

Blockchain Insurance - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

Blockchain Insurance Market Analysis

The Blockchain Insurance Market size is estimated at USD 0.93 billion in 2025, and is expected to reach USD 5.26 billion by 2030, at a CAGR of 41.32% during the forecast period (2025-2030).

Expanding regulatory pressure for real-time reporting, rising fraud losses that top USD 40 billion each year, and the maturation of smart-contract toolkits are combining to accelerate adoption across underwriting, claims, and reinsurance workflows. Cloud platforms now give insurers on-demand ledger infrastructure, while private networks safeguard customer data, resolving a long-standing tension between openness and confidentiality. Rapid growth in parametric insurance, tokenized ILS trading, and ESG-linked audit trails shows how blockchain stretches beyond basic record keeping into entirely new revenue streams. Together, these forces create an environment where first movers can compress operating costs, capture new customers, and satisfy supervisors in one coordinated upgrade to their core systems.

Global Blockchain Insurance Market Trends and Insights

Rising fraud-related losses are demanding tamper-proof claims data

Insurance fraud inflates global claims outlays by more than USD 40 billion each year, and 5-10% of all submissions contain a fraudulent element. Blockchain records lock each event into a shared, append-only ledger, enabling carriers, reinsurers, and TPAs

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to cross-check entries and reject duplicates in seconds. Allianz validated the approach by rolling out a multi-country blockchain claims hub that cut investigation cycle times by 35%. Predictive models now mine the immutable store to uncover suspicious patterns within hours, pivoting anti-fraud tactics from retroactive policing to proactive interdiction. For multicarrier ecosystems, a single source of truth also removes the need for reconciliations, further curbing loss-adjustment expenses.

Smart-contract automation lowers administrative costs

Back-office functions consume up to 40% of an insurer's expense base, yet smart contracts can settle routine claims in minutes rather than weeks. Sompo Japan's train-delay micro-policy pushes payouts instantly once the rail operator's API confirms a service disruption. Across pilots, implementation budgets range from USD 50,000 to USD 2 million, with average payback within 18 months thanks to labor savings. Rigorous code audits are essential because decentralized hacks siphoned USD 2.2 billion from DeFi protocols in 2024. Standardized security frameworks and regulator-approved templates are emerging to balance speed with consumer protection.

Blockchain scalability and interoperability limitations

Mainnet Ethereum processes 15 TPS while major card networks handle thousands, forcing insurers to wrestle with throughput ceilings. Layer-2 channels and sharding raise capacity yet add architectural complexity that boosts audit costs. In 2024, the Ethereum Enterprise Alliance published cross-chain specs, though adoption is still uneven. Vendors try to ease lock-in by offering API bridges, but few mission-critical insurance deployments trust immature cross-chain routing today. Until shared standards gain traction, large programmes opt for closed, high-performance ledgers, limiting ecosystem knits and slowing network effects.

Other drivers and restraints analyzed in the detailed report include:

Regulatory mandates for real-time reporting and transparency / Parametric micro-insurance for climate and crop risks in emerging markets / Data-privacy regulations are complicating immutable ledgers /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Cloud-hosted ledgers controlled 65% of the blockchain in the insurance market in 2024 and are projected to log a 42.13% CAGR through 2030, a pace that underscores carriers' preference for outsourcing node maintenance and uptime assurance. In monetary terms, the cloud slice of the blockchain in the insurance market size is expected to climb from USD 0.60 billion in 2025 to more than USD 3.5 billion by the end of the decade, reflecting rapid scale gains without large capital outlays. Subscription models allow firms to align costs with transaction volumes, while pre-configured governance modules shorten build cycles from months to weeks.

On-premise deployments keep a foothold among reinsurers that juggle cross-border treaty data under local-host strictures. Implementation budgets here can top USD 2 million, but the trade-off buys total hardware control and tailored security postures that some risk committees demand. Hybrid blueprints now splice on-prem custody of sensitive claims images with cloud analytics for fraud scoring, blending compliance assurance with elastic compute. This architectural flexibility ensures the blockchain in the insurance market can serve both multinational groups navigating patchwork rules and smaller carriers aiming for quick wins.

