

# **BLC TECHNOLOGIES**



## **BLOCKCHAIN IN FOOD TRACEABILITY**

### **CONTACT**

- **C.L.BRIJESH**
- **9788226611**
- **[cl.brijesh@gmail.com](mailto:cl.brijesh@gmail.com)**

# TEAM MEMBERS

**C.L.BRIJESH (CEO)- Visionary**

**RIYASHINI R (COO)- Organizer**

**SANTHOSH K (CMO)-Strategist**

**WILFRED VIJAYAKUMAR .K(CFO) -  
FINANCIAL ANALYST**



**CEO**



**COO**



**CMO**

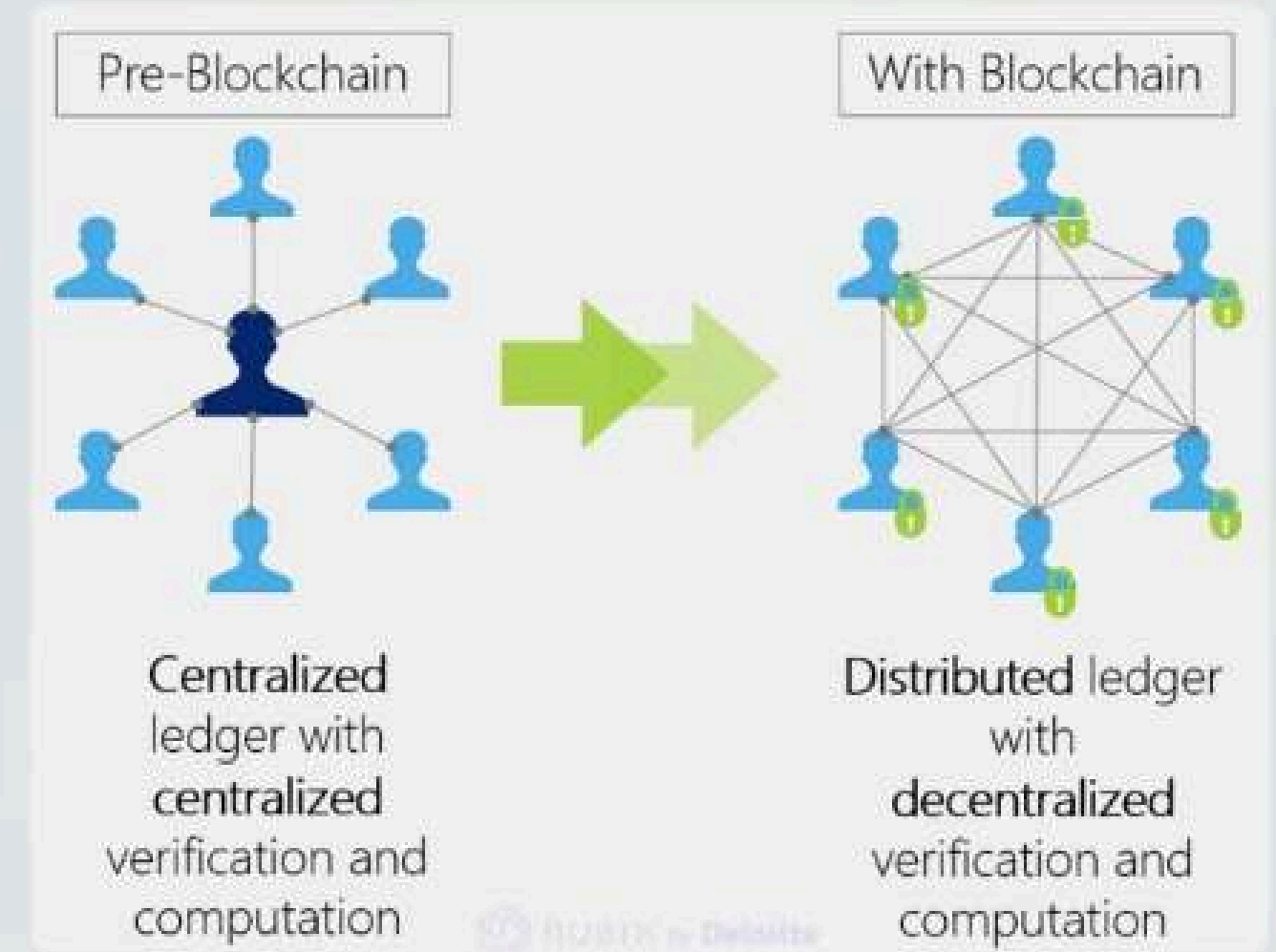


**CFO**



# Blockchain Technology Overview

Blockchain is a distributed, decentralized ledger technology that allows for the secure and transparent recording of transactions and data. Each block in the chain contains a number of transactions, and every time a new transaction occurs, a record of that transaction is added to every participant's ledger. The decentralized nature of blockchain ensures that the data is immutable and cannot be altered, providing a tamper-proof record of all activities within the network.



# Problem Statement

## 1 Food Safety Concerns

Food recalls and outbreaks of foodborne illnesses are a persistent problem, often due to the difficulty in quickly identifying the source of contamination and the movement of products through the complex supply chain.

## 2 Lack of Transparency

Consumers are increasingly demanding more information about the origin, processing, and handling of the food they purchase. However, the current food supply chain lacks the necessary transparency to satisfy this demand.

## 3 Supply Chain Inefficiencies

Inefficient tracking and tracing of food products can lead to waste, delays, and difficulties in recalling affected products, resulting in financial and reputational losses for businesses.



# Current Challenges in Food Traceability

1

## Fragmented Supply Chains

The food supply chain involves multiple parties, from farmers and manufacturers to distributors and retailers, making it challenging to track the movement of products across the entire chain.

2

## Reliance on Paper-based Records

Many businesses in the food industry still rely on paper-based documentation and manual processes, which are prone to errors and difficulty in data sharing and collaboration.

3

## Lack of Transparency

Consumers are increasingly demanding more information about the origin, processing, and sustainability of the food they consume, but current systems often fail to provide this level of visibility.

4

## Compliance Challenges

Regulatory requirements for food traceability are constantly evolving, and businesses struggle to keep up with these changes while maintaining efficient operations.

