

Global Blockchain in Agriculture and Food Market: Focus on Stakeholders, Regulations, Application (Supply Chain Tracking, Finance Management, Data Management, and Land and Property Ownership) and Regional Adoption - Analysis & Forecast 2018-2028

https://marketpublishers.com/r/GB0E4EF46420EN.html

Date: October 2018

Pages: 176

Price: US\$ 5,000.00 (Single User License)

ID: GB0E4EF46420EN

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 with your request.

Since the early 2000s, the global agricultural industry has witnessed a massive transformation owing to the increasing demand for sustainable farming practices. Rising global population and high-income growth in urban population have resulted in growing concerns of food security across the world. Various agricultural start-ups and technology innovators are developing numerous sustainable farming systems. One of the most disruptive technologies in the field of smart agriculture has been the digitization of supply chain. Since 2013, agri-food industry's interest in blockchain has rapidly evolved with multiplying pilot projects and companies dedicated to the swift development of technology. The advantages of blockchain technology for agriculture widely range from farmers to retailers to traders and to food companies. Eminent technology companies are striking collaborations with global logistics firms, food producers and retailers to develop effective applications of blockchain in agriculture and food sector to ensure improved data management, reduced transaction costs, augmented logistics, and robust food safety and traceability protocols.

The market research study offers a wide perspective of the different types of applications pertaining to blockchain in agriculture and food and analyzes its impact on the farming sector by providing critical insights into the direction of its future expansion. The study provides a detailed analysis of the market ecosystem, supply chain and



regional growth for blockchain in agriculture and food technologies. The research is based on extensive primary interviews (in-house experts, industry leaders, and market players) and secondary research (a host of paid and unpaid databases), along with the analytical tools that have been used to build the forecast and the predictive models.

This study was designed to answer some of the most crucial questions about the blockchain in agriculture and food market:

What is the global blockchain in agriculture & food market size in terms of revenue from 2017-2028 along with the growth rate during the forecast period 2018-2028?

How will the year-on-year growth differ across different phases of growth during the forecast period 2018-2028?

What is the revenue generated of blockchain solutions for different applications in agriculture and food industry including supply chain tracking, finance management, data management, land and property ownership, and others from 2017-2028 and growth rate during the forecast period of 2018-2028?

What is the blockchain in agriculture and food market size for different regions across the world including North America, Europe, Asia-Pacific, and Rest-of-the-World?

What is the current scenario of the regulatory landscape of global blockchain in agriculture and food market and how will it shape up in the next 10 years?

What are the key global and regional trends and opportunities in the market pertaining to the blockchain technology?

What are the different use-cases of blockchain in agriculture and food industry?

How attractive is the market for different stakeholders present in the industry by analyzing the futuristic scenario of blockchain technology?

What are the major driving forces that tend to increase the demand for blockchain in global agriculture and food industry during the forecast period?



What are the major challenges inhibiting the growth of the global blockchain in agriculture & food market?

How are the consortiums and associations impacting the global blockchain in agriculture and food market?

What is the competitive strength of the key players in the global blockchain in agriculture & food market by analyzing their recent developments, product offerings, and regional presence?

How has been the funding landscape in global blockchain in agriculture & food market?

The report is a compilation of various segmentations including market breakdown by application and region. The report highlights the key driving and restraining forces for this market as well as the market opportunities in different application segments such as supply chain tracking, financial management, data management, and land and property ownership, among others. The report also outlines the ecosystem of blockchain in agriculture and food market and provides a robust analysis of the key stakeholders across the supply chain. In the extensive primary research process undertaken for this study, the primary sources further include industry experts and key executives from prominent companies and organizations in the blockchain in agriculture and food industry.

Moreover, the report consists of a comprehensive analysis of blockchain in agriculture and food market for different geographical regions. The blockchain in agriculture and food market holds a prominent share in various countries of North America, Europe, Asia-Pacific (APAC) and Rest-of-the-World (RoW). Each geographical region analysis details individual driving and restraining forces acting in the market in addition to the key players from that particular region.



