



# **BLACKEARTHS TOKEN (BEC)**

## **WHITE PAPER**

### **BETA**

## **FINANCIAL PROPOSAL 2023**



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Dear investors and crypto enthusiasts.

It is our pleasure to introduce our crypto token to you. In this exciting world of cryptocurrency, we understand that education and trust are critical to success. Therefore, we have designed a dedicated and creative marketing strategy to bring our product to market.

Our approach is based on some inspiring examples of successful cryptocurrency marketing campaigns.



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# Executive Summary

The main objective is to raise funds for the construction of Blackearths, an ecologically sound and self-sufficient agricultural industrial innovation platform. The project seeks to market a wide range of products, including organic vegetables and fruits, poultry protein, organic seeds, among others, destined for the international food processing and distribution industries.

The proposed implementation strategy focuses on several key aspects:

**Market Research:** A thorough analysis of the global market has been carried out to understand the needs and preferences of consumers interested in organic and healthy foods. This data is critical to tailoring products and marketing strategies effectively.

**Clear and differentiated positioning:** The project seeks to establish a unique value proposition for its organic products, highlighting the benefits of consuming healthy foods and highlighting the distinctive features that make them attractive compared to the competition. In addition, the use of the BEC token in future financing of related projects is highlighted.

**Cultural adaptation and localization:** Cultural, regulatory and language differences in different international markets are taken into account, which will allow adapting products, packaging, advertising messages and communication strategies to meet the preferences and specific needs of each target market.

**Strategic alliances and distribution:** Alliances will be established with strategic partners in various regions to take advantage of their local experience, distribution network and market knowledge. These alliances will help expand the presence in the global market and facilitate the efficient distribution of products, as well as support non-profit food banks to avoid food waste.

**Digital marketing and presence in social networks:** Digital platforms and social networks will be used to promote and position the products globally. A strong digital marketing strategy will be put in place including online advertising from the launch of the BEC token, relevant content, network engagement  
Social and influencer marketing campaigns.

**Competitive pricing and penetration strategies:** The pricing strategy will be carefully evaluated to ensure that it is competitive, which is possible thanks to mass production under the project scheme, achieving attractive prices for consumers in different markets. The adoption of penetration pricing strategies to quickly capture the attention and interest of consumers will be considered.

**Customer Service and After Sales Support:** Excellent customer service and after sales support will be provided to build strong relationships and loyalty with consumers. This includes providing appropriate support information and resources both online and offline. In addition, when selecting the technology for the digital platform that connects farmers with buyers and trading partners, aspects such as scalability, security, interoperability, efficiency, mobile experience, ease of use, and cost will be considered.


It is important to highlight that the project has been based on complex studies and development of the visualization and conceptualization of the project engineering, which includes executing study runs of operational and financial risks under different geographical, climatic and economic scenarios.

Regarding the roadmap, the project has reached important milestones to date and is looking for solid platforms for the launch of the BEC token. There are next milestones and important steps to take, with a detailed plan and long-term vision to lead Blackearths to success.

The initial coin offering will provide a unique opportunity for investors to join the project from the early stages and benefit from its potential growth. The funds raised will be used transparently and efficiently to support the development, commercialization and expansion of the project.

In summary, the marketing project seeks to take advantage of blockchain technology to connect farmers and buyers, facilitating direct transactions and reducing the intervention of intermediaries. The strategy focuses on adapting products and marketing strategies to the needs and preferences of the global market, establishing strategic alliances and harnessing the power of digital marketing and social networks to reach a broad market. All this is complemented by the careful selection of the appropriate technology for the digital platform and the consideration of key aspects for the success of the agricultural project and its BEC token.





## Who are the recipients of the products?

The potential consumers of the described token are those who are interested in healthy and sustainable eating and who value transparency in the agricultural supply chain. These consumers are concerned about the quality of the food they eat, as well as the environmental and social impact of its production. Some characteristics of potential consumers are the following:

**Concern for health and sustainability:** These consumers are aware of the importance of healthy eating and its relationship with personal well-being. In addition, they value the production of food in a sustainable way, that is, respectful of the environment and socially responsible.

**Preference for fresh food and directly from the producer:** Potential consumers seek access to fresh, quality produce directly from farmers, cutting out middlemen. They are interested in knowing the origin and traceability of the food they consume.

**Sensitivity towards transparency and traceability:** These consumers value transparency in the agricultural supply chain, which allows them to understand the production process and the practices used in agriculture. Traceability gives them confidence in the quality and safety of food.

**Interest in technology and cryptocurrencies:** Since the crypto token is backed by tangible fixed assets and uses blockchain technology to cut out intermediaries, potential consumers are likely to have an interest in blockchain technology and cryptocurrencies.

**Awareness about climate change and its impacts:** These consumers are aware of climate change and its impact on food production. They seek to support initiatives that promote sustainable agricultural practices and mitigate environmental impact.

**Preference for local products and support for farmers:** Potential consumers value support for local farmers and sustainable agricultural production. They are willing to support initiatives that promote local agriculture and reduce dependence on intermediaries.

In summary, the potential consumers of the described token are those who are looking for healthy and sustainable food, with an interest in traceability and transparency in the agricultural supply chain. These consumers value blockchain technology and are committed to supporting local and responsible agricultural production. The token's strong and attractive value proposition, backed by tangible assets related to healthy food production, can attract investors and market participants who share these values and goals.

The characteristic for regular buyers of organic products, the consumption of these foods is more than an occasional choice, it represents a lifestyle. The values they ascribe to themselves include altruism, ecology, universalism, benevolence, spirituality, and self-direction. These values guide their purchasing decisions and make them feel good about themselves by expressing their support for a particular movement or cause.

**Farmers and local communities:** Those who are looking for sustainable agricultural projects and less dependent on the weather. Blackearths offers a smart contract that provides access to programs with quality seeds, irrigation systems, rainwater retention tanks and biofertilizers, improving the efficiency and resilience of your crops in the face of changing climatic conditions.

**International communities with limited resources:** Those in countries with weak economies facing agricultural challenges due to limited resources. Blackearths organizes fundraising campaigns using blockchain technology to support sustainable agricultural projects, improving their quality of life by accessing essential resources such as water.

**Nonprofit Organizations and Farm Financing Entities:** NGOs and entities focused on sustainable development and food security. They can collaborate with Blackearths in fundraising campaigns for sustainable agricultural projects, promoting more sustainable agricultural practices and supporting local farmers.

**Farmers interested in precision agriculture:** Those who wish to adopt sustainable technologies, such as the "Siembra Raiz Plus" program, with high quality seedlings, irrigation technology and biofertilizers, reducing the effort per hectare and focusing on less erosive and robust approaches.

**Companies and brands committed to sustainability:** Those interested in promoting sustainable agricultural practices and supporting social responsibility projects. By collaborating with Blackearths in fundraising campaigns, these companies can demonstrate their commitment to sustainable development and generate a positive impact on society.

