

# **Blockchain in Agriculture and Food Market - A Global and Regional Analysis: Focus on Applications, Products, and Country-Wise Analysis - Analysis and Forecast, 2021-2026**

<https://marketpublishers.com/r/B7FF01976C07EN.html>

Date: January 2022

Pages: 218

Price: US\$ 5,250.00 (Single User License)

ID: B7FF01976C07EN

## **Abstracts**

Hard copy option is available on any of the options above at an additional charge of \$500. Please email us at [order@marketpublishers.com](mailto:order@marketpublishers.com) with your request.

Market Report Coverage - Blockchain in Agriculture and Food

Market Segmentation

Application - Supply Chain Tracking, Finance Management, Data Management, Land and Property Ownership, and Others

Type - Public Blockchain, Private Blockchain, and Hybrid Blockchain

Stakeholder - Growers, Food Manufacturers and Retailers

Organization - Large Enterprises, Small and Medium Enterprises (SMEs)

Provider - Application and Solution Provider, Middleware Provider, Infrastructure and Protocol Provider

Regional Segmentation

North America - U.S., Canada, Mexico, and Rest-of-North America

South America - Argentina, Brazil, and Rest-of-South America

Europe - Malta, Estonia, Switzerland, and Rest-of-Europe

U.K.

Middle East and Africa - U.A.E., South Africa, Saudi Arabia, and Rest-of-Middle East and Africa

China

Asia-Pacific - Japan, Thailand, Singapore, and Rest-of-Asia-Pacific

## Market Growth Drivers

Need for Transparency in Supply Chain

Government Initiatives to Promote Blockchain in Agriculture

Stringent Rules and Regulations to Comply With Sustainability Requirements

## Market Challenges

Lack of Awareness and Technical Know-How

Lack of Standardized Data

Issues with Data Management

## Market Opportunities

Increasing in Funds and Investments in Agri-Blockchain

Complexity in Supply Chains

Development of the Small Farmers' Cooperatives

## Key Companies Profiled

Blockchain Technology Solution Providers: AgriChain Pty Ltd., Ambrosus, arc-net, Bext 360, Coin 22, Filament, FoodCoin Ecosystem, Full Profile Pty Ltd, IBM Corporation, Obook Holdings Inc. (OwlTing), OriginTrail, Project Provenance Ltd., Ripe Technology Inc., Microsoft Corporation, SAP SE, TE-Food International GmbH

Retailers Using Blockchain Technology: Walmart, Alibaba Group, The Kroger Co.

Food Processors Using Blockchain Technology: Nestle S.A., Tyson Foods Inc., Danone

Agricultural OEMs Using Blockchain Technology: Deere & Company, AGCO Corporation, CNH Industrial N.V.

Food Distributors Using Blockchain Technology: Sysco Corporation, McLane Company

Agricultural Commodity Traders Using Blockchain Technology: Louis Dreyfus Company B.V., Cargill Inc., Archer Daniels Midland Company, Bunge Limited

## How This Report Can Add Value

This report will help with the following objectives:

Covering the product, application, and regional market estimations for the blockchain in agriculture and food market.

Extensive competitive benchmarking of the top 15 players has been done to offer a holistic view of the global blockchain in agriculture and food market landscape.

Product/Innovation Strategy: The product segment helps the reader in understanding the different types of blockchain technologies in agriculture and foods available for deployment in the agriculture and food industry and their potential globally. Moreover, the study provides the reader a detailed understanding of the different blockchain applications in agriculture and foods by type (public, private, and hybrid/consortiums), by organization (large enterprise, and small and mid-size enterprises), by product

provider (application and solution provider, middleware provider and infrastructure and protocol provider), and by application (supply chain tracking, financial management, and others).

## Recent Developments in Blockchain in Agriculture and Food Market

In November 2021, OriginTrail launched Acala by bringing its decentralized knowledge graph to Acala's developer ecosystem.

In May 2021, Provenance announced a new public, open-source, decentralized, permissionless, proof-of-stake blockchain, which is mainly designed and established to support financial service industry needs by delivering a ledger, registry, as well as exchange across multiple financial assets and markets.

In October 2019, IBM had launched a blockchain-based supply chain service that comes with AI and IoT integration.

In May 2019, Taiwan blockchain company OwlTing launched the OBS platform offering commercial solutions with blockchain technology, mainly in biotech, logistics, smart agriculture, automobiles, and food industries.

In August 2018, Ambrosus launched Mainnet to improve supply chain transparency. Ambrosus now offers a blockchain and IoT platform – AMB-NET 1.0 – for quality assurance in food and pharmaceutical supply chains.

## Key Questions Answered in the Report

What is the estimated global blockchain in agriculture and food size in terms of revenue for the forecast period 2021-2026, and what is the expected compound annual growth rate (CAGR) during the forecast period 2021-2026?

What are the key trends, market drivers, and opportunities in the market pertaining to blockchain in agriculture and food market?

What are the major restraints inhibiting the growth of the global blockchain in agriculture and food market?

What kinds of new strategies are being adopted by the existing market players

to strengthen their market position in the industry?

What is the competitive strength of the key players in the blockchain in agriculture and food market based on an analysis of their recent developments, product offerings, and regional presence?

How is the competitive benchmarking of the key blockchain in agriculture and food companies in the agriculture market based on the analysis of their market coverage and market potential?

How much revenue is each segment expected to record during the forecast period, along with the growth percentage? The segments are as follows:

Product, including providers (application and solution provider, middleware provider and infrastructure and protocol provider).