Contents

EXECUTIVE SUMMARY

1 BLOCKCHAIN TECHNOLOGY - OVERVIEW

- 1.1 Introduction
- 1.2 Types of Consensus Protocols
 - 1.2.1 Proof of Work (PoW)
 - 1.2.2 Proof of Stake (PoS)
- 1.3 Blockchain Structure
- 1.3.1 Foundational Elements of Blockchain
- 1.3.2 Types of Blockchain
 - 1.3.2.1 Public Blockchain
- 1.3.2.2 Private Blockchain
- 1.3.2.3 Hybrid Blockchain
- 1.4 Overview Blockchain in Agriculture and Food Industry

2 MARKET DYNAMICS

- 2.1 Market Drivers
 - 2.1.1 Lack of Transparency in Agricultural Supply Chain
 - 2.1.2 Increasing Need for Food Safety and Traceability
 - 2.1.3 Need for Efficient Financial Transactions
- 2.2 Market Restraints
 - 2.2.1 Uncertain Legal Framework
 - 2.2.2 Lack of Awareness and Technical Know-How
- 2.3 Market Opportunities

3 COMPETITIVE LANDSCAPE

- 3.1 Key Strategies and Developments
 - 3.1.1 Partnership and Collaboration
 - 3.1.2 Product Launch
 - 3.1.3 Funding & Contract
 - 3.1.4 Others

4 INDUSTRY ANALYSIS



- 4.1 Overview
- 4.2 Consortiums and Associations
 - 4.2.1 Ethereum Enterprise Alliance
 - 4.2.2 Food Safety Alliance for China
 - 4.2.3 Food Trust
 - 4.2.4 Food Trust Framework
 - 4.2.5 Hyperledger Project
 - 4.2.6 The Consortium for Sequencing the Food Supply Chain (SFSC)
 - 4.2.7 Trusted IoT Alliance
- 4.3 Regulatory Landscape in the Blockchain Ecosystem
 - 4.3.1 North America
 - 4.3.2 South America
 - 4.3.3 Europe
 - 4.3.4 Asia-Pacific
 - 4.3.5 Rest-of-the-World
- 4.4 Stakeholder Analysis for Blockchain in Agriculture and Food
 - 4.4.1 Farmers
 - 4.4.2 Processors
 - 4.4.3 Distributors
 - 4.4.4 Retailers
 - 4.4.5 Traders
- 4.5 Use Cases of Blockchain in Agriculture and Food
 - 4.5.1 Digital Identification
 - 4.5.2 Tokenization
 - 4.5.3 Smart Contracting
 - 4.5.4 Records

5 GLOBAL BLOCKCHAIN IN AGRICULTURE AND FOOD MARKET

- 5.1 Assumptions for Analysis and Forecast of the Global Blockchain in Agriculture and Food Market
- 5.2 Limitations for Analysis and Forecast of the Global Blockchain in Agriculture and Food Market
- 5.3 Historical Development Timeline
- 5.4 Market Introduction
- 5.5 Year-on-Year (Y-o-Y) Growth Analysis

6 GLOBAL BLOCKCHAIN IN AGRICULTURE AND FOOD MARKET (BY APPLICATION)



- 6.1 Supply Chain Tracking
 - 6.1.1 Provenance
 - 6.1.2 Procurement Traceability and Tracking
- 6.2 Finance Management
 - 6.2.1 Payments
 - 6.2.2 Lending and Borrowing
 - 6.2.3 Crop Insurance
- 6.3 Data Management
 - 6.3.1 Record Keeping
 - 6.3.2 Data Sharing
 - 6.3.3 Real-Time Data Monitoring
- 6.4 Land and Property Ownership
- 6.5 Others

7 GLOBAL BLOCKCHAIN IN AGRICULTURE AND FOOD MARKET (BY REGION)

- 7.1 North America
- 7.2 Europe
- 7.3 Asia-Pacific
- 7.4 Rest-of-the-World

8 FUTURE OUTLOOK

9 COMPANY PROFILES

Blockchain Technology Solution Providers

- 9.1 AgriChain Pty Ltd. ('BlockGrain')
 - 9.1.1 Company Overview
 - 9.1.2 Product Portfolio
 - 9.1.3 Corporate Summary
 - 9.1.4 SWOT Analysis
- 9.2 Ambrosus
 - 9.2.1 Company Overview
 - 9.2.2 Product Portfolio
 - 9.2.3 Corporate Summary
 - 9.2.4 SWOT Analysis
- 9.3 arc-net
 - 9.3.1 Company Overview



