

# LIGHTPAPER



HIZITIV

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## HIZITIV: A POWERFUL DECENTRALIZED ENVIRONMENT FOR TRUST AND COHESION, CONTINUOUSLY EVOLVING TO SUPPORT THE GLOBAL ADOPTION OF WEB3 AND FACILITATE EASIER ENTRY

- Enes Akkoyun | Founder Hizitiv

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# TRUST REDEFINED

In an era marked by the relentless pursuit of innovation, blockchain technology stands as a beacon of transformative potential, promising to redefine the very fabric of our digital interactions.

As we navigate the complexities of the modern world, the need for reliant, secure and compliant distributed systems has never been more apparent.

Hizitiv serves as a compass, guiding you through the fundamental principles and advanced solutions that underpin our mission for a future where trust, cohesion and efficiency converge seamlessly.

Hizitiv redefines what a layer 1 blockchain can be. It represents a paradigm shift in how information and value are captured, recorded, and validated on a global scale, with next-level of security and speed.

## Unveiling the Power

This lightpaper invites you to explore the intricacies of Hizitiv, from its advanced technologies, practical decentralized applications to the use cases that unlock a new realm of possibilities, as we embark on this journey together.

Envision a world where centralized systems fade into obsolescence and decentralized peer-to-peer transactions become the norm.

## INTRODUCTION

## OVERVIEW

# THE NEXT-GENERATION BLOCKCHAIN TO OVERCOME TRADITIONAL CHALLENGES AND UNLOCK NEW POSSIBILITIES FOR EVERYONE



**HIZITIV is a next-gen powerful and quantum-secure layer 1 blockchain infrastructure**, supporting both public and private environments to unlock the capabilities of decentralized networks and applications for individuals and businesses.

Introducing a novel quantum-safe hash algorithm—HIZIV8, alongside an advanced high-capacity dual consensus mechanism featuring 'Proof of Save' and 'Unified Proof of Stake', designed to balance the blockchain trilemma challenges within its Ecosystem.

Unlike traditional blockchains, HIZITIV integrates sustainable operations, adaptive scalability, quantum-resistant and decentralization with fairly governance participation. This unique combination offers a universe of possibilities, from user-friendly DeFi, Tokenization, Wallet applications to highly secure AI and Identity solutions.

By focusing on fast performance, future-proof protection and user-centric all-in-one approach, Hizitiv overcomes traditional blockchain constraints, redefining LAYER 1 functionality and shapes the future of distributed systems.

# PREPARING BLOCKCHAIN SECURITY FOR FUTURE THREATS OF QUANTUM COMPUTING

## QUANTUM COMPUTING AND THE FUTURE OF BLOCKCHAIN SECURITY

The advancement of quantum computing technology, completely new challenges arise for the security of cryptographic systems.

Quantum computers have the potential to quickly decrypt conventional cryptographic encryption algorithms on which blockchain security is currently based.

The confidentiality and integrity of data in a decentralized network is compromised and leads to the prevention of the acceptance of blockchain technology.

## THE NEXT LEVEL OF BLOCKCHAIN SECURITY AT HIZITIV

Hizitiv relies on post-quantum-cryptography (PQC) and the third generation of the SHA family (SHA-3) in combination with a new encryption process to provide protection against quantum hacking threats.

- **HIZIV8 | Page 11**

This enables Hizitiv to prepare blockchain applications for the emerging age of quantum computing, ensuring that its system remain secure and trustworthy for users in the future.

# SCALABILITY

By focusing on a scalable performance, Hizitiv prioritizes user empowerment and network resilience. Efficient and high scalability in real-time transaction settlement alleviates network congestion and ensures that the system's transaction capacity continuously evolves with the growing user base.

This is crucial for supporting emerging technologies like Blockchain, AI, and IoT, while also having a transformative impact on business models and processes.

Hizitiv creates a decentralized ecosystem that remains stable under high demand and can be flexibly adapted to various applications and use cases.