Application, including by type (public, private, and hybrid/consortiums), by organization (large enterprise, and small and mid-size enterprises), by application (supply chain tracking, financial management and others).

Region, including North America, the U.K., Europe, Asia-Pacific, China, the Middle East and Africa, and South America

What is the type of players and stakeholders operating in the market ecosystem of blockchain in agriculture and food, and what is their significance in the global market?

## Blockchain in Agriculture and Food

The agriculture and food market required a lot of inconsistent paperwork and dependency on paper-based documentation. Blockchain provides a systematic digital ledger for storing land records and other data, keeping it safe during natural calamities.

Blockchain technology will be a revolutionary change as it offers tamper-proof, precise statistics about the farms, inventory, credit scores, and food tracking.

The blockchain in the agriculture and food market is still in the developing phase. Increased research and development activities are underway to develop blockchain

technology, which is expected to increase the technology adoption by retailers, food processors, and food distributors.

## Blockchain in Agriculture and Food Industry Overview

The global blockchain in agriculture and food market was valued at \$139.6 million in 2020, which is expected to grow with a CAGR of 51.0% and reach \$1,488.0 million by 2026. The growth in the global blockchain in agriculture and food market is expected to be driven by the increased need for transparency in the food supply chain and supportive government initiatives.

## Impact of COVID-19

The outbreak of the COVID-19 pandemic and related policies imposed by governments of different countries significantly restricted both the business schedules along with the suppliers' & customers' business schedules, mainly in the first fiscal quarter of 2020. Additionally, the downturn in blockchain investments, as well as delays in project developments and postponement and cancellation of major blockchain & cryptocurrency conventions, was caused due to the pandemic. These events mainly aid in the education as well as the marketing of blockchain technology.

## Market Segmentation

### Blockchain in Agriculture and Food Market by Type

A public blockchain is a type of blockchain that provides open access to the public and that anyone can join without specific permission. This segment dominates compared to a private and hybrid type blockchain system because everyone who enters the network can read, record, and participate in this network that no one controls.

### Blockchain in Agriculture and Food Market by Organization

Large enterprises can offer an innovation-based approach to their clients to customize solutions that suit every supply chain's necessity. This allows companies to achieve higher requirements in the market.

### Blockchain in Agriculture and Food Market by Stakeholder

The growers are slightly more dominating than food retailers or manufacturers. This is

due to more adoption rates of blockchain technologies by growers such as farmers. The introduction of blockchain into the agricultural supply chain is foreseen as a new way to give farmers an increased stake in the supply chain and more ways to distribute their products across consumers.

### Blockchain in Agriculture and Food Market by Provider

The application and solution provider segment is anticipated to dominate the market and grow robustly during the forecast time. The introduction of enhanced technological solutions has undergone significant adoption in the industry, which has boosted the overall market growth.

### Blockchain in Agriculture and Food Market by Application

With increasing pilot cases for blockchain in the agricultural supply chain, stakeholders have begun to see high potential for increasing transparency. The arrival of blockchain is also seen as timely because of the rising demand for supply chain transparency and traceability motivated by the increasing number of food outbreaks and food-borne illnesses.

### Blockchain in Agriculture and Food Market by Region

North America generated the highest revenue of \$81.2 million in 2020. The U.S. dominated the blockchain innovation landscape in the region, with the maximum number of investments and pilot projects being tested in the country. The region is expected to witness high growth of CAGR 48.5% during the forecast period 2021-2026.

### Key Market Players

Key players operating in the global blockchain in agriculture and food market analyzed and profiled in the study involve blockchain technology solution providers, retailers, food processors, agricultural OEMs, food distributors, and agricultural commodity traders using blockchain technology.

Some of the key players operating in the market include AgriChain Pty Ltd., Ambrosus, arc-net, Bext 360, Coin 22, Filament, FoodCoin Ecosystem, Full Profile Pty Ltd, IBM Corporation, Obook Holdings Inc. (OwlTing), OriginTrail, Project Provenance Ltd., Ripe Technology Inc., Microsoft Corporation, SAP SE, TE-Food International GmbH and others.

