Chain Recorder

WHITEPAPER

Chain Recorder

Introduction

As we charter the oceans of the digital age, we face unique challenges — artificial intelligence (AI) and deep fakes cloud the waters, creating waves of uncertainty. The game is about more than keeping afloat; it's about **deciphering the real from the replicas**, the genuine from the facsimiles and yours from others.

With this swell in digital ambiguity, **the quest for a solution to confirm time-stamped existence and authenticate genuineness has never been more crucial.** The era calls for a revolutionary tool, one that can stand firm against the tide, cutting through the chaos to provide a beacon of trust and authenticity (which can be helpful in a lot of ways — see further). As Einstein once said "The only source of knowledge is experience," emphasizing the necessity of practical solutions when overcoming technological challenges. We're no longer forecasting the storm; we're innovating ways to command the weather.

Enter ChainRecorder — a groundbreaking and powerful recording service that leverages the Bitcoin blockchain to offer indisputable proof of existence and authenticity of digital assets (you don't need any legal office to visit and can do it by yourself). By providing this novel service, **we bring trust, security, and authentication** to users across the world. Riding on the promise of the decentralized power of Bitcoin and the Lightning Network, **ChainRecorder allows individuals and businesses to assert control over their digital assets (and prove their existence)**, offering a beacon of freedom and sovereignty in an age of eroding privacy and deep fakes.

Moreover, ChainRecorder can be used as a **proof of existence for all the intellectual property infringements affairs and as a valuable evidence** in a plethora of disputes. Transform your document workflows with ChainRecorder, securing an unprecedented leap over conventional methods by delivering unparalleled efficiency and authenticity for legal and notary services—act now to lead the innovation wave.

Leveraging the decentralized power of Bitcoin, ChainRecorder restores control to individuals and businesses by providing an unalterable **timestamp** for your audio, video, text files and any other file type you can think of! It's about more than verifiability, privacy, and security — it's about freedom and empowerment.

Market Analysis

The Bitcoin blockchain has experienced tremendous growth since its inception in 2009, enabling various use cases and new services in the global economy. This market analysis highlights how ChainRecorder and its unique offering can fill a gap in the Bitcoin ecosystem.

The Bitcoin Ecosystem Landscape

The decentralized nature of Bitcoin and the blockchain technology that underpins it has fostered an ecosystem made up of diverse participants, such as miners, developers, businesses, individual users, and investors. The core features of this technology include **decentralization, immutability, transparency, and security**.

ChainRecorder leverages these characteristics to provide its users with a service to indisputably **timestamp their digital assets** — audio, video, and text — on the Bitcoin blockchain. ChainRecorder excels thanks to its distinctive feature set, including intuitive interfaces and smooth integration with existing digital assets systems. Serving both individuals and businesses, ChainRecorder's service stands to attract a broad user base interested in proving the existence and authenticity of their digital assets.

Potential Growth Opportunities

As the Bitcoin blockchain ecosystem continues to grow in popularity and adoption among businesses and individuals worldwide, ChainRecorder's market position could benefit from the following growth opportunities:

1. **Rising Blockchain Adoption:** With more companies and individuals recognizing the strengths of blockchain technology and its potential to secure and authenticate digital assets, ChainRecorder's service becomes more appealing. The rising demand for blockchain-based solutions could propel ChainRecorder and CRC toward a larger user base and market share;

2. **Growing Importance of Digital Asset Protection:** As the digital economy expands, the need to safeguard digital assets and intellectual property becomes more critical. ChainRecorder's service allows for provable existence and authenticity of digital assets, making it an attractive solution for industries like media, e-commerce, supply chain, and legal services;

3. **Increased Interest in Decentralized Services:** With concerns about centralized data storage and control, decentralized solutions like ChainRecorder's service can gain traction. By using the Bitcoin blockchain, ChainRecorder ensures data integrity and immutability when recording digital assets;

4. **Promoting User Participation in the Ecosystem:** The #SaveTheWeb initiative expands ChainRecorder's audience by enlisting internet users to help catalog and preserve webpages. This not only increases awareness of ChainRecorder's services but also serves as a unique marketing angle for the business;