The importance of scalability extends beyond current capabilities to the potential for future growth and adaptation. Hizitiv is not just a solution for today's scalability challenges but a proactive approach to tomorrow's growth.

By leveraging machine learning with the Proof of Save consensus mechanism, Hizitiv can efficiently process larger, more complex transactions, while continuously evolving performance and scalability to seamlessly onboard new users and drive global adoption.

**- Proof of Save | Page 12**

This foresight in terms of scalability allows Hizitiv to stay prepared for both the immediate future and long-term expansion.

**EXPANDED CAPACITIES ARE NEEDED TO SCALE THE NETWORK FOR MORE USERS, DRIVE POSITIVE CHANGES IN NEW USE CASES, AND DELIVER A SEAMLESS WEB3 USER EXPERIENCE.**

# EMPOWERING EVERY VOICE TO BUILD A TRUSTED NETWORK WITH FAIR DECENTRALIZATION AND EQUAL PARTICIPATION

## FAIR AND LIMITLESS PARTICIPATION FOR EVERYONE

Addressing the risk of centralization, Hizitiv presents the Unified Proof of Stake—consensus mechanism what dilutes the power of major token holders, ensuring a decentralized and balanced environment.

Designed with fairness in mind, Unified Proof of Stake (UPoS) enhances the validator selection process to maintain trust and transparency across the network.

**- Unified Proof of Stake | Page 13**

## PROMOTING EQUITY WITH OPTIMIZED DECENTRALIZATION

Equitable decentralization goes beyond security—it upholds the network's integrity while fostering a secure, reliable, and inclusive environment.

This reflects Hizitiv's commitment to building a fair and transparent ecosystem, where all stakeholders are treated equitably.

# SUSTAINABILITY

## PIONEERING SUSTAINABILITY FOR ECO-FRIENDLY OPERATIONS WITH LOWER COSTS AND ENERGY CONSUMPTION

Hizitiv focuses on sustainability to reduce environmental impact and meet the growing demand for green technology.

By creating a more efficient system, energy consumption and transaction costs are lowered, making blockchain more accessible and practical for everyone.

Hizitiv is committed to creating a blockchain ecosystem that is both environmentally responsible and forward-looking.

By prioritizing long-term sustainability, Hizitiv aims to pave the way for a greener, more practical blockchain that is built on a foundation of environmental responsibility.

# NOILLIV DONATION

## TRANSFORMING TRANSACTIONS INTO ACTS OF KINDNESS

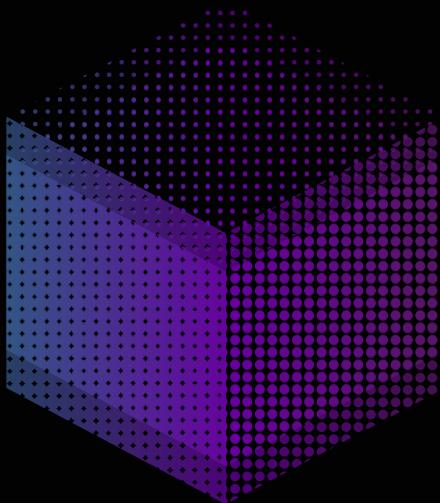
Hizitiv redefines the essence of sharing through a specialized donation system intrinsically embedded in its blockchain: '**Noilliv Donation**'

Noilliv Donation is not an added feature, it is a commitment to real-world change, allowing users to directly support charitable causes.

## NURTURING GLOBAL GOOD THROUGH INNOVATIVE GIVING

It is about trust and transparency, reducing the conventional barriers, cost and unnecessary delays associated with the charity industry, ensuring immediate positive impact.

Hizitiv creates a community of users committed to promote well being and social inclusion.



## NOILLIV DONATION FUNCTIONALITY

AVERAGE FEE OF **\$0.005**  
PER TRANSACTION



**1/5**

OF ALL TRANSACTION FEES ARE USED TO SUPPORT SOCIAL INITIATIVES FOCUSED ON POVERTY ALLEVIATION AND EMERGENCY RELIEF THROUGH THE HIZITIV COMMUNITY.