Private ledgers held 62% of the blockchain in the insurance market in 2024 as C-suites prioritised permissioned access that meets prudential audit norms. That dominance translates into USD 0.58 billion of the blockchain in insurance market size in 2025, and growth continues at 36% annually as insurers wrap existing policy systems with private APIs rather than expose data to public

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miners. Consortium frameworks grow faster still, expanding 43.03% a year as carriers co-fund shared utilities like policy verification hubs.

RiskStream Collaborative exemplifies the model, letting members cut development spend by 40% while retaining product differentiation. Public chains remain niche because supervisors worry about data jurisdiction and throughput, yet zero-knowledge rollups hint at future convergence by permitting private computation on shared settlement layers. Over the forecast horizon, hybrid constructs that record proofs to a public chain while storing sensitive fields in an enclave may capture outsized interest, giving carriers a "best of both worlds" path to openness and control.

The Blockchain Insurance Market Report is Segmented by Deployment (On-Premise and Cloud-Based), Blockchain Type (Public, Private, and Consortium/Hybrid), Application (Governance, Risk and Compliance [GRC], Smart Contract and Parametric Insurance, Payments and Financial Management, Identity Management and Fraud Detection and More), Enterprise Size (Large Enterprises and Small and Medium Enterprises), and Geography.

Geography Analysis

North America captured 45% of global revenue in 2024, equal to nearly USD 0.42 billion of the blockchain in insurance market size, underpinned by clear supervisory sandboxes and plentiful venture capital. The National Association of Insurance Commissioners actively studies distributed ledgers, giving carriers confidence to scale proofs into live production. Canada's principles-based crypto rules complement the United States' initiatives, while Mexico's cross-border trade agreements incentivise regional policy verification platforms. Mature personal-lines books offer test beds where carriers like Nationwide trial real-time proof-of-insurance certificates.

Asia Pacific is the growth pacesetter at 43.07% CAGR and could exceed North American spending by 2029. China's National Financial Regulatory Administration endorses permissioned chains anchored in sovereign cloud clusters, and scores of mainland insurers are piloting blockchain claims orchestration. Japan's Financial Services Agency plans economic value-based solvency metrics for 2026 that favour real-time ledger feeds, amplifying incentives for domestic carriers. India spearheads parametric flood and crop pilots using weather-oracle smart contracts that slash rural payout times from weeks to days.

Europe weighs privacy risks against transparency value. Only 15% of undertakings reported active blockchain use to EIOPA in 2024, yet firms experiment with zero-knowledge proof overlay networks to satisfy GDPR while keeping audit trails visible. The region's climate agenda sparks the development of on-chain ESG assurance products, positioning European vendors to export compliance-by-design blueprints to other jurisdictions. Once supervisory guidance harmonises, analysts see a step-change in EU volumes that will expand the blockchain in the insurance market well beyond today's cautious proofs.

List of Companies Covered in this Report:

IBM Corporation / Microsoft Corporation / Amazon Web Services (AWS) / Oracle Corporation / SAP SE / ChainThat Limited / Auxesis Group / Guardtime AS / Symbiont.io Inc. / B3i Services AG / ConsenSys AG / R3 LLC / Deloitte Touche Tohmatsu / Cognizant Technology Solutions / Wipro Ltd. / Allianz SE / AXA SA / Zurich Insurance Group / Lemonade Inc. / Etherisc GmbH / Sompo Japan Insurance / AIG Inc. / Etherisc GmbH / BlockClaim / Nayms / Munich Re /

Additional Benefits:

 The market estimate (ME) sheet in Excel format /
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Table of Contents:

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1 INTRODUCTION

1.1 Study Assumptions and Market Definition

1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET LANDSCAPE

4.1 Market Overview

4.2 Market Drivers

4.2.1 Rising fraud-related losses demanding tamper-proof claims data

4.2.2 Smart-contract automation lowering administrative costs

4.2.3 Regulatory mandates for real-time reporting and transparency

4.2.4 Parametric micro-insurance for climate and crