

## DISCLAIMER

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### Key Terms

- *Ethereum is a decentralized open-source blockchain platform that establishes a peer-to-peer network that securely executes and verifies application code, called smart contracts. Smart contracts allow participants to transact with each other without a trusted central authority.*
- *Ether (ETH) is the cryptocurrency token used on the Ethereum network to pay for transaction fees and computational services provided by the network. Ethereum is different from Bitcoin in that it is designed to be a more flexible platform that can support a wide variety of decentralized applications beyond just cryptocurrency.*
- *ERC-20 is a technical standard used for smart contracts on the Ethereum blockchain. ERC-20 tokens are fungible, which means that one token is equivalent to another token of the same type and value. They can be used for a wide variety of purposes, including representing assets, loyalty points, or even voting rights in decentralized autonomous organizations (DAOs).*
- *ERC20 Token with a built-in smart-contract introduced nowadays and the future needs, desires of users. Any user of ERC20 Token is able to take advantage of the extended benefits of a smart-contract.*
- *A smart token uses smart contract features to perform automatic actions based on set conditions. They are highly flexible, adapting their price and supply based on market demand. Among the main advantages of smart-contracts are:*

- o *autonomy (to conclude and confirm the transaction, you do not need to look for an intermediary represented by a broker, bank, notary, etc.);*
- o *reliability and security (a duplicate of a contract is stored in encrypted form on the blockchain);*
- o *the security of the system is guaranteed by mathematical laws and make not possible the hacker attacks, as well as the substitution of information retroactively;*
- o *Savings and speed — thanks to the blockchain, many intermediaries are eliminated and processes are automated;*
- o *accuracy — due to automation and minimization of manual work, the likelihood of errors that often appear when filling out forms during the approval process and when carrying out various contract operations manually is reduced.*
- *A utility token is a type of cryptocurrency that provides access to a product or service within a decentralized application. They are not intended to be investments. Utility tokens serve a specific purpose within the platform and can be traded on an exchange.*
- *A social technology platform connects individuals, facilitating communication, collaboration, and idea-sharing through various digital features. It creates a virtual space for social interactions, enabling users to build relationships, create, and share content.*
- *Airdrop, or airdropping, is a distribution of a cryptocurrency token or coin, usually for free, to numerous wallet addresses as a way of gaining attention and new followers*
- *Airdrops are generally promoted on the company's website, social media, and cryptocurrency forums.*
- *DApp: A DApp (Decentralized Application) is an application that operates autonomously, through the use of smart contracts on the blockchain, just like conventional apps, a DApp provides utility to users who interact with the applications on the blockchain.*

### *Frequently asked questions*

*There's a lot of jargon involved in the world of NFT marketplaces, and some controversy around NFTs themselves. Many NFT marketplaces are trying to make their platforms easier to use, and some even now take debit and credit cards as well as crypto wallets, so creating, selling and buying NFTs is becoming easier. Below are the answers to some common questions many newcomers to the NFT scene still have.*

### *What is a wallet?*

*It's like a key that opens a door, a password, and storage device put together. Broadly speaking, a blockchain wallet is a digital wallet that allows users to store, manage, and trade their cryptocurrencies. It's important to understand what wallets are and what they accomplish. Wallets themselves do not hold cryptocurrency or NFTs, but, rather they act as a gateway to the blockchain to where your information is located. Crypto wallets store your private keys, keeping your crypto safe and accessible. Crypto wallets store your private keys, keeping your crypto safe and accessible. They also allow you to send, receive, and spend cryptocurrencies.*

### *Why do you need a Wallet?*

*It's important to understand what wallets are and what they accomplish. In simple terms, a crypto wallet provides 'private keys' or passwords that allow the holder to access funds and assets stored on the blockchain. You can compare a wallet to your password on your phone. Without your password you can't access anything on your phone like your pictures, any information you saved, play any games or use any apps you downloaded on your phone*