## Contents

### 1 MARKETS

#### 1.1 Industry Outlook

##### 1.1.1 Market Definition

##### 1.1.2 Supply Chain Analysis

##### 1.1.3 Ecosystem of Blockchain in Agriculture and Food Market

#### 1.2 Business Dynamics

##### 1.2.1 Business Drivers

###### 1.2.1.1 Need for Transparency in Supply Chain

###### 1.2.1.2 Government Initiatives to Promote Blockchain in Agriculture

###### 1.2.1.3 Stringent Rules and Regulations to Comply With Sustainability Requirements

##### 1.2.2 Business Challenges

###### 1.2.2.1 Lack of Awareness and Technical Know-How

###### 1.2.2.2 Lack of Standardized Data

###### 1.2.2.3 Issues with Data Management

##### 1.2.3 Business Opportunities

###### 1.2.3.1 Increasing in Funds and Investments in Agri-Blockchain

###### 1.2.3.2 Complexity in Supply Chains

###### 1.2.3.3 Development of the Small Farmers' Cooperatives

##### 1.2.4 Business Strategies

###### 1.2.4.1 Product Development

##### 1.2.5 Corporate Strategies

###### 1.2.5.1 Partnership and Collaboration

###### 1.2.5.2 Others

#### 1.3 Investment Landscape

#### 1.4 Impact of COVID-19 on Global Blockchain in Agriculture and Food Market

### 2 APPLICATION

#### 2.1 Global Blockchain in Agriculture and Food Market (by Application)

##### 2.1.1 Supply Chain Tracking

##### 2.1.2 Finance Management

##### 2.1.3 Data Management

##### 2.1.4 Land and Property Ownership

##### 2.1.5 Others

#### 2.2 Demand Analysis of the Global Blockchain in Agriculture and Food Market (by Application)



## 2.3 Blockchain in Agriculture and Food Market (by Type)

### 2.3.1 Public Blockchain

### 2.3.2 Private Blockchain

### 2.3.3 Hybrid Blockchain

## 2.4 Demand Analysis of the Global Blockchain in Agriculture and Food Market (by Type)

## 2.5 Blockchain in Agriculture and Food Market (by Stakeholder)

### 2.5.1 Growers

### 2.5.2 Food Manufacturers and Retailers

## 2.6 Demand Analysis of the Global Blockchain in Agriculture and Food Market (by Stakeholder)

## 2.7 Global Blockchain in Agriculture and Food Market (by Organization)

### 2.7.1 Large Enterprises

### 2.7.2 Small and Medium Enterprises (SMEs)

## 2.8 Demand Analysis Global Blockchain in Agriculture and Food Market (by Organization)

# 3 PRODUCTS

## 3.1 Global Blockchain in Agriculture and Food Market (by Provider)

### 3.1.1 Application and Solution Provider

### 3.1.2 Middleware Provider

### 3.1.3 Infrastructure and Protocol Provider

## 3.2 Demand Analysis Global Blockchain in Agriculture and Food Market (by Provider)

## 3.3 Patent Analysis

### 3.3.1 Patent Analysis (by Status)

### 3.3.2 Patents Analysis (by Organization)

# 4 REGION

## 4.1 North America

### 4.1.1 Market

#### 4.1.1.1 Key Blockchain Service Providers in North America

#### 4.1.1.2 Business Drivers

#### 4.1.1.3 Business Challenges

### 4.1.2 Type

#### 4.1.2.1 North America Blockchain in Agriculture and Food Market (by Type)

### 4.1.3 Organization

#### 4.1.3.1 North America Blockchain in Agriculture and Food Market (by Organization)

### 4.1.4 Stakeholder

- 4.1.4.1 North America Blockchain in Agriculture and Food Market (by Stakeholder)
- 4.1.5 Provider
  - 4.1.5.1 North America Blockchain in Agriculture and Food Market (by Provider)
- 4.1.6 Application
  - 4.1.6.1 North America Blockchain in Agriculture and Food Market (by Application)
- 4.1.7 North America (by Country)
- 4.1.8 North America (by Country)
  - 4.1.8.1 U.S.
    - 4.1.8.1.1 Market
      - 4.1.8.1.1.1 Buyer Attributes
      - 4.1.8.1.1.2 Key Blockchain Service Providers Operating in the U.S.
      - 4.1.8.1.1.3 Business Challenges
      - 4.1.8.1.1.4 Business Drivers
  - 4.1.8.2 Canada
    - 4.1.8.2.1 Market
      - 4.1.8.2.1.1 Buyer Attributes
      - 4.1.8.2.1.2 Key Blockchain Service Providers Operating in Canada
      - 4.1.8.2.1.3 Business Challenges
      - 4.1.8.2.1.4 Business Drivers
  - 4.1.8.3 Mexico
    - 4.1.8.3.1 Market
      - 4.1.8.3.1.1 Buyer Attributes
      - 4.1.8.3.1.2 Key Blockchain Service Providers Operating in Mexico
      - 4.1.8.3.1.3 Business Challenges
      - 4.1.8.3.1.4 Business Drivers
  - 4.1.8.4 Rest-of North America
    - 4.1.8.4.1 Market
      - 4.1.8.4.1.1 Buyer Attributes
      - 4.1.8.4.1.2 Key Blockchain Service Providers Operating in the Rest-of-North America
      - 4.1.8.4.1.3 Business Challenges
      - 4.1.8.4.1.4 Business Drivers
- 4.2 Europe
  - 4.2.1 Market
    - 4.2.1.1 Key Blockchain Service Providers Operating in Europe
    - 4.2.1.2 Business Drivers
    - 4.2.1.3 Business Challenges
  - 4.2.2 Type
    - 4.2.2.1 Europe Blockchain in Agriculture and Food Market (by Type)

#### 4.2.3 Organization

##### 4.2.3.1 Europe Blockchain in Agriculture and Food Market (by Organization)

#### 4.2.4 Stakeholder

##### 4.2.4.1 Europe Blockchain in Agriculture and Food Market (by Stakeholder)

#### 4.2.5 Provider

##### 4.2.5.1 Europe Blockchain in Agriculture and Food Market (by Provider)

#### 4.2.6 Application

##### 4.2.6.1 Europe Blockchain in Agriculture and Food Market (by Application)

#### 4.2.7 Europe (by Country)

##### 4.2.7.1 Malta

###### 4.2.7.1.1 Market

###### 4.2.7.1.1.1 Buyer Attributes

###### 4.2.7.1.1.2 Key Blockchain Service Providers Operating in Malta

###### 4.2.7.1.1.3 Business Challenges

###### 4.2.7.1.1.4 Business Drivers

##### 4.2.7.2 Estonia

###### 4.2.7.2.1 Market

###### 4.2.7.2.1.1 Buyer Attributes

###### 4.2.7.2.1.2 Key Blockchain Service Providers Operating in Estonia

###### 4.2.7.2.1.3 Business Challenges

###### 4.2.7.2.1.4 Business Drivers

##### 4.2.7.3 Switzerland

###### 4.2.7.3.1 Market

###### 4.2.7.3.1.1 Buyer Attributes

###### 4.2.7.3.1.2 Key Blockchain Service Providers Operating in Switzerland n

###### 4.2.7.3.1.3 Business Challenges

###### 4.2.7.3.1.4 Business Drivers

##### 4.2.7.4 Rest-of-Europe

###### 4.2.7.4.1 Market

###### 4.2.7.4.1.1 Buyer Attributes

###### 4.2.7.4.1.2 Key Blockchain Service Providers Operating in the Rest-of-Europe

###### 4.2.7.4.1.3 Business Challenges

###### 4.2.7.4.1.4 Business Drivers

#### 4.3 U.K.

##### 4.3.1 Market

###### 4.3.1.1 Buyer Attributes

###### 4.3.1.2 Key Blockchain Service Providers Operating in the U.K.

###### 4.3.1.3 Business Challenges

###### 4.3.1.4 Business Drivers

#### 4.3.2 Type

##### 4.3.2.1 U.K. Blockchain in Agriculture and Food Market (by Type)

#### 4.3.3 Organization

##### 4.3.3.1 U.K. Blockchain in Agriculture and Food Market (by Organization)

#### 4.3.4 Stakeholder

##### 4.3.4.1 U.K. Blockchain in Agriculture and Food Market (by Stakeholder)

#### 4.3.5 Provider

##### 4.3.5.1 U.K. Blockchain in Agriculture and Food Market (by Provider)

#### 4.3.6 Application

##### 4.3.6.1 U.K. Blockchain in Agriculture and Food Market (by Application)

### 4.4 South America

#### 4.4.1 Market

##### 4.4.1.1 Key Blockchain Service Providers Operating in South America

##### 4.4.1.2 Business Drivers

##### 4.4.1.3 Business Challenges

#### 4.4.2 Type

##### 4.4.2.1 South America Blockchain in Agriculture and Food Market (by Type)

#### 4.4.3 Organization

##### 4.4.3.1 South America Blockchain in Agriculture and Food Market (by Organization)

#### 4.4.4 Stakeholder

##### 4.4.4.1 South America Blockchain in Agriculture and Food Market (by Stakeholder)

#### 4.4.5 Provider

##### 4.4.5.1 South America Blockchain in Agriculture and Food Market (by Provider)

#### 4.4.6 Application

##### 4.4.6.1 South America Blockchain in Agriculture and Food Market (by Application)

#### 4.4.7 South America (by Country)

##### 4.4.7.1 Brazil

###### 4.4.7.1.1 Market

###### 4.4.7.1.1.1 Buyer Attributes

###### 4.4.7.1.1.2 Key Blockchain Service Providers Operating in the Brazil

###### 4.4.7.1.1.3 Business Challenges

###### 4.4.7.1.1.4 Business Drivers

##### 4.4.7.2 Argentina

###### 4.4.7.2.1 Market

###### 4.4.7.2.1.1 Buyer Attributes

###### 4.4.7.2.1.2 Key Blockchain Service Providers Operating in Argentina

###### 4.4.7.2.1.3 Business Challenges

###### 4.4.7.2.1.4 Business Drivers

##### 4.4.7.3 Rest-of-South America

#### 4.4.7.3.1 Market

##### 4.4.7.3.1.1 Buyer Attributes

##### 4.4.7.3.1.2 Key Blockchain Service Providers Operating in Rest-of-South America

##### 4.4.7.3.1.3 Business Challenges

##### 4.4.7.3.1.4 Business Drivers

### 4.5 China

#### 4.5.1 Market

##### 4.5.1.1 Buyer Attributes

##### 4.5.1.2 Key Blockchain Service Providers Operating in China

##### 4.5.1.3 Business Challenges

##### 4.5.1.4 Business Drivers

#### 4.5.2 Type

##### 4.5.2.1 China Blockchain in Agriculture and Food Market (by Type)

#### 4.5.3 Organization

##### 4.5.3.1 China Blockchain in Agriculture and Food Market (by Organization)

#### 4.5.4 Stakeholder

##### 4.5.4.1 China Blockchain in Agriculture and Food Market (by Stakeholder)

#### 4.5.5 Provider

##### 4.5.5.1 China Blockchain in Agriculture and Food Market (by Provider)

#### 4.5.6 Application

##### 4.5.6.1 China Blockchain in Agriculture and Food Market (by Application)

### 4.6 Asia-Pacific

#### 4.6.1 Market

##### 4.6.1.1 Key Blockchain Service Providers Operating in Asia-Pacific

##### 4.6.1.2 Business Drivers

##### 4.6.1.3 Business Challenges

#### 4.6.2 Type

##### 4.6.2.1 Asia-Pacific Blockchain in Agriculture and Food Market (by Type)

#### 4.6.3 Organization

##### 4.6.3.1 Asia-Pacific Blockchain in Agriculture and Food Market (by Organization)

#### 4.6.4 Stakeholder

##### 4.6.4.1 Asia-Pacific Blockchain in Agriculture and Food Market (by Stakeholder)

#### 4.6.5 Provider

##### 4.6.5.1 Asia-Pacific Blockchain in Agriculture and Food Market (by Provider)

#### 4.6.6 Application

##### 4.6.6.1 Asia-Pacific Blockchain in Agriculture and Food Market (by Application)

#### 4.6.7 Asia-Pacific (by Country)

##### 4.6.7.1 Japan

##### 4.6.7.1.1 Market

- 4.6.7.1.1.1 Buyer Attributes
- 4.6.7.1.1.2 Key Blockchain Service Providers Operating in Japan
- 4.6.7.1.1.3 Business Challenges
- 4.6.7.1.1.4 Business Drivers
- 4.6.7.2 Thailand
  - 4.6.7.2.1 Market
    - 4.6.7.2.1.1 Buyer Attributes
    - 4.6.7.2.1.2 Key Blockchain Service Providers Operating in Thailand
    - 4.6.7.2.1.3 Business Challenges
    - 4.6.7.2.1.4 Business Drivers
- 4.6.7.3 Singapore
  - 4.6.7.3.1 Market
    - 4.6.7.3.1.1 Buyer Attributes
    - 4.6.7.3.1.2 Key Blockchain Service Providers Operating in Singapore
    - 4.6.7.3.1.3 Business Challenges
    - 4.6.7.3.1.4 Business Drivers
- 4.6.7.4 Rest-of-Asia-Pacific
  - 4.6.7.4.1 Market
    - 4.6.7.4.1.1 Buyer Attributes
    - 4.6.7.4.1.2 Key Blockchain Service Providers Operating in Rest-of-Asia-Pacific
    - 4.6.7.4.1.3 Business Challenges
    - 4.6.7.4.1.4 Business Drivers
- 4.7 Middle East and Africa
  - 4.7.1 Market
    - 4.7.1.1 Key Blockchain Service Providers Operating in Middle East and Africa
    - 4.7.1.2 Business Drivers
    - 4.7.1.3 Business Challenges
  - 4.7.2 Type
    - 4.7.2.1 Middle East and Africa Blockchain in Agriculture and Food Market (by Type)
  - 4.7.3 Organization
    - 4.7.3.1 Middle East and Africa Blockchain in Agriculture and Food Market (by Organization)
  - 4.7.4 Stakeholder
    - 4.7.4.1 Middle East and Africa Blockchain in Agriculture and Food Market (by Stakeholder)
  - 4.7.5 Provider
    - 4.7.5.1 Middle East and Africa Blockchain in Agriculture and Food Market (by Provider)
  - 4.7.6 Application

