

BERCOIN Whitepaper and Bercode NFT Marketplace



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Project Summary

The platform's current complex web 2.0 functionality is complemented with a web 3.0 service, the Bercode NFT Marketplace. The application of blockchain technology in the operation of Bercode serves as a solution to place the current business model in a trustless operating environment.

The first step is to create integrity tokens that track transactions related to the platform. By elevating these tokens to an abstraction level and giving them quasi-units, we transform them into tokens symbolizing internal accounting units. These tokens are called BERCOIN. The Bercode Platform is the issuer of BERCOIN tokens. Therefore, use of the planned services of the Marketplace will be exclusively possible by using BERCOIN.

The project's financing is based on raising funds through the pre-sale of BECOIN tokens. During the first sale, it will be possible to purchase BERCOIN directly from Bercode (while supplies last), and BERCOIN tokens will also be available on decentralized exchanges.

The second step is to interpret and create merchandising tools as unique, blockchain-registered tokens in the form of dynamic NFTs, which also perform certain functions.

The third step is the creation of the NFT Marketplace. The Bercode NFT Marketplace system allows issuers to sell NFTs created on the Bercode Platform on individually created interfaces, and fans can pay for them using BERCOIN.

1 Introduction of the project owner

1.1 The Bercode Platform

Benefit Barcode Inc. was founded in the USA, in 2016. The company's name was abbreviated to „bercode“, which stands for a benefits-providing barcode, and the complex community management system of the Bercode Platform was developed.



More than 1,000,000 active Bercodes.

A managed community could be, for example, a chamber, an association, a club with its members, a foundation with its supporters, or a celebrity with its fans.

1.2 Management

László Jáger, Founder



László is the founder and majority owner with 20 years of experience in building and operating discount systems. Operating his system, Euro Discount Club, for two decades, he gathered feedback, insights, and development suggestions from hundreds of partners on EDC's services. Moreover, the IT sector's advancement provided an opportunity to build a system that manages virtual cards. The experience of the past 20 years, the expectations of our partners, and the opportunities offered by the IT sector have made the creation of the Bercode Platform possible.

László Boér, Chief Executive Officer



László has 30 years of experience in the IT industry. He spent most of his professional career in the unique field of IT, where he led the development team of Hungary's market-leading pharmacy information system for 25 years.

Zsolt Dobrosi, Chief Technology Officer



Zsolt has 20 years of experience in program design and coding (in multiple programming languages) and 10 years of experience developing discount card and commission calculation systems. He also has experience in specifying complex systems and processes, application development, and leading development teams.

