

Blockchain in Supply Chain Market Projected to Hit USD 55.28 Billion at a 51.80% CAGR by 2035

Blockchain in Supply Chain Market enables transparent, secure, and traceable supply chains with blockchain, improving efficiency, trust, and fraud prevention.

NEW YORK(NY), NY, UNITED STATES, July 30, 2026 /EINPresswire.com/ -- The

[Blockchain in Supply Chain Market](#) is witnessing exceptional growth as organizations increasingly adopt blockchain technology to improve transparency, traceability, and operational efficiency across global supply chains.

Blockchain enables businesses to securely record every transaction and movement of goods on a decentralized ledger, minimizing fraud, reducing paperwork, and strengthening trust among stakeholders. The growing complexity of international trade, rising demand for real-time tracking, and increasing focus on sustainability are accelerating blockchain adoption across manufacturing, logistics, retail, healthcare, food & beverage, and automotive industries.

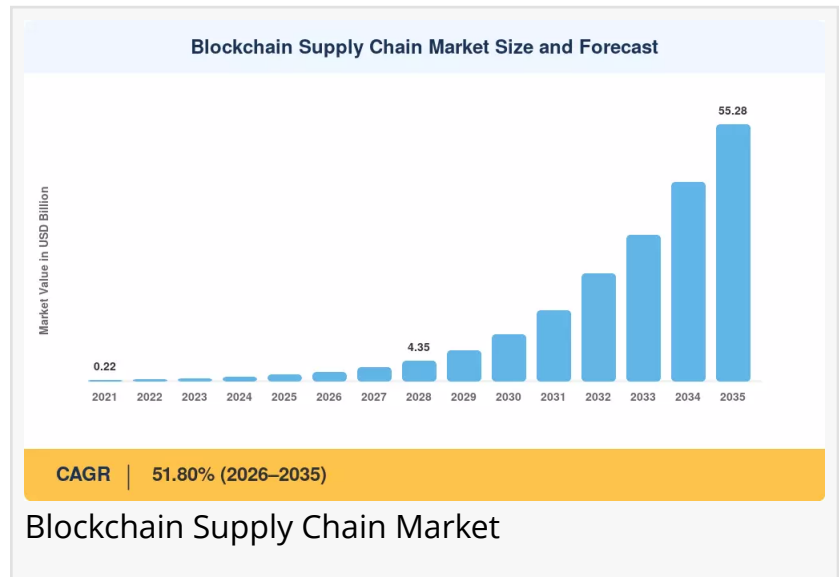
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Blockchain in Supply Chain Market is revolutionizing global logistics with secure, transparent, and traceable transactions, enhancing efficiency and trust.”

Market Research Future

Blockchain in Supply Chain Market was valued at USD 1.30 billion in 2025 and is projected to reach USD 1.92 billion in 2026 before climbing to USD 55.28 billion by 2035, expanding at a CAGR of 51.80% during the 2026–2035 forecast period. The rapid expansion reflects increasing investments in digital supply chain modernization, smart contracts, Internet of Things (IoT) integration, and artificial

intelligence-powered logistics. Governments and private enterprises are also encouraging blockchain implementation to improve product authentication, regulatory compliance, and cross-border trade efficiency. As organizations seek secure and transparent supply chain ecosystems, blockchain is expected to become one of the foundational technologies supporting



future global commerce.

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Market Dynamics: Drivers, Restraints and Opportunities

Several powerful factors are driving the growth of the Blockchain Supply Chain Market. One of the primary drivers is the increasing need for end-to-end visibility across supply chains. Businesses are under growing pressure from consumers and regulators to provide accurate information regarding product origin, manufacturing processes, transportation, and environmental impact. Blockchain technology creates immutable digital records that improve transparency while reducing fraud and counterfeit activities. The rising integration of IoT sensors with blockchain platforms further enhances shipment monitoring by enabling real-time tracking of inventory, temperature-sensitive products, and logistics operations. Additionally, smart contracts automate payment processing, supplier agreements, and compliance verification, significantly reducing operational costs and manual errors.

Despite impressive growth prospects, the market faces several challenges. High implementation costs remain a significant barrier, particularly for small and medium-sized enterprises. Integrating blockchain solutions with legacy [enterprise resource planning](#) (ERP) systems and existing logistics infrastructure can be technically complex. Limited standardization, interoperability issues between blockchain networks, regulatory uncertainty, and concerns regarding data privacy also slow widespread adoption in certain industries. Furthermore, organizations require skilled blockchain professionals to develop, maintain, and secure decentralized applications.

The market presents substantial opportunities for innovation. Growing adoption of decentralized finance (DeFi), AI-powered predictive analytics, cloud computing, and digital identity verification is creating new possibilities for blockchain-enabled supply chains. Industries such as pharmaceuticals, agriculture, luxury goods, and food safety are increasingly investing in blockchain to authenticate products and reduce counterfeiting. Emerging economies are also adopting blockchain-based customs documentation, cross-border trade management, and logistics optimization systems, opening new revenue opportunities for technology providers.