4.7.6.1 Middle East and Africa Blockchain in Agriculture and Food Market (by Application)

4.7.7 Middle East and Africa (by Country)

4.7.7.1 U.A.E.

4.7.7.1.1 Market

4.7.7.1.1.1 Buyer Attributes

4.7.7.1.1.2 Key Blockchain Service Providers Operating in the U.A.E.

4.7.7.1.1.3 Business Challenges

4.7.7.1.1.4 Business Drivers

4.7.7.2 Saudi Arabia

4.7.7.2.1 Market

4.7.7.2.1.1 Buyer Attributes

4.7.7.2.1.2 Key Blockchain Service Providers Operating in Saudi Arabia

4.7.7.2.1.3 Business Challenges

4.7.7.2.1.4 Business Drivers

4.7.7.3 South Africa

4.7.7.3.1 Market

4.7.7.3.1.1 Buyer Attributes

4.7.7.3.1.2 Key Blockchain Service Providers Operating in South Africa

4.7.7.3.1.3 Business Challenges

4.7.7.3.1.4 Business Drivers

4.7.7.4 Rest-of-Middle East and Africa

4.7.7.4.1 Market

4.7.7.4.1.1 Buyer Attributes

4.7.7.4.1.2 Key Blockchain Service Providers Operating in Rest-of-Middle East and Africa

4.7.7.4.1.3 Business Challenges

4.7.7.4.1.4 Business Drivers

## **5 MARKETS - COMPETITIVE BENCHMARKING & COMPANY PROFILES**

5.1 Competitive Benchmarking

5.2 Market Share Analysis

5.2.1 Market Share Analysis of Global Blockchain in Agriculture and Food Companies

5.3 Company Profile

5.3.1 Blockchain Technology Solution Providers

5.3.1.1 AgriChain Pty Ltd.

5.3.1.1.1 Company Overview

5.3.1.1.1.1 Role of AgriChain Pty Ltd. in the Global Blockchain in Agriculture and

## Food Market

### 5.3.1.1.1.2 Product Portfolio

### 5.3.1.1.2 Strengths and Weaknesses of AgriChain Pty Ltd.

## 5.3.1.2 Ambrosus

### 5.3.1.2.1 Company Overview

#### 5.3.1.2.1.1 Role of Ambrosus in the Global Blockchain in Agriculture and Food

## Market

### 5.3.1.2.1.2 Product Portfolio

### 5.3.1.2.1.3 Key Developments

### 5.3.1.2.2 Strengths and Weaknesses of Ambrosus

## 5.3.1.3 arc-net

### 5.3.1.3.1 Company Overview

#### 5.3.1.3.1.1 Role of arc-net in the Global Blockchain in Agriculture and Food Market

### 5.3.1.3.1.2 Product Portfolio

### 5.3.1.3.1.3 Key Developments

### 5.3.1.3.2 Strengths and Weaknesses of arc-net

## 5.3.1.4 Bext

### 5.3.1.4.1 Company Overview

#### 5.3.1.4.1.1 Role of Bext 360 in the Global Blockchain in Agriculture and Food

## Market

### 5.3.1.4.1.2 Product Portfolio

### 5.3.1.4.1.3 Key Developments

### 5.3.1.4.2 Strengths and Weaknesses of Bext

## 5.3.1.5 Coin

### 5.3.1.5.1 Company Overview

#### 5.3.1.5.1.1 Role of Coin 22 in the Global Blockchain in Agriculture and Food

## Market

### 5.3.1.5.1.2 Product Portfolio

### 5.3.1.5.2 Strengths and Weaknesses of Coin

## 5.3.1.6 Filament

### 5.3.1.6.1 Company Overview

#### 5.3.1.6.1.1 Role of Filament in the Global Blockchain in Agriculture and Food

## Market

### 5.3.1.6.1.2 Product Portfolio

### 5.3.1.6.1.3 Key Developments

### 5.3.1.6.2 Strengths and Weaknesses of Filament

## 5.3.1.7 FoodCoin Ecosystem

### 5.3.1.7.1 Company Overview

#### 5.3.1.7.1.1 Role of FoodCoin Ecosystem in the Global Blockchain in Agriculture



and Food Market

5.3.1.7.1.2 Product Portfolio

5.3.1.7.2 Strengths and Weaknesses of FoodCoin Ecosystem

5.3.1.8 Full Profile Pty Ltd

5.3.1.8.1 Company Overview

5.3.1.8.1.1 Role of Full Profile Pty Ltd in the Global Blockchain in Agriculture and Food Market

5.3.1.8.1.2 Product Portfolio

5.3.1.8.2 Strengths and Weaknesses of Full Profile Pty Ltd

5.3.1.9 IBM Corporation

5.3.1.9.1 Company Overview

5.3.1.9.1.1 Role of IBM Corporation in the Global Blockchain in Agriculture and Food Market

5.3.1.9.1.2 Product Portfolio

5.3.1.9.1.3 Key Developments

5.3.1.9.2 Strengths and Weaknesses of IBM Corporation

5.3.1.10 Obook Holdings Inc. (OwlTing)

5.3.1.10.1 Company Overview

