FOODSPLY®

FEEDING THE FUTURE

WHITEPAPER V1.0

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Executive Summary

Foodsply helps farmers sell direct farm-to-fork. Foodsply allows smallholder farms to organize farming communities. This allows farmers to farm together, sell at real world prices, apply for credit and insurance products.

There are many challenges in agriculture including intentional mislabelling of farming inputs, farmers typically selling through whole sellers and middlemen and using records keeping systems that can be altered.

Foodsply puts farmers at the center of the supply chain; this means that value chain members are all created to serve farmers first. All the while providing a role for shipping packaging, inputs such as seeds, fertilizers and pesticides. Using Foodsply platform allows users to track and trace the source of food items from farm to fork; by creating a digital NFT, which represents real world assets. This could be food waste, corn, soybeans, storage equipment. Foodsply can mint all of them as a digital NFT's or digital twins that behave like real world assets.

In addition using immutable record keeping systems that share information transparently.

Gamification the platform allows users to earn badges based on user activity. This enables users to determine, what each community specializes in farm produce will have a life cycle along with real time value, for example minted maize assets will behave like it's a real world version life cycle of maize.

Mission

To empower farmers through community based agriculture

Vision

Build a frictionless food supply chain marketplace

What We Do

We orientate farmers, we cut out the middle man and pass the costs saving to the end consumer

Who We Serve

We are a group of visionaries, who are passionate about technology and making a change in the world

Who We Are

We are a group of technology specialist that love decentralized technology and improving the world through innovation.

Our Goals

- Make Food A Rite
- Organic Produce
- Decrease Obesity
- Change Relationship with Food
- To Increase Woman Ownership
- Sustainable Agriculture
- Do It Yourself Lifestyle
- Innovative Agriculture

Our Services

01
Mint Digital Assets
Transform real world assets into a digital NFT

02
Trade Food
Transform real world assets into a digital NFT

03
Track & Trace
Transparency how your food got from the farm to your table.

04
Gamified Assets
Real time pricing, food behaves like its real world version.

Market Analysis

The global agriculture market has experienced significant growth over the past decade, driven by increasing food demand, technological advancements, and improved farming practices.

As of 2023, the market is valued at approximately **$12 trillion**, with a projected compound annual growth rate (CAGR) of **4.1% from 2024 to 2029** (Statista, 2023).

01 Population Growth

The global population is expected to reach 9.7 billion by 2050, intensifying the demand for food (United Nations, 2019).

02 Technological Advancements

Innovations in biotechnology, precision farming, and agricultural machinery have enhanced productivity and efficiency (FAO, 2022).

03 Sustainability

Increasing awareness and regulatory support for sustainable farming practices are driving the adoption of organic and eco-friendly agricultural methods (OECD, 2021).

Agri-Food Value Chain

The global agriculture market has experienced significant growth over the past decade, driven by increasing food demand, technological advancements, and improved farming practices.

Small Holder Community Farmers	• Women • Urban Communities
Farm Inputs	• Fertilizer • Seeds
Warehouse	• Type of Packaging • Shipper
Retailer/Whole Seller/Middleman Customer	• Consumer • Product producer • Manufacturer
Up Cycler	• Transforms food waste • Utilizes food waste • Terraforms food waste
Verification	• Verify the existence of real world assets

Why Blockchain?

Foodsply recognizes the importance of collaboration in supply chain management to achieve common goals. This collaboration varies depending on the project and the business. Foodsply utilizes technology to combine agriculture, technology, land title management.

This approach reduces costs, minimizes risks, and increases transparency through operational collaboration.

01 Multi-Firm Collaboration

Enables sharing of resources, which avoids costly duplications of assets and resources. This sharing of resources creates additional value that would be difficult to achieve independently. Properly constructed collaboration helps mitigate market and supply risks for both parties. Risk is a negative uncertain impact on business, often beyond its control. By collaborating on agriculture activities and minimizing negative supply chain risks, stakeholders can reduce their exposure to risk.

02 Sharing Resources

Multi-firm collaboration helps share resources, and avoids duplications of costly resources and assets in a particular with regards to community.

03 Achieve Synergy

Multi-firm synergy, two or more things functioning together to produce a result not independently obtainable, creating additional value neither can achieve.

04 Risk Sharing

Properly constructed collaboration helps mitigate organizational market and supply risk for both parties, risk is the negative uncertain impact or business, which is normally beyond control; by collaboration on investments and managing negative supply chain risks.

05 Counter Party/Default Risk

Counterparty risk is the risk to each party of a contract that the counterparty will not live up to its contractual obligations. With smart contracts counterparty risk can be a zero-sum game; parties seeking to make an agreement can pledge amounts beforehand, these amounts can then be locked in using smart contracts, and thus an enforceable agreement protects both parties.

06 Community Based Wallets

Wallets will make the clearance and settlement process much easier. Tracking and tracing food from minting of digital twins and tracing the transaction on Foodsply blockchain.