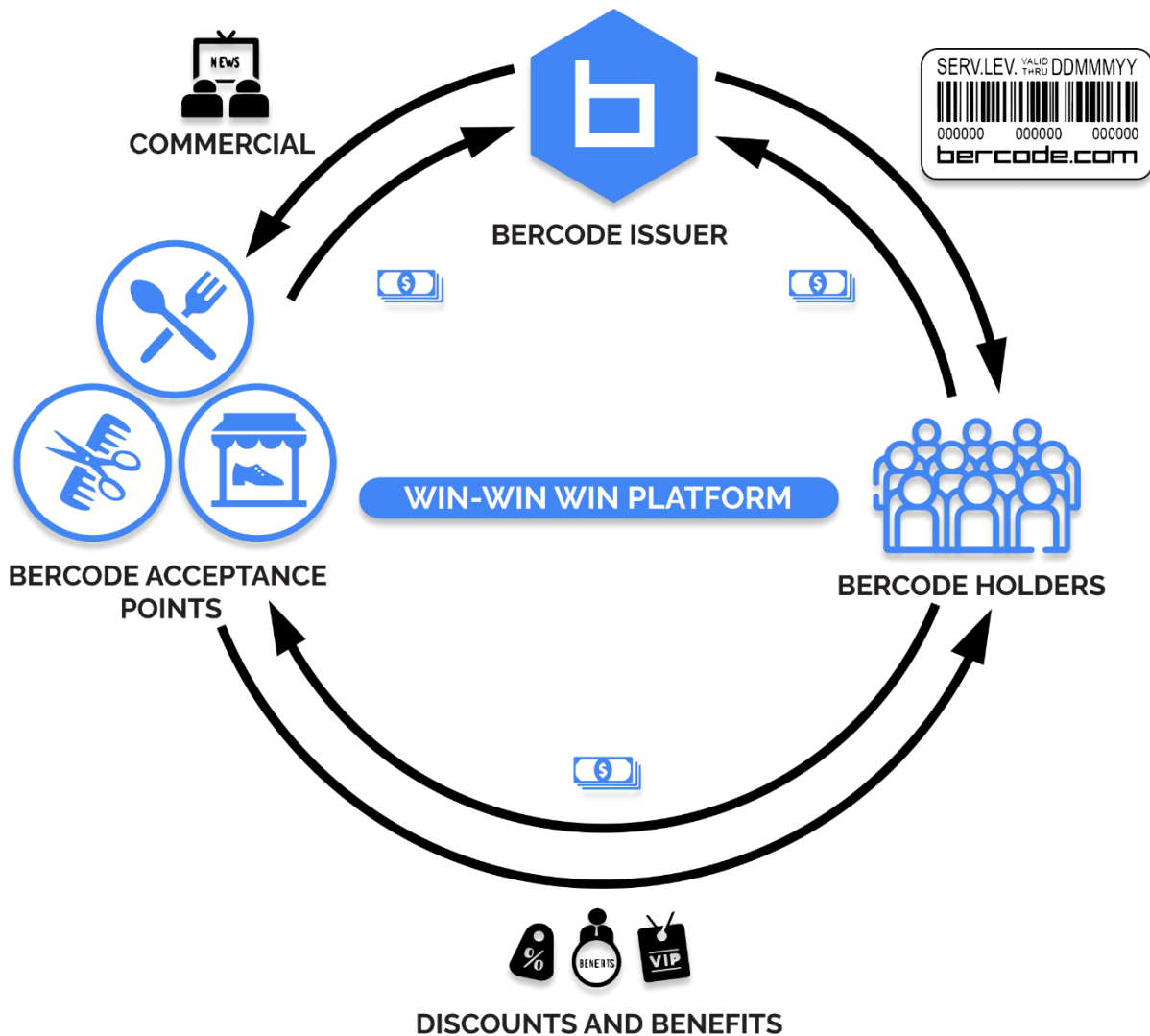
Tamás Hosszú, Crypto Division Director



Tamás has several years of experience developing and teaching innovative stock exchange algorithms in the field of automated robot trading. He is the creator of BERCOIN and the Bercode Platform NFT Marketplace system.

2 Current operation of the Bercode Platform

On the Bercode Platform, registered issuers can create and issue bercodes. For example, these **bercode issuers** can be celebrities, foundations, or associations. Fans, members, or supporters purchase bercodes from the issuer. Bercodes are unique, so there are no two identical bercodes. **Bercode holders**, with the use of their bercodes, can enjoy various discounts at **bercode acceptance points**, such as stores or service providers.



The bercode appears virtually, in a phone application, or on physically existing merchandise products (such as T-shirts, mugs, etc.). The bercode is available at different service levels (Basic, Light, Classic, Extra, and Business), which provide various benefits, including discounted purchases for the holder at accepting points.

3 Project Goal

3.1 Blockchain technology

The Bercode NFT Marketplace enhances our platform's web2-based operations by integrating web3 services. Blockchain technology's primary application was designed to authenticate and track transactions, offering a solution to run the current business model in a trustless operational environment. With every transaction authenticated and automatically recorded, they are documented in a distributed ledger.

Blockchain technology ensures trustless operations through identity management and transaction registry functions. These operations assign validated transactions to digital wallets - the system's primary beneficiaries.

3.2 Tokens and NFTs

The creation and interpretation of unique, blockchain-registered tokens (NFTs) serve as an effective solution to merchandise tools capable of performing specific functions.