In short, Blackearths offers innovative technological solutions to promote sustainable development in agriculture, benefiting local farmers and communities, as well as international communities with limited resources. He also works with non-profit organizations and agricultural finance entities seeking to support sustainable projects. In addition, the company attracts farmers interested in precision agriculture technologies and companies committed to sustainability and social responsibility.





## Category: High potential vertical in which the project is located

Blackearths is in the vertical categories of "Agriculture and Food Security". The main focus of the project is innovation in industrial agriculture, with a focus on sustainability and the use of resilient technology to operate in harsh environmental conditions. The project aims to guarantee the permanence of crops in various environmental conditions and to deal with climate change.

In addition, the project has a commercial dimension, since it seeks to commercialize a wide range of agricultural products, including vegetables, organic fruits, poultry protein, organic seeds, seedlings, balanced animal feed, and irrigation technology. It is intended for international food processing and distribution industries, becoming part of their value chain.

The vision of the project to promote the long-term viability of agriculture, change the traditional farming model towards an urban center model and rationally use natural and technological resources, also reinforces its categorization in the agriculture and food security vertical. .

Its agribusiness platform seeks to transform the agricultural industry through healthy and sustainable food solutions, and promotes initiatives to encourage the use and accumulation of value of the token in areas such as agricultural innovation, decentralized financing and sustainable agricultural practices.

With our cryptocurrency we would have access to decentralized financing sources, such as peer-to-peer loans or collective financing (crowdfunding), non-profit fundraising campaigns for innovative agricultural projects. Farmers and entrepreneurs can submit proposals and apply for funds directly through the cryptocurrency platform, providing investment opportunities and financial support for projects that promote sustainability and innovation in agriculture.





# Technological fundamentals background

Exchanges or exchange houses are platforms that allow you to acquire, store or sell cryptocurrencies. In the world of cryptocurrencies, these exchange houses play a crucial role, since they facilitate both obtaining cryptocurrencies without the need to mine, and exchanging them for local currencies. There are two main types of Exchange: centralized and decentralized.

## **Centralized Exchanges (CEX):**

The centralized exchange operates as intermediaries between two people who want to exchange assets. These platforms are controlled and managed by an entity or company. Although they offer transaction security, they have the drawback of being vulnerable to computer attacks, due to the concentration of users and funds in one place. They also tend to have higher fees than the decentralized exchange.

## **Decentralized Exchanges (DEX):**

The decentralized Exchange does not require intermediaries and works through peer-to-peer (p2p) technology, allowing the direct exchange of cryptocurrencies between users, without the need to entrust their assets to third parties. These platforms use smart contracts and blockchain technology to secure transactions and ensure the reliability of the process. Fees on decentralized exchanges are usually lower, and they are also often easier to use due to the lack of personal identification requirements.

When it comes to choosing the right exchange house, it is important to consider factors such as fees, security, ease of use, and privacy. Decentralized exchanges are especially attractive to those users who value direct possession of their cryptocurrencies and prefer to avoid risks associated with third-party custody. In addition, within the DeFi ecosystem (decentralized finance), the decentralized Exchange plays a crucial role by allowing the creation of financial services with characteristics similar to traditional services, but built on a blockchain and with greater transparency and decentralization.


Decentralized finance (DeFi) has been gaining popularity and expanding its use cases, offering more inclusive and accessible financial services to people of different economic statuses and nationalities. The use of smart contracts in DeFi allows value transactions to be carried out under special conditions, eliminating the need for intermediaries and increasing transparency.

It is important to note that while DeFi and decentralized exchanges offer numerous advantages, there are also risks associated with their use. As with any investment or financial transaction, users must be well informed and make careful decisions to protect their assets and avoid possible scams or losses.

In short, centralized and decentralized exchanges play a crucial role in the world of cryptocurrencies. The choice between one or the other will depend on the preferences and needs of the user, considering aspects such as security, commissions, ease of use and direct control over the assets. Furthermore, the growth of decentralized finance will continue to impact the financial industry as more opportunities for decentralization and transparency in financial services open up.







# Initial features Exchange Agrocrypto blackearths

The "Blackearths" Exchange is a cryptocurrency exchange platform that offers a number of initial features for its users. The main features of this Exchange model are summarized below:

**User Levels:** Blackearths has different user levels, and those who have large amounts of BEC and have been trading for at least 30 days have access to the VIP level. This level offers additional benefits such as discounts on trading fees.

**BEC Token Trade:** The BEC token is the native cryptocurrency of the Exchange, and users can exchange it for other cryptocurrencies both within the Blackearths platform and on third-party exchanges.

**Liquidity Pools:** Blackearths offers the concept of "liquidity pools" or Liquidity Pools, which are platforms that facilitate the trading of assets in the DeFi (decentralized finance) ecosystem. These pools allow users to supply liquidity through cryptocurrencies and earn returns on the funds they deposit into smart contracts. The idea is to ensure that liquidity is always available to avoid large price swings in assets. A well-known example of this type of platform is Uniswap on the Ethereum network.

**Pools for Campaigns (Crowdfunding):** Blackearths also offers "campaign pools" that function as a form of non-profit fundraising in the DeFi ecosystem. These platforms capture the attention of users who want to provide funds through cryptocurrencies in their protocol and offer their own smart contracts for management said.

**Token Issuance Platforms:** The Blackearths Exchange provides tools and a legal framework for users to issue their own token values on a blockchain. This enables the digitization of stocks, real estate or works of art. Some of these DeFi dedicated to issuing tokens are Binance Launchpad and the Harbor initiative

**Asset Management Platforms:** Blackearths offers services focused on managing cryptocurrency investments. These apps integrate a price index, risk management, crypto asset trading, and regulatory compliance. Examples of these apps are Insta.dapp and Yearn Finance.

**Wrapped Tokens:** BlackEarths allows the use of "wrapped tokens," which are tokens that represent cryptocurrencies from other blockchains. For example, the WBTC token makes it possible to transfer and trade a tokenized bitcoin on the Ethereum blockchain.

**Commercialization of Crypto Collectibles:** Blackearths offers support for non-fungible assets (NFTs) or crypto-collectibles, which are unique and indivisible pieces on the blockchain. These NFTs are used in games, identification of collectibles, luxury items and even works of art.

**IEO Lottery:** Blackearths has a program called Initial Exchange Offerings (IEOs), in which users can request lottery tickets based on the number of BEC tokens they own. Winning tickets allow users to obtain a certain number of BEC tokens.

In conclusion, Blackearths is a cryptocurrency exchange that offers a wide range of entry-level features, from user levels and BEC token trading to advanced options like liquidity pools, token issuance, and crypto-collectibles trading. These features seek to meet the needs of users in the decentralized finance (DeFi) ecosystem and provide opportunities to raise funds.