### *Can anything be an NFT?*

*Yes. Any kind of digital file can be stored as an NFT. Most marketplaces are set up for digital artwork, but more are now supporting video, game assets, and music. Physical items are also now digitized as NFTs, for example physical limited edition Nike trainers. Expect NFTs to exist on and between the digital and physical spaces in the future.*

### *Can I pay with a credit card to buy an NFT?*

*Yes, but not always. You can buy fixed price listings with your credit card and never have to buy cryptocurrency...*

### *How Does an Blockchain Platform?*

*NFT runs on smart contracts. When a Non-fungible token development company releases a token, it contains unique information recorded in blockchain for providing immutability Usually, there is a standard user flow of all NFT marketplaces:*

*Step 1: User signs up/registers an account on the NFT marketplace platform*

*Step 2: The user is then required to set up a crypto wallet*

*Step 3: Now, we arrive at the initial NFT creation step. The user can upload a digital collectible (any asset that the user wishes to tokenize) to showcase their work*

*Step 4: While listing the asset for sale, a user has two options: setting a fixed price or auctioning the item and finally choosing a bid*

*Step 5: Assets pass the moderation*

*Step 6: Once the new NFTs are approved, potential customers can find them in the sales listings*

*Step 7: The NFT owner can begin with accepting bids*

*Step 8: When the auction ends, the platform notifies token owners about top bids*

*Step 9: The NFT Marketplace platform regulates and approves the transfer of digital assets and funds*

## *Comparative Advantage*

### *Introduction:*

*· We understand the importance of managing risk for our members who choose to swap their ETH for our platform's utility token. To this end, we have implemented risk management strategies to protect our members.*

### *Protective Strategies:*

*· We have implemented protective strategies to minimize potential losses and maximize potential gains. These strategies involve utilizing a structure proprietary product to our platform*

### *Implementation:*

*· We will implement these strategies by utilizing our platform's funds to structure insurance on ETH utilize platforms members. It will be used to protect our members who have swapped their ETH for our utility token.*

### *Conclusion:*

*· At our platform, protecting our members is a top priority. By providing the benefit of implementing these risk management strategies, we are able to provide our members with a degree of protection against market volatility and downside risk while still allowing for potential gains if the market performs well.*

*The first project to insure up to 80% of the upside and downside risk of community members Ether utilize to obtain \$anti tokens in platform open distribution require to access the benefits of community project,*

- *Members who participate in the open distribution of \$ANTI to support a project or obtain a benefit in the form of a service or product created by community member.*

- *Our blockchain project provides an insurance product that covers 80% of the downside and upside risks associated with Ethereum (ETH) cryptocurrency for a six-month period, in exchange for the Antillean Taino utility token (\$ANTI). The coverage guarantees that 80% of your Ethereum value is protected if its price fluctuates up or down.*

- o *For instance, if you have 10 ETH worth \$10,000, and you exchange them for \$ANTI tokens, our insurance product will protect 80% of that value, or \$8,000, if the price of ETH goes up or down within six months. If the price of ETH increases to \$20,000, you will receive \$8,000, and if it drops to \$0, you will still be covered for \$8,000.*

- o *Our insurance product provides a balanced approach to managing your Ethereum holdings by protecting against downside risk while retaining the potential for gains in a favorable market.*

- *The first to introduce an insurance product on the Ethereum network that secures 80% of the downside and upside risks associated with Ethereum (ETH) cryptocurrency, exchanged for the Antillean Taino utility token (\$ANTI). The insurance coverage guarantees that 80% of your Ethereum value is protected if the price of ETH fluctuates up or down within six months.*

*To demonstrate this feature, let us consider a hypothetical scenario where the current market value of ETH is \$1000, and you are keen on investing in Antillean Taino token but apprehensive about the potential risks. In Let's say you exchange \$1000 worth of Ethereum for \$ANTI and the insurance product guarantees 80% coverage for both downside and upside risks for six months. If the price of Ethereum increases to \$2000 within the six-month period, and the price of \$ANTI remains flat or decreases, you will still receive \$800 from the insurance product.*