- 9.3.2 Product Portfolio
- 9.3.3 Corporate Summary
- 9.3.4 SWOT Analysis
- 9.4 Bext
 - 9.4.1 Company Overview
 - 9.4.2 Product Portfolio
 - 9.4.3 Corporate Summary
 - 9.4.4 SWOT Analysis
- 9.5 Coin
 - 9.5.1 Company Overview
 - 9.5.2 Product Portfolio
 - 9.5.3 Corporate Summary
 - 9.5.4 SWOT Analysis
- 9.6 Filament
 - 9.6.1 Company Overview
 - 9.6.2 Product Portfolio
 - 9.6.3 Corporate Summary
 - 9.6.4 SWOT Analysis
- 9.7 Foodcoin Ecosystem
 - 9.7.1 Company Overview
 - 9.7.2 Product Portfolio
 - 9.7.3 Corporate Summary
 - 9.7.4 SWOT Analysis
- 9.8 Full Profile Pty Ltd ('AgriDigital')
 - 9.8.1 Company Overview
 - 9.8.2 Product Portfolio
 - 9.8.3 Corporate Summary
 - 9.8.4 SWOT Analysis
- 9.9 IBM Corporation
 - 9.9.1 Company Overview
 - 9.9.2 Product Portfolio
 - 9.9.3 Financials
 - 9.9.3.1 Financial Summary
 - 9.9.4 SWOT Analysis
- 9.10 Obook Holdings Inc. ('OwlTing')
 - 9.10.1 Company Overview
 - 9.10.2 Product Portfolio
 - 9.10.3 Corporate Summary
 - 9.10.4 SWOT Analysis



- 9.11 Origin Trail
 - 9.11.1 Company Overview
 - 9.11.2 Product Portfolio
 - 9.11.3 Corporate Summary
 - 9.11.4 SWOT Analysis
- 9.12 Pavocoin AG
 - 9.12.1 Company Overview
 - 9.12.2 Product Portfolio
 - 9.12.3 Corporate Summary
 - 9.12.4 SWOT Analysis
- 9.13 Project Provenance Ltd
 - 9.13.1 Company Overview
 - 9.13.2 Product Portfolio
 - 9.13.3 Corporate Summary
 - 9.13.4 SWOT Analysis
- 9.14 Ripe Technology, Inc.
 - 9.14.1 Company Overview
 - 9.14.2 Product Portfolio
 - 9.14.3 Corporate Summary
 - 9.14.4 SWOT Analysis
- 9.15 TE-Food International GmbH
 - 9.15.1 Company Overview
 - 9.15.2 Product Portfolio
 - 9.15.3 Corporate Summary
 - 9.15.4 SWOT Analysis

Other Stakeholders

Retailers

- 9.16 Walmart
 - 9.16.1 Company Overview
- 9.17 Alibaba Group
 - 9.17.1 Company Overview
- 9.18 The Kroger Co.
 - 9.18.1 Company Overview

Food Processors

- 9.19 Nestle S.A.
 - 9.19.1 Company Overview
- 9.20 Tyson Foods Inc.
 - 9.20.1 Company Overview
- 9.21 Danone



9.21.1 Company Overview

Agricultural OEMs

9.22 Deere & Company

9.22.1 Company Overview

9.23 AGCO Corporation

9.23.1 Company Overview

9.24 CNH Industrial N.V.

9.24.1 Company Overview

Food Distributors

9.25 Sysco Corporation

9.25.1 Company Overview

9.26 McLane Company

9.26.1 Company Overview

Agricultural Commodity Traders

9.27 Louis Dreyfus Company B.V.

9.27.1 Company Overview

9.28 Cargill Inc.

9.28.1 Company Overview

9.29 Archer Daniels Midland Company

9.29.1 Company Overview

9.30 Bunge Limited

9.30.1 Company Overview

10 RESEARCH SCOPE AND METHODOLOGY

- 10.1 Report Scope
- 10.2 Global Blockchain in Agriculture and Food Market Research Methodology
 - 10.2.1 Assumptions
 - 10.2.2 Limitations
 - 10.2.3 Primary Data Sources
 - 10.2.4 Secondary Data Sources
 - 10.2.5 Data Triangulation
 - 10.2.6 Market Estimation and Forecast