## What is the purpose of our token

The purpose of our cryptographic token in terms of marketing is to support its value by linking it with tangible fixed assets related to the production of healthy and sustainable food. Our token establishes a direct connection between farmers, consumers and wholesale distributors, eliminating the need for traditional intermediaries. This feature allows for more transactions that are efficient, cost reduction, and greater transparency in the agricultural supply chain. By allowing consumers to source products directly from farmers, cutting out intermediaries, both farmers and consumers can benefit, improving traceability and building confidence in food quality. Furthermore, by backing the value of the token with tangible assets, as the production of healthy and sustainable food, we offer a strong and attractive value proposition for investors and market participants. This demonstrates our commitment to sustainability and the creation of an ecosystem that promotes transparency and direct access to quality agricultural products.







## Main functions of the token

**AGRO ASSET TOKEN:** Backed by agricultural and fixed assets, providing a solid foundation and support for the token: This feature means that the token is backed by physical assets from the agricultural sector and the Blackearths project, as well as the mass production of real agricultural products. This means that each token unit is backed by a specific agricultural asset, which provides tangible value to the token and can offer not only stability but also scalability.

**AGRO CHAIN:** Improves transparency and efficiency in the agricultural supply chain: This feature implies that the token contributes to improving transparency and efficiency in the agricultural supply chain in general. By using technologies such as blockchain, data and transactions can be reliably recorded and verified throughout the supply chain. This can reduce the opacity and costs associated with intermediation, in addition to streamlining processes and guaranteeing the authenticity of information.

**AGRO TRACE:** Allows users to trace and know the origin and quality of organic agricultural products: This feature implies that the token offers the ability to trace and know the origin and quality of organic agricultural products. Using technologies such as blockchain and traceability systems, users can verify the provenance and quality of token-backed agricultural products. This provides greater confidence and transparency to consumers interested in organic products.

**AGRO TRADE:** Represents participation in a decentralized agriculture and commodity trading platform: This feature implies that the token represents participation in a centralized platform dedicated to agriculture and agricultural commodity trading. By owning the token, users have access and can participate in the platform, which can offer additional services such as commodity exchange, smart contracts, and investment opportunities in the agricultural sector.

**AGRO TRACE:** Provides traceability and logistics services for the agricultural industry: This feature implies that the token offers traceability and logistics services for the agricultural industry. This can help improve efficiency and transparency in the agricultural supply chain, allowing accurate tracking of products from their origin to the final consumer. By using the token, data related to the production, storage, transportation and distribution of the supported agricultural products can be recorded and verified.

**CRF-SFL:** Non-profit fundraising campaign with regular contribution from Blackearths net profits, using blockchain to promote organic agriculture, designed to finance agricultural projects. This feature implies that the token is used as a tool to finance agricultural projects and encourage investment in the sector. By using the token, investors can participate in specific agricultural projects and earn returns based on the performance of those projects. This can provide a new form of investment in the agricultural sector and promote its development.





## Introduction

In the current global scenario, the adoption of innovative technologies has revolutionized the way we interact with the world and perform various activities. One of these disruptive technologies is the chain of blocks (blockchain), which has demonstrated its ability to provide transparency, efficiency and security in multiple sectors. In this context, we are pleased to introduce the "Blackearths" project, which focuses on harnessing the benefits of Ripple's blockchain technology to address crucial challenges in the agricultural and environmental industry.

"Blackearths" is an initiative that was born with the purpose of transforming the way in which agricultural resources are managed and environmental problems are addressed throughout the world. Inspired by the growing need to promote sustainability and environmental protection, this project positions itself as an agent of change that seeks to optimize processes and promote responsible practices in the agricultural sector.

The adoption of Ripple blockchain technology plays a critical role in achieving our goals. Ripple is known for its focus on financial and payment solutions, and we at Blackearths have identified its potential to improve traceability and efficiency in the agricultural supply chain. By implementing Ripple, we will be able to streamline payment processes and the transfer of funds between key players, such as farmers, suppliers, distributors and customers, thus ensuring greater fluidity and transparency in transactions.

In addition, Ripple's technology will allow us to establish a collaborative network between various organizations and stakeholders in the agricultural and environmental industry. Through smart contracts and immutable records, we will be able to ensure the traceability and authenticity of agricultural products, promoting sustainable and responsible agricultural practices. This will not only build trust among consumers, but will also allow us to collect valuable data on the provenance and quality of food and natural resources.

In a context where climate change represents an urgent challenge for humanity, "Blackearths" also intends to promote environmentally friendly agricultural practices. Ripple technology gives us the opportunity to create a system of incentives for farmers who adopt sustainable practices and contribute to the conservation of the environment. In this way, we seek to promote soil conservation, the reduction of emissions and the responsible use of natural resources.

With the combination of Ripple technology and our vision of a sustainable future, the "Blackearths" project is presented as an innovative and promising proposal in the agricultural and environmental field. We are convinced that this initiative will mark a turning point in the way we conceive and apply technology for the benefit of society and the planet.







# Technological Foundation Blockchain Ripple

The technological foundation of the Ripple blockchain, also known as the XRP Ledger, is based on a decentralized and consensus system that allows transactions to be carried out quickly, efficiently and securely. The main aspects underlying Ripple's technology are described below:

**Quorum Consensus:** Unlike other cryptocurrencies such as Bitcoin, Ripple does not use the Proof-of-Work (PoW) or Proof-of-Stake (PoS) mechanism to validate transactions. Instead, it employs a consensus method called Ripple Protocol Consensus Algorithm (RPCA) based on quorum. This mechanism allows a majority group of validators, known as servers, to agree on the transactions that should be included in a block on the blockchain (ledger). If at least 80% of the validators agree, a consensus is reached and the transactions are recorded in the ledger, ensuring that their content cannot be modified later.

**Unique Node List (UNL):** Although Ripple provides a recommended list of around 35 validators based on their past performance, each participating node in the network is free to choose their own list of validators, known as the Unique Node List (UNL). Validators must be carefully selected by each node based on their trust in their honesty and compliance with the rules. This flexibility in the choice of validators guarantees a higher degree of decentralization and security in the network.

**XRP as a bridge currency:** Ripple's native token, XRP, plays a crucial role in the network by acting as a bridge currency to facilitate fast and efficient exchanges between different currencies and networks. XRP is used as an intermediate exchange mechanism between two currencies or networks, allowing a smooth and fast conversion of assets. This feature makes Ripple an attractive solution for financial institutions looking to streamline currency transactions globally.

**Not Mined:** Unlike Bitcoin and other cryptocurrencies, XRP is not mined or created by mining. Instead, 100 billion XRP was pre-mined at the launch of the network. The distribution of XRP is managed by Ripple Labs, and periodically part of the tokens are put up for sale to finance the development of the ecosystem. Additionally, each transaction on the Ripple network consumes a small amount of XRP, which helps prevent misuse of the network.

**Efficiency and speed:** Thanks to the quorum consensus system, Ripple transactions are confirmed in just 3-5 seconds, which is considerably faster than the time required by Bitcoin and some other cryptocurrencies. This efficiency and speed make Ripple especially suitable for international payments and remittances, significantly reducing transfer times and costs.

In summary, the technological foundation of the Ripple blockchain is based on its quorum consensus system, the use of XRP as a bridge currency and the ability to provide a fast, secure and efficient payment network. These elements have led Ripple to position itself as one of the main solutions in the field of cryptocurrencies and global payments.