# HIZITIV ARCHITECTURE



## PUBLIC - HXCHAIN

### ACCESS AND TRANSPARENCY FOR EVERYONE

The public blockchain HXChain is a scalable and fast open-source network that is the main part of the entire Hizitiv blockchain ecosystem.

It is designed for widespread accessibility and supports a range of innovative digital applications.

#### Key features:

- DeFi
- Tokenization
- Smart Contracts



## PRIVATE - H8CHAIN

### SECURE AND PRIVACY FOR EVERYONE

The private blockchain H8Chain focuses on providing a high level of security and data protection to both users and companies.

It is designed for those who seek to safeguard their assets and identity in a confidential manner.

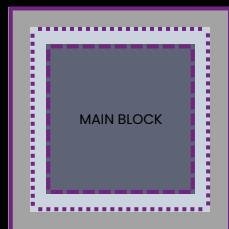
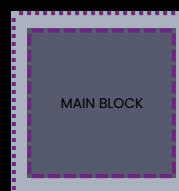
#### Key features:

- Identity Solutions
- Decentralized AI Agents

HIZITIV PROVIDES A VERSATILE  
MULTI-SERVICE PLATFORM WITH  
BOTH PUBLIC AND PRIVATE SECTIONS

# HIZIV8

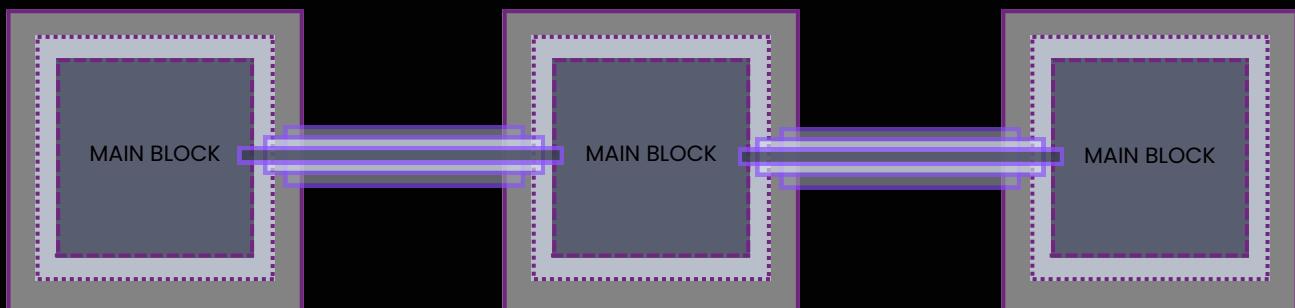
## ENCRYPTION LAYER

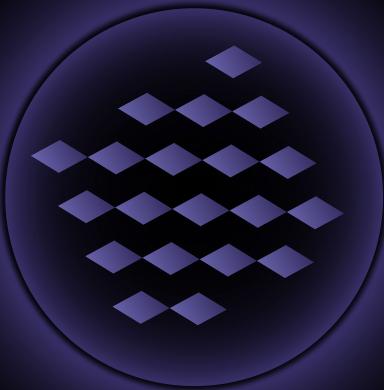


The multi-layered encryption process of the quantum-safe hash algorithm—HIZIV8 integrates Post Quantum Cryptography and SHA-3 to provide robust protection against all types of hacking attacks.

The HIZIV8 quantum-secure hash algorithm is exclusively available in the H8Chain private protocol, delivering quantum security, high privacy and control over users' data and assets.

HIZIV8 REDEFINES TRUST AND PRIVACY WITH UNMATCHED SECURITY





# Proof of Save

## Overview to Proof of Save

The 'Proof of Save' consensus mechanism delivers a fast processing method for data analyzing and adaptable functionality in the Hizitiv blockchain.