Each party has their own wallet, which is generated and enforced by the Foodsply network.

Wallets will allow users to send, store and receive digital food or pay using food.

Contracts can create smart contract agreements that improve the clearance and settlement process. Each party will interact with each other through wallets; this information is also available for compliance, and governance. Privacy is also a large concern and we aim provide empowerment through privacy.

Drivers of Traceability Implementation

Governments

- Improving food safety and public health
- **Exports** - an important aspect if an important export target country (like China in Southeast Asia) requires traceability when importing livestock and food products
- Improving transparency in the food industry to fight markets, to gain more Value Added tax in the long term
- Mitigating multiple uses of antibiotics

Professional Organizations

- Defending represented brands from counterfeiting Improving exports.

Food supply chain companies

- Avoiding large scale recalls
- Improving exports
- Defending their brand from counterfeiting
- Improving Public Relations through credibility
- Avoiding redundant activities (e.g. double vaccination)

For both governmental and private implementations of Foodsply

Why Decentralized Physical Infrastructure Networks (DEPIN)?

Depin is an emerging trend in crypto; an avenue where hardware, software, and sensors are utilized for Internet of Things and act as a trust medium by providing real time asset status updates; very critical for minting and verify of digital NFT's. Digital assets, maize, soy beans will have real world implications by connecting the real world with digital world. These technologies will provide transparent verification allowing parties to mirror a digital twin (NFT).

Depin for I.O.T Connectivity of Digital Assets & Real World Assets

Community — Community based events agriculture.

Food Storage Data — Sharing warehouse data, storage temperature, supply, and more.

Gamification — Allow digital food assets to mimics real world version. Think poke-mon, but for agriculture assets.

Transparency An intermediary for validating the existence of real world assets.

Warehousing Connecting warehousing information to the real world assets.

Real-Time Value Real time asset valuation is critical that matches asset life cycle.

Trust Events Real time asset valuation is critical that matches asset life cycle.

Map & Hexagons

Hex tiles represent an area on the global map where agriculture is taking place. Users can tour the map to view different regions around the world and gain real-time insight with regards to agriculture and what's being grown through dash board analytics.

By utilizing community digital assets, real world community owned assets can be put to work and will behave like their real world versions.

Logistics and packaging can be mobilized by attaching a custom smart contract. Or staking their service capabilities to earn a yield on delivered produce sold.

Hexagons highlight, key environmental challenges, and transaction that effect the region food industry Rewards and penalties.

Foodsply being community driven allows users and regulators to vote on the value of each tile. Verification is done by precision agriculture, soil testing, utilizing agreed I.O.T hardware or trust systems, and regulation technologies.

Key Benefits

Food Verification
Track and trace food through the supply chain

Pay As-You-Go
Foodsply freemium, pay to unlock premium content.

Trade Digital Food
Users can trade the digital NFT that represents real world food.

Real Estate Title
Title management helps prevent gender based violence.

Role of Decentralized Autonomous Organizations

D.A.O, decentralized autonomous organizations will be a whims of the community in terms what produce grown should be rewarded or incentivized receive rewards or bonuses. By creating governance, Foodsply will be able to focus on sustainability and what's best for the environment.

Foundation for Rewards

Foodsply uses hex tiles, it represents real-time, weather and geo location, it will be utilized to provide specific incentives to grow food in a specific region or area; likewise a penalty can be given to food being grow in the wrong region.

Hex tiles on the global map where agriculture is taking place. Users can tour the map to view different regions around the world and gain realtime insight with regards to agriculture and what's being grown through dash board analytics.

High Value Supplier Zone

Foodsply goal is to make food a rite, in order to fulfill this goal the concept of high value supplier exist. Farmers and value chain members earn rewards for growing food, packaging food, and delivering, storing and staking food from food insecure regions.

An example of this would be a group of logistics and packaging value chain members; delivering to regions that are food insecure. An additional alternative has farmers growing produce in regions with poor soil quality earning rewards that provide high value.

By utilizing community digital assets, real world community owned assets can be put to work and will behave like their real world versions.

Hexagons highlight, key environmental challenges, and transaction that effect the region food industry Rewards and penalties.

In addition registered and verified digital assets such as logistics can be staked, by doing this a delivery driver would earn a yield which creates transportation liquidity earning a % of whatever produce is delivered or sold; in the real world the delivery driver would be transporting goods; this involves putting assets to work.

Likewise digital assets like maize can once verified can be staked. Once the maize matures to harvest users earn yield.

Users can tour the map to view different regions around the world and gain real-time insight with regards to agriculture and what's being grown through dash board analytics.

By utilizing community digital assets, real world community owned assets can be put to work and will behave like their real world versions.Hexagons highlight, key agriculture challenges, and transaction that effect the global food industry.

Verification Mapping

The network verifies its transaction through incentivized yields.