# Considerations for the creation of the "BlackEarths" token with Ripple technology

Creating a "Blackearths" token on Ripple technology (XRP Ledger) can be an interesting option due to the unique features offered by this blockchain. Here are some important considerations to keep in mind when creating and issuing the "BlackEarths" token on the XRP Ledger, based on the information provided:

**Improved support for NFTs in the XRP Ledger:** RippleX has been working on improving support for non-fungible tokens (NFTs) in the XRP Ledger, which could make this platform an attractive option for issuing NFTs. The implementation of this functionality could allow creators and developers to take advantage of the existing infrastructure in a more accessible, integrated and economic way for the creation, exchange and monetization of NFTs. Furthermore, the addition of NFTs and tokenization in the XRPL is expected to open up new opportunities and efficiencies in the world of digital assets.

**Cost Efficiency:** The process of creating NFTs on some blockchains can be expensive due to the associated high gas fees. However, the XRP Ledger has been designed to be a more cost-efficient blockchain, which can result in cheaper and more accessible transactions for users. This is especially relevant for projects looking to create large-scale NFTs, as lower fees can increase creator profitability and make it easier for consumers to access.

**Environmental sustainability:** The creation of NFTs on some blockchains can have a significant environmental impact due to the energy consumption associated with mining and validating transactions. In this sense, the XRP Ledger offers a considerable advantage, as it uses a more efficient consensus process that consumes negligible amounts of energy, making it approximately 120,000 times more efficient than networks based on the proof-of-work protocol. Choosing to use the XRP Ledger for the creation of NFTs can contribute to a more sustainable and environmentally friendly approach to digital assets.

**Custom tokens functionality:** The XRP Ledger has built-in functionality for the creation and management of custom tokens known as "Issued Currencies". This allows tokens, including NFTs, to be settled securely and without the need for centralized intermediaries. In addition, the "Autobridging" and "Pathfinding" functionality in the XRPL DEX (Decentralized Exchange) facilitates the exchange of different tokens efficiently, providing a more fluid and versatile user experience for asset holders.

To carry out the creation of the "Blackearths" token on the XRP Ledger, issuers can follow the basic steps mentioned in the previous Stack Overflow answer. It is recommended to use the XUMM wallet, which offers a tool called "Token Creator" xApp, which will guide users through the process of creating the token on the XRPL network.

In summary, when considering the creation of the "Blackearths" token powered by Ripple, it is essential to take advantage of the advantages of the XRP Ledger, such as its cost efficiency, environmental sustainability and functionality for custom tokens. With a careful approach to implementation and responsible development, the XRP Ledger could be a suitable platform to empower the issuance and use of NFTs in a more accessible and sustainable way.







# Consensus Mechanisms Considered for the "Ripple" Token (BEC)

Ripple's protocol (RTXTP) is known for its focus on efficient and affordable funds transfers globally. To achieve this efficiency, especially in terms of speed, the protocol uses the "Ripple Protocol Consensus Algorithm" (RPCA), which is a specific consensus mechanism for the operation of the Ripple network. Next, it will be explained how this consensus algorithm works based on the information provided:

**What are consensus algorithms?:** Consensus algorithms are solutions to the Byzantine generals problem. In the context of cryptocurrencies and blockchains, this problem translates into how a group of nodes can reach a correct decision when the credibility of some of the participants is questionable. Bitcoin uses the Proof of Work (PoW) algorithm, while Ethereum uses the Proof of Stake (PoS) algorithm to address this challenge. The RPCA is the specific consensus mechanism developed for the Ripple network and its transactions.

**Operation of the RPCA in Ripple:** In the RPCA, there is a "tactician" (RPCA) whose goal is to ensure that all loyal generals come to the same conclusion, or no conclusion at all. To achieve this, the following process is followed:

The generals (nodes) in the network must select other generals they trust (this does not guarantee their loyalty, it is simply a matter of trust) and create a list called "UNL" (Unique Node List).

The strategist then asks the generals to come to a consensus with the generals on their UNL list. If more than 80% of the generals in his UNL come to the same decision, then the general considers the decision final. This is because the strategist knows that the army can only tolerate betrayal by less than 20% of the generals (Byzantine Fault Tolerance = 20%). Similarly, all the generals consult their UNL lists and come to a consensus.

To ensure that each loyalist general reaches the same consensus on their UNL lists, the strategist makes another rule: if two UNL lists are selected, they must have at least 20% of the members in common. This way, there will always be enough people on each UNL list to prevent them from reaching the wrong decision. For example, if there are 20 traitor generals, and we replace 4 generals (20% of the 20 generals) with loyal generals, then the majority would not exceed 80%, which would prevent consensus. This way, no general will reach a wrong consensus, regardless of who is on his UNL list, as long as the number of traitors is less than 20%.

RPCA is considered a fast consensus algorithm compared to others, saving time and energy on the Ripple network. It is worth mentioning that this consensus mechanism has been specifically designed to meet the needs of the Ripple ecosystem and its transactions.





## Blackearths economic design token (BEC)

The Ripple Protocol Consensus Algorithm (RPCA) provides a digital platform that enables various functionalities and applications in the Ripple ecosystem. Below I detail how each element of your economic design could be implemented using Ripple technology:

**Exchange medium:** Ripple (XRP) is a cryptocurrency designed to facilitate fast and efficient payments and funds transfers. Your "Blackearths" token may be used by users as a means of exchange to purchase goods and services on the Ripple platform and may also be redeemable for fiat and other cryptocurrencies through digital exchanges that support asset tokenization.

**Digital platform:** Ripple provides a platform that can be used as a digital representation of goods and raw materials (e-commodity). This platform can allow the creation of other digital instruments oriented to national and international trade and finance using blockchain technology.

**Savings and investment instrument:** The stable value of your "Blackearths" token could encourage its use as a store of value and financial investment, similar to how some people use XRP for this purpose.

**Service contracting instrument:** The tokenization of your project could associate the value of your token with the contracting of specialized services in sustainable agriculture. Interested parties could use your "Blackearths" token to access services related to agriculture and sustainability on the Ripple platform.


**Non-profit crowdfunding platform:** Through blockchain technology and the Ripple platform, it is possible to organize fundraising campaigns for less favored rural communities. This platform would allow the collection and access to funds without intermediaries and with a global presence, which could benefit projects related to sustainable agriculture and other social initiatives.

**Food Bank digital platform:** The Food Bank digital platform could be implemented on the Ripple network to digitally represent merchandise and food in distribution chains. This platform would allow connecting producers, distributors, merchants and consumers to carry out transactions of food and raw materials. In addition, the platform could promote awareness and education about food waste, providing information and statistics on how to reduce waste and promoting initiatives to address this problem.

In summary, with Ripple technology and the proper use of the Ripple Protocol Consensus Algorithm, it is feasible to implement the economic design proposed for your "Blackearths" token, allowing it to fulfill its functions and applications in the field of sustainable agriculture and beyond.