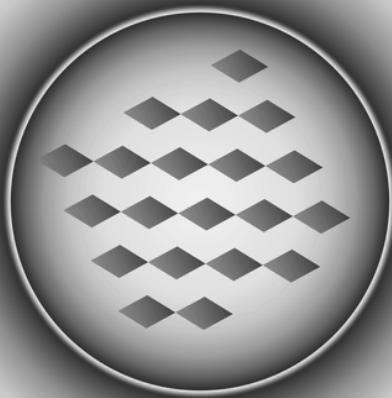
Proof of Save (PoSv) integrates various types of machine learning technology to enhance and expand the capabilities in the consensus through each transaction processed. After 3 development phases with Unified Proof of Stake, hundreds of thousands of transactions per second can be processed efficiently.

## Functionality of PoSv

By embedding machine learning, Proof of Save evolves and optimizes consensus process strategies to ensure efficient validations for a robust and scalable network on real-time activity.

To enable scalability, efficiency and sustainability, Proof of Save dynamically adapts to workload demands and collaborates with UPoS validators to deliver optimal performance without delays.

Proof of Save + HixBots



# Unified Proof of Stake

## Overview to Unified Proof of Stake

The 'Unified Proof of Stake' is an optimized version of the Proof of Stake consensus mechanism to provide fair and equal participation in the validation process.

Unified Proof of Stake (UPoS) offers easier governance participation, increased decentralization and security against 51% attacks by incorporating new HIZV Stakers into the staking process, increasing higher node numbers and fostering collaboration between UPoS validators in block creation, validation, and verification.

## Functionality of UPos

UPoS presents a new selection process for the validator role to bring two distinct groups of validators together: the large and the small HIZV stakers. These groups work side by side, collaboratively editing and validating data blocks.

This unique approach ensures that all participants, regardless of stake size, are equally recognized as validators, promoting fairness and a new level of decentralization in the Hizitiv blockchain.

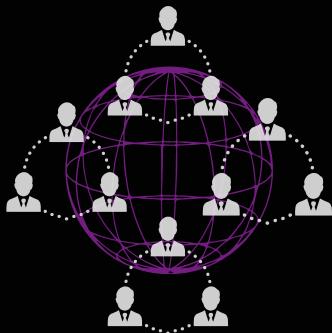
## *Unified Proof of Stake X Proof of Save*

The Unified Proof of Stake consensus mechanism is central to the operation of the blockchain. HIZV stakers must actively participate in the consensus process within the staking pool to unlock collaboration with Proof of Save, allowing the dual consensus mechanism to function across the networks.

*Governance, trust and control are maintained by HIZV stakers.*

## UNIFIED PROOF OF STAKE

Unified Proof of Stake promotes security, decentralization and fair governance participation, simultaneously balancing control and ensuring ongoing verifiable operations.



### **Governance:**

Users stake HIZV tokens to participate in governance and validation, fostering a more active and committed community.

### **Decentralization:**

Spreads power among many stakeholders, ensuring no single entity can control the network, enhancing fairness and resilience.

### **Security:**

Incentivizes validators to maintain network integrity, ensuring a transparent and trustworthy system.

## PROOF OF SAVE

Proof of Save utilizes Machine Learning to provide efficiency, scalability, adaptability and superior performance without compromising decentralization and sustainability.



### **Adaptability & Efficiency:**

Dynamic transaction processing that adapts to real-time network activity and assists PoS validators with transaction analysis, block creation, validation and verification.

### **Scalability:**

Maintains high-performance and accommodates growth, ensuring the network remains fast, secure and accessible.

### **Sustainability:**

Minimizes energy consumption through fast synchronizations and adaptive task allocation to promote an eco-friendly blockchain.

# S E R V I C E S

## DeFi

Hizitiv presents a suite of **DeFi** services including Token Transfer, Staking and Lending, empowering users to earn, borrow and trade with utmost control.

## TOKENIZATION

Experience **TOKENIZATION**, encompassing Token Creation and Smart Contracts designed to securely digitize and protect data, files and assets.

## WALLET

Hizitiv provides digital **WALLETS** for maximum security, loss protection and simplifies tax compliance with effortless and automated tracking.