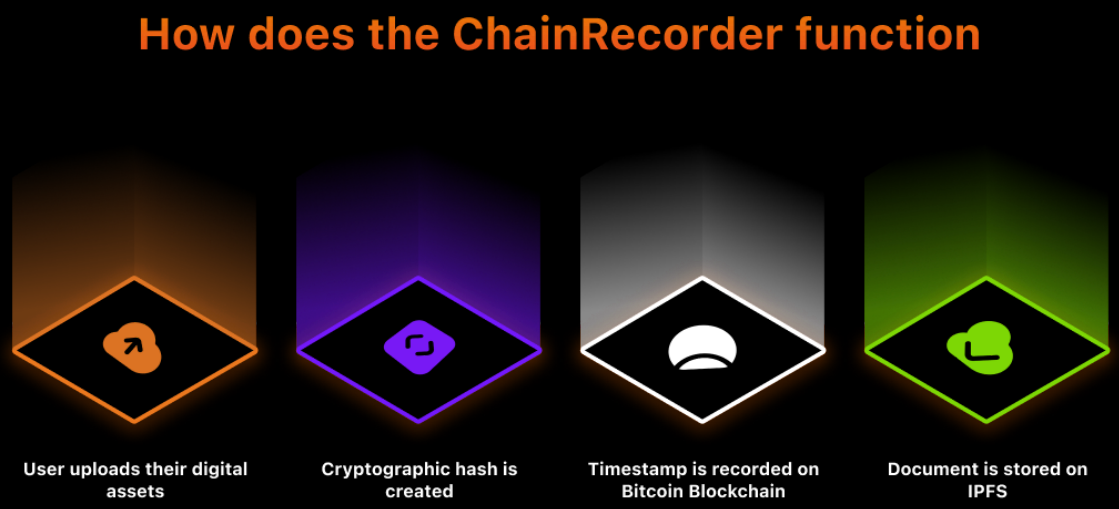
5. **Legal Assurance and Certification:** Since protecting digital assets is crucial in today's world, ChainRecorder provides a powerful solution for protecting them. With ChainRecorder, users can timestamp and verify their assets, guaranteeing their ownership and authenticity by using the immutable Bitcoin blockchain. It can be then used as evidence in the disputes.

Additionally, as ChainRecorder grows, it will explore new services and partnerships within the Bitcoin ecosystem. For example, build relationships with Bitcoin miners to optimize transactions and expand its global reach.

Project Details

ChainRecorder is a unique recording service, leveraging the power and security of Bitcoin's blockchain technology to provide indisputable proof of existence and authenticity for digital assets.

How Does ChainRecorder Function?



ChainRecorder operates with a simple and yet, highly effective process:

1. **User Submission:** Users upload their digital assets (documents, images, videos, etc.) on the ChainRecorder platform;

2. **Hash Creation:** ChainRecorder creates a cryptographic hash of the digital file, which is a unique string of characters representing the content of that file. It is important to note that the original file is optionally stored and optionally shared on the platform, only this hash will be publicly recorded to the Bitcoin blockchain.

3. **Timestamping and Recording on Bitcoin Blockchain - Chain it!:** This hash is then time-stamped and recorded onto the Bitcoin blockchain, which is a

public, highly secure and immutable ledger. Just Chain it!;

4. **Document Store and Search:** Once recorded AND if the user decides to make this a publicly searchable document, ChainRecorder will store this document on the Interplanetary File System (IPFS).

Users are provided with a certification securing their steps within ChainRecorder and proving its use as well as making it easier for them to find their stored assets. Furthermore, this certification can be used as the letter of evidence.

Proof of Existence and Authenticity

ChainRecorder's real innovation lies in how it provides **undeniable proof of existence and authenticity**.

By conducting transactions on the Bitcoin blockchain, a file's hash (and hence, the existence and state of the file itself) is recorded in an open, public ledger that is immutable and tamper-resistant. Timestamping ensures that it is possible to prove that the file existed at the time of recording. No one can backdate or alter this information, providing **indisputable** proof of existence and authenticity when verified independently or using the supplied ChainRecorder validation app or web page.

ChainRecorder's recording service offers **undeniable security advantages** over traditional methods as it relies on the blockchain nature and the complete transparency. Through its use of the Bitcoin blockchain, it allows users to certify their digital assets securely, immutably, and transparently, providing an efficient and trustworthy way to prove the existence of digital files.

Proof of Ownership

Verifying ownership can be challenging, and it often involves legal intervention to decide who has the rightful ownership in disputes. Although ChainRecorder currently emphasizes timestamping and securing digital assets, it also understands the importance of providing users with tools to confidently declare ownership.

Benefits:

1. **Advanced ownership verification:** Users can freely and confidently declare ownership of their digital assets by integrating ChainRecorder's proof of ownership features;

2. **Competition Advantage:** ChainRecorder can help you with proving you were the first one with some idea because the idea is owned and hashed with the timestamp into the blockchain network.

3. **Efficient dispute resolution:** ChainRecorder can simplify resolving disputes by giving users evidence of ownership.

Possible disadvantages:

1. **Technical Complexity:** Adding a proof of ownership feature could introduce technical complications that would have to be solved in order to ensure smooth integration and user experience.

