

# **Web 3.0 Blockchain Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Blockchain Type (Public, Private, Consortium and Hybrid), By Application (Cryptocurrency, Conversational AI, Data & Transaction Storage, Payments and Smart Contracts), By Vertical (BFSI, E-commerce & Retail, Media & Entertainment, Healthcare & Pharmaceuticals and IT & Telecom), By Region & Competition, 2021-2031F**

<https://marketpublishers.com/r/W08172C60AE7EN.html>

Date: May 2026

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: W08172C60AE7EN

## **Abstracts**

The Global Web 3.0 Blockchain Market is projected to expand significantly, growing from USD 6.33 Billion in 2025 to USD 55.99 Billion by 2031, demonstrating a Compound Annual Growth Rate (CAGR) of 43.81%. This market is characterized as a decentralized digital infrastructure that uses distributed ledger technology to facilitate peer-to-peer transactions, self-sovereign identity, and tokenized ownership, eliminating the need for traditional intermediaries. Its growth is largely driven by increasing enterprise demand for better data privacy and transparent, immutable supply chain records. A key factor also fueling this expansion is the growing institutional interest in tokenizing real-world assets, which enhances capital efficiency and liquidity in global financial markets.

Despite this positive outlook, the market faces a significant hurdle due to the ongoing absence of a unified global regulatory framework, causing compliance complexities for international operations. Nevertheless, the sector shows strong momentum; in 2024, the total market capitalization of tokenized real-world assets increased by 32% to about \$176 billion, primarily due to growth in on-chain U.S. Treasuries and private credit, as

reported by the Tokenized Asset Coalition.

## Market Driver

The Global Web 3.0 Blockchain Market is primarily driven by two major factors. Firstly, the growing synergy between blockchain and artificial intelligence (AI) is fostering automated, intelligent decentralized ecosystems. This integration enables autonomous agents and predictive analytics to operate on-chain, significantly improving the functionality and user experience of decentralized applications (dApps) beyond simple transaction processing. This impact is evident in increased user engagement, particularly in high-growth sectors; for instance, AI-driven dApps in the social category saw a 71% rise in daily unique active wallets by October 2024, as reported by DappRadar, indicating how AI attracts new users with advanced digital services.

Secondly, the rapid expansion of the Decentralized Finance (DeFi) ecosystem is a crucial pillar for market liquidity and financial depth, marked by the growth of liquid staking and yield-generating protocols. With renewed institutional confidence, on-chain financial infrastructure is scaling up to manage complex, high-value transactions comparable to traditional systems. DefiLlama data from December 2024 shows a 150% year-to-date surge in Total Value Locked (TVL) across DeFi protocols, reaching \$133.88 billion. This financial expansion is accompanied by a broadening participant base, with monthly active cryptocurrency addresses hitting a record 220 million, according to Andreessen Horowitz's October 2024 report, signaling a maturing infrastructure ready for widespread adoption.

## Market Challenge

A significant obstacle impeding the Global Web 3.0 Blockchain Market is the ongoing absence of a standardized global regulatory framework. This fragmented regulatory landscape introduces considerable compliance uncertainty, especially for businesses and financial institutions operating across various jurisdictions with differing legal requirements. The lack of a consistent approach to classifying digital assets—where a token might be considered a commodity in one area and a security in another—leads to excessive legal expenses and operational risks for market participants. Such unpredictability hinders innovation and slows the integration of blockchain infrastructure into mainstream financial systems, as companies must prioritize regulatory adherence over technological progress.

This ambiguous legal setting also directly discourages institutional investment, thereby

slowing the growth of high-value applications like real-world asset tokenization. Large investors are reluctant to commit substantial liquidity when legal protections and property rights are unclear within the on-chain environment. AIMA's 2025 report further emphasizes this challenge, with 72% of industry respondents identifying legal uncertainty and limited investor demand as key barriers to adopting tokenized fund structures, highlighting how regulatory ambiguity acts as a critical bottleneck preventing the market from achieving its full potential in global capital efficiency.

## **Market Trends**

The Web 3.0 Blockchain Market is witnessing significant transformation through two primary trends. First, the emergence of Decentralized Physical Infrastructure Networks (DePIN) is revolutionizing infrastructure deployment by utilizing token incentives to crowdsource real-world hardware, such as wireless hotspots and GPU computing power, instead of relying on centralized capital. This approach allows for the swift scaling of distributed networks, rewarding individual contributors for node operation and effectively shifting capital expenditure to operational expenditure for network developers. Binance News reported in January 2025 that over 13 million devices globally now contribute to DePIN nodes, indicating a substantial migration of physical resources onto blockchain for bypassing traditional intermediaries.

Second, the ongoing advancement of Cross-Chain Interoperability and Layer 0 Protocols is tackling ecosystem fragmentation by enabling secure communication and asset transfers across different blockchain networks. This technological progress is steering the industry from isolated architectures towards a unified multi-chain environment, thereby optimizing liquidity efficiency and expanding the utility of decentralized applications. The IBC Protocol's October 2024 report highlighted the increasing demand for this connectivity, noting that the total value locked (TVL) across 43 interoperability protocols reached \$8 billion, underscoring the sector's growing reliance on bridging solutions to integrate the fragmented digital asset landscape.

