereum-based smart contracts and decentralized applications (dApps) to the HLC Blockchain.

Additionally, HLC will integrate the widely adopted Web3.0 API, the industry standard, ensuring the HLC Blockchain's full compatibility with all existing cryptocurrency wallets. This promotes a seamless user experience and encourages widespread adoption.

Permissionless Decentralization

The HLC Blockchain utilizes a permissionless model, allowing any community member to run a node on the Network. This openness enables those with the necessary technical skills and resources to become validators on HLC's mainnet, contributing to the Network's security. Users without technical expertise can also participate by delegating their stake to validators, supporting and fostering ecosystem growth. For more information, please refer to the Tokenomics section.

Decentralization presents a significant challenge, especially in ensuring transaction finality, which means the confirmation and irreversibility of transactions. The HLC Blockchain achieves finality through a Directed Acyclic Graph (DAG). The DAG allows for the registration and consensus on the event



history, enabling each node to independently establish the precise and definitive order of events, including transactions. This ensures that the HLC Blockchain maintains an accurate and universally agreed-upon sequence of events throughout the Network.

Consensus Mechanism of HLC

What is Consensus Mechanism?

Blockchain consensus pertains to the process by which nodes within a Blockchain Network come to a consensus regarding the current state of the ledger. In a Blockchain Network, each node maintains a copy of the ledger, and any modifications must undergo validation by the nodes before they are added to the chain. The primary objective of any consensus algorithm is to ensure the secure and dependable updating of the ledger without the need for a centralized authority to supervise the process. In a Proof of Stake (PoS) consensus algorithm, nodes in the Network are chosen to validate transactions based on the amount of cryptocurrency they possess rather than their computational power. These selected nodes validate the transaction, append it to the chain, and receive rewards in the form of transaction fees and block rewards. PoS is utilized in Networks such as Ethereum.

HLC Consensus

The HLC Network primarily employs a pioneering **Proof-of-Distribution (PoD) consensus model**, which introduces the role of delegators alongside validators. In this model, HLC coin holders, who may not have the resources or technical expertise to run a node, can participate by delegating their staked HLC Coins to a selected validator. This delegation increases the validator's influence within the Network. The PoD mechanism ensures that both validators and delegators, validators, delegators, and smart contract creators are incentivized through



block rewards, distributed in proportion to their respective stakes, thereby promoting active participation and Network security.

Delegation

In the HLC Network, validators can increase their share of the overall consensus stake by attracting funds from users who do not run their own validator nodes, known as 'delegators.' Delegators have the option to choose any validator (or multiple validators) and stake any amount of HLC they prefer. The HLC Staking platform provides an easy way for users to delegate HLC to a validator.

Delegators earn a share of HLC rewards based on their stake, minus the fee paid to their chosen validator. Currently, the minimum fee is 15%, a strategic choice designed to reduce the risk of validator centralization by maintaining a low delegation fee.

Staking Requirements

To contribute to the Network's security and become part of the validator set on HLC, a node operator must stake a minimum required amount of 50,000 HLC. The process of becoming a validator on HLC is permissionless, meaning that a node operator must meet specific technical requirements. The maximum staking amount per node is capped at 500,000 HLC coins.

The staking of HLC ensures that an entity cannot create multiple seemingly distinct validators without incurring a significant cost, thus providing Sybil protection. Presently, the maximum number of validators on the HLC Network is limited to 100.

Validators, who successfully publish a consensus-agreed block, are rewarded by the Network protocol with newly minted HLC coins (HLC). They also receive fees from users for the transactions included in the block.



Over time, validators can anticipate publishing a share of blocks commensurate with their overall stake. In the context of HLC Blockchain's Delegated Proof of Stake (DPoS), a validator can increase their block-publishing share by attracting additional HLC Coins from delegators.

Cryptography

HLC Blockchain employs public-key cryptography based on elliptic curves over finite fields, a standard system also used to secure HTTPS connections in modern web browsers. This strong cryptographic approach is essential for providing secure support for both hardware and software wallets within the HLC ecosystem. Additionally, it facilitates the effective use of hardware acceleration for processing transactions, which improves the system's overall performance.

Established Security Protocols

By implementing Delegated Proof of Stake (DPoS), HLC Blockchain achieves a careful balance between security and scalability. This is accomplished through a block validation system grounded in democratic principles and reputation. The framework guarantees that maintaining Network security is entrusted to trustworthy and dedicated participants, creating a consensus mechanism that is both resilient and reliable.

DPoS serves as a crucial consensus mechanism that significantly boosts Blockchain Network security. It addresses specific security issues through its distinctive approach. Let's examine how DPoS effectively resolves these challenges:

□ **Sybil Attacks:** Conventional Proof of Stake (PoS) systems face vulnerability to Sybil attacks, wherein malicious entities generate numerous false identities to seize control of the Network. DPoS takes



proactive measures against this threat by implementing a voting mechanism. Under this system, token holders, known as delegators, cast their votes for a select group of trusted nodes, known as delegates, tasked with block production and Network security. By deliberately limiting the number of authorized delegates, DPoS significantly diminishes the risk of Sybil attacks, thereby enhancing the overall security robustness of the HLC. □

Promoting Decentralization: Although Proof of Stake (PoS) systems might encounter centralization threats stemming from a small number of dominant stakeholders, Delegated Proof of Stake (DPoS) takes a different stance, actively promoting a distributed and decentralized Network architecture. In DPoS, delegates earn their positions through a democratic voting process influenced by criteria such as reputation, technical expertise, and commitment to the Network's well-being. This emphasis on diverse validators discourages excessive centralization, thereby nurturing a more resilient and decentralized HLC.

Enhancing Security Measures: Proof of Work (PoW) systems encounter a security vulnerability when a malicious actor controls more than 51% of the Network's computational power. Conversely, Delegated Proof of Stake (DPoS) implements a unique approach. It centres the consensus mechanism on a fixed number of elected delegates, significantly raising the difficulty and cost for any potential attacker striving to seize control. Unlike PoW, where computational power is paramount, DPoS prioritizes stake ownership and reputation to achieve majority consensus, thereby fortifying its security protocols.