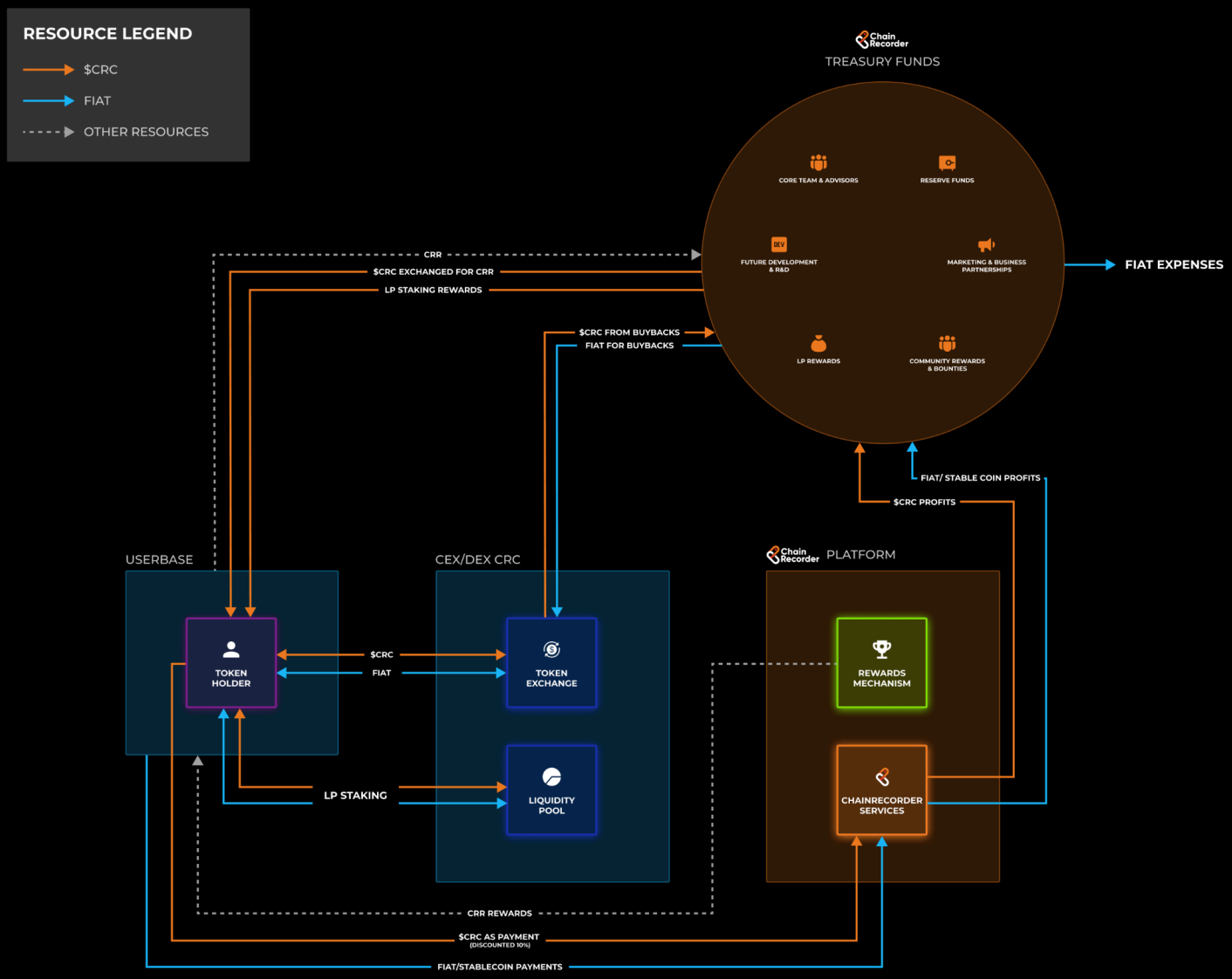
Reasons why users should look forward to it:

1. **Increase confidence in owning assets:** Users can confidently declare ownership of their digital assets with proof of ownership features that are backed by verifiable evidence;

2. **Enhanced asset protection:** Users can improve the safety of their digital assets by leveraging ChainRecorder's proof of ownership capabilities;

3. **Eliminating the legal costs:** User do not need to pay the overpaid lawyers / notaries office and rely on the this-party private services as they can use transparent blockchain technology.

Ecosystem Design



Chain Recorder

Coin Utility and Benefits to Users

Primary Function

The Chainrecorder Coin (CRC) is a utility token primarily designed to facilitate user interaction with the platform. As a utility token, CRC enables various functions and services within the Chainrecorder ecosystem, such as accessing premium features and paying for transaction fees.

Token Utility

1. **User Rewards with CRR**
   Through the #SaveTheWeb initiative, users earn ChainRecorder Rewards (CRR) points for each URL saved on the platform. Participants can exchange these CRR points for CRC hashing credits, which they can use to access ChainRecorder's services. Users are rewarded for incentivized behavior, like engaging with the platform. They will receive CRR (Chainrecorder Rewards), which are 1:100000 exchangeable (at the start) with CRC (Chainrecorder Coin).

2. **Means of exchange**
   In order to make use of the platform, users will need CRC for transactions and gain access to certain services. Users also need to use CRC to pay for fees when transacting, buying access, and archiving files. CRC's use as a medium of exchange and as an incentive for participation in the #SaveTheWeb initiative attracts more users to ChainRecorder's services. This broadens the platform's potential market and promotes the adoption of the service by individuals and businesses alike.