5.3.1.10.1.1 Role of Obook Holdings Inc. in the Global Blockchain in Agriculture and Food Market

5.3.1.10.1.2 Product Portfolio

5.3.1.10.1.3 Key Developments

5.3.1.10.2 Strengths and Weaknesses of Obook Holdings Inc.

5.3.1.11 OriginTrail

5.3.1.11.1 Company Overview

5.3.1.11.1.1 Role of OriginTrail in the Global Blockchain in Agriculture and Food Market

5.3.1.11.1.2 Product Portfolio

5.3.1.11.1.3 Key Developments

5.3.1.11.2 Strengths and Weaknesses of OriginTrail

5.3.1.12 Project Provenance Ltd.

5.3.1.12.1 Company Overview

5.3.1.12.1.1 Role of Project Provenance Ltd. in the Global Blockchain in Agriculture and Food Market

5.3.1.12.1.2 Product Portfolio

5.3.1.12.1.3 Key Developments

5.3.1.12.2 Strengths and Weaknesses of Project Provenance Ltd.

5.3.1.13 Ripe Technology Inc.

5.3.1.13.1 Company Overview

#### 5.3.1.13.1.1 Role of Ripe Technology Inc. in the Global Blockchain in Agriculture and Food Market

##### 5.3.1.13.1.2 Product Portfolio

##### 5.3.1.13.1.3 Key Developments

#### 5.3.1.13.2 Strengths and Weaknesses of Ripe Technology Inc.

#### 5.3.1.14 Microsoft Corporation

##### 5.3.1.14.1 Company Overview

##### 5.3.1.14.2 Role of Microsoft Corporation in Global Blockchain in Agriculture Market

##### 5.3.1.14.3 Product Portfolio

##### 5.3.1.14.4 Key Development

##### 5.3.1.14.5 Strength and Weakness of Microsoft Corporation

#### 5.3.1.15 SAP SE

##### 5.3.1.15.1 Company Overview

##### 5.3.1.15.2 Role of SAP SE in Global Blockchain in Agriculture Market

##### 5.3.1.15.3 Product Portfolio

##### 5.3.1.15.4 Key Development

##### 5.3.1.15.5 Strengths and Weaknesses of SAP SE

#### 5.3.1.16 TE-Food International GmbH

##### 5.3.1.16.1 Company Overview

##### 5.3.1.16.1.1 Role of TE-Food International GmbH in the Global Blockchain in Agriculture and Food Market

##### 5.3.1.16.1.2 Product Portfolio

##### 5.3.1.16.1.3 Key Developments

#### 5.3.1.16.2 Strengths and Weaknesses of TE-Food International GmbH

#### 5.3.2 Retailers Using Blockchain Technology

##### 5.3.2.1 Walmart

##### 5.3.2.1.1 Company Overview

##### 5.3.2.2 Alibaba Group

##### 5.3.2.2.1 Company Overview

##### 5.3.2.3 The Kroger Co.

##### 5.3.2.3.1 Company Overview

#### 5.3.3 Food Processors Using Blockchain Technology

##### 5.3.3.1 Nestle S.A.

##### 5.3.3.1.1 Company Overview

##### 5.3.3.2 Tyson Foods Inc.

##### 5.3.3.2.1 Company Overview

##### 5.3.3.3 Danone

##### 5.3.3.3.1 Company Overview

#### 5.3.4 Agricultural OEMs Using Blockchain Technology

#### 5.3.4.1 Deere & Company

##### 5.3.4.1.1 Company Overview

#### 5.3.4.2 AGCO Corporation

##### 5.3.4.2.1 Company Overview

#### 5.3.4.3 CNH Industrial N.V.

##### 5.3.4.3.1 Company Overview

#### 5.3.5 Food Distributors Using Blockchain Technology

##### 5.3.5.1 Sysco Corporation

###### 5.3.5.1.1 Company Overview

##### 5.3.5.2 McLane Company

###### 5.3.5.2.1 Company Overview

#### 5.3.6 Agricultural Commodity Traders Using Blockchain Technology

##### 5.3.6.1 Louis Dreyfus Company B.V.

###### 5.3.6.1.1 Company Overview

##### 5.3.6.2 Cargill Inc.

###### 5.3.6.2.1 Company Overview

##### 5.3.6.3 Archer Daniels Midland Company

###### 5.3.6.3.1 Company Overview

##### 5.3.6.4 Bunge Limited

###### 5.3.6.4.1 Company Overview

## 6 RESEARCH METHODOLOGY

### 6.1 Data Sources

#### 6.1.1 Primary Data Sources

#### 6.1.2 Secondary Data Sources

#### 6.1.3 Data Triangulation

### 6.2 Market Estimation and Forecast

## List Of Figures

### LIST OF FIGURES

Figure 1: Global Blockchain in Agriculture and Food Market, \$Million, 2020-2026

Figure 2: Market Drivers and Challenges in Global Blockchain in Agriculture and Food Market