01 Anonymous Participant Network

These parties are a part of the ecosystem. They are rewarded with yields and value in return for verification of real-world assets.

02 Assets Verification Technology

These parties are a part of the ecosystem. They are rewarded with yields and value in return for verification of real-world assets.

Precision Agriculture Drone	Various key information about soil and crops development.
Community	Unique moments taken during plan life cycle.
Government	Extreme precision, governments will have fast efficient policing.
Network	Foodsply verification acts as a validator.
Sensor Networks	Infrastructure devices that reports real-time information about the state of an asset. For Example weather temperature of stored grain silo.

Asset Minting

To mint a mirror (digital agriculture) asset (mAsset), an issuer must lock up > 190% of a verified asset or lock the current asset value in stable coins or wrapped currency as collateral. If the value of the asset rises above the collateralization threshold, the collateral is liquidated to guarantee solvency of the system.

To burn a mAsset, the issuer must burn the equal amount of (mAssets) issued when opening the CDP - the collateral is then returned to the issuer.

Coin Burn

Coins can be burned through end of asset life cycle for specific digital assets.

Circulating Supply (150 Billion)

To mint a Mirror asset (mAsset), an issuer must lock up > 190% of the current asset value in stablecoins OR mAssets as collateral.

Creating Loans

If the value of the asset rises above the collateralization threshold, the collateral is liquidated to guarantee solvency of the system.

To burn a mAsset, the issuer must burn the equal amount of mAssets issued when opening the CDP - the collateral is then returned to the issuer.

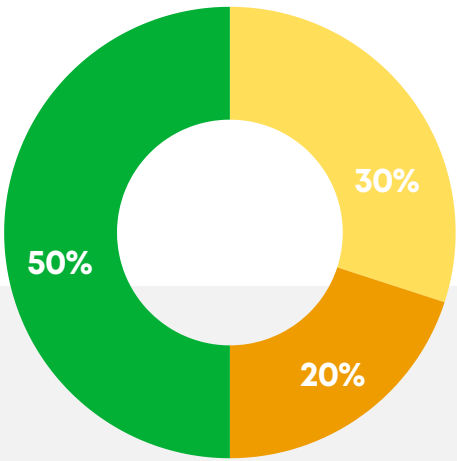
Token Details

Role of Token	• Transact • Profit Sharing Rights • Staking • DEFI/Mirror
Token Supply	100,000,000,000
Distributed in ICO	10,000,000 million
Blockchain	Ethereum
Consensus Method	Proof of Stake

The Foodsply blockchain allows you to review after a specific amount of blocks. Manage develop of new blockchains revolve around food. Community based agriculture provides farmers with the organization to sell their produce internationally, at real world prices.

Hex tiles represent an area on the global map where agriculture is taking place. Users can tour the map to view different regions around the world and gain real-time insight with regards to agriculture and what's being grown through dash board analytics.

Foodsply Token Distribution System



Team
Will be utilized to fund operation.

High Value Rewards
For farmers and value chain members increasing food supply, and production to food scarce regions.

Foodsply Reserve
Can be used in yield farming, funding events, governance, voting as well as trading.

Conclusion

The Foodsply conceptual framework aims to address the challenges faced by the food production and consumption industry in the face of changing consumer preferences and a complex sales chain. With the help of blockchain technology, the Foodsply platform intends to provide a comprehensive and feasible solution for individuals and organizations alike.

The potential of blockchain technology is immense and can be leveraged to provide a transparent and secure system for the food industry. By utilizing Foodsply, regulatory bodies can easily identify and report instances of fraudulent conduct, thereby increasing the incidence of food safety and quality control.

The phased implementation of Food coin, the proprietary cryptocurrency of Foodsply, is designed to showcase its significance and mitigate potential volatility resulting from increased demand. The Foodsply ecosystem is user-friendly and multifunctional, aimed at expediting the commencement of a new phase in the advancement of the food production and consumption industry.

The overall objective of Foodsply is to provide a scalable and sustainable solution that benefits the entire food supply chain, from producers to consumers. By working together with stakeholders, including regulatory bodies, industry professionals, and consumers, Foodsply aims to transform the food industry into a more transparent, sustainable, and trustworthy system for all.

Legal Disclamer

The information provided in this whitepaper is for general informational purposes only. It does not constitute legal, financial, or professional advice. The creators and authors of this whitepaper are not responsible for any errors or omissions or for any actions taken based on the information provided.

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The Foodsply project involves the use of blockchain technology and cryptocurrencies, which carry inherent risks, including regulatory and legal risks, technological vulnerabilities, and market volatility. It is important to conduct thorough research, seek professional advice, and carefully consider your own circumstances before engaging in any activities related to the Foodsply project.

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Before making any decisions or taking any actions related to the Foodsply project, it is recommended to consult with legal, financial, and other relevant professionals who can provide guidance tailored to your specific needs and circumstances