11 ANNEXURE A : LIST OF KEY STRATEGIES AND DEVELOPMENTS (JANUARY 2015-JUNE 2018)



List Of Tables

LIST OF TABLES

- Table 1.1 Difference Between Proof of Work and Proof of Stake Validation Techniques
- Table 2.1 Food Recall Types
- Table 2.2 Key Opportunities for Stakeholders in Blockchain in Agriculture and Food Market
- Table 3.1 Key Partnership and Collaboration(Jan 2015–Jun 2018)
- Table 3.2 Key Product Launches (Jan 2015-Jun 2018)
- Table 3.3 Key Fundings and Contract (Jan 2015-Jun 2018)
- Table 3.4 Other Key Strategies and Developments (Jan 2015-Jun 2018)
- Table 4.1 Stakeholders Analysis Matrix Blockchain in Agriculture and Food
- Table 6.1 Global Blockchain in Agriculture and Food Market (by Application), \$Million ,2017-2028
- Table 6.2 Blockchain Products for Payments in Agriculture
- Table 6.3 Blockchain Products for Product Provenance Data in Agriculture
- Table 7.1 Global Blockchain in Agriculture and Food Market by Region, 2017-2028



List Of Figures

LIST OF FIGURES

	Figure 1	Concerns in	Global	Agriculture	&	Food S	vstem
--	----------	-------------	--------	-------------	---	--------	-------

- Figure 2 Drivers and Restraints-Global Blockchain in Agriculture and Food Market
- Figure 3 Global Blockchain in Agriculture and Food Market Snapshot
- Figure 4 Global Blockchain in Agriculture and Food Market (by Application), 2018-2028
- Figure 5 Global Blockchain in Agriculture and Food Market (by Region), 2018-2028
- Figure 1.1 The Blockchain Structure
- Figure 1.2 Public Blockchain
- Figure 1.3 Private Blockchain
- Figure 1.4 Key Issues in Agriculture and Food Industry to be Solved by Blockchain
- Figure 2.1 Market Dynamics
- Figure 2.2 Impact Analysis of Drivers
- Figure 2.3 Key Factors Addressed by Blockchain Technology for a Reliable Supply Chain
- Figure 2.4 Food Industry Losses: Statistics
- Figure 2.5 Strategic Control Points for Blockchain Technology in Food Value Chain
- Figure 2.6 Blockchain Technology: Improving Financial Aspects of Agri-Food Sector
- Figure 2.7 Impact Analysis of Restraints
- Figure 3.1 Key Strategies and Developments (Jan 2015-Jun 2018)
- Figure 4.1 Some Key Members of Ethereum Enterprise Alliance
- Figure 4.2 Some Key Members of Food Safety Alliance for China
- Figure 4.3 Some Key Members of Food Trust
- Figure 4.4 Some Key Members of Food Trust Framework
- Figure 4.5 Some Key Members of Hyperledger Project
- Figure 4.6 Some Key Members of Sequencing the Food Supply Chain Consortium
- Figure 4.7 Some Key Members of Trusted IoT Alliance
- Figure 4.8 Effects of Regulations on the Blockchain Market
- Figure 4.9 Regulatory Landscape in North America
- Figure 4.10 Regulatory Landscape in South America
- Figure 4.11 Regulatory Landscape in Europe
- Figure 4.12 Regulatory Landscape in Asia-Pacific
- Figure 4.13 Regulatory Landscape in Rest-of-the-World
- Figure 4.14 Stakeholders of Blockchain in Agriculture and Food Ecosystem
- Figure 4.15 Advantages of Blockchain for Farmers
- Figure 4.16 Blockchain for Food Processors
- Figure 4.17 Blockchain as a Solution for Distributors