Figure 3: Global Blockchain in Agriculture and Food Market (by Type), \$Million, 2020 and 2026

Figure 4: Global Blockchain in Agriculture and Food Market (by Organization), \$Million, 2020 and 2026

Figure 5: Global Blockchain in Agriculture and Food Market (by Stakeholder), \$Million, 2020 and 2026

Figure 6: Global Blockchain in Agriculture and Food Market (by Provider), \$Million, 2020 and 2026

Figure 7: Global Blockchain in Agriculture and Food Market (by Application), \$Million, 2020 and 2026

Figure 8: Global Blockchain in Agriculture and Food Market (by Region), \$Million, 2020

Figure 9: Global Blockchain in Agriculture and Food Market Coverage

Figure 10: Blockchain in Agriculture and Food Supply Chain

Figure 11: Global Blockchain in Agriculture and Food Market Ecosystem

Figure 12: Share of Key Market Strategies and Developments, January 2018–November 2021

Figure 13: Share of Key Market Strategies and Developments by Major Market Players, January 2018–November 2021

Figure 14: Global Blockchain in Agriculture and Food Market (by Application)

Figure 15: Features of Blockchain-Powered Supply Chain

Figure 16: Benefits of Blockchain in Agriculture Finance

Figure 17: Type of Finance Management Application

Figure 18: Types of Data Management Applications

Figure 19: Importance of Record Keeping

Figure 20: Types of Blockchain in Agriculture and Food Market

Figure 21: Global Blockchain in Agriculture and Food Market, (by Type), \$Million, 2020-2026

Figure 22: Public Blockchain Network

Figure 23: Private Blockchain Network

Figure 24: Hybrid Blockchain Network

Figure 25: Advantages of Blockchain for Growers

Figure 26: Blockchain for Food Manufacturers and Retailers

- Figure 27: Global Blockchain in Agriculture and Food Market (by Organization)
- Figure 28: Global Blockchain in Agriculture and Food Market (by Provider)
- Figure 29: Global Blockchain in Agriculture and Food Patent Trend (2005-2021)
- Figure 30: Year-Wise Total Number of Patents for Global Blockchain in Agriculture and Food Market (January 2015-December 2021)
- Figure 31: Patent Analysis (by Status), January 2015-December 2021
- Figure 32: Year-Wise Total Patents Filed or Granted for Global Blockchain in Agriculture and Food Market (January 2015-December 2021)
- Figure 33: Patents Analysis (by Organization), January 2015-December 2021
- Figure 34: Competitive Market High and Low Matrix
- Figure 35: Market Share Analysis of Blockchain in Agriculture and Food Companies, 2020
- Figure 36: Global Blockchain in Agriculture and Food Market: Research Methodology
- Figure 37: Data Triangulation
- Figure 38: Top-Down and Bottom-Up Approach
- Figure 39: Assumptions and Limitations

## List Of Tables

### LIST OF TABLES

Table 1: Product Development (by Company), January 2018–November 2021

Table 2: Partnership and Collaboration (by Company), January 2018–November 2021

Table 3: Key Investments Made by Players Operating in the Global Blockchain in Agriculture and Food Market

Table 4: Blockchain Products for Payment in Agriculture

Table 5: Blockchain Products for Product Provenance Data in Agriculture

Table 6: Global Blockchain in Agriculture and Food Market (by Application), \$Million, 2020-2026

Table 7: Global Blockchain in Agriculture and Food Market (by Type), \$Million, 2020-2026

Table 8: Global Blockchain in Agriculture and Food Market (by Stakeholder), \$Million, 2020-2026

Table 9: Large Enterprises Using Blockchain in their Operations

Table 10: SMEs and their Initiatives Toward Blockchain Integration

Table 11: Global Blockchain in Agriculture and Food Market (by Organization), \$Million, 2020-2026

Table 12: Product Offerings by Application and Solution Providers

Table 13: Product Offerings by Middleware Provider

Table 14: Product Offerings by Infrastructure and Protocol Provider

Table 15: Global Blockchain in Agriculture and Food Market (by Provider), \$Million, 2020-2026

Table 16: Global Blockchain in Agriculture and Food Market (by Region), \$Million, 2020-2026

Table 17: North America Blockchain in Agriculture and Food Market (by Type), \$Million, 2020-2026

Table 18: North America Blockchain in Agriculture and Food Market (by Organization), \$Million, 2020-2026

Table 19: North America Blockchain in Agriculture and Food Market (by Stakeholder), \$Million, 2020-2026

Table 20: North America Blockchain in Agriculture and Food Market (by Provider), \$Million, 2020-2026

Table 21: North America Blockchain in Agriculture and Food Market (by Application), \$Million, 2020-2026

Table 22: North America Blockchain in Agriculture and Food Market (by Country), \$Million, 2020-2026