3. **Liquidity Mining**
   As ChainRecorder prepares for listing on a decentralized exchange (DEX), we are implementing a comprehensive liquidity mining strategy to enhance the stability and tradeability of our CRC tokens. A portion of CRC tokens will be allocated specifically for liquidity mining initiatives. This

allocation aims to incentivize token holders to contribute liquidity to the CRC liquidity pool. By engaging our community in liquidity provision, we ensure that liquidity is not solely maintained by ChainRecorder but is bolstered by the collective effort of our supporters. Participants in this liquidity mining program will receive additional CRC rewards, supplementing the regular share of transaction fees from the liquidity pool. This dual incentive structure is designed to motivate and reward our community members for their vital contributions.

#SaveTheWeb

#SaveTheWeb is an ambitious initiative aimed at cataloging and preserving webpages of interest on the internet, leveraging the robust ChainRecorder core service. With web pages indexed through a timeline on ChainRecorder.com/SaveTheWeb, users can easily navigate through the digital annals of the Web.

In the ever-evolving landscape of the internet, billions of webpages emerge and disappear daily. ChainRecorder's #SaveTheWeb initiative addresses the critical need for verifiable, transparent, and dependable recording of online resources and assets by harnessing the power of the Bitcoin ecosystem. This unique merger of blockchain-based, time-stamped archiving, and user engagement incentives establishes a newfound level of digital preservation and authenticity.

Participants of the #SaveTheWeb initiative will be motivated through CRR (see above). These rewards can be earned by engaging with the platform and submitting URLs for archival. Users can then exchange their CRR for CRC (see above), augmenting the coin's potential value.

The #SaveTheWeb service is indispensable in ensuring the truth's preservation for future generations, emphasizing the vital role of objective reality. **Account holders on ChainRecorder will receive CRR for each URL they contribute to the archive.**

Archived digital assets on #SaveTheWeb consist of fully-rendered web page screenshots, zipped page codes, and data hashed and recorded to the Bitcoin blockchain. This process ensures easy verification using the ChainRecorder Verify WebApp or open-source Python App.

Thus, people can easily find the historical status of websites every day and help to preserve the internet knowledge as well as to eliminate fake news because ChainRecorder... it is about deciphering the real from the replicas, the genuine from the facsimiles and yours from others.

To become a part of this pioneering #SaveTheWeb movement, visit ChainRecorder.com/SaveTheWeb and join us in safeguarding invaluable digital assets today.

How it Works

URL Submission

A feature allowing users to submit URLs of informative websites for cataloging within the #webchain UI.

Hash-encoded Screenshot Archive

An automated function for taking, hashing, and storing screenshots of submitted webpages. The feature should also include a viewing interface to easily scan through saved screenshots.

Zipped Code Archive

In addition to screenshots, the application should also have the ability to collect associated webpage codes and store them in a zipped format.

Chain Rewards System

A rewards system to incentivize active user participation. The system should track user activity (URL submission, archiving activity, etc.) and award "Chain" rewards accordingly.

Reward Conversion Feature

A feature allowing users to convert their earned "Chain" rewards into ChainRecorder hashing credits instantaneously.

Currency Conversion (Future Feature)

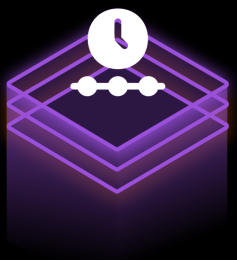
A future expansion of the rewards feature that allows users to convert "Chain" rewards into our ChainCoin, BTC or other currencies.

Blockchain Integration

The system should employ blockchain technology to ensure originality, authenticity, and security of the stored data.

Timeline View

A timeline-based view/interface that allows users to see the historical progression of screenshots and associated code for each URL.



User Accounts and Management

Capability for users to create and manage their profiles, including viewing their activity summary, rewards earned, conversion history, etc. Most of this currently exists in the ChainRecorder application.