The bestowed functionalities enable NFTs to be dynamic, offering benefits like automation, anonymous identification, value-creation, and several other functions. They also have the ability to preserve uploaded values and generate positive cash flow. These capabilities are significant steps toward enhancing tokens with value and maintaining it.

This has led to the possibility of tradeable NFTs appearing in the Bercode system. In addition to the core models (celebrities + merchandising), it is also possible to create a higher-level logical function by developing an NFT issuing platform for them.

Initially, the integrity tokens that track transactions are raised to a quasi-metric unit, creating internal accounting tokens.

This initial step enables project financing by estimating transactions and publishing cost-benefit ratios.

These internal accounting tokens (BERCOIN) can be bought and sold within the system to facilitate transactions. Bercode, the issuer, provides these tokens, and they can be purchased from them in advance (through an ICO) to enable transactions.

Transactions include all blockchain operations, such as creating and selling NFTs.

A well-structured economic model for endowing NFTs with value is anticipated to exert upward pressure on their exchange rate. Simultaneously, logical connections with Bercode's other transactions will bring the exchange rate down from a certain level, leading to exchange rate stabilization.

4 Technology

The Bercode NFT Marketplace is being built on the Polygon network, a widely adopted Ethereum-compatible (Layer 2) platform known for its swift and affordable transactions. Its compatibility with OpenSea and ability to support BERCOIN tokens and dynamic NFTs through Solidity-based smart contracts add to its appeal. There are numerous decentralized exchanges (DEXs) on Polygon, including 1inch and ApeSwap, where we plan to potentially list BERCOIN tokens.

4.1 Tokenization of the Bercode NFT Marketplace

To streamline transactions within the Bercode NFT Marketplace, we've introduced the BERCOIN token as an internal accounting unit. BERCOIN tokens allow us to trace the following transactions:

- Purchase of BERCOIN tokens
- Sending and spending BERCOIN tokens
- Minting NFTs
- Selling NFTs
- Transferring and forwarding NFTs

4.2 The BERCOIN token

Benefit Barcode, Inc./Bercode Platform is the issuer of BERCOIN tokens. The token will serve as the exclusive medium of exchange for accessing the services of our NFT Marketplace. Designed as an ERC-20 standard token, the smart contract for BERCOIN can be found in the appendix.

The characteristics of the BERCOIN token are as follows:

Name	BERCOIN
Symbol	BRC
Decimals	2
Total Supply	100,000,000

4.3 Dynamic NFTs

Our approach to making NFTs dynamic involves incorporating programmable functions that can be configured during creation and invoked later. Our NFTs follow the ERC-1155 standard and are minted on the Polygon platform. The fundamental value of an NFT lies in its uniqueness and verifiability of ownership. Yet, an NFT minted by a celebrity can be a coveted collectible for a devoted fan or collector.

Bercode adds multiple layers of value to NFTs, including:

- Categorizing NFTs into varying levels of rarity, which can be associated with unique offers by the celebrity.
- Attaching a corresponding bercode to the NFT according to its level, which can be used for in-store discounts.
- Unlocking various achievements based on the usage of the NFT for discount purchases, enhancing the NFT's value.
- Allocating a portion of the sales commission from purchases made at highlighted points of acceptance to the celebrity issuing the NFT, incentivizing increased NFT activity.
- Unlocking achievements based on how frequently we initiate interactions with the NFT through our application, enabling the celebrity to offer additional benefits to high-achieving NFT owners.
- Increasing the value of an NFT over time.
- Holding special draws for those who unlock achievements or top the 'Top Collectors' list.
- Planning future features such as AR-based objects and moving animations associated with the NFT.

4.4 Bercode NFT Marketplace

The Bercode NFT Marketplace emerges as an innovative platform for the exchange of dynamic NFTs, uniquely issued by celebrated personalities. This marketplace allows anyone to engage in the purchase of the listed NFTs, wherein BERCOIN is established as the exclusive method of payment.

At present, every issuer, who may be a celebrity, on the Bercode Platform operates a virtual merch webshop. In the near future, we aim to integrate these individual virtual merch webshops into the overarching Bercode NFT Marketplace page. As a result, an issuer's entire range of bercode products would be easily accessible in one unified place.