# Creation of centralized exchange CryptoAgro Blackearths

It will be a Centralized Exchange starting with the following DeFi applications:

**Decentralized lending platforms:** Emulating the lending services of banking entities, there is a type of DeFi application that seeks to connect lenders and borrowers directly through smart contracts.

**Liquidity pools:** Liquidity pools, or also known in English as Liquidity Pools, are platforms that seek to facilitate the trading of assets in the DeFi ecosystem. To achieve this goal, they attract the attention of users who wish to provide liquidity through cryptocurrencies in their protocol and offer them returns for the funds they deposit in the smart contracts.

**Token issuance platform:** Which are mostly focused on tokenized securities and provide tools, as well as the legal framework, so that users can issue their own tokenized securities on a blockchain. In this way, an action, a home or a work of art can be digitized. The Binance Launchpad platform and the Harbor initiative are some of these DeFi dedicated to issuing tokens.

**Asset Management Platform:** They are services focused on managing investments with cryptocurrencies. Such apps integrate a price index, risk management, crypto asset trading, and regulatory compliance. The Insta.dapp and Yearn Finance apps have been dedicated to this sector.

**Wrapped tokens:** It is a token that represents a cryptocurrency from another blockchain, thus allowing said value to be transferred in a network other than that of its issuance. For example, the WBTC token makes it possible to transfer and trade a tokenized bitcoin on the Ethereum blockchain.

**Creation of crypto-collectibles:** NFT non-fungible assets, as crypto collectibles are also known, first appeared on the Bitcoin blockchain. Standing out as unique and indivisible pieces, they gave birth to iconic products such as Rare Pepes and Spells of Genesis. However, it was on the Ethereum blockchain, under ERC-721, that these collectibles gained popularity and began to be collected due to their scarcity. Currently they are used for games on the blockchain, identifying collectibles, creating luxury items and even marketing works of art, allowing it to fulfill its functions and applications in the field of sustainable agriculture and beyond.

**P2P trade:** Peer-to-peer commerce, or P2P commerce, refers to the direct transaction between two parties without the intermediation of a centralized entity, such as a company or a trading platform. Instead of using an intermediary, P2P transactions take place directly between participants, usually through blockchain technology or through decentralized networks. P2P commerce can cover different areas, such as the exchange of goods, services or even cryptocurrencies.





Some common examples of P2P commerce include:

- **Exchange of goods:** People can buy, sell or exchange goods directly with each other without the intervention of a store or online trading platform. This can be done through specific P2P platforms, buying and selling groups on social networks or even through personal agreements.

- **Services:** People can offer services directly to other individuals without the need for an intermediary company. This could be handled via a contract intelligent that can include the following services:

1. **Agricultural advice:** Farmers can receive expert advice on the best agricultural practices for growing vegetables, including variety selection, soil preparation, pest and disease management, fertilization, irrigation, and harvesting. Farm advisors can provide personalized recommendations to maximize crop productivity and quality.

2. **Seed and seedling supply:** Specialized agricultural companies provide high-quality seeds and seedlings for farmers. These supplies are carefully selected to ensure healthy, vigorous plants adapted to local conditions.

3. **Irrigation and fertigation systems:** Proper watering is essential for the healthy growth of vegetables. Companies can provide automated and efficient irrigation systems that allow precise and controlled delivery of water and nutrient to plants. In addition, fertigation combines irrigation with the application of fertilizers, optimizing crop nutrition.

4. **Promote non-profit fundraising campaigns** with our token to implement self-sufficiency and assist in the agricultural process: We are giving families worldwide the opportunity to have a fresh start and adopt a lifestyle focused on sustainable agriculture. Through our programmes, this can be beneficial both for individual farmers and for the development of rural communities. By focusing on self-sufficiency and assistance in the farming process, we are promoting a focus.

**Cryptocurrency trading:** Cryptocurrencies, such as Bitcoin, allow the direct exchange of value between two parties without the need for a financial intermediary. Transactions are verified and recorded on a decentralized network using blockchain technology.

**Our wallet:** For token holders to access the data center and manage their computing power for cryptocurrency blockchain networks or other operations, a software product called BEC Wallet is being developed. It will be released in two versions: as a desktop app and a mobile app.

BEC Wallet will be a simple and intuitive application that will allow users to access the computing power of the data center and use it to configure blockchain crypto operations.

Through the app on a smartphone, tablet or computer, users will be able to easily manage their account. They will be able to access and configure the computing power for the blockchain networks of the available cryptocurrencies and benefit from it.

The app will also offer several advanced and sophisticated tools to help users further maximize their income.







## Issuance and initial offer

The launch of the BEC will be divided into two stages: a Presale and an Initial Offer.

### **PRESALE**

The Presale will start on September 3, 2023 and will consist of the creation and sale of a token on the Ripple platform block chain. This process will promote and guarantee demand for the Initial Offering of the BEC, which will be carried out later. The following conditions apply:

- Pre-sale period: 6 months.
- Collection objective during pre-sale and/or public sale: 253 Million Dollars. "It covers pre-operative costs. Startup phase of our genesis token and the costs of completing the detailed engineering of Blackearths."
- Discount for pre-sale participants: 20% on the price of the initial offer.
- Minimum investment during the pre-sale: 0.10 US cents.
- Additional bonuses or incentives for large investors.
- KYC (Know Your Customer) and AML (Anti-Money Laundering) process for pre-sale participants.
- Pre-sale participants will receive their tokens after the end of the initial offer.

### **INITIAL OFFER PUBLIC SALE**

The public Initial Offering will begin on October 3, 2023 and will consist of the creation and sale of a token on the Ripple platform block chain. This process will promote and guarantee demand for the Initial Offering of the BEC, which will be carried out later. The following conditions apply:

- ICO period: 1 year.
- Price per token: 0.10 US cents.
- Minimum investment: 0.10 cents of the dollar.
- Staggered bonuses or discounts depending on the time of participation.
- Assignment of a percentage of the total tokens for the founding team, advisors and strategic partners.
- Specific proportion of tokens destined to the reserve of the company for its development and expansion.
- Use of smart contracts and a trusted platform to guarantee transparency and security.
- KYC and AML process for the participants of our token.

### **DISTRIBUTION OF TOKENS TO INVESTORS AFTER THE SUCCESSFUL COMPLETION OF THE PUBLIC SALE.**

- Tokens available for public sale: 12,962,962,963
- Reference sale price: USD 0.10
- Start date and time: October 3, 2023 at 08:30 am (Venezuelan time, - 04:00 GMT).
- Closing date and time: October 3, 2024 at 23:59:59 pm (Venezuelan time, - 04:00 GMT).