Optimizing Network Speed and Scalability: Delegated Proof of Stake (DPoS) outperforms PoW and PoS in terms of transaction processing speed and scalability. By electing delegates tasked with block production in a predefined sequence, DPoS significantly reduces the time required for



block confirmation. This results in **faster transaction validation** and **increased throughput**, enhancing the overall efficiency of the Network.

□ **Reducing Forks and Chain Reorganizations:** DPoS significantly reduces the likelihood of forks and chain reorganizations, which can introduce confusion and security vulnerabilities. By maintaining a fixed number of delegates and implementing a collaborative consensus mechanism, DPoS promotes a more stable and secure block validation process.

□ **Financial Incentives for Active Engagement and Ongoing Maintenance:** Within a DPoS system, delegates are incentivized financially to uphold the Network's security and reliability. Their reputation and rewards are contingent upon sustained engagement and proficient governance. This monetary drive fosters consistent upkeep, timely enhancements, and prompt responsiveness to potential security risks.

Fostering a Dynamic Community Engagement

HLC establishes a dynamic and inclusive Blockchain ecosystem that unites a diverse community with varying economic, educational, and technological backgrounds. By integrating HLC's advanced digital asset management model with Blockchain technology, we aim to create a strong infrastructure that supports a wide array of decentralized applications. This approach enhances the growth of users' digital assets and contributes to the overall advancement of the HLC ecosystem.

We are committed to building a diverse ecosystem that provides multiple services to a broad user base, believing this will drive widespread adoption and build trust more effectively than focusing on a single service. We recognize the



importance of fulfilling the expectations of our community members and prioritize addressing the needs of all stakeholders within the HLC Foundation.

Building a Trustworthy Reputation

At the heart of every ecosystem, including HLC, is the creation of a reliable and trustworthy image. Elements such as User Interface (UI) and User Experience (UX), alongside the Blockchain's transaction speed and the performance of native dApps, play a crucial role in shaping this perception. The HLC Foundation is committed to the idea that establishing this reputation starts with the brand's initial engagement with the community.

Ready for Launch

To efficiently fulfil these expectations, the ecosystem will debut with an extensive selection of stable native Layer 1 decentralized applications (dApps) and decentralized digital asset tools. This strategic initiative guarantees strong backing for a wide spectrum of digital asset applications within the Blockchain.

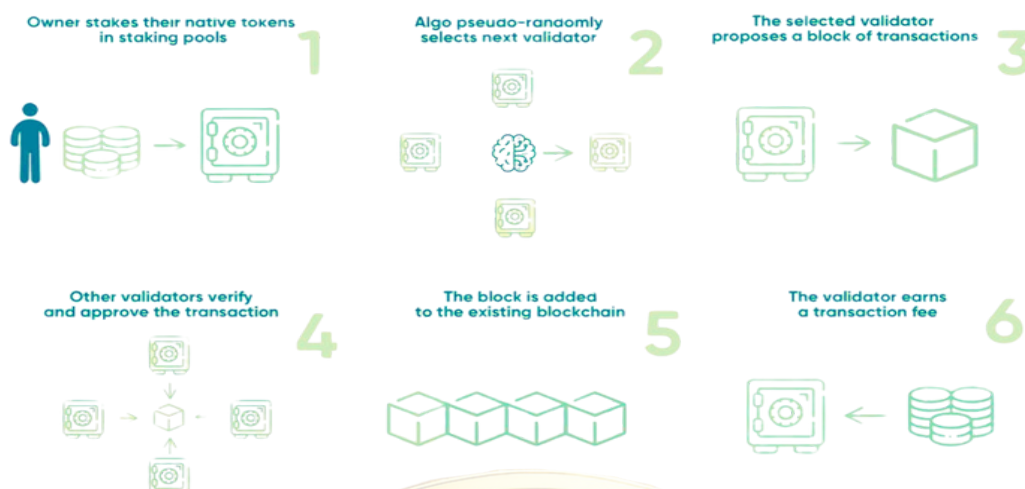
DApps

The deployment pipeline aims to roll out a new stable decentralized application (dApp) approximately every quarter. The HLC Platform, initially at its launch stage or as a Minimal Viable Product, will feature a Staking dApp.

Staking

Staking is a fundamental component of the HLC ecosystem, providing users with an opportunity to engage directly in Network operations and potentially earn

rewards. Participants engage in staking by locking a designated amount of the native HLC coin within the Blockchain. By doing so, they actively contribute to the Network's security and consensus mechanism. In recognition of their participation, stakers may receive additional HLC coins as rewards.



Source: SEBA Research

source:<https://capital.com/proof-of-stake-definition>

This approach motivates users to engage actively in Network security and incentivizes them to hold and invest in HLC. Staking promotes decentralization within the ecosystem and maintains Blockchain stability. It allows users to play a significant role in the ecosystem while potentially earning rewards, establishing HLC as a dynamic and user-centric Blockchain platform.

Digital Wallet & HLC Coin Distribution

Alongside decentralized applications (dApps) and digital asset services, the project will provide digital wallets tailored to support the HLC Coin and other leading Blockchains. Additionally, users will have access to an advanced block explorer, allowing them to monitor Tokenomics emission supply and track all transactions on the HLC Blockchain. This inclusive infrastructure guarantees smooth accessibility and transparency throughout the HLC ecosystem.

Decentralization

To secure the Network's integrity and ensure its optimal performance, the HLC Foundation will initially manage 10 validator nodes placed strategically across various geographical locations. These nodes will work together to uphold the Network's integrity and stability. Additionally, a dedicated and scalable RPC API



layer will be deployed, allowing users' crypto wallets and distributed applications to establish swift, low-latency connections to the Network. This infrastructure aims to improve the overall user experience, enabling seamless interaction with the HLC Blockchain.

Developers Hub: Building on HLC Blockchain

Why build on HLC Blockchain?