We aspire to broaden the scope of our marketplace by incorporating social media functionality into these issuer-specific virtual merch & NFT webshops. This added functionality enables the issuer, a celebrity for instance, to engage with their community via posts, creating a channel for interactive dialogue between celebrities and their fans, as well as among the fans themselves. With this, fans would have access to updates on seasonal promotions, NFT news, or events from their favorite celebrity's life through diverse mediums including text posts, images, and videos.

Each issuer's NFT Marketplace page will also feature a "top collector of the month" and a "top collector of the year" leaderboard. NFT buyers will be recognized with their registered usernames and optional profile pictures, and they can compete based on the value of their NFT portfolios to determine the ultimate fan. This not only facilitates interaction with the issuer (celebrity), but also provides the issuer with the opportunity to reward their top fans.

4.5 Gift bercode to go with BERCOIN

BERCOIN offers more than just a means of payment; it also provides additional benefits when owned in specific quantities. Upon registering a specified amount of BERCOIN in a profile's wallet address, they would be eligible to receive a corresponding service level "perpetual" bercode as a gift.

This implies that the bercode will not have an expiration date as long as the required amount of BERCOIN remains in possession. The platform maintains the validity of this arrangement by routinely verifying the amount of BERCOIN held in the registered wallet address.

5 Tokenomics

The BERCOIN token is priced at \$0.10 upon issuance. The initial sale will proceed in two distinct phases.

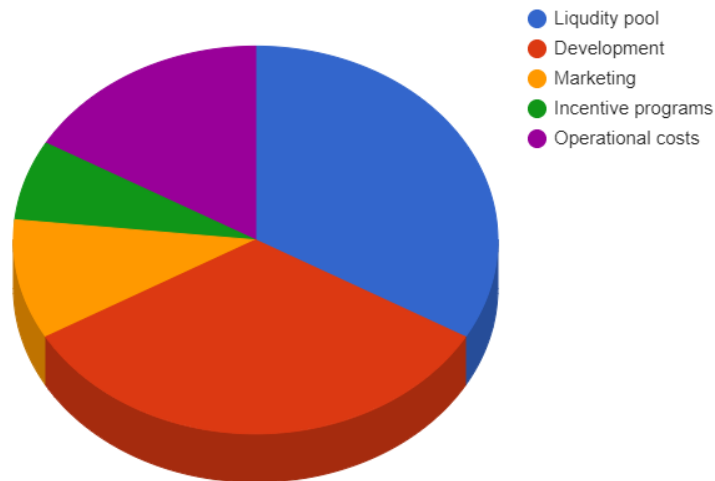
1) The private sale phase offers investors a 30% discount off the issuance price, making tokens available for \$0.07. We aim to sell 1 million BERCOIN tokens during the private sale, thereby generating a projected revenue of 70,000 USD.*

2) The public sale phase presents investors with a 10% discount off the issuance price, thereby enabling the acquisition of tokens at \$0.09. We are targeting the sale of 9 million BERCOIN tokens during the public sale, which is capped at 9 million tokens (equating to offering 10% of the total supply for sale during both the private and public sales).

The public sale soft cap is set at 2,555,000 BERCOIN tokens, indicating that the public sale will be deemed successful only if at least this many tokens are sold. This helps us project the revenue from the public sale and plan the allocation of the funds.

The distribution of this revenue will be as follows:

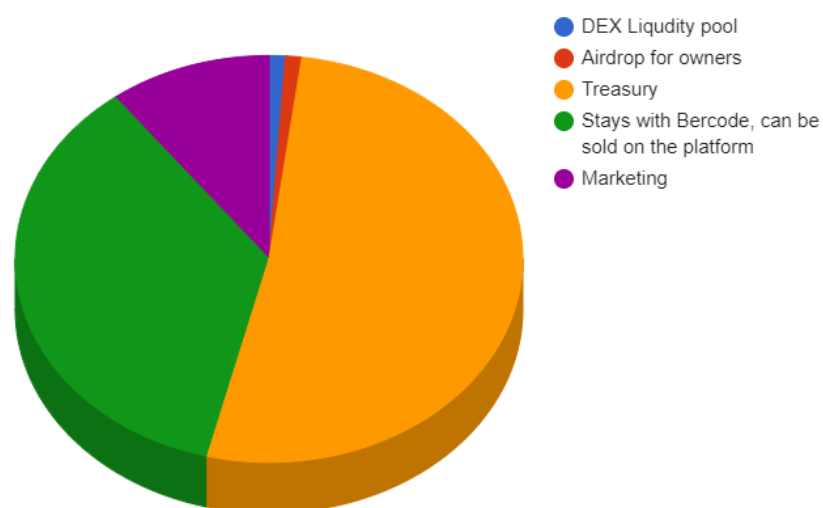
Target	Amount [USD]
DEX Liquidity pool	100,000
Development (Bercode NFT Marketplace)	100,000
Marketing	30,000
Incentive programs	20,000
Operational costs	49,950



If more tokens (up to 9 million) are sold at the public sale than the soft cap, the excess amount raised will be allocated to cover Operational Costs.

Out of the total 100 million tokens, we have sold a minimum of 3,555 million tokens during the initial sales (private and public sales), leaving 96,445 million tokens. The usage of these tokens will be as follows:

Target	Number of tokens
DEX Liquidity pool	1,000,000
Airdrop for owners	1,000,000
Treasury	50,000,000
Stays with Bercode and can be sold on the platform	34,445,000
Marketing	10,000,000



If more tokens (up to 9 million) are sold in the public sale than the soft cap, then the surplus amount must be deducted from the Treasury.

*We also offer an additional quantity discount during the entire pre-sale.

6 Business model

Our business model leverages transaction-based accounting, with tokens acting as the medium of exchange for services on the Bercode NFT Marketplace. Simply put, customers buy tokens from Bercode, which they can later use to purchase services, avail discounts, and acquire products.

Bercode issues these tokens not only as a pre-sale of its services but also as a gateway to its system. This model allows peer-to-peer interactions among customers, with transaction fees deducted automatically in token form. This system essentially allows customers to gradually utilize their prepaid amounts.

Future plans involve integrating all products and third-party services entirely into the system, enabling payment via BERCOIN. In this model, both parties acknowledge Bercode as the comprehensive accounting and payment system, promising a broader buyer base and larger discounts.

The NFT platform could be the first implementation of this approach, amalgamating Bercode's various foundational functions into one platform. This platform provides customized services (such as discount management, follower monetization, targeted marketing channels, affiliate tracking, and capital raising/pre-sale) to the supply side while catering to the demand side with personalized fan virtual tools and objects, a support platform, and self-expression tools. It further fosters mutual commitment between the fan and idol by establishing a two-way communication channel and an innovative mode of access.

7 Development roadmap

2023 Q1: Publication of Whitepaper

2023 Q2: BERCOIN private sale. 30% discount from the planned issuance price.

2023 Q3: BERCOIN public sale. 10% discount on the issuance price for investors

2023 Q4: Listing of BERCOIN tokens on DEX, making BERCOIN freely tradable.

2024 Q1: Launch of the NFT Marketplace Platform

7.1 Development team

Bercode is being developed by an enthusiastic and experienced team united by the shared goal of enhancing user experience and fostering innovation. The team includes skilled computer scientists, accomplished business leaders, and expert marketing professionals. With their extensive knowledge in designing and developing digital platforms and applications, the developers aim to position the Bercode Platform as one of the top contenders in its domain.

8 Customizability and scalability

Bercode is a sophisticated, globally accessible, cross-platform, cloud-based ecosystem. It's highly scalable, designed to handle a potentially large user base. We're committed to continuous improvement, regularly updating the system to meet our users' needs and incorporating new features and services. Our mission is to deliver a completely secure, user-friendly solution for communities.

9 Regulation and legal environment

9.1 Regulation

Bercode Platform operators adhere to a variety of international and local regulatory frameworks to ensure smooth operation. They uphold all relevant rules and regulations pertaining to data protection, electronic commerce, and financial services.