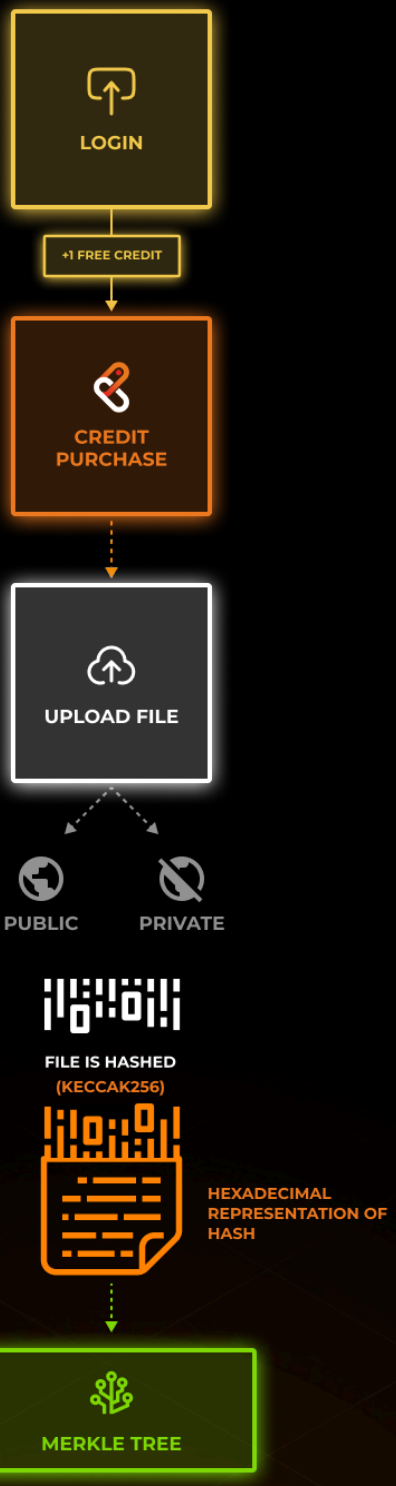
Technical Details and UserFlow

ChainRecorder utilizes Bitcoin's blockchain technology to its fullest advantage. The Bitcoin blockchain is a transparent, immutable ledger of all transaction data from one point in time to another. The blockchain's consensus algorithms ensure that these transactions are final, meaning they can only be added, not removed or altered, hence forming an indelible record. ChainRecorder harnesses this property to store the SHA-256 hash of files, creating a fixed fingerprint unique to every file.

When users upload a file to ChainRecorder, it is first hashed using the SHA-256 algorithm. This hash is then recorded onto the Bitcoin blockchain. Users have the option of storing the hashed file privately on the ChainRecorder secure servers or making it public on the ChainRecorder database. By doing so, proof of document existence is indisputably tied to the Bitcoin blockchain, ensuring transparency and trust.

MAIN FUNCTION

HASHING DATA AND INSCRIBING IT TO BTC



Chain Recorder

SATELLITE FUNCTION

VERIFY PROOF OF EXISTENCE

1 **USER PROVIDES A COMBINATION OF:**

- FILE HASH
- MERKLE TREE ROOT HASH
- MERKLE PROOFS

2 **CHAINRECORDER PLATFORM PERFORMS LOOKUP**

- DOES THE FILE HASH EXIST
- DOES THE MERKLE TREE ROOT HASH EXIST
- DOES THE FILE HASH EXIST IN THE MERKLE TREE, GIVEN THE PROVIDED PROOFS?

IF ANY CONDITION FAILS, FILE IS INVALID

IF ALL CONDITIONS ARE MET, FILE IS VALIDATED

ChainRecorder

Why Bitcoin's Blockchain?

While other blockchains like Ethereum and Cardano offer smart contract functionality, ChainRecorder deliberately chose Bitcoin's blockchain owing to its proven security, robustness, and widespread acceptance. Given that ChainRecorder is all about providing immutable proof of existence and authenticity for digital assets, the element of trust imbued by Bitcoin's blockchain becomes critical. Over 12 years, Bitcoin's blockchain has shown it can resist attacks and continue operating under adversarial conditions. Therefore, by leveraging Bitcoin's blockchain, ChainRecorder ensures the utmost security and reliability for its users.

Using Bitcoin's blockchain offers several advantages:

1. **Security:** Bitcoin's blockchain is considered one of the most secure blockchains due to its "Proof-of-Work" consensus mechanism. The effort (computational power and energy) required to launch a successful attack is significantly large, making the Bitcoin blockchain extremely secure;

2. **Decentralization:** Bitcoin's blockchain is fully decentralized, reducing the need for trust in a single party. This makes the system inherently robust and secure against fraudulent activities;

3. **Transparency:** All transactions on the Bitcoin blockchain are transparent and can be traced back to their origin. This transparency offers a clear path of verification for recorded files on ChainRecorder;

4. **Immutability:** Once the file hash is recorded on the Bitcoin blockchain, it cannot be altered or deleted, thus forming an immutable proof of existence and authenticity.