# Benefits of Blockchain in Food Traceability

## Enhanced Food Safety

Blockchain enables rapid identification and isolation of contaminated or recalled products, reducing the impact of food safety incidents and protecting consumer health.

1

## Increased Consumer Trust

Consumers can access detailed information about the origin, processing, and handling of their food, boosting their confidence in the safety and quality of the products they purchase.

2

3

## Improved Supply Chain Efficiency

By providing real-time visibility and transparency throughout the supply chain, blockchain can help optimize logistics, reduce waste, and increase operational efficiency.

StartUs insights

211

STARTUPS ANALYZED

## Discover 5 Top Blockchain-based Food Traceability Solutions



This Global Startup Heat Map illustrates geographical distribution of 211 analyzed as well as 5 selected startups. Data from August 2021.

# Our Solution

We have developed a robust blockchain-based platform that addresses the key challenges in food traceability. Our solution leverages the power of blockchain to create a secure, transparent, and decentralized system that seamlessly tracks the movement of food products from farm to table. By integrating smart contracts, IoT sensors, and intuitive data visualization tools, we empower businesses to optimize their supply chain operations, ensure food safety, and meet evolving regulatory requirements.

# Key Features of Our Platform



## Smart Contracts

Automate and enforce supply chain agreements, ensuring compliance and reducing the risk of disputes.



## Supplier Management

Onboard and manage suppliers, track their performance, and ensure adherence to quality standards.



## Data Analytics

Leverage real-time data and advanced analytics to uncover insights, optimize operations, and make informed decisions.



## Consumer Portal

Provide consumers with complete transparency into the origin and journey of the food they purchase.





# Business Model and Revenue Streams

1

## Subscription Fees

Businesses and suppliers pay a recurring fee to access the platform and its suite of traceability and supply chain management tools.

2

## Transaction Fees

A small fee is charged for each transaction recorded on the blockchain, generating revenue based on the volume of food products tracked.

3

## Data Analytics

Our platform offers advanced data analytics services, providing actionable insights to businesses and enabling them to optimize their operations and decision-making.