HLC Blockchain offers developers a powerful, scalable, and secure platform to create decentralized applications (DApps) and smart contracts. With its cutting-edge technology and robust ecosystem, HLC Blockchain provides a unique opportunity for developers to innovate and thrive in the decentralized world. **Key**

Benefits for Developers:

- **High Performance:** Take advantage of HLC Blockchain's efficient consensus mechanisms, including **Proof-of-Distribution (PoD)** and Delegated Proof of Stake (DPoS), ensuring fast transaction processing and low latency for your applications.

- **Interoperability:** Build on a platform that supports Ethereum Virtual Machine (EVM) compatibility, allowing seamless migration of your existing Ethereum-based projects and leveraging established tools and standards.

- **Security:** Develop with confidence using HLC Blockchain's strong cryptographic protocols, which ensure the integrity and security of your smart contracts and user transactions.

- **Fees Sharing with Developers:** Benefit from a fee-sharing model that rewards developers with a portion of the transaction fees generated by their smart contracts and applications, incentivizing continuous innovation and development on the platform.



- **Community Support:** Join a growing community of developers, collaborate on open-source projects, and access extensive documentation and tutorials to guide your development journey.

Getting Started: Technical Resources

To help you get started on HLC Blockchain, we offer a comprehensive set of tools and resources:

- **HLC APIs:** Access our suite of APIs for Smart Wallets, Admin tasks, Notifications, Trading, and Data management. These APIs are designed to simplify the integration and management of your DApps.
- **Smart Contract Templates:** Utilize pre-built smart contract templates for common use cases, including ERC20 tokens, NFTs (ERC721), decentralized exchanges (DEXs), and more.
- **Developer Documentation:** Dive into our detailed documentation, which covers everything from setting up your development environment to deploying your first smart contract on HLC Blockchain.
- **HLC Testnet:** Experiment and test your DApps on the HLC Testnet before deploying them on the mainnet. The Testnet provides a risk-free environment to ensure your applications are ready for production.
- **Indexers and Explorers:** Utilize our indexers, subgraphs, and Blockchain explorers to access real-time data, monitor your contracts, and analyse Network activity.

How to Build on HLC Blockchain

- **Set Up Your Development Environment:**
 - o Install the necessary tools and libraries, and the HLC Wallet.
 - o Connect to the HLC Testnet for initial development and testing.
- **Develop and Deploy Smart Contracts:**
 - o Write smart contracts using Solidity or other supported languages.



- o Deploy your contracts using HLC's robust deployment tools and APIs.

□ Integrate DApp Features:

- o Utilize HLC APIs to add features such as wallet integration, notifications, and trading functionalities.
- o Leverage smart contract templates for common functionalities like token creation or NFT minting.

□ Test and Optimize:

- o Run comprehensive tests on the HLC Testnet to ensure your DApp's performance, security, and user experience.
- o Optimize your code for efficiency and scalability.

□ Launch on HLC Mainnet:

- o Deploy your final product on the HLC Mainnet.
- o Promote your DApp within the HLC community and participate in ecosystem events.

HLC Coin's Utility in HLC Ecosystem

The HLC ecosystem is designed to drive innovation, decentralization, and user engagement through advanced Blockchain technology. It offers a secure platform

for decentralized applications (dApps), decentralized finance (DeFi) solutions, non-fungible tokens (NFTs), and Metaverse. Key features include a governance model that allows community input on

Network upgrades and developments, and a focus on security and scalability with strategically placed validator nodes to ensure stability. The ecosystem encourages active involvement from developers, validators, stakers, and users, fostering a collaborative environment to maximize Blockchain benefits.

Overview of the Hyperluxo Group Ecosystem



The [Hyperluxo Group ecosystem](#) is built on a robust and integrated foundation, encompassing a diverse range of platforms such as, Hyperluxo Trade (Forex Trading Platform), Hyperluxo X (Crypto Exchange), MetaSoilverse (Metaverse Platform), MetaSoilverse - NFT Marketplace, Hyperluxo Game (Hyperluxo Game), Hyperluxo X (Crypto Payment Solutions). This Blockchain enhances the performance and security of each platform, fostering a cohesive and synergistic ecosystem. By leveraging Blockchain technology, the Hyperluxo Group ensures seamless interactions and elevated security across all its offerings, creating a unified and powerful digital environment. The HLC Coin plays a crucial role in this ecosystem by facilitating transactions, enabling staking, and providing governance, access, and rewards across all platforms

HLC Coin's utility in the ecosystem

The HLC Coin is a vital and foundational element within the Hyperluxo Group ecosystem, significantly enhancing the functionality of various platforms and applications. Its robust and secure framework underpins a range of features, ensuring efficiency, transparency, and reliability across diverse use cases.

Here's how the HLC Coin is utilized throughout the ecosystem:

● **Forex Trade:** The HLC Coin complements the Hyperluxo Trade, the Forex trading platform by underpinning secure and swift forex transactions. Its integration ensures minimal latency and low transaction costs, boosting liquidity and operational efficiency. The Coin's robust security measures safeguard against fraud and unauthorized access, providing traders with a dependable and secure trading environment.



● **Crypto Exchange:** Hyperluxo X, the Crypto Exchange platform, leverages the



HLC Coin to enhance cryptocurrency transactions with efficiency and transparency. By utilizing the HLC Coin, the platform benefits from streamlined trade settlements, minimizing errors and ensuring clear transaction records. This integration promotes a



seamless and reliable trading experience, boosting user satisfaction and trust in the exchange.

□ **NFT Marketplace:** On the MetaSoilverse platform, the HLC

Coin supports the secure and transparent minting, buying, and selling of NFTs, including virtual land parcels. Its robust ledger provides an immutable record of ownership and transaction history, protecting against fraud and ensuring the authenticity of these digital assets. This integration fosters a sustainable, carbon-neutral virtual environment and contributes to a trustworthy ecosystem for both businesses and individuals in the decentralized economy..



● **Crypto Payment Solutions:** The HLC Coin enhances Crypto Payment Solutions by facilitating seamless on-ramp and off-ramp services for users. This integration supports point-of-sale (POS) transactions, enabling businesses and consumers to make everyday purchases with cryptocurrencies. By simplifying these transactions, the HLC Coin promotes the practical use and adoption of digital assets in everyday financial activities, bridging the gap between cryptocurrency and traditional commerce.