## TAILORED AI AGENTS

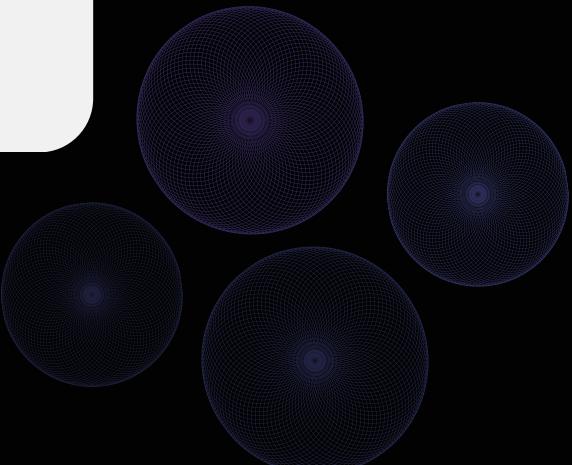
A freely configurable, decentralized and secure **AI Agents** through DLT.

Blockchain integration allows for transparent and secure monitoring of data traffic, ensuring that only user-shared and harmless information is accessible to AI.

## IDENTITY

Hizitiv's **IDENTITY** service offers one-time KYC verification for easy a secure recovery process for lost credentials.

It features an emergency access option, where users can designate individuals for urgent scenarios, ensuring access continuity and system security.





## THE DEVELOPMENT TEAM OF HIZITIV - HIZITIV LABS

Hizitiv Labs is the research and development division of Hizitiv, founded by Enes Akkoyun and Sylvain Aubé, with the aim of actively advancing and continuously improving distributed-ledger technology to build a forward-looking decentralized ecosystem that will address the most pressing challenges of today's digital economy, while empowering individuals, developers and businesses to ensure a global positive impact by leveraging Hizitiv's blockchain.

Driven by a commitment to breakthrough innovation and social responsibility, Hizitiv Labs is setting the new standard for what blockchain can achieve-opening up diverse and creative opportunities for growth, transparency, solidarity and long-term value, creating a better world through a trusted peer-to-peer network - this engagement embodies the name **HIZITIV**.



The Hizitiv Foundation is headquartered in Switzerland and was founded to promote and expand the Hizitiv ecosystem through strategic partnerships and dedicated support for emerging technologies.

The Hizitiv Foundation builds strong relationships with individuals, developers, companies and industry leaders to foster knowledge exchange and collaboration.

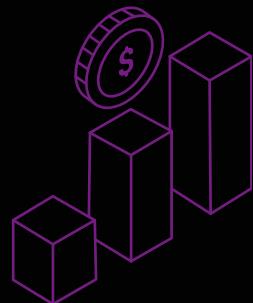
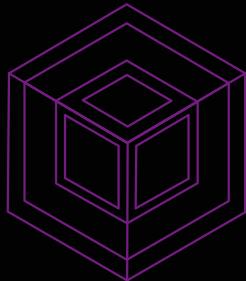
By organizing events, offering grants and engaging with educational initiatives, the foundation strengthens its community and drives global mass adoption through Hizitiv.

## FORWARD TO THE FUTURE CHAPTERS OF HIZITIV

The Foundation is building a supportive and decentralized ecosystem that advances the future of Hizitiv through legal clarity and social engagement, while fostering technological advancement.

By taking these steps, the Hizitiv Foundation lays a solid foundation for future success.

# HIZV TOKEN



## STAKING

The HIZV Token allows users to stake their holdings, earning rewards while bolstering network stability.

Ideal for crypto enthusiasts at any level, it offers valuable incentives and practical advantages.

## GOVERNANCE

HIZV Token holders directly influence the 'Proof of Save' consensus mechanism through Proof of Stake, which is vital for its operation.