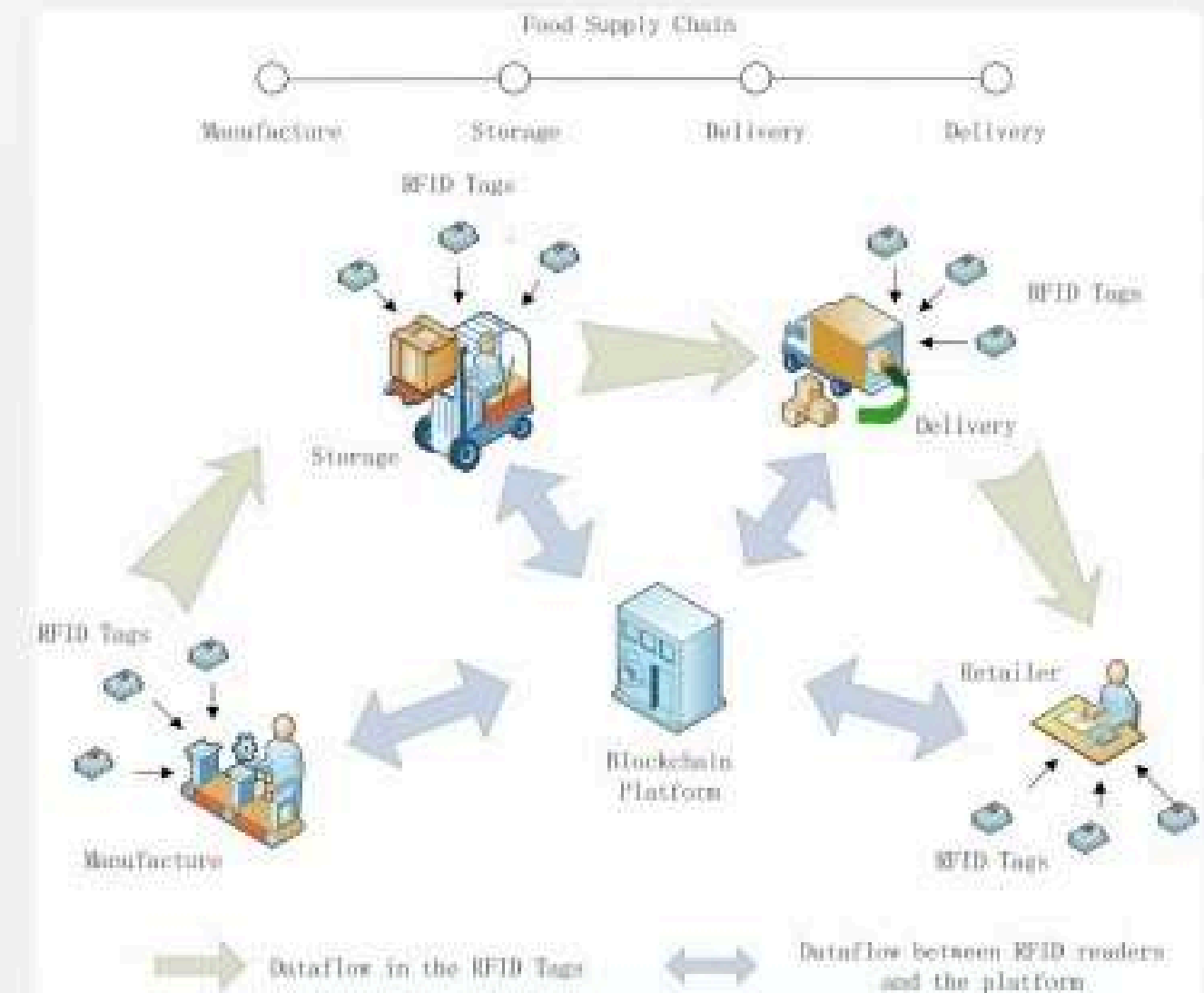
# BLOCKCHAIN



RETRO CONSCIOUS

# Roadmap and Future Developments

Our roadmap includes continuous enhancements and new feature additions to our blockchain-based platform. In the near future, we plan to expand our IoT integrations, develop mobile applications for greater accessibility, and explore the integration of artificial intelligence and machine learning to unlock more advanced supply chain insights. Additionally, we will continue to engage with industry partners, regulatory bodies, and research institutions to ensure our solution stays at the forefront of food traceability innovation.



★ TURN ★  
IDEAS INTO  
REALITY