● **Metaverse Platform:** Within the MetaSoilverse, the HLC land Coin drives key functions such as virtual transactions, in-game purchases, and digital asset

management. Its capabilities guarantee secure and efficient processing of these transactions, offering users a smooth experience in handling their digital properties and assets. This strong infrastructure fosters the development of a vibrant and immersive virtual environment.



HLC Interoperability

Support for Common Languages



HLC prioritizes the integration of Web3.0 APIs across a variety of programming languages, including C#, Python, Java, and JavaScript. Additionally, it ensures seamless compatibility with Solidity, the language used in EVM (Ethereum Virtual Machine) frameworks. This allows developers to capitalize on existing smart contract libraries, streamlining the development process. HLC actively promotes the adoption of popular tools like Truffle, MetaMask, and Remix, offering a familiar development environment. Its containerized architecture guarantees flexibility and adaptability, enabling the incorporation of additional programming languages and tools as required. This dynamic framework empowers developers to select from a diverse array of languages and tools to meet their specific needs, ensuring a versatile and customizable development experience on the HLC platform.

Solidity

HLC provides robust support for Solidity, ensuring seamless compatibility with the Ethereum Virtual Machine (EVM). This allows developers to seamlessly transition their existing Ethereum-based smart contracts and decentralized applications (dApps) to the HLC Blockchain. With Solidity expected to remain the preferred language for smart contract development, HLC supports object-oriented Solidity, enabling developers to utilize their existing expertise. Solidity, known for its high-level capabilities, enables the use of variables, functions, classes, arithmetic operations, string manipulation, and more on the HLC Blockchain.

EVM- Compatible

The HLC Blockchain maintains compatibility with the Ethereum Virtual Machine (EVM), ensuring that smart contracts can be written in languages supported by the EVM, like Solidity. This compatibility extends a secure, sandboxed environment for smart contract execution, isolating code from the



Network and other processes. By adhering to EVM standards, the HLC Blockchain offers dApp developers a familiar and secure environment for smart contract development, enhancing overall security by limiting interactions and preventing unauthorized access.

Tuning VM for dApp Flexibility and Gas Efficiency

Securing comprehensive dApp support requires a Turing-complete virtual machine (VM) capable of managing constraints, such as the gas limit per transaction. This restriction, which controls computational steps, requires meticulous management to maintain equilibrium. This balance ensures the VM efficiently processes transactions within defined gas limits, addressing various computational tasks for dApps. Ultimately, this approach upholds the integrity and stability of the Blockchain Network.

Web3.0 - compatible Wallet

The HLC platform places a premium on user convenience through the seamless integration of the widely embraced JSON-RPC API. This strategic integration facilitates effortless connectivity between users' MetaMask or any Web3.0 wallets and the HLC ecosystem. By leveraging the standard JSON-RPC API, users can enjoy a smooth and familiar experience, securely accessing and utilizing their wallets within the HLC platform. This approach not only emphasizes accessibility but also encourages interoperable interactions, enhancing overall convenience within the ecosystem.

Robust Economic Framework

As outlined in the segment discussing Blockchain Challenges, many newcomers to the DeFi and Blockchain sectors find it challenging to navigate the volatility of digital asset markets. To counter this, HLC Blockchain has enacted three core strategies to bolster its resilience:



□ **Fostering Trust through a Robust MVP Ecosystem:** HLC places a high priority on developing a robust Minimum Viable Product (MVP) ecosystem to shape its brand reputation. By offering a diverse array of reliable services, HLC endeavours to inspire trust and confidence among its users.

□ **Bootstrap Economics:** HLC underscores the importance of establishing a sturdy economic foundation. This entails implementing sound economic principles and strategies to promote sustainability and growth within the ecosystem. Through diligent management of economic variables, HLC seeks to foster stability and resilience amid market fluctuations.

□ **Deflationary Strategy:** HLC embraces a deflationary approach within its ecosystem, particularly concerning its native coin. This strategy regulates the coin's supply, mitigating inflationary pressures and potentially enhancing its long-term value. By incorporating deflationary measures, HLC aims to create a conducive economic environment for users, reinforcing the ecosystem's sustainability.

□ **Staking & Rewards Issuance Oversight:** Users can stake HLC Coins to become validators or delegators, earning rewards for their participation in securing the Network. This incentivizes users to contribute to the Network's security and stability. Staking rewards are distributed based on the amount of HLC Coins staked, ensuring that those who contribute more to the Network receive higher rewards. HLC maintains oversight over the issuance of rewards, this enables careful monitoring and adjustment of rewards to ensure their sustainability and alignment with the ecosystem's overarching goals and objectives.

By adopting these strategies, HLC seeks to enhance its resilience and address the challenges posed by market volatility. This effort aims to offer users a more stable and secure environment for their digital asset activities.

Deflation



To mitigate potential risks in an inflationary economic environment, the HLC Foundation strategically allocates a significant portion of profits and transaction fees from native dApps for HLC Coin buybacks. This deflationary tactic increases demand for HLC within its ecosystem. By employing this strategy, the project aims to ensure long-term sustainability and enhance Tokenomics incentives, surpassing those offered by competing Blockchains and other Layer 1 solutions. HLC is poised to be a revolutionary force with a substantial impact on the Blockchain industry.

Digital Asset Growth

The HLC incorporates the following features for digital asset generation:

- Automated staking of HLC to earn xHLC interest incentives.
- Validator node operation rewards with appealing APY rates, where rewards are linked to the duration of the locking period.
- Delegation of HLC Coins to decentralized validators.

A significant benefit of HLC is its ability to eliminate central control points such as intermediaries and entry barriers commonly found in the traditional centralized financial sector, all while harnessing the numerous advantages of DeFi. HLC aims to enable traditional banking clients to take advantage of the new opportunities for digital asset growth facilitated by Blockchain financial instruments.