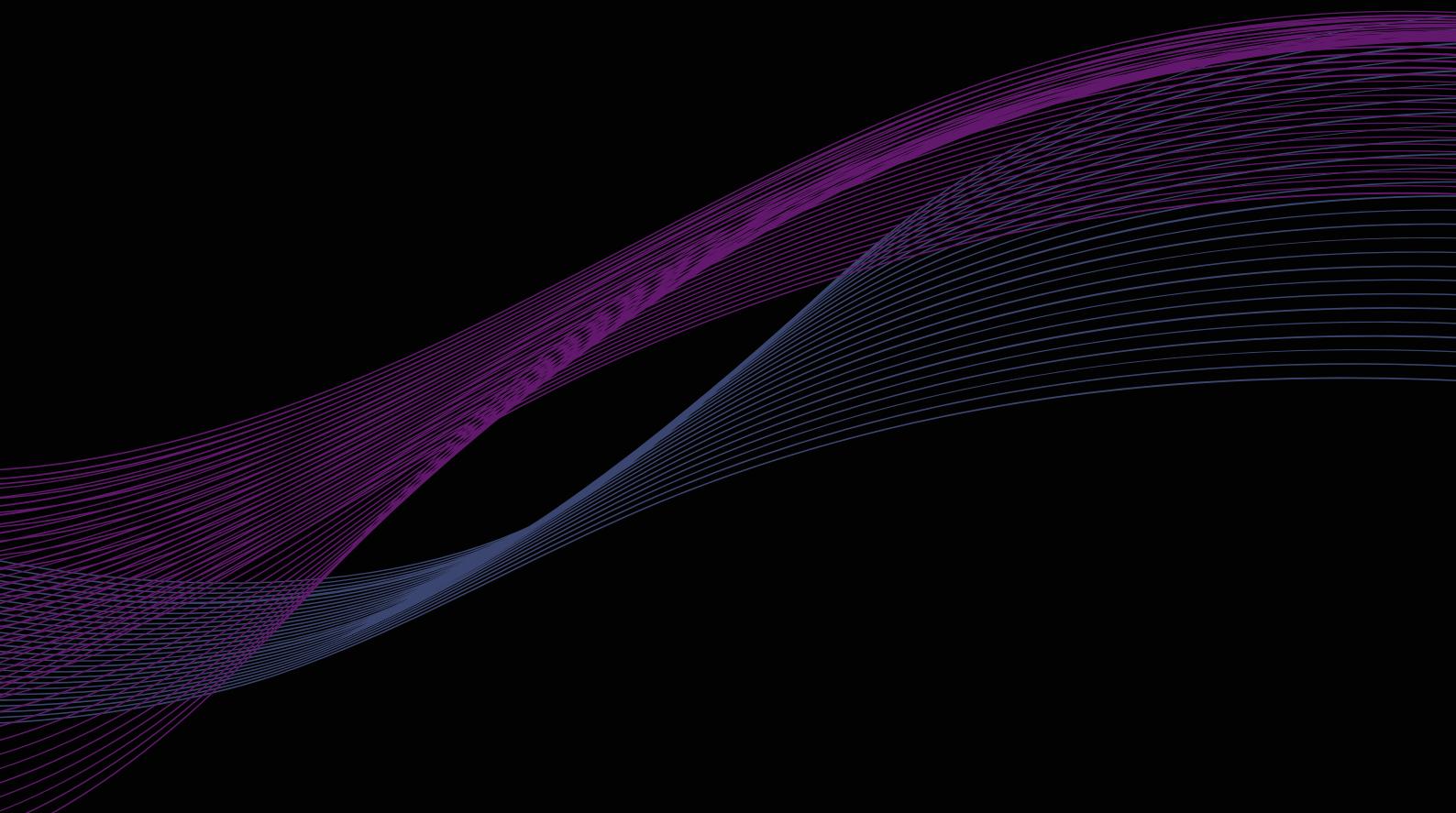
This empowerment of users is key to the functionality and success of Hizitiv, demonstrating the value and impact of their participation.

## DONATION

Every HIZV Token transaction includes a fee, of which 1/5 is donated to aid the needy and combat poverty.

This integration of social impact into the ecosystem showcases blockchain as a tool for positive change.

# CONTACT



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