## Issuance and initial offer

### INITIAL OFFER PRIVATE SALE

The private Initial Offer will begin on December 3, 2024 and will consist of the creation and sale of a token on the Ripple platform block chain. This process will promote and guarantee demand for the BEC private pre-sale Offer, which will be carried out after the private sale is completed. "We will specifically target well-known investment funds that are currently investing in cryptocurrencies." Green investment funds, among others. Some of the key aspects of a private token sale include:

- Exclusive offer: The tokens are only offered to a select group of investors.
- Discounts and benefits: You will receive as an additional benefit, our limited edition bonus token. According to the level of investment, with annual payments discounted from the net profits of Blackearths that is contemplated in the Business Plan with 5% during a period of 20 years.
- Requirements and accreditation: Participants in the private sale must meet certain requirements and, in some cases, may need to be accredited as accredited or institutional investors.
- Legal Agreements: Legal and contractual agreements are established that govern the terms of the private sale, such as the minimum investment amount, conditions of sale, and transfer restrictions.
- Confidentiality: The private sale is conducted discreetly and investor information and details of the sale are kept confidential.

### DISTRIBUTION OF THE TOKENS TO INVESTORS AFTER THE SUCCESSFUL COMPLETION OF THE PRIVATE SALE CAMPAIGN.

- Pre-sale period: 1 year.
- Fundraising objective: 800 million dollars. Covers start-up phase construction costs, Blackearths project
- Tokens available private sale: 24,074,074,074
- Reference sale price: USD 0.50
- Start date and time: August 3, 2024 at 08:30 am (Venezuelan time, -04:00 GMT).
- Closing date and time: August 31, 2025 at 23:59:59 pm (Venezuelan time, -04:00 GMT).
- ICO period: 1 year.
- Price per token: 0.50 US cents.
- Minimum investment: 1 BITCOIN.
- Staggered bonuses or discounts depending on the time of participation.
- Assignment of a percentage of the total tokens for the founding team, advisors and strategic partners.
- Specific proportion of tokens destined to the reserve of the company for its development and expansion.
- Use of smart contracts and a trusted platform to guarantee the transparency and security of the sale.
- KYC and AML process for participants of the Campaign.

The Initial Private Offering of the BEC token will be carried out subsequently until the Twenty-four thousand seven hundred and seventy-four thousand seven hundred and seventy-four (24,074,074,074) units available for sale are exhausted. The BECs for sale during the Initial Offering will be created and sold through an auditable mechanism on the blockchain.







# Information for the investor

## ISSUE AND DISTRIBUTION

The BEC token will be divisible in 250,000,000,000 units. The minimum unit of exchange will be called "Minimum Unit of Culture" or UMICO (0.00000001). Its issuance is associated with the production capacity of the Blackearths Project in a 20-year economic scenario.

A total of One Hundred Thirty Five Billion (250,000,000,000) BECs will be issued, of which Twenty Billion (37,037,037,037) will be offered to the market in two stages: a private Presale and a public Initial Offering, and will be distributed accordingly. Following way:

- 35% will be available for public sale.
- 65% will be available for Private Sale.

A total (12,962,962,963) will be issued to carry out crowdfunding or participatory financing. This system can be defined as an open call to raise funds for the execution of the pre-operational project of the project, which includes the token and its exchange house CryptoAgro Exchange over the Internet.

A total of (24,074,074,074) will be issued to carry out crowdfunding or private financing. This system can be defined as a closed call to investment funds to obtain resources for the execution of the Blackearths project through the Internet.

## PLANNING BLACKEARTHS PROJECT SCENARIOS SCENARIO 20 YEARS

PRODUCTION CAPACITY OF THE PROJECT \$114,530.95MM

DISCOUNT RATE 15.00%

NPV NET PRESENT VALUE \$114,754.62MM

INTERNAL RATE OF RETURN (IRR) 100.00%

INVESTMENT EFFICIENCY (EI) 144.48

PAYMENT PERIOD 2.5 YEARS

ASSETS INTEREST RATE 13.00%

COST BENEFIT RELATION 4.59

## INVESTMENT PHASE I CONSTRUCTION BLACKEARTHS

CONSTRUCTION OF BUILDINGS 191.72 M\$

ADQUISITION OF EQUIPMENTS \$247.07 million

PRE-OPERATING INVESTMENT \$253 million

GENERAL WORKS \$24 M

COMPLEMENTARY WORKS 80 M\$

CONTINGENCY \$34.21 M\$

WORKING CAPITAL 19 M\$

TOTAL TO INVEST 800 M\$

Financial analysis of the "Blackearths" project, the positive NPV of \$114,754.62 million indicates that the project is viable, since the present value of future cash flows exceeds the initial investment. The IRR of 100.00% suggests that the project will generate a return above 15.00%, which is the discount rate used, which also reinforces its viability.

The investment efficiency (EI) of 144.48 indicates that the project is efficient in financial terms, which means that it generates a high return compared to the associated costs.

The payment period of the project is 2.5 years, which indicates the time required to recover the initial investment. Furthermore, the cost-benefit ratio of 4.59 suggests that the expected benefits are approximately 4.59 times greater than the costs incurred.

It is important to consider that these financial analyzes are based on figures adjusted for inflation, which provides valid, current, truthful and precise financial information.





## Distribution of funds

The funds raised in the initial offering will allow for the continued technological development of BEC and its ecosystem, with the goal of fostering its mass adoption. The transparency of smart contracts on the blockchain will ensure the traceability and audibility of funds.

The funds raised in the Initial Offering will be distributed as follows:

### **Project Development - Initial Phase (43%):**

A significant part of the funds will be allocated to the comprehensive development of the project. This will include costs associated with detailed engineering, land acquisition, special studies and contracting with information technology companies, such as Alphapoint, ConsenSys, IDnow, as well as engineering consultancies such as AECOM and Jacobs Engineering Group, Novagric, ClimeWorks, Soltigua Solar tracking, GE Steam Power, among others. IT solution developers and local experts will also be employed to adapt and improve the token-related platform or product.

**Marketing and Promotion (27%):** A portion of the funds will be allocated to marketing and promotional activities to publicize the project and the token to the community and potential investors. A specialized company will be hired to manage advertising campaigns on various social networks, such as Facebook Business, Instagram for Business, Twitter Ads, LinkedIn Marketing Solutions and TikTok for Business. Additionally, events, public relations, and other marketing strategies will be employed to drive adoption and interest in the token.

### **Operations and General Expenses (20%):**

The funds will be used to cover the operating and general expenses of the project, such as office rent, public services, team salaries, legal and accounting advice, among others.

**Reserve and Contingencies (5%):** A part will be reserved to cover possible contingencies or unforeseen events that may arise during the development of the project. This will provide a reserve of funds to deal with unexpected situations or adapt to changes in the market.

**Associations and Strategic Alliances (5%):** A small part of the funds may be allocated to the formation of strategic associations or alliances with other companies or projects that provide additional value to the token and the ecosystem in general.

This distribution of funds seeks to ensure a comprehensive approach to the development and promotion of the project, while also contemplating the importance of having reserves to face potential challenges and adapt to changing market conditions. Blockchain transparency will ensure accountability and allow investors to track the destination of funds in a transparent and trustworthy manner.







## Token distribution

**Token creator partners: 9,259,259,259 tokens**

These tokens will go to the creative partners of the project and "The Exchange that supports us in the launch of our cryptocurrency", as a form of recognition for their initial contribution.