Tokenomics

$CRC
Token Ticker

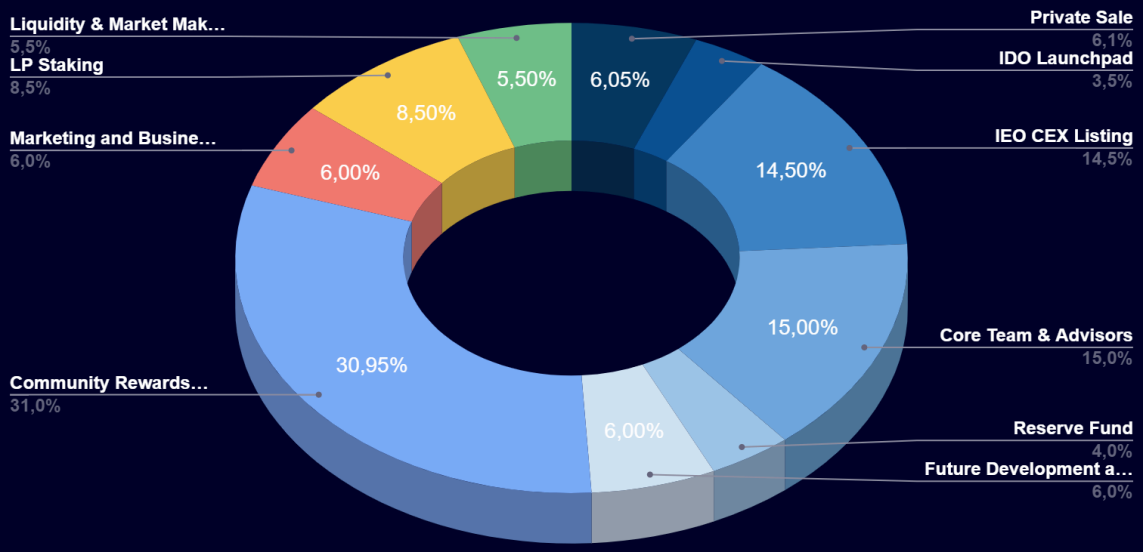
$ 0,02800
Listing Price

1.000.000.000
Total Supply

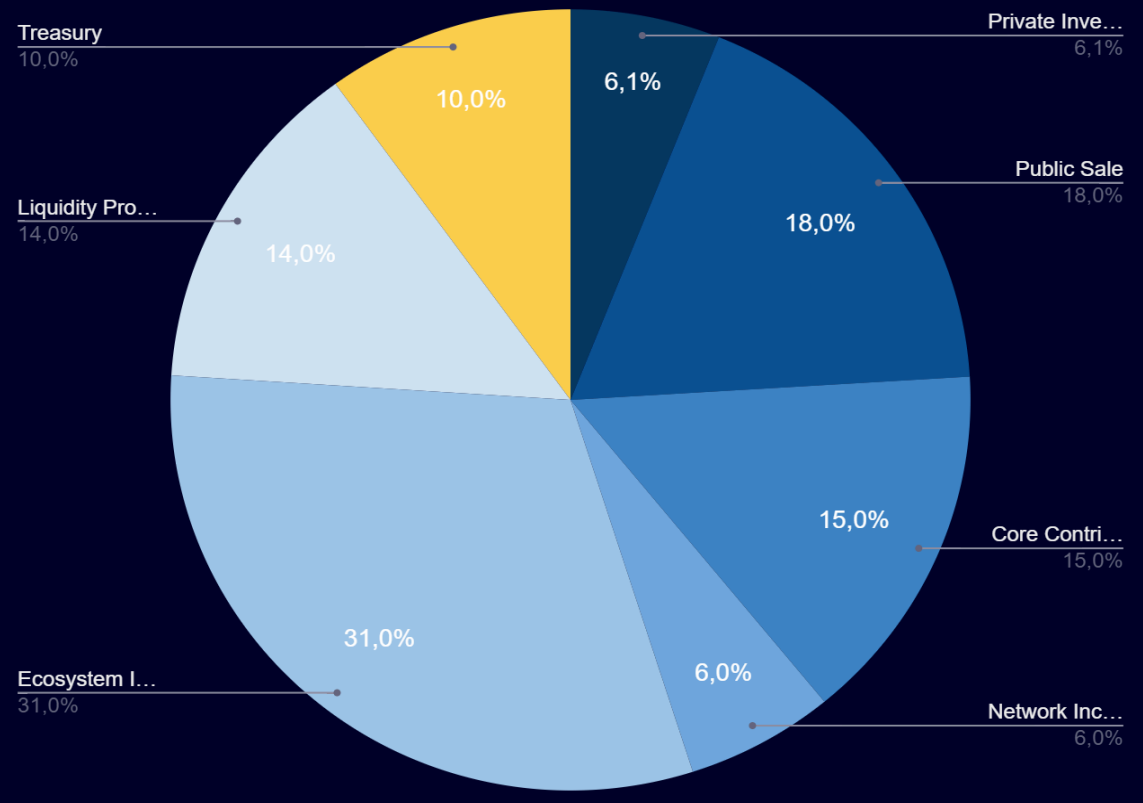
Token Allocations

Allocations	Pool	Distribution	Tokens	Price
Private Sale	Private Investors	6,05%	60.500.000	$ 0,0165
IDO Launchpad	Public Sale	3,50%	35.000.000	$ 0,0182
IEO CEX Listing	Public Sale	14,50%	145.000.000	$ 0,0280
Core Team & Advisors	Core Contributors	15,00%	150.000.000	
Reserve Fund	Treasury	4,00%	40.000.000	
Future Development and R&D	Treasury	6,00%	60.000.000	
Community Rewards & Bounties	Ecosystem Incentives	30,95%	309.500.000	
Marketing and Business Partnerships	Network Incentives	6,00%	60.000.000	
LP Staking	Liquidity Provision	8,50%	85.000.000	
Liquidity & Market Making	Liquidity Provision	5,50%	55.000.000	
Total		**100,00%**	**1.000.000.000**	