Table 23: Europe Blockchain in Agriculture and Food Market (by Type), \$Million, 2020-2026

Table 24: Europe Blockchain in Agriculture and Food Market (by Organization), \$Million, 2020-2026

Table 25: Europe Blockchain in Agriculture and Food Market (by Stakeholder), \$Million, 2020-2026

Table 26: Europe Blockchain in Agriculture and Food Market (by Provider), \$Million, 2020-2026

Table 27: Europe Blockchain in Agriculture and Food Market (by Application), \$Million, 2020-2026

Table 28: Europe Blockchain in Agriculture and Food Market (by Country), \$Million, 2020-2026

Table 29: U.K. Blockchain in Agriculture and Food Market (by Type), \$Million, 2020-2026

Table 30: U.K. Blockchain in Agriculture and Food Market (by Organization), \$Million, 2020-2026

Table 31: U.K. Blockchain in Agriculture and Food Market (by Stakeholder), \$Million, 2020-2026

Table 32: U.K. Blockchain in Agriculture and Food Market (by Provider), \$Million, 2020-2026

Table 33: U.K. Blockchain in Agriculture and Food Market (by Application), \$Million, 2020-2026

Table 34: South America Blockchain in Agriculture and Food Market (by Type), \$Million, 2020-2026

Table 35: South America Blockchain in Agriculture and Food Market (by Organization), \$Million, 2020-2026

Table 36: South America Blockchain in Agriculture and Food Market (by Stakeholder), \$Million, 2020-2026

Table 37: South America Blockchain in Agriculture and Food Market (by Provider), \$Million, 2020-2026

Table 38: South America Blockchain in Agriculture and Food Market (by Application), \$Million, 2020-2026

Table 39: South America Blockchain in Agriculture and Food Market (by Country), \$Million, 2020-2026

Table 40: China Blockchain in Agriculture and Food Market (by Type), \$Million, 2020-2026

Table 41: China Blockchain in Agriculture and Food Market (by Organization), \$Million, 2020-2026

Table 42: China Blockchain in Agriculture and Food Market (by Stakeholder), \$Million, 2020-2026



2020-2026

Table 43: China Blockchain in Agriculture and Food Market (by Provider), \$Million, 2020-2026

Table 44: China Blockchain in Agriculture and Food Market (by Application), \$Million, 2020-2026

Table 45: Asia-Pacific Blockchain in Agriculture and Food Market (by Type), \$Million, 2020-2026

Table 46: Asia-Pacific Blockchain in Agriculture and Food Market (by Organization), \$Million, 2020-2026

Table 47: Asia-Pacific Blockchain in Agriculture and Food Market (by Stakeholder), \$Million, 2020-2026

Table 48: Asia-Pacific Blockchain in Agriculture and Food Market (by Provider), \$Million, 2020-2026

Table 49: Asia-Pacific Blockchain in Agriculture and Food Market (by Application), \$Million, 2020-2026

Table 50: Asia-Pacific Blockchain in Agriculture and Food Market (by Country), \$Million, 2020-2026

Table 51: Middle East and Africa Blockchain in Agriculture and Food Market (by Type), \$Million, 2020-2026

Table 52: Middle East and Africa Blockchain in Agriculture and Food Market (by Organization), \$Million, 2020-2026

Table 53: Middle East and Africa Blockchain in Agriculture and Food Market (by Stakeholder), \$Million, 2020-2026

Table 54: Middle East and Africa Blockchain in Agriculture and Food Market (by Provider), \$Million, 2020-2026

Table 55: Middle East and Africa Blockchain in Agriculture and Food Market (by Application), \$Million, 2020-2026

Table 56: Middle East and Africa Blockchain in Agriculture and Food Market (by Country), \$Million, 2020-2026

Table 57: AgriChain Pty Ltd.: Product Portfolio

Table 58: Ambrosus: Product Portfolio

Table 59: Ambrosus: Key Developments

Table 60: arc-net: Product Portfolio

Table 61: arc-net: Key Developments

Table 62: Bext 360: Product Portfolio

Table 63: Bext 360: Key Developments

Table 64: Coin 22: Product Portfolio

Table 65: Filament: Product Portfolio

Table 66: Filament: Key Developments



Table 67: FoodCoin Ecosystem: Product Portfolio
Table 68: Full Profile Pty Ltd: Product Portfolio
Table 69: IBM Corporation: Product Portfolio
Table 70: IBM Corporation: Key Developments
Table 71: Obook Holdings Inc.: Product Portfolio
Table 72: Obook Holdings Inc.: Key Developments
Table 73: OriginTrail: Product Portfolio
Table 74: OriginTrail: Key Developments
Table 75: Project Provenance Ltd.: Product Portfolio
Table 76: Project Provenance Ltd.: Key Developments
Table 77: Ripe Technology Inc.: Product Portfolio
Table 78: Ripe Technology Inc.: Key Developments
Table 79: Microsoft Corporation: Product Portfolio
Table 80: Microsoft Corporation: Key Developments
Table 81: SAP SE: Product Portfolio
Table 82: SAP SE: Key Developments
Table 83: TE-Food International GmbH: Product Portfolio
Table 84: TE-Food International GmbH: Key Developments

## I would like to order

Product name: Blockchain in Agriculture and Food Market - A Global and Regional Analysis: Focus on Applications, Products, and Country-Wise Analysis - Analysis and Forecast, 2021-2026

Product link: <https://marketpublishers.com/r/B7FF01976C07EN.html>

Price: US\$ 5,250.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/B7FF01976C07EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