Partnerships and Collaborations

Key Partnerships

We have established key partnerships with leading Blockchain platforms and industry leaders to ensure robust performance and wide adoption. These partnerships provide valuable resources and expertise, helping to drive the growth and success of HLC Blockchain.



Opportunities for Collaboration

We invite developers, creators, and designers to collaborate on innovative projects and contribute to the growth of the HLC ecosystem. Opportunities include developing new applications, creating digital assets, and participating in community initiatives.

Invitation to Developers, Creators, and Designers

Join us in building the future of decentralized technology. Developers, creators, and designers are encouraged to create avatars, tools, digital crops, and accessories for our platforms. These contributions will enhance the user experience and drive the adoption of HLC Blockchain.

Tokenomics

The HLC Blockchain's Tokenomics framework is designed to support and drive the ecosystem's expansion, stability, and user engagement. It incorporates various mechanisms to ensure a balanced and effective distribution of HLC Coins, incentivize participation, and allocate resources efficiently.

□ **Token Distribution:** HLC Coins are distributed through staking rewards, ecosystem incentives, and strategic partnerships. This ensures a fair and widespread allocation, promoting decentralized participation and Network growth.

□ **Allocation of Funds:** Funds are allocated towards development, marketing, partnerships, and community building to ensure sustainable growth and innovation. Transparent fund allocation fosters trust and supports long-term success.

□ **Incentives for Early Adopters:** Early adopters receive special incentives, including bonus HLC Coins and exclusive access to new features and



developments. These incentives encourage early participation and support the Network's initial growth phase.

Smart Contract: HLC

In the HLC ecosystem, a pivotal component is the smart contract named "HLC". This contract governs the creation, distribution, and functionality of the HLC within the Blockchain Network.

Symbol: HLC

Total Supply: 1 Billion

The "HLC" smart contract orchestrates various functions within the HLC ecosystem:

- **Coin Transfers:** Users can execute secure and transparent transfers of HLC coins, either peer-to-peer (P2P) or to smart contracts, leveraging the functionalities provided by the "HLC" smart contract. Transactions are recorded immutably on the Blockchain ledger.
- **Coin Management:** The smart contract facilitates token management tasks, including balance inquiries, approval of allowances, and Coin burning if necessary for deflationary mechanisms.
- **Governance and Voting:** Governance functionalities may be embedded within the smart contract, enabling coin holders to participate in decision-making processes such as protocol upgrades, parameter adjustments, and community proposals through voting mechanisms.
- **Security and Compliance:** Stringent security measures are implemented within the smart contract to safeguard against unauthorized access, mitigate potential vulnerabilities, and ensure adherence to regulatory standards.

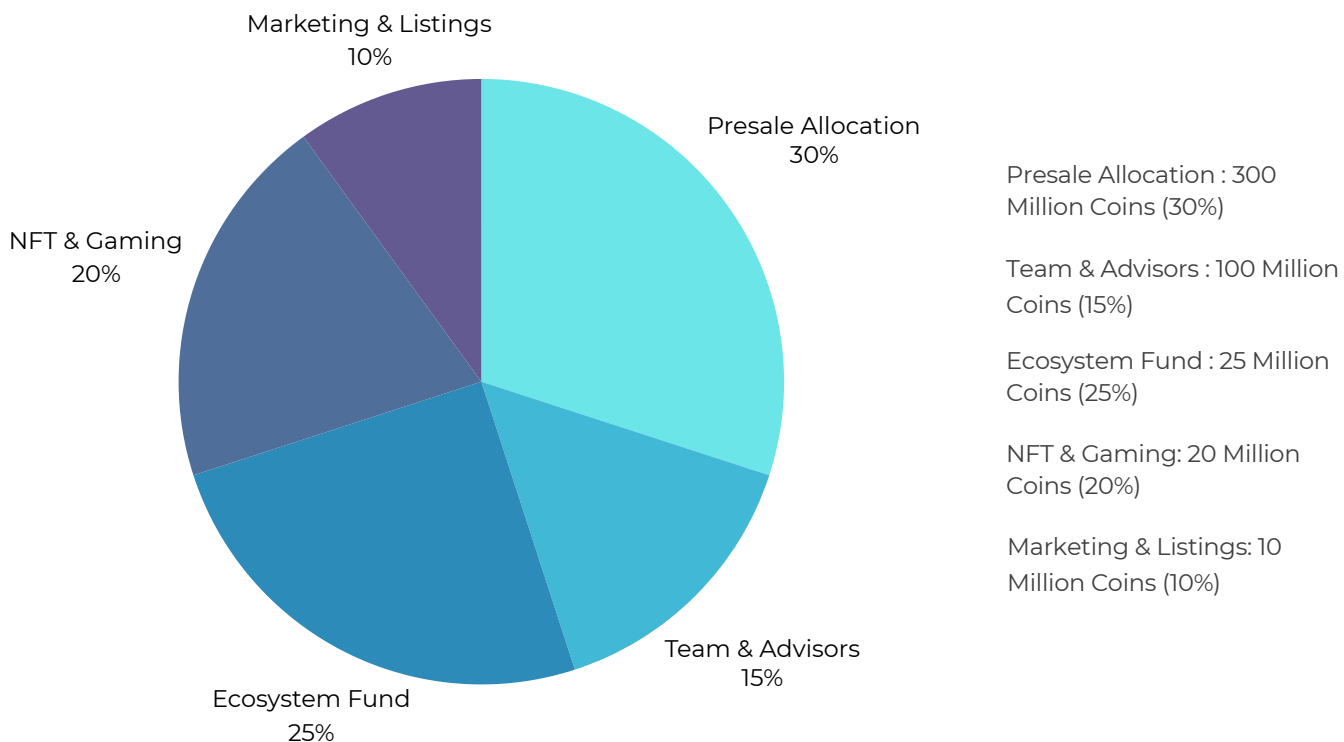


HLC Ecosystem Tokenomics

HLC Allocation of Digital Funds

This maximum supply of **1 Billion HLC Coins** will be distributed according to the following allocations:

HLC COIN ALLOCATION





Gas Fees and Yearly Rewards

Proof-of-Distribution: The HLC Blockchain employs a pioneering Proof-of-Distribution (PoD) consensus model, which strategically allocates transaction fees among Validators, Delegators, and Smart Contract Creators. This distribution model not only fortifies the Network's security by incentivizing validators but also promotes active engagement from delegators who support the Network through their stake. By providing rewards to Smart Contract Creators, the HLC Blockchain encourages continuous innovation and the development of decentralized applications (dApps), fostering a thriving ecosystem of developers.