Key Players and Competitive Insights

The Blockchain Supply Chain Market is highly competitive, with global technology providers, cloud service companies, enterprise software vendors, and blockchain specialists continuously investing in research and development. Market participants are focusing on expanding blockchain-as-a-service (BaaS) offerings, strengthening cloud infrastructure, enhancing cybersecurity capabilities, and integrating AI and IoT technologies into blockchain ecosystems. Strategic partnerships between logistics providers, manufacturers, retailers, and financial

institutions are accelerating commercial adoption while improving interoperability across supply chain networks.

Leading companies are emphasizing scalable enterprise blockchain platforms capable of supporting millions of transactions while maintaining high security and regulatory compliance. Investments in smart contract automation, digital asset tracking, warehouse management, and predictive supply chain analytics are helping vendors strengthen their competitive positions. Mergers, acquisitions, and collaborative partnerships continue to reshape the competitive landscape as organizations seek comprehensive digital transformation solutions.

Major companies operating in the Blockchain Supply Chain Market include IBM Corporation, Microsoft Corporation, Oracle Corporation, SAP SE, Amazon Web Services (AWS), Huawei Technologies, Infosys Limited, Accenture PLC, Deloitte, Wipro Limited, VeChain Foundation, IBM Food Trust, Hyperledger Foundation, CargoX, and Guardtime. These organizations continue introducing innovative blockchain solutions designed to improve logistics efficiency, inventory visibility, supplier collaboration, and regulatory compliance across diverse industries.

Recent Developments

The Blockchain Supply Chain Market has experienced significant technological advancements in recent years. Companies are increasingly integrating blockchain with artificial intelligence, machine learning, IoT devices, and cloud computing to create intelligent supply chain ecosystems. Several enterprises have launched blockchain-powered digital product passports that improve transparency regarding product origin, sustainability, and lifecycle management.

Technology providers continue expanding blockchain-as-a-service platforms that simplify deployment for enterprises while reducing implementation costs. Strategic collaborations between logistics companies, shipping organizations, financial institutions, and software vendors are accelerating blockchain adoption across global trade networks. Governments are also piloting blockchain-based customs clearance, digital documentation, and trade finance initiatives to reduce administrative complexity and improve international commerce. Continuous investments in smart contract automation, decentralized identity management, and cybersecurity are expected to further strengthen market growth over the coming years.

Market Segmentations

By Component

- Platform
- Services

By Deployment Mode

- Cloud
- On-Premises
- Hybrid

By Organization Size

- Large Enterprises
- Small & Medium Enterprises (SMEs)

By Application

- Product Traceability
- Smart Contracts
- Inventory Management
- Payment & Settlement
- Compliance Management
- Asset Tracking

By Industry Vertical

- Retail & [E-commerce](#)
- Manufacturing
- Food & Beverage
- Healthcare
- Automotive
- Logistics & Transportation
- Agriculture
- Consumer Goods

By End User

- Manufacturers
- Distributors
- Retailers
- Logistics Providers
- Government Organizations

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Regional Insights

North America continues to dominate the Blockchain Supply Chain Market due to strong digital

infrastructure, high technology adoption, and significant investments in enterprise blockchain solutions. The United States remains the regional leader, with organizations across retail, healthcare, logistics, and manufacturing implementing blockchain to enhance operational transparency and strengthen cybersecurity. Government initiatives promoting secure digital transactions and innovation further support market expansion.

Europe represents another major market driven by stringent regulatory requirements related to product traceability, sustainability, and environmental compliance. Countries including Germany, the United Kingdom, France, and the Netherlands are actively investing in blockchain-powered logistics and smart manufacturing initiatives. The region's focus on circular economy practices and responsible sourcing further accelerates blockchain implementation.

Asia-Pacific is projected to register the fastest growth throughout the forecast period. Rapid industrialization, expanding manufacturing sectors, increasing e-commerce activities, and government-led digital transformation programs are driving blockchain adoption across China, India, Japan, South Korea, and Southeast Asia.

The growing demand for efficient cross-border trade, food safety monitoring, and pharmaceutical traceability is creating significant opportunities for technology providers. Meanwhile, Latin America and the Middle East & Africa are gradually adopting blockchain solutions as investments in logistics infrastructure, digital trade platforms, and supply chain modernization continue to increase.

Frequently Asked Questions (FAQ)

Q1. What is the Blockchain Supply Chain Market?

It is the market for blockchain-based solutions that improve transparency, traceability, security, and efficiency across supply chain operations.

Q2. What is driving market growth?

Growing demand for supply chain transparency, counterfeit prevention, automation, and real-time product tracking is driving market expansion.

Q3. Which industries use blockchain supply chain solutions?

Manufacturing, retail, healthcare, food & beverage, automotive, logistics, agriculture, and consumer goods industries are major users.

Q4. Which region leads the market?

North America currently leads due to advanced digital infrastructure and widespread enterprise blockchain adoption.

Q5. What technologies complement blockchain in supply chains?

Artificial Intelligence (AI), Internet of Things (IoT), cloud computing, machine learning, and smart contracts enhance blockchain capabilities.

Q6. What challenges does the market face?

High implementation costs, interoperability issues, regulatory uncertainty, and integration with legacy systems remain key challenges.

Q7. What is the future outlook for the market?

The market is expected to experience rapid expansion through 2035 as businesses increasingly prioritize secure, transparent, and automated global supply chain operations.

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