**Exchange Agrocrypto Blackearths: 46,296,296 tokens**

This group will be in charge of facilitating the exchange and negotiation of cryptocurrency. Allocating a significant number of tokens will provide them with liquidity and attractiveness for traders.

**Community and Marketing: 37,037,037.03 tokens**

This group will focus on promoting and increasing the adoption of cryptocurrency. Allocating a generous amount of tokens will allow them to run marketing campaigns, reward active community members, and encourage their participation.

**Partners of the land program: 18,518,518,518 tokens**

These are the strategic partners that will collaborate in the development and implementation of programs related to the use of cryptocurrency in sustainability and environmental projects and funds to attract non-profit resources.

**Market: 37,037,037,037 tokens**

These tokens will be used to establish liquidity in the market and allow smooth transactions. They can also be used to offer incentives to merchants that accept cryptocurrency as a form of payment.

**Auto Reserve Reserve: 18,518,518,518 tokens**

This pool of tokens can be used to purchase assets or services related to the infrastructure necessary to support the use and adoption of the cryptocurrency.

**Frozen Token: 18,518,518,518 tokens**

These tokens can be frozen and used for future upgrades, project development, or distribution at specific times or circumstances.

**Investors: 55,555,555,555 tokens**

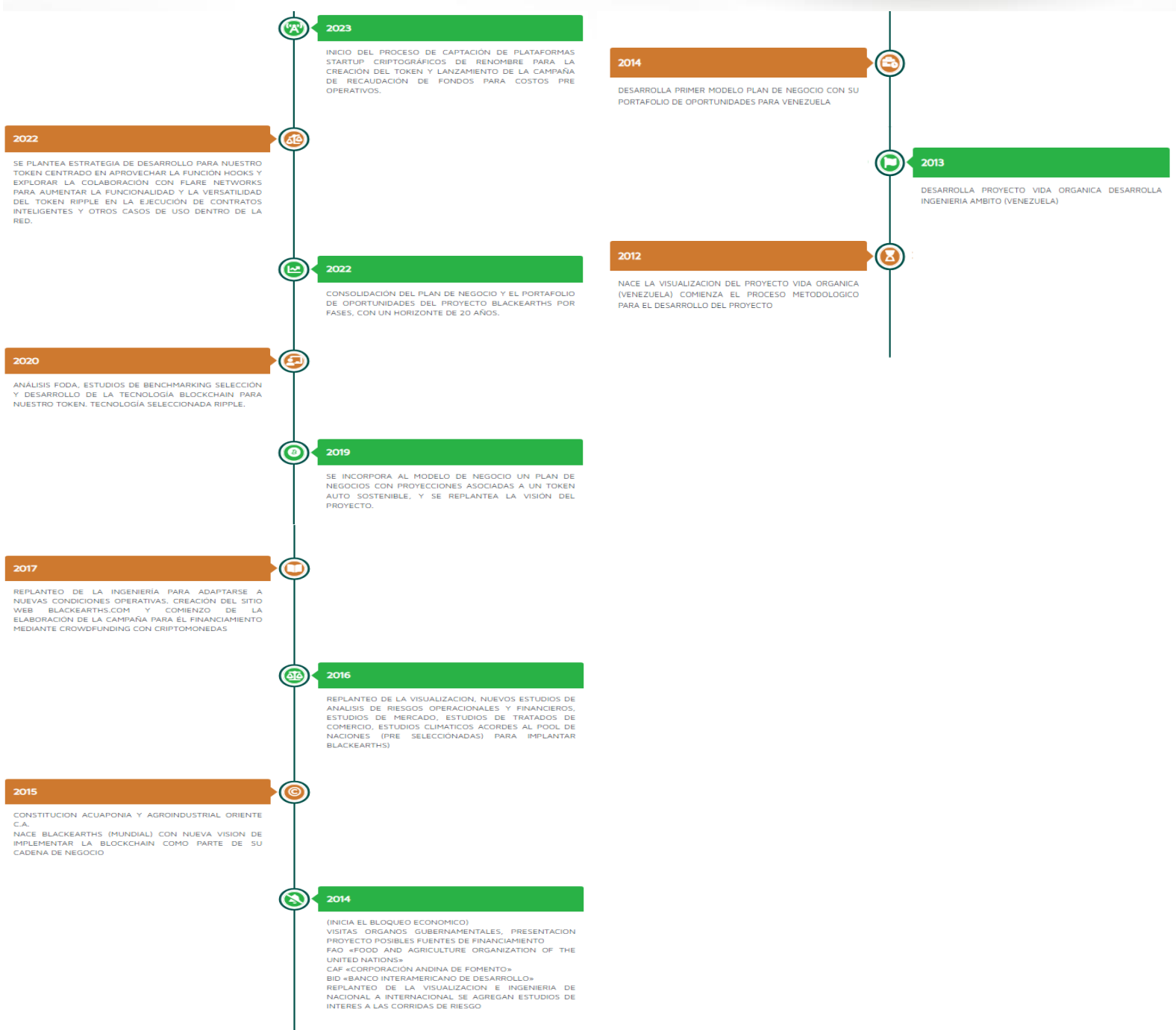
This allocation of tokens can go to the investors who supported the project from the beginning. The assigned tokens can be used as a form of reward and incentivize long-term investment.

**CRF-SFL Fund: 9,259,259,259 tokens**

This group will focus on using cryptocurrency as a way to help combat food shortages and support related charities.



# Road Map







## Buy and trade

The BEC can be acquired in the following ways:

Through the exchange of BEC tokens acquired in the Initial Presale

The purchase and exchange of the BEC can be carried out from person to person, from portfolio to portfolio, in a secure manner. Remaining outside the scope of blocks or arbitrary limitations of third parties unless it is in possession of a centralized entity, such as an exchange house.