This balanced distribution mechanism ensures that all participants—whether they are securing the Network, staking their assets, or developing smart contracts—are fairly rewarded for their contributions. By reinvesting transaction fees back into the ecosystem, HLC supports sustainable growth and a dynamic, resilient Blockchain community. This approach cultivates a collaborative environment where every stakeholder's contribution is recognized and valued, driving both innovation and long-term Network stability.

Gas Fees: The transaction costs on the HLC Blockchain range between 0.03

and 0.08 HLC, with an average fee of 0.04 HLC. This fee structure is designed to be competitive while maintaining Network efficiency and security.

Yearly Rewards: Participants in the HLC ecosystem can earn annual rewards of up to 8%. These rewards are designed to incentivize active involvement and support the Network's growth and stability.



Locking Period Calculation:

RELEASE			2025	2026	2027	2028	2029
Seed Round	JAN FEB MAR	1st Quarter	FULL LOCK	SEED ROUND: <input type="checkbox"/> Full lock for 1 year <input type="checkbox"/> After one year with the voting of founders and investors			
	APR MAY JUN	2nd Quarter					
	JULY AUG SEP	3rd Quarter					
	OCT NOV DEC	4th Quarter					
TOTAL			0%				

RELEASE			2025	2026	2027	2028	2029
Private	JAN FEB MAR	1st Quarter		5%	5%	5%	5%
	APR						
	MAY JUN	2nd Quarter	5%	3%	5%	5%	5%
	JULY AUG SEP	3rd Quarter	10%	4%	5%	5%	5%



	OCT NOV DEC	4th Quarter	10%	3%	5%	5%	5%
	TOTAL		25%	15%	20%	20%	20%

RELEASE			2025	2026	2027	2028	2029
Pre-Sale	JAN FEB MAR	1st Quarter		5%	5%	5%	5%
	APR MAY JUN	2nd Quarter	5%	3%	3%	3%	5%
	JULY AUG SEP	3rd Quarter	10%	4%	4%	4%	5%
	OCT NOV DEC	4th Quarter	20%	3%	3%	3%	5%
	TOTAL		35%	15%	15%	15%	20%

RELEASE	2025	2026	2027	2028	2029
Public Sale	100% release on Public sale & No Lock-in				

Functional Utilities of HLC

Furthermore, serving as the native Coin of the HLC Blockchain, HLC will also serve as the primary native Coin for the dApps developed by the HLC

Foundation. The growth of the coin will be influenced by the widespread adoption of the Blockchain and the success achieved by its native dApps.

Validator Reward Program

Individuals who operate a validator node or delegate HLC to validators receive rewards in HLC. The HLC protocol offers two staking options:

1. Become a validator:

The requirements to become a validator include:

- Minimum stake 50,000 HLC Coin Maximum validator size: not more
- than 10x the self-stake amount Meet service level agreement (SLA)

□

2. Join an existing pool as a delegator:

The requirements to become a delegator include:

- Minimum stake 10,000 HLC Coin Assign 15% of delegator reward to
- host/validator **Reward Program for Delegators:** Delegators earn a
- share of the
- validator's rewards, with an APY starting from 8%, which is
- influenced by factors such as the duration of the lock-up period, the
- total stake size, and the stability of the validator on the network.

3. Smart Contract Creators:

- **Incentive Program:** Smart contract creators receive a portion of the transaction fees generated by their contracts on the HLC Blockchain.
- **Reward Allocation:** This incentive is designed to encourage the development of high-quality decentralized applications (DApps) and services, further enhancing the HLC ecosystem.



- **Additional Rewards:** The reward rate may vary based on factors such as the contract's usage, transaction volume, and overall contribution to the network's ecosystem.

The reward given to validators, delegators, and smart contract creators varies, with an annual percentage yield (APY) starting from 8%, determined by factors such as the duration of the lock-up, total stake size, and network stability.

Validator and Delegator Penalties

To uphold Network stability, the HLC Blockchain implements a penalization system, known as "slashing," which targets validators displaying low stability or engaging in malicious actions. This mechanism may result in the penalization of a validator's stake, which includes contributions from affiliated delegators. Additionally, validators or delegators who prematurely unlock their staked assets may face a reduction of up to 50% in their reward rate. This discourages early stake withdrawal, promoting adherence to the agreed lock period and enhancing the Network's overall integrity. For detailed information on minimum validator node requirements, please refer to the technical specifications provided in the relevant section.

Securing the Network: Validator Staking

The primary utility of the HLC Coin revolves around securing the Network via the DPoS system. Users can participate by either setting up a validator node or delegating their stake to a validator and then locking their coins for a predetermined period. Stakers earn rewards based on the delegated coin amount and the duration of the lock-up, subject to the uptime and stability of the validator.



Validator Node Minimum Requirements

Validator nodes are essential for the operational efficiency of the HLC Network. These nodes, tasked with running a full node and participating in consensus, significantly contribute to Network security and block generation.

Community members seeking to operate a validator node must meet the Service Level Agreement (SLA) criteria. Essentially, these criteria include:

Minimum stake: 50,000 HLC Coin

Maximum validator size: delegators may delegate up to 10x the validator's self-stake amount

OS: Ubuntu Server 20.04 LTS (64-bit) or similar

Minimum hardware requirements:

- AWS EC2 m5.xlarge with 4 vCPUs (3.1 GHz)
- 2TB of Amazon EBS General Purpose SSD (gp2) storage (or equivalent)

It is worth noting that users will have the option to purchase Miner Machines from us in the near future.