- *Conversely, if the price of Ethereum drops to \$0, you will still be covered for 80% of your Ethereum value, which would be \$800 in this case. The mini ETH future call structure enables potential gains if the price of Ethereum surpasses a designated threshold, such as \$2500, while the six-month ETH mini future put option allows token holders to sell their ETH at a predetermined price, regardless of market fluctuations.*

- *Such a case, you can utilize a structure incorporating an ETH mini future call option with a strike price of \$1200, which will protect any potential upside gain if ETH trades above that level. Additionally, you can*

*employ an ETH mini future 800 put option expiring in six months, which will limit your downside risk to 20%.*

### *Key Advantages*

#### *First to market*

- First to launch, there is an uncontested opportunity to establish brand recognition, market share, and consumer loyalty before other businesses and products eventually enter the space as competitors.*
- Enables a company to establish strong brand recognition and customer loyalty before competitors enter the arena.*
- A company that is not a “first mover” will need much more resources and energy to “convince” users to migrate.*

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*o [Redacted]*

- <https://d3.harvard.edu/platform-digit/submission/opensea-the-first-and-largest-marketplace-for-non-fungible-tokens-nfts/>*

- 1) Reduce airdrop registration to 1 step to promote mass distribution.*
- 2) People can register with only an email or cellphone which lower barrier of entry.*
- 3) We don't have any tedious promotional or marketing requirements to receive tokens.*

# *Blockchain Using Smart Contracts for Supply Chain Management: A Case Study on Boviin LLC and Boviin MSP LLC*

## *Introduction*

*The global market for Animal Sourced Materials (ASMs) is vast, encompassing various sectors including pharmaceuticals, medical devices, cosmetics, and food products. Ensuring the safety, traceability, and quality of ASMs is critical, especially in light of increasing health risks from untraceable sources. Boviin LLC's approach to producing pathogen-free, fully traceable ASMs through their Closed Herd system presents an ideal use case for implementing blockchain technology with smart contracts in supply chain management.*

## *Overview of Blockchain and Smart Contracts*

*Blockchain is a decentralized digital ledger that records transactions across multiple computers, ensuring that the record cannot be altered retroactively. Smart contracts are self-executing contracts with the terms directly written into code, which automatically execute transactions when predetermined conditions are met.*

## *Benefits of Blockchain in Supply Chain*

- Transparency and Traceability: Every transaction and movement of goods is recorded on the blockchain, providing real-time visibility across the supply chain.*
- Immutability: Once recorded, the data cannot be altered, ensuring the integrity of information.*
- Efficiency: Automated processes through smart contracts reduce the need for intermediaries and streamline operations.*
- Security: The decentralized nature and cryptographic techniques protect data from tampering and unauthorized access.*

## *Project Structure*

### *Joint Venture Agreement*

*Boviin MSP LLC (managing the blockchain platform) and Boviin LLC (handling biotech production) have a joint venture agreement that provides*

*autonomy to involved parties, clearly defining their obligations, accountability, and legal exposure.*

## *Platform Phases*

### *Phase 1: Members-Only Platform*

- Objective: To create an exclusive platform for stakeholders.*
- Ecosystem Tokens: Access to the platform will require the use of ecosystem tokens, ensuring secure and authenticated participation.*

### *Phase 2: Augmented Reality Development*

*Objective: To enhance live interactions and visualization within the supply chain.*

- Stakeholders: Farmers, FDA representatives, logistics providers, and other supply chain participants can create and deploy smart contracts in a controlled environment.*
- ERC 1155 Tokens: Multiple ERC 1155 tokens will be used to isolate specific functions, facilitating the exploration of various use case scenarios.*
- AR Capabilities: Development of augmented reality features to allow stakeholders to interact with the supply chain in real-time, providing a more immersive and intuitive experience.*
- User Scenarios: Real-time monitoring, virtual inspections, and interactive training sessions.*