Token Allocations by Stakeholder



Token Allocations by Pool



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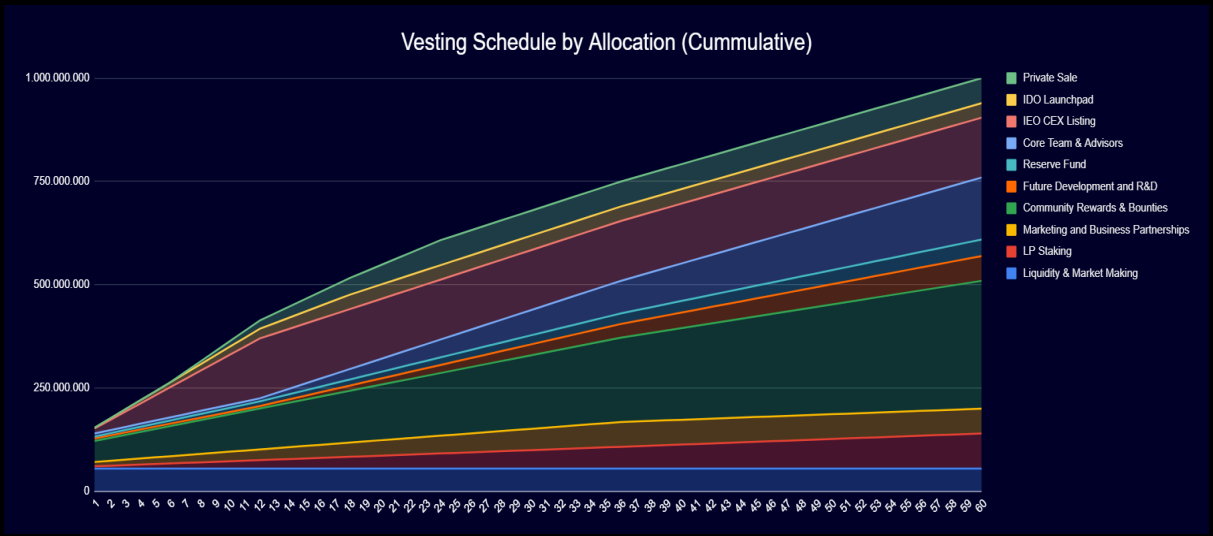


Moreover, ChainRecorder uses a **deflationary economy** which means we're coupling a valid revenue generating business model with a token asset that is deflationary in nature. Different types of token holders will have strong incentives to buy the token for services or hold the token and not sell it in the market because it will likely increase in value, additionally, new users are incentivized to buy into the ecosystem because they will receive increasingly valuable rewards. To further decrease supply and increase, ChainRecorder will use strategic token buybacks. This would remove tokens from the exchange and add FIAT, driving up the price and making the token even more attractive to (possible) users.

Value Mechanisms

Token buybacks

The CRC token will incorporate a buy-back value mechanic to enhance its utility and value proposition within our ecosystem. A dedicated portion of the project's revenue or transaction fees will be allocated to a buyback pool. This pool will be utilized specifically for repurchasing CRC tokens from the open market.

Passive Deflationary

The token makes use of a capped total supply making the economy passively deflationary because we have not incorporated active token burning. Meaning the supply is ever-decreasing by nature (lost tokens, lost wallets, etc.). Long-term

this will allow the token price to grow because eventually, the demand for the token will outgrow its supply. Incentivizing token holders to Hold the token with its anticipated increase in value.

Legal and Compliance

ChainRecorder service is operated by:

Chain Recorder
1753 E Broadway Road,
Tempe, Arizona 85282

Central contact:

hello@chainrecorder.com

Compliance with regulatory standards is crucial in the digital asset timestamping field. ChainRecorder is committed to adhering to all relevant legal frameworks and compliance requirements. To reduce the danger of illegal activity and maintain the trust of its users, ChainRecorder has strict compliance procedures within using the service as well as for processing the personal data. For more information, do not hesitate to visit the documentations available from:

https://chainrecorder.com/terms
https://chainrecorder.com/privacy

Furthermore, ChainRecorder focuses on digital asset security and confidentiality, using secure storage mechanisms to avoid unauthorized access or data breaches. ChainRecorder's service uses the Bitcoin blockchain to provide verifiable proof of the existence and authenticity of digital assets.

ChainRecorder relies on the advanced cryptographical technologie with the individual terms of use and provides a full compliance while allowing the users to use them.

More detailed information will be subject to private offering.

Roadmap

Here is a shortlist of the most pressing roadmap items:

1. **BRC-20 Token Creation:** requires developing and implementing a new token standard, BRC-20, that is suited to the user's project's specific requirements;