Roadmap

The HLC ecosystem is set for a dynamic rollout, with each product launch strategically scheduled to maximize impact and adoption. Starting with the official launch of the HLC Blockchain, each subsequent quarter will witness the introduction of additional platforms and solutions, enhancing the overall ecosystem and offering users a comprehensive suite of Blockchain-powered services.



Roadmap for HLC Ecosystem

Q1 2024

- **HLC Blockchain Development:** Finalize development, testing, and security audits of the HLC Blockchain to ensure its readiness for launch.
- **Research & Development:** Continue R&D efforts to enhance the HLC Blockchain's features, scalability, and security, ensuring it meets the highest industry standards. Research initiated back in 2020 and extending through Q1 2024 focusing on developing new consensus algorithms, improving transaction speeds, and integrating advanced security measures. This ongoing research is designed to keep the Blockchain at the forefront of innovation, ensuring its robustness and adaptability to emerging technologies and industry trends.
- **Community Engagement and Awareness:** Begin marketing and educational initiatives to prepare and engage the community.

Q2 2024

- **HLC Website Launch:** Unveil the official HLC website, providing detailed information about the platform and its offerings.
- **Validator Recruitment and Training:** On-board, approve & train a few selective validators for the HLC Blockchain, ensuring Network security and efficiency.
- **Pre-Launch Preparations:** Complete final preparations, including system stress tests and readiness checks.
- **Community Engagement:** Actively engage with the community through events, AMAs (Ask Me Anything sessions), and other initiatives to build awareness and support for the upcoming launch.



- **ICO Launch:** Initiate the Initial Coin Offering (ICO) to raise funds and distribute HLC Coins, providing early supporters with the opportunity to participate in the Network.
- **Testnet Launch:** Deploy the HLC Blockchain Testnet, allowing developers and participants to test functionalities, provide feedback, and optimize performance before the official launch.

Q3 2024

- **Official HLC Blockchain Launch:** Launch the HLC Blockchain, establishing the core infrastructure of the ecosystem and setting the foundation for future developments.
- **Mainnet Launch:** Transition from Testnet to Mainnet, enabling live transactions, smart contracts, and full functionality for all participants within the HLC ecosystem.
- **Launch of Play-to-Earn Game:** Introduce a Play-to-Earn game built on the HLC Blockchain, allowing users to earn rewards through gameplay, further driving engagement and adoption within the ecosystem.
- **Landing Page Launch for Hyperluxo X (Crypto Exchange):** Introduce a landing page for Hyperluxo X, highlighting its features and benefits.
 - **Launch of Metaverse App:** Unveil the Meta app on the MetaSoilverse platform, offering users an immersive experience within the metaverse.

Q4 2024

- **Hyperluxo Trade Integration:** Launch the Hyperluxo Trade forex trading platform integrated with the HLC Blockchain, providing secure and efficient trading.



□ **Crypto Exchange Platform Launch:** Introduce Hyperluxo X, the Crypto Exchange, leveraging the HLC Blockchain for transparent and efficient cryptocurrency transactions.

□ **Hyperluxo Pay Registration Process:** Begin the registration process for Hyperluxo

Pay, our crypto payment solution, enabling users to register for virtual and physical debit cards that link directly to their cryptocurrency wallets.

□ **Hyperluxo Pay Website Launch:** Introduce the new website for Hyperluxo Pay, showcasing its features and functionalities.

□ **Hyperluxo Pay Product Launch:** Introduce Crypto Payment Solutions, offering seamless on-ramp and off-ramp services through virtual and physical debit cards, enhancing the usability and accessibility of cryptocurrencies for everyday transactions.

□ **MetaSoilverse NFT Land Parcel Sale:** The Meverse platform will offer NFT land parcels for purchase, giving users the chance to own and develop virtual real estate within the MetaSoilverse. These unique digital assets can be traded, and ownership will be securely recorded on the Blockchain.

Q1 2025

□ **Validator's Training:** We will publically open the Validator program and provide the Training to the Validators.

□ **MetaSoilverse Platform Launch:** Roll out the MetaSoilverse Metaverse platform, utilizing HLC Blockchain for virtual land transactions and in-game purchases.

□ **NFT Marketplace Launch:** Launch the NFT Marketplace on the HLC Blockchain for secure and transparent minting, buying, and selling of NFTs.



□ **HLC Coin Listing:** List HLC Coin on the Hyperluxo X (Crypto Exchange, enabling users to trade and invest in HLC Coin directly on the platform, further driving liquidity and adoption.

□ **Web3.0 Product Addition:** Introduce a new Web3.0 product to expand the decentralized ecosystem, focusing on enhancing user experience, security, and interoperability within the Blockchain space. This addition will further integrate Blockchain technology into everyday digital interactions, emphasizing privacy and control for users.

□ **Game Enhancement:** Implement updates and improvements to the existing Play-to-Earn game, enhancing gameplay mechanics, graphics, and user rewards, further driving user engagement and adoption within the ecosystem.

Q2 2025

□ **Crypto Payment Solutions Enhancement:** Implement Crypto Payment Solutions for seamless point-of-sale (POS) transactions, enhancing cryptocurrency usability in everyday transactions.

□ **Ecosystem Integration:** Ensure full integration of all HLC products—Hyperluxo Trade, Hyperluxo X, MetaSoilverse, NFT Marketplace, and Crypto Payment Solutions—with the HLC Blockchain.

□ **Website Update:** Roll out significant updates to the HLC website, improving user interface, navigation, and providing more in-depth information about the ecosystem and its offerings.

□ **Whitepaper Enhancement:** Enhance the existing whitepaper to reflect new developments, updated strategies, and refined technical details, ensuring it remains an accurate representation of the HLC ecosystem's progress and future plans.

□ **New Web3.0 Product Launch or Addition:** Introduce a new Web3.0 product, further strengthening the decentralized ecosystem with cutting-



edge technology designed to enhance security, user experience, and interoperability.

□ **Game Enhancement:** Continue to improve the Play-to-Earn game with new features, upgrades, and reward mechanisms, driving engagement and offering more value to users within the HLC ecosystem.