## **Key Market Players**

Web3 Foundation

Helium Systems Inc.

Ocean Protocol Foundation Ltd.

Zel Technologies Limited.

Kusama

Livepeer, Inc.

Filecoin

Kadena LLC

Polygon technology

Terra

## **Report Scope**

In this report, the Global Web 3.0 Blockchain Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### Web 3.0 Blockchain Market, By Blockchain Type

Public

Private

Consortium

Hybrid

### Web 3.0 Blockchain Market, By Application

Cryptocurrency

Conversational AI

Data & Transaction Storage

Payments

Smart Contracts

### Web 3.0 Blockchain Market, By Vertical

BFSI

E-commerce & Retail

Media & Entertainment

Healthcare & Pharmaceuticals

IT & Telecom

### Web 3.0 Blockchain Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Web 3.0 Blockchain Market.

## **Available Customizations:**

Global Web 3.0 Blockchain Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### 1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### 3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

### 4. VOICE OF CUSTOMER

### 5. GLOBAL WEB 3.0 BLOCKCHAIN MARKET OUTLOOK

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Blockchain Type (Public, Private, Consortium, Hybrid)
  - 5.2.2. By Application (Cryptocurrency, Conversational AI, Data & Transaction Storage, Payments, Smart Contracts)
  - 5.2.3. By Vertical (BFSI, E-commerce & Retail, Media & Entertainment, Healthcare &

Pharmaceuticals, IT & Telecom)

5.2.4. By Region

5.2.5. By Company (2025)

5.3. Market Map

## **6. NORTH AMERICA WEB 3.0 BLOCKCHAIN MARKET OUTLOOK**

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Blockchain Type

6.2.2. By Application

6.2.3. By Vertical

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Web 3.0 Blockchain Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Blockchain Type

6.3.1.2.2. By Application

6.3.1.2.3. By Vertical

6.3.2. Canada Web 3.0 Blockchain Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Blockchain Type

6.3.2.2.2. By Application

6.3.2.2.3. By Vertical

6.3.3. Mexico Web 3.0 Blockchain Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Blockchain Type

6.3.3.2.2. By Application

6.3.3.2.3. By Vertical

## **7. EUROPE WEB 3.0 BLOCKCHAIN MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Blockchain Type
  - 7.2.2. By Application
  - 7.2.3. By Vertical
  - 7.2.4. By Country
- 7.3. Europe: Country Analysis
  - 7.3.1. Germany Web 3.0 Blockchain Market Outlook
    - 7.3.1.1. Market Size & Forecast
      - 7.3.1.1.1. By Value
    - 7.3.1.2. Market Share & Forecast
      - 7.3.1.2.1. By Blockchain Type
      - 7.3.1.2.2. By Application
      - 7.3.1.2.3. By Vertical
  - 7.3.2. France Web 3.0 Blockchain Market Outlook
    - 7.3.2.1. Market Size & Forecast
      - 7.3.2.1.1. By Value
    - 7.3.2.2. Market Share & Forecast
      - 7.3.2.2.1. By Blockchain Type
      - 7.3.2.2.2. By Application
      - 7.3.2.2.3. By Vertical
  - 7.3.3. United Kingdom Web 3.0 Blockchain Market Outlook
    - 7.3.3.1. Market Size & Forecast
      - 7.3.3.1.1. By Value
    - 7.3.3.2. Market Share & Forecast
      - 7.3.3.2.1. By Blockchain Type
      - 7.3.3.2.2. By Application
      - 7.3.3.2.3. By Vertical
  - 7.3.4. Italy Web 3.0 Blockchain Market Outlook
    - 7.3.4.1. Market Size & Forecast
      - 7.3.4.1.1. By Value
    - 7.3.4.2. Market Share & Forecast
      - 7.3.4.2.1. By Blockchain Type
      - 7.3.4.2.2. By Application
      - 7.3.4.2.3. By Vertical
  - 7.3.5. Spain Web 3.0 Blockchain Market Outlook
    - 7.3.5.1. Market Size & Forecast
      - 7.3.5.1.1. By Value

- 7.3.5.2. Market Share & Forecast
  - 7.3.5.2.1. By Blockchain Type
  - 7.3.5.2.2. By Application
  - 7.3.5.2.3. By Vertical