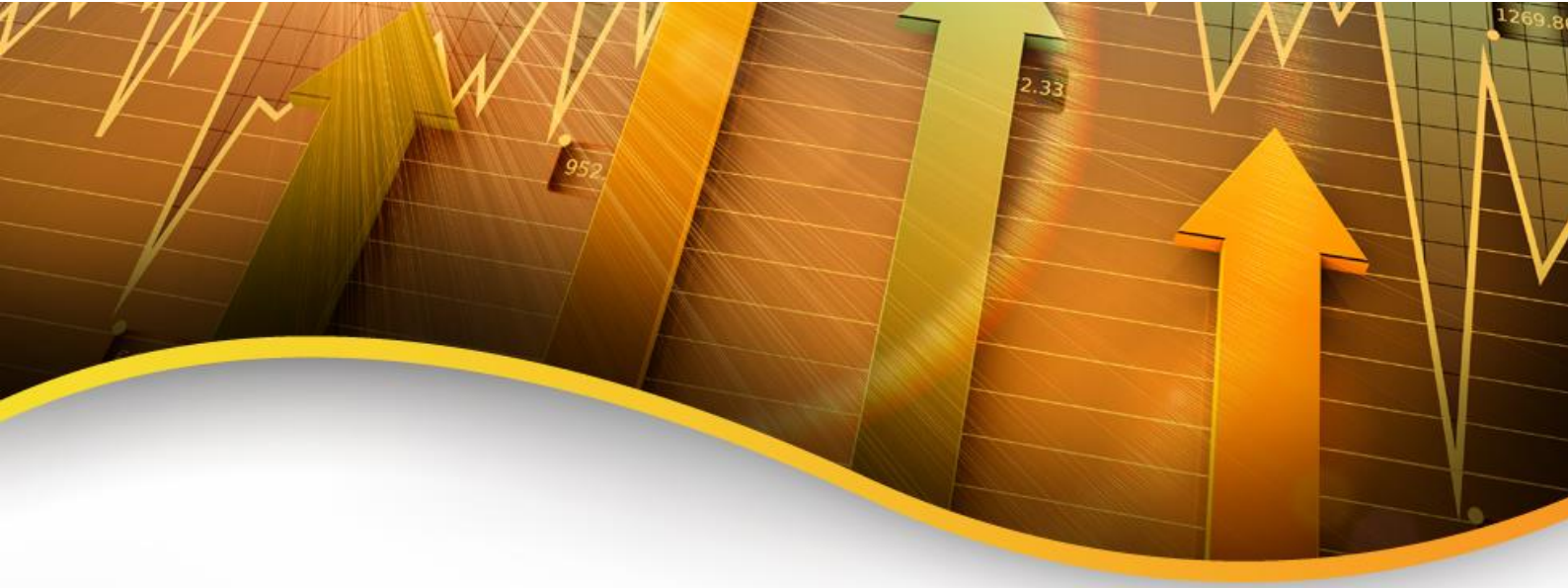
This ability of the BEC blockchain to execute direct exchange operations will allow the instrument to be used as a means of direct payment to shops, restaurants, goods and services companies.

However, it should be noted that digital exchange houses will play a fundamental monitoring role for the prevention of illegal activities and the fight against money laundering, therefore they will constitute the ideal means for commercial, industrial and business activities of international trade in in which the BEC interacts with fiat currencies or with other crypto assets or cryptocurrencies.



"CryptoAgro Exchange: Invest in the agricultural future and wake up from aestheticizing traps with our decentralized cryptocurrency!"





# Legal considerations and risk factors

## Legal note

This whitepaper is written to provide an overview of the future Agrocrypto Blackearths cryptocurrency exchange, the BEC token, and its token sale.

This whitepaper should not be considered a legally binding document. Blackearths team and payment partners will publish separate documents to serve the token purchase process. This white paper is not an offer, invitation, or solicitation to purchase BEC tokens. It is an informative and technical description of the project for the interested parties.

Participation in token sales as a form of investment carries certain risks. The Blackearths team and organization believe it is important that individuals who choose to invest by purchasing BEC tokens fully educate themselves on the token purchasing process and the risks involved in token ownership. You are urged to educate yourself fully about the BLACKEARTHS organization, the various risk factors involved with cryptocurrencies and ICO procedures, and the policies of payment service providers.

Forward-looking statements within this white paper should be construed as estimates and are not legally binding. Any statements regarding future developments of the project should be read critically and considered in their entirety before making any decision to purchase any tokens. No language within the current document is legally binding. No promise or speculation should be construed as an obligation on the part of the BLACKEARTHS team.

### JURISDICTION

The engineering of the BLACKEARTHS project is legally registered as Acuaponia y Agroindustrial Oriente CA in the Bolivarian Republic of Venezuela. But once the funds have been collected and in accordance with the licensing procedures to operate the cryptocurrency exchange, its fiscal address for the first year is located in LITHUANIA. Under the jurisdiction of its laws. Until you define your final tax address.

The BEC token is interpreted as a worthless token until it meets its collection goal and subsequent creation of its own ecosystem called CryptoAgro Blackearths, from that moment on it is considered a utility token, in accordance with international financial regulations. It is the responsibility of the potential token holder to inform themselves of the local laws in their home jurisdiction.


BLACKEARTHS has no responsibility for any taxes or other obligations that the token holder may have in their country as a result of involvement in the Blackearths project.

### NOTES ON TRANSLATION

This is the Spanish version of the white paper. Translations of this whitepaper are available. In the event of a translator's error or conflict between the different versions of this technical document, it will be interpreted that the Spanish version is the most authoritative.







# Legal considerations and risk factors

## Legal note

### **RISK FACTOR'S**

Interacting with BEC involves certain risks. The User must carefully consider all applicable risks and determine if they are acceptable to him. Without limitation, these risks include the following:

- **Risk of hardware, software or internet failure:** Given the nature of the Exchange business model and the types of services it offers, the company is dependent on the operation of software applications, computer hardware, the internet, and other computing infrastructure. The Blackearths team will and continues to make every effort to limit the risk of viruses, DDOS attacks, physical intrusions, and other malicious activities. Such interruptions may result in the suspension of the operations of the Exchange.
- **Limitations of the Ripple network and smart contract:** Smart contracts are still a new technology and are in an early stage of development. The experimental nature of smart contracts carries certain risks. While the best possible effort is made to audit the smart contract, the audit should not be seen as any kind of guarantee or guarantee that the smart contract is faultless. Additionally, the Ripple network may be affected by malicious acts or sudden changes that may negatively affect the value of the BEC token.
- **Partial or total loss of virtual assets and liquidity collapse with respect to a virtual asset.** The potential user should carefully consider whether holding digital assets is right for them with respect to their financial situation.
- **Extreme fluctuations in transaction fees and uncertainty regarding other transaction parameters.**
- **Regulatory uncertainty regarding virtual assets and government action against virtual assets and individuals involved in virtual asset activities.**

- **The value of cryptocurrencies and the fluctuation in rewards for the use of computing power:** The main service offered by the Agrocrypto Blackearths Exchange for BEC is the use of computing power for cryptocurrency blockchain networks. This type of service and the rewards from it directly depend on the price of various cryptocurrencies and the state of the economy, crypto or otherwise. Cryptocurrencies are often subject to volatile fluctuations in value. Before buying BEC tokens, all interested parties should educate themselves about these risks. Market fluctuations are likely to affect the value of the BEC token.

- **Information Disclosure:** Information collected from BEC token holders and tenants may be released to law enforcement, government officials, or other third parties, where the Exchange is required to do so by law, subpoena, or court order. The Team is not responsible in any way for the activities carried out to comply with international or national law.

- **Force Majeure:** Exchange AgroCrypto Blackearths shall not be liable for any failure or delay in performance of this Agreement during the period such failure or delay is beyond its reasonable control, materially affects the performance of any of its obligations, and could not have been foreseen, or reasonably anticipated. For the purposes of this project, force majeure means extraordinary events or circumstances that the team could not prevent. Such circumstances will include: acts of nature, mass civil disorder, armed conflict, industrial actions, lockouts and strikes, epidemic health crises, and prolonged shortages or failure of power sources or communications.