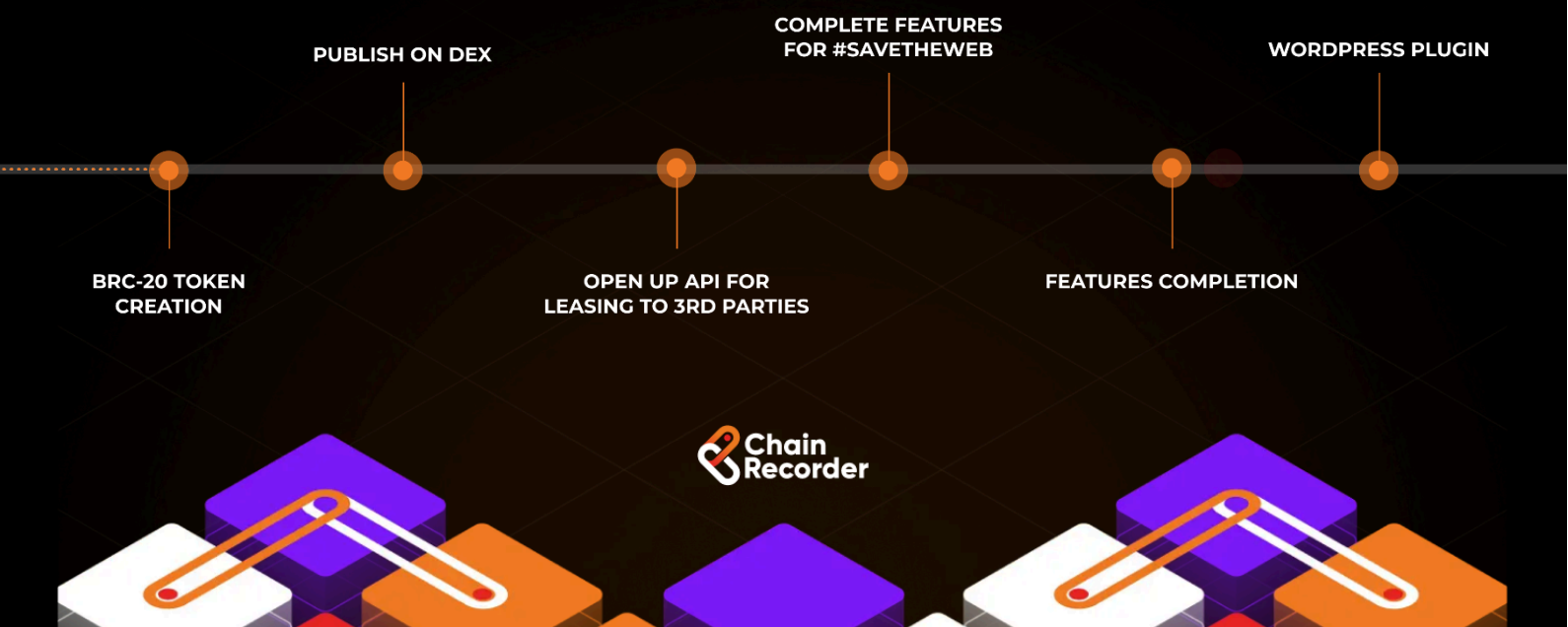
2. **Publish on DEX:** includes listing user's project tokens on decentralized exchanges (DEX), which provides accessibility to the user;

3. **Open up API for leasing to 3rd parties:** exposing user's platform Application Programming Interface (API) to third-party developers that enable them to utilize these services for various purposes;

4. **Complete features for #SaveTheWeb:** Refers to the development of #SaveTheWeb features such as verifiable, transparent, and dependable recording of online resources and assets by harnessing the power of the Bitcoin ecosystem;

5. **Complete features for a publicly searchable database for hashed and Chained records on the IPFS using the ChainRecorder platform:** enables users to store and verify hashed and chained records on the IPFS;

6. **WordPress Plugins:** involves the development of plugins for the popular content management system WordPress.



Conclusion

ChainRecorder isn't just another drop in the ICO ocean; we're a tidal wave of innovation redefining the ecosystem. We step boldly into the blockchain arena with a fully operational product, not just a promise, crafting a concrete experience that delivers **immediate value to our users.** Our product is more than a concept — it's a reality, equipped to serve the end-user from day one. Our commitment to creating **practical applications of blockchain technology** tackles the reservations of investors head-on, ensuring they're not just buying into an idea, but a live solution with genuine utility.

As we launch this pioneering initiative into the marketplace, our ICO stands as a call to arms for the community — to enhance our reach, sharpen our features, and drive home the user adoption that our technology deserves. With a formidable product already in the fray, ChainRecorder pivots to focus on strategic integration, empowering upgrades, and dynamic marketing maneuvers — all the while ensuring that our technology doesn't just meet the curve; it speeds ahead of it.

Join us as we charter novel territories in the blockchain domain, with ChainRecorder leading the charge.

Future Growth and Expansion

ChainRecorder has a forward-looking vision — to become a **universal solution for proving digital file existence and ownership**. Creating a distinctive feature set helps ChainRecorder to stand out. With an ambitious roadmap, the team plans on expanding its services and improving its platform with innovative features. The increasing demand for proof of digital ownership in the age of information makes ChainRecorder a promising player in the blockchain industry.

Join us!

The ChainRecorder ecosystem provides an exciting investment opportunity that combines technological innovation, practical utility, and growth potential. Now is the time to become part of this revolutionary platform that'll shape the future of digital ownership. We invite you to contribute to the project, **invest in CRC, and join us in our journey to a secure and transparent digital future.**

Together, let's build a world where digital authenticity is unquestionable and secure. Join the ChainRecorder Project today!