## **8. ASIA PACIFIC WEB 3.0 BLOCKCHAIN MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Blockchain Type
  - 8.2.2. By Application
  - 8.2.3. By Vertical
  - 8.2.4. By Country
- 8.3. Asia Pacific: Country Analysis
  - 8.3.1. China Web 3.0 Blockchain Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Blockchain Type
      - 8.3.1.2.2. By Application
      - 8.3.1.2.3. By Vertical
  - 8.3.2. India Web 3.0 Blockchain Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Blockchain Type
      - 8.3.2.2.2. By Application
      - 8.3.2.2.3. By Vertical
  - 8.3.3. Japan Web 3.0 Blockchain Market Outlook
    - 8.3.3.1. Market Size & Forecast
      - 8.3.3.1.1. By Value
    - 8.3.3.2. Market Share & Forecast
      - 8.3.3.2.1. By Blockchain Type
      - 8.3.3.2.2. By Application
      - 8.3.3.2.3. By Vertical
  - 8.3.4. South Korea Web 3.0 Blockchain Market Outlook
    - 8.3.4.1. Market Size & Forecast
      - 8.3.4.1.1. By Value

- 8.3.4.2. Market Share & Forecast
  - 8.3.4.2.1. By Blockchain Type
  - 8.3.4.2.2. By Application
  - 8.3.4.2.3. By Vertical
- 8.3.5. Australia Web 3.0 Blockchain Market Outlook
  - 8.3.5.1. Market Size & Forecast
    - 8.3.5.1.1. By Value
  - 8.3.5.2. Market Share & Forecast
    - 8.3.5.2.1. By Blockchain Type
    - 8.3.5.2.2. By Application
    - 8.3.5.2.3. By Vertical

## **9. MIDDLE EAST & AFRICA WEB 3.0 BLOCKCHAIN MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Blockchain Type
  - 9.2.2. By Application
  - 9.2.3. By Vertical
  - 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
  - 9.3.1. Saudi Arabia Web 3.0 Blockchain Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Blockchain Type
      - 9.3.1.2.2. By Application
      - 9.3.1.2.3. By Vertical
  - 9.3.2. UAE Web 3.0 Blockchain Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Blockchain Type
      - 9.3.2.2.2. By Application
      - 9.3.2.2.3. By Vertical
  - 9.3.3. South Africa Web 3.0 Blockchain Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value

- 9.3.3.2. Market Share & Forecast
  - 9.3.3.2.1. By Blockchain Type
  - 9.3.3.2.2. By Application
  - 9.3.3.2.3. By Vertical

## **10. SOUTH AMERICA WEB 3.0 BLOCKCHAIN MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Blockchain Type
  - 10.2.2. By Application
  - 10.2.3. By Vertical
  - 10.2.4. By Country
- 10.3. South America: Country Analysis
  - 10.3.1. Brazil Web 3.0 Blockchain Market Outlook
    - 10.3.1.1. Market Size & Forecast
      - 10.3.1.1.1. By Value
    - 10.3.1.2. Market Share & Forecast
      - 10.3.1.2.1. By Blockchain Type
      - 10.3.1.2.2. By Application
      - 10.3.1.2.3. By Vertical
  - 10.3.2. Colombia Web 3.0 Blockchain Market Outlook
    - 10.3.2.1. Market Size & Forecast
      - 10.3.2.1.1. By Value
    - 10.3.2.2. Market Share & Forecast
      - 10.3.2.2.1. By Blockchain Type
      - 10.3.2.2.2. By Application
      - 10.3.2.2.3. By Vertical
  - 10.3.3. Argentina Web 3.0 Blockchain Market Outlook
    - 10.3.3.1. Market Size & Forecast
      - 10.3.3.1.1. By Value
    - 10.3.3.2. Market Share & Forecast
      - 10.3.3.2.1. By Blockchain Type
      - 10.3.3.2.2. By Application
      - 10.3.3.2.3. By Vertical

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS & DEVELOPMENTS**

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

## **13. GLOBAL WEB 3.0 BLOCKCHAIN MARKET: SWOT ANALYSIS**

## **14. PORTER'S FIVE FORCES ANALYSIS**

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

## **15. COMPETITIVE LANDSCAPE**

- 15.1. Web3 Foundation
  - 15.1.1. Business Overview
  - 15.1.2. Products & Services
  - 15.1.3. Recent Developments
  - 15.1.4. Key Personnel
  - 15.1.5. SWOT Analysis
- 15.2. Helium Systems Inc.
- 15.3. Ocean Protocol Foundation Ltd.
- 15.4. Zel Technologies Limited.
- 15.5. Kusama
- 15.6. Livepeer, Inc.
- 15.7. Filecoin
- 15.8. Kadena LLC
- 15.9. Polygon technology
- 15.10. Terra

## **16. STRATEGIC RECOMMENDATIONS**

## 17. ABOUT US & DISCLAIMER

## I would like to order

Product name: Web 3.0 Blockchain Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Blockchain Type (Public, Private, Consortium and Hybrid), By Application (Cryptocurrency, Conversational AI, Data & Transaction Storage, Payments and Smart Contracts), By Vertical (BFSI, E-commerce & Retail, Media & Entertainment, Healthcare & Pharmaceuticals and IT & Telecom), By Region & Competition, 2021-2031F

Product link: <https://marketpublishers.com/r/W08172C60AE7EN.html>

Price: US\$ 4,500.00 (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/W08172C60AE7EN.html>