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Agriculture Blockchain Market Forecasts to 2032 – Global Analysis By Component (Platform and Services), Type, Organization Size, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Agriculture Blockchain Market is accounted for $1.1 billion in 2025 and is expected to reach $5.3 billion by 2032 growing at a CAGR of 25.1% during the forecast period. The Agriculture Blockchain Market leverages distributed ledger technology to enhance transparency, traceability, and efficiency across agricultural supply chains. Applications include monitoring product origin, reducing fraud, optimizing trade, and streamlining payments between farmers, distributors, and retailers. Increasing concerns over food safety, counterfeit products, and fair trade practices are fueling blockchain adoption. The market also benefits from rising digitalization, smart contracts, and IoT integration. Governments and agribusinesses are exploring blockchain to improve farmer income, regulatory compliance, and consumer trust in food authenticity and quality.

According to the World Bank, blockchain pilots in Kenya and India have improved traceability and reduced post-harvest losses by 20% in select supply chains.

Market Dynamics:

Driver:

Enhanced Supply Chain Transparency

Blockchain-driven supply chain transparency transforms agricultural value chains by creating immutable provenance records that trace produce from farm to fork. This

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visibility reduces informational asymmetry among growers, processors, distributors, and retailers, cutting dispute-resolution time and shortening recall responses. Moreover, transparent ledgers enable rapid verification of certifications such as organic, fair-trade, and sustainability claims, improving access to premium markets and strengthening consumer trust. Interoperable platforms further streamline audits and reduce documentation friction for exporters and regulators. These gains drive broader commercial interest and investor confidence.

Restraint:

Limited Digital Literacy

Limited digital literacy across many farming communities constrains effective blockchain adoption despite clear operational benefits. Many producers lack familiarity with smartphones, digital wallets, and simple data-entry procedures required to use ledger-based platforms, which reduces data quality and participation. Intermittent connectivity and scarce local training amplify these hurdles and shift onboarding burdens onto vendors and extension services. Without tailored support and simple user interfaces, pilots risk low retention and inconsistent records.

Opportunity:

Government Initiatives and Funding

Grants, innovation funds, and research programmes defray upfront costs, underwrite proof-of-concept pilots, and incentivise public–private partnerships that reduce financial risk for startups and smallholders. Regulatory sandboxes and standards work promoted by governments accelerate interoperability and cross-border certification, smoothing trade flows and compliance. Such instruments also foster standardisation, encourage interoperability, and attract institutional investors seeking regulated, transparent food chains today.

Threat:

Cybersecurity Risks

Cybersecurity risks pose a material threat to agriculture blockchain deployments as supply chains become increasingly connected and data-driven. Threats such as ransomware, data breaches, phishing, and IoT exploitation can corrupt provenance

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records, disrupt logistics, and inflict reputational damage that erodes buyer and consumer confidence. Smaller agribusinesses often lack mature cyber practices and dedicated IT resources, creating weak links that threat actors can exploit to amplify operational impacts across networks.

Covid-19 Impact:

The COVID-19 pandemic accelerated interest in blockchain solutions by exposing fragilities in provenance and logistics across agricultural supply chains. Disruptions pushed stakeholders to pilot distributed ledgers for faster verification, contactless transactions, and origin tracing, while also highlighting operational and funding constraints that kept many initiatives at pilot stage. Nonetheless, the crisis increased stakeholder awareness, produced practical lessons about interoperability and handshake processes, and informed more pragmatic phased deployments.

The platform (Software/Solutions) segment is expected to be the largest during the forecast period

The platform (Software/Solutions) segment is expected to account for the largest market share during the forecast period because platforms package required capabilities traceability, smart-contract automation, IoT integration, analytics, and user interfaces into deployable suites that meet immediate market needs. Platforms reduce integration complexity by providing APIs, dashboards, middleware, and managed services that connect legacy ERPs with distributed ledgers, accelerating time-to-value for agribusinesses. Successful vendors prioritise farmer-centric design, multilingual onboarding, and clear data-governance models. Platforms that offer compliance modules, modular pricing, and local support expand adoption across commodity types and regions.

The hybrid/consortium blockchain segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the hybrid/consortium blockchain segment is predicted to witness the highest growth rate because these models reconcile transparency with necessary privacy and governance. Hybrid architectures allow public proof of provenance while keeping commercially sensitive transactional details on permissioned ledgers, meeting buyer and regulatory needs. Consortium governance, where industry participants jointly define protocols and operate nodes, build shared trust and reduces unilateral control concerns. Such structures lower coordination costs and accelerates

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standards across supply chains while enabling interoperability, making them a pragmatic growth choice for multi-stakeholder agricultural ecosystems.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share owing to a mature agri-tech ecosystem, deep private investment, and rapid enterprise adoption of traceability solutions across food and commodity supply chains. Large retailers and foodservice companies demand provenance for regulatory compliance and brand assurance, prompting suppliers to implement blockchain-enabled platforms. Vigorous venture capital activity, active standards organisations, established IoT networks, and extensive pilot deployments provide practical use cases that encourage wider commercial uptake in the region.

Region with highest CAGR:

Over the forecast period, the Europe region is anticipated to exhibit the highest CAGR driven by proactive regulation, sustainability reporting mandates, and substantial public funding that supports digital and green transitions. EU programmes and national grants incentivise pilots linking blockchain to carbon accounting, certification schemes, and cross-border traceability frameworks, creating policy-backed use cases that can scale. Strong consumer demand for ethically sourced food, tightening traceability rules across member states, and cooperative standardisation efforts create fertile conditions for rapid uptake. Public–private collaborations reduce technical risk and attract private investment at scale, thereby accelerating deployments among nations.

Key players in the market

Some of the key players in Agriculture Blockchain Market include IBM (IBM Food Trust), TE-FOOD, Ripe.io, AgriDigital, GrainChain, Ambrosus, Bext360, Provenance, OriginTrail, BanQu, AgriLedger, TraceX Technologies, AgUnity, Skuchain, ChainPoint (now part of Source Intelligence), and FoodLogiQ.

Key Developments:

In September 2024, they expanded their partnership with THG Beauty (LOOKFANTASTIC, Dermstore brands) to integrate their platform for verified sustainability claims.

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In February 2024, BanQu announced that they had secured a EU patent allowing their blockchain platform to encrypt and store identity information (farmers, waste collectors, etc.) and asset transaction data.

In September 2023, IBM and iFoodDS publicly launched “iFoodDS Trace Exchange with IBM Food Trust”, intended to help food companies comply with the FDA’s FSMA 204 traceability rule by combining IBM’s blockchain network with iFoodDS’s traceability applications.

Components Covered:

- Platform (Software/Solutions)
- Services

Types Covered:

- Private Blockchain
- Public Blockchain
- Hybrid/Consortium Blockchain

Organization Sizes Covered:

- Large Enterprises
- Small and Medium-sized Enterprises (SMEs)

Applications Covered:

- Supply Chain Management
- Smart Contracts and Automated Payments/Settlements
- Governance, Risk, and Compliance Management

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- Farming Operations and Crop/Livestock Management
- Agricultural Finance, Insurance, and Lending
- Land Ownership and Registry

End Users Covered:

- Farmers and Producers
- Food Processors and Manufacturers
- Retailers and Distributors
- Government and Regulatory Bodies

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France

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- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE
- Qatar
- South Africa

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Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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