### *Phase 3: Expanded Smart Contract Applications*

*Objective: To extend the functionality and accessibility of smart contracts.*  
*Basic Access Ecosystem: Enable broader access to the platform for basic functions.*

*Data Access: Introduce advanced data access features, requiring AML (Anti-Money Laundering), KYC (Know Your Customer) checks, and interviews for verification.*

*Platform Development Access: Access to advanced platform development tools and features, requiring approval from Boviin LLC.*

*Enhanced Smart Contracts: Expanding the capabilities of smart contracts to include more complex applications and interactions.*

## *Detailed Smart Contract Framework*



## *Farmer Contract*

*Parties Involved: Boviin MSP LLC, Cattle Farmer*

*Conditions:*

*The farmer agrees to raise cattle under the Closed Herd protocols.*

*Boviin MSP LLC will pay a fixed price with an additional \$1000 premium per cattle head raised under these protocols.*

*Actions:*

*Upon delivery of cattle meeting the standards, the smart contract releases payment to the farmer.*

*The farmer must provide regular health reports and GPS-based location tracking of the cattle.*

## *Harvesting Contract*

*Parties Involved: Boviin MSP LLC, Harvesting Center*

*Conditions:*

*Cattle must be delivered on a pre-agreed schedule.*

*The harvesting center must process cattle using FDA-approved protocols.*

*Actions:*

*The smart contract releases funds to the harvesting center upon successful processing and quality verification of ASMs.*

## *Quality Assurance Contract*

*Parties Involved: Boviin MSP LLC, Third-Party Inspectors*

*Conditions:*

*Third-party inspectors must verify the quality and safety of ASMs.*

*Inspections must occur at predefined stages: post-harvest, pre-shipment.*

*Actions:*

*Smart contracts automatically schedule and log inspection results.*

*Payments to inspectors are released upon completion and submission of inspection reports.*

## *Distribution Contract*

*Parties Involved: Boviin MSP LLC, Logistic Providers, End Users*

*Conditions:*

*ASMs must be transported under specific conditions to maintain quality.*

*Logistic providers must provide real-time tracking information.*

*Actions:*

*The smart contract initiates shipment once quality checks are passed.*

*End users confirm receipt and quality of ASMs, triggering final payment to logistic providers.*

## *Implementation Steps*

### *1. Blockchain Network Setup*

- Establish a private blockchain using platforms like Hyperledger Fabric or Ethereum.*
- Define and onboard all stakeholders with proper permissions.*

### *2. Smart Contract Development*

- Develop smart contracts using Solidity (for Ethereum) or Chaincode (for Hyperledger).*
- Test contracts in a sandbox environment to ensure correctness and reliability.*

### *3. Integration with Existing Systems*

*Integrate the blockchain solution with Boviin LLC's existing IT infrastructure.*

*Ensure seamless data flow between blockchain and traditional databases.*

### *4. Pilot and Scaling*

*Conduct a pilot project with a select group of farmers and harvesting centers.*

*Analyze performance, address any issues, and scale up to full implementation.*

## *Benefits*

### *1. Enhanced Traceability*

*Immutable records on the blockchain ensure every step of the supply chain is traceable.*

## *2. Improved Compliance*

*Automated compliance checks reduce the risk of human error and ensure adherence to regulatory standards.*

## *3. Risk Mitigation*

*Transparency and traceability help in quickly identifying and addressing any issues in the supply chain.*

## *4. Efficiency*

*Smart contracts automate transactions and processes, reducing the need for intermediaries and speeding up operations.*

## *Conclusion*

*By leveraging blockchain technology, augmented reality, and smart contracts, Boviin MSP LLC can revolutionize the ASM supply chain managed by Boviin LLC, ensuring safety, traceability, and quality. This innovative approach not only positions Boviin as a leader in the market but also sets a benchmark for others in the industry to follow.*