9.2 Data protection

Bercode's data protection policy guarantees comprehensive user data protection. The policy provides users with detailed information regarding their data's use and ensures that data is utilized solely for delivering the platform's services. [\[1\]](#)

9.3 Legal protection

Bercode protects its users' rights and interests. We ensure that all transactions through the platform are legal and transparent, and each transaction is traceable, providing users with full visibility of their spending. [\[2\]](#)

9.4 Financial regulation

Bercode ensures that all financial transactions on the platform are entirely legal and secure. We handle financial transactions in line with general banking regulations, providing security measures such as SSL encryption, two-factor authentication, and personal data encryption.

9.5 Legal measures

Upon identifying any legal infractions within the Bercode Platform, we will take swift and decisive action. We commit to uphold the rights and interests of our users, and any legal violations will be promptly reported to the relevant authorities.

10 Community support

We maintain an active presence on our Facebook and Instagram channels, where we share news pertinent to the entire Bercode ecosystem. These updates directly impact the Bercoin and NFT Marketplace. Our Telegram channel, on the other hand, is devoted exclusively to discussing token and NFT-related news.

11 Payment methods

To purchase BERCOIN, users will have several payment options available, including traditional bank card payments and cryptocurrency payments.

11.1 Bank card payment

Users can conveniently make payments for products or services on the Bercode Platform via their bank cards. This method is not only secure but also expeditious, instilling confidence in our users.

11.2 Cryptocurrency payment

We also facilitate the purchase of BERCOIN with cryptocurrencies on the Bercode Platform. This option offers the advantage of anonymity and minimal transaction fees. The cryptocurrencies accepted on our platform include Bitcoin, Ethereum, and Litecoin. Like our other payment methods, cryptocurrency payment is completely secure and fast, allowing our users to transact with confidence.

11.3 BERCOIN Payment

BERCOIN (BRC), the proprietary token of the Bercode NFT Marketplace, can be used for payments within the platform. Users can purchase BRC for platform transactions and may also maintain a BERCOIN reserve within the Bercode Platform.

Our diverse range of payment options ensures flexibility and security for our users, enabling them to select the method that best fits their needs. With a strong emphasis on security and data protection, the Bercode Platform ensures the safety of financial data and transactions for our users.

12 References

1inch, <https://app.1inch.io/>

ApeSwap, <https://apeswap.finance/>

Polygon, <https://polygon.technology/>

13 Appendix

The BERCOIN token smart contract

```
pragma solidity ^0.8.0;

import
"https://github.com/OpenZeppelin/openzeppelincontracts/blob/master/contracts/token/ERC20/ERC20.sol"; import
"https://github.com/OpenZeppelin/openzeppelincontracts/blob/master/contracts/ownership/Ownable.sol";
contract bercoin is
ERC20,Ownable{
    string private _name = "BERCOIN";    string private _symbol = "BRC";    uint8
private _decimals = 2;    uint256 private ts = 100000000;    address private owner;
address private tokenSaleContractAddress;    uint256 soldTokens = 0; // in 0.01 BRC,
soldTokens = 1 means 0.01 BRC has been sold.

    constructor() ERC20(_name, _symbol) {
owner = msg.sender;    }
    function settokenSaleContractAddress(address tSaleContract) external onlyOwner {
tokenSaleContractAddress = tSaleContract;    }
    function decimals() public view override returns (uint8) {
return _decimals;    }    modifier
onlyTokenSaleContract()
    {
        require(msg.sender == tokenSaleContractAddress, "Not
owner");
    }
    _;
}

    function mint(address buyerAddress, uint numberOfTokens) external
onlyTokenSaleContract {
    // the unit of numberOfTokens is 0.01 BRC    require(getAvailableTokens() >=
numberOfTokens, "There is not enough free tokens!");
    _mint(buyerAddress, numberOfTokens);
soldTokens = soldTokens + numberOfTokens;    }
    function getAvailableTokens() public view returns(uint256) {
uint256 availableTokens = ts * 10**_decimals - soldTokens;
return availableTokens;
    }
}
```