Q3 2025

□ **Performance Optimization:** Continuously refine and optimize the HLC Blockchain and its ecosystem products to enhance scalability, security, and overall performance, ensuring a robust and efficient Network.

□ **NFT Marketplace Launch:** Officially launch the NFT Marketplace, enabling users to engage in secure and transparent minting, buying, and selling of NFTs, expanding the digital art and collectibles ecosystem on the HLC Blockchain.

□ **Expansion and Innovation:** Focus on global expansion, forge strategic partnerships, and introduce innovative new features to meet the evolving market demands and user needs, positioning HLC as a leading player in the Blockchain space.

□ **Community and Ecosystem Growth:** Strengthen community engagement programs and support initiatives to build a vibrant and active user base, fostering long-term growth and loyalty within the HLC ecosystem.

Q4 2025

□ **New Web3.0 Product Launch or Addition:** Expand the ecosystem by introducing a new Web3.0 product or enhancing existing solutions, further bolstering the decentralized infrastructure and user engagement.



□ **Technology Enhancement:** Implement key technological advancements to improve overall system performance, scalability, and security within the ecosystem.

□ **Payment Enhancement:** Upgrade payment systems to streamline transactions and improve the integration of crypto payments across various platforms, offering users a seamless experience.

□ **Blockchain Enhancement:** Integrate additional Blockchain solutions, strengthening interoperability and expanding the ecosystem's capabilities.

□ **Game Enhancement:** Introduce new updates and features to the Play-to-Earn game, driving further user interaction and ensuring continued evolution of the gaming experience.

Q1 2026

□ **Digital Transformation for HLC Blockchain and Platforms:** Initiate a comprehensive digital transformation strategy to further innovate and enhance the HLC Blockchain and associated platforms, ensuring they remain at the cutting edge of technology and user experience.

□ **Launch of Lending and Borrowing Platform:** Introduce a decentralized lending and borrowing platform within the HLC ecosystem, enabling users to leverage their digital assets for loans and earn interest on their holdings.

□ **Launch of Liquidity Pool:** Establish a liquidity pool on the HLC Blockchain, providing users with opportunities to participate in liquidity provision, enhance trading capabilities, and earn rewards.

□ **MetaSoilverse Enhancement and Development:** Continue to enhance and develop the MetaSoilverse platform, expanding its features, virtual land offerings, and in-game experiences to create a richer, more immersive Metaverse environment.



□ **Launch of Hyperluxo Media:** Unveil the Hyperluxo Media platform, a new initiative designed to integrate media content with Blockchain technology. This platform will offer innovative ways for users to engage with content creators and advertisers, leveraging the HLC ecosystem.

Q2 2026

□ **Community Enhancement and Engagement via Earn-to-Earn Game:** Launch a new earn-to-earn game designed to boost community engagement and provide users with fun and rewarding ways to participate in the HLC ecosystem. This initiative will strengthen user loyalty and expand the active community base.

□ **Introducing the Reveal Program:** Kick off the Reveal Program, where major announcements and updates will be unveiled. This program will keep the community informed and excited about new developments, upcoming features, and strategic partnerships within the HLC ecosystem.

Q3 2026 & Q4 2026

□ **Community Engagement and Growth:** Focus on expanding the community through various engagement initiatives, including contests, rewards programs, and collaborative events. Strengthen user participation and foster a more connected ecosystem.

□ **Platform Development and Enhancements:** Continue the development and enhancement of HLC Blockchain and associated platforms. Implement new features, improve user experience, and optimize system performance to meet evolving market needs.

□ **Strategic Collaborations and Partnerships:** Forge new partnerships and collaborations with industry leaders to expand the reach and influence of



the HLC ecosystem. These strategic alliances will drive innovation and open new avenues for growth.

□ **Cross-Platform Integrations:** Work on seamless integrations between HLC Blockchain and other platforms, ensuring interoperability and creating synergies across the ecosystem. These integrations will enhance the utility and adoption of HLC technology in various sectors.

Q1 2027

□ **Whitepaper and Development Enhancement:** Release updated whitepapers outlining the latest technological advancements, strategic goals, and development milestones. This will provide the community with clear insights into the future direction of the HLC Blockchain and its associated platforms.

□ **Many more new Web3.0 products:** We will be adding several new Web3.0 products to our ecosystem, designed to enhance functionality and user experience. These products will incorporate advanced Blockchain technology, providing innovative features that cater to the evolving needs of our community.

Legal and Compliance

Regulatory Compliance

HLC Blockchain adheres to all relevant regulatory frameworks to ensure legal compliance and foster trust among users and partners. Our commitment to regulatory compliance ensures that HLC Blockchain operates within the bounds of the law and maintains a high standard of integrity.



Legal Considerations

We prioritize legal considerations to mitigate risks and ensure the long-term viability of the HLC Blockchain. This includes regular legal reviews, compliance checks, and transparent communication with regulatory bodies.

Conclusion

Summary of Key Points

HLC Blockchain is a ground-breaking Layer 1 Blockchain designed for enhanced security, transparency, and efficiency. Integrated within the Hyperluxo ecosystem, it provides significant utility and value across multiple platforms. Our robust technology, community engagement strategies, and strong partnerships position HLC Blockchain as a leader in the decentralized technology space.

Call to Action

Join us in revolutionizing the future of decentralized technology. Engage with our community, participate in our programs, and contribute to the growth of the HLC Blockchain. Together, we can build a secure, transparent, and efficient Blockchain ecosystem that empowers users and businesses worldwide.

Contact Information

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For more information, please contact us at support@hyperluxocoin.com



DISCLAIMER

This whitepaper offers a detailed roadmap for understanding the HLC Blockchain and its ecosystem, including its motivation, philosophy, Tokenomics, technological approach, and roadmap details. It aims to provide a thorough overview of HLC.

However, this document is not a legally binding agreement between its creators and readers, nor does it guarantee the successful implementation of the proposed development plan. HLC explicitly disclaims any such implications, and individuals or groups engaging with this document do so at their own risk.

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