- Figure 4.18 Blockchain as a Solution for Distributors
- Figure 4.19 Commodity Trading Supply Chain with Blockchain
- Figure 4.20 Use Cases of Blockchain in Agriculture and Food
- Figure 4.21 Smart Contracts Execution Process
- Figure 5.1 Key Historical Developments in Global Blockchain in Agriculture and Food Market
- Figure 5.2 Global Blockchain in Agriculture and Food Market, 2017-2028
- Figure 5.3 Global Blockchain in Agriculture and Food Market Growth Timeline
- Figure 6.1 Blockchain Applications in Agriculture and Food
- Figure 6.2 Supply Chain Tracking in Global Blockchain in Agriculture and Food Market, 2017-2028
- Figure 6.3 Blockchain-Based Supply Chain Tracking in Agriculture
- Figure 6.4 Types of Supply Chain Tracking Applications
- Figure 6.5 Advantages of Blockchain in Procurement Traceability and Tracking
- Figure 6.6 Features of Blockchain-Powered Supply Chain
- Figure 6.7 Finance Management in Global Blockchain in Agriculture and Food Market, 2017-2028
- Figure 6.8 Benefits of Blockchain in Agriculture and Food Finance
- Figure 6.9 Types of Finance Management Applications
- Figure 6.10 Blockchain for Crop Insurance
- Figure 6.11 Data Management in Global Blockchain in Agriculture and Food Market, 2017-2028
- Figure 6.12 Types of Data Management Applications
- Figure 6.13 Importance of Record Keeping
- Figure 6.14 Land and Property Ownership in Global Blockchain in Agriculture and Food Market, 2017-2028
- Figure 6.15 Other Applications in Global Blockchain in Agriculture and Food Market, 2017-2028
- Figure 7.1 Global Blockchain in Agriculture and Food Market Share and CAGR (by Region)
- Figure 7.2 North America Blockchain in Agriculture and Food Market, 2017-2028
- Figure 7.3 North America Blockchain in Agriculture and Food Adoption Scenario by Country
- Figure 7.4 Europe Blockchain in Agriculture and Food Market, 2017-2028
- Figure 7.5 Europe Blockchain in Agriculture and Food Adoption Scenario by Country
- Figure 7.6 Asia-Pacific Blockchain in Agriculture and Food Market, 2017-2028
- Figure 7.7 Asia-Pacific Blockchain in Agriculture and Food Adoption Scenario (by Country)
- Figure 7.8 Rest-of-the-World Blockchain in Agriculture and Food Market, 2017-2028



Figure 7.9 RoW Blockchain in Agriculture and Food Adoption Scenario (by Country)

Figure 9.1 AgriChain Pty Ltd.: SWOT Analysis

Figure 9.2 Ambrosus: SWOT Analysis

Figure 9.3 arc-net: SWOT Analysis

Figure 9.4 Bext360 : SWOT Analysis

Figure 9.5 Coin22 : SWOT Analysis

Figure 9.6 Filament: SWOT Analysis

Figure 9.7 Foodcoin Ecosystem: SWOT Analysis

Figure 9.8 Full Profile Pty. Ltd.: SWOT Analysis

Figure 9.9 IBM Corporation: Overall Financials, 2015-2017

Figure 9.10 IBM Corporation: Net Revenue by Business Segment, 2015-2017

Figure 9.11 IBM Corporation: Net Revenue by Regional Segment, 2015-2017

Figure 9.12 IBM Corporation: SWOT Analysis

Figure 9.13 Obook Holdings Inc.: SWOT Analysis

Figure 9.14 OriginTrail: SWOT Analysis

Figure 9.15 Pavocoin: SWOT Analysis

Figure 9.16 Project Provenance Ltd. : SWOT Analysis

Figure 9.17 Ripe Technology, Inc: SWOT Analysis

Figure 9.18 TE-Food International: SWOT Analysis

Figure 10.1 Global Blockchain in Agriculture and Food Market Scope

Figure 10.2 Report Design

Figure 10.3 Primary Interview Breakdown, by Company, Designation, and Region

Figure 10.4 Sources of Secondary Research

Figure 10.5 Data Triangulation

Figure 10.6 Top Down and Bottom Up Approach



I would like to order

Product name: Global Blockchain in Agriculture and Food Market: Focus on Stakeholders, Regulations,

Application (Supply Chain Tracking, Finance Management, Data Management, and Land

and Property Ownership) and Regional Adoption - Analysis & Forecast 2018-2028

Product link: https://marketpublishers.com/r/GB0E4EF46420EN.html

Price: US\$ 5,000.00 (Single User License / Electronic Delivery)

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

Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GB0E4EF46420EN.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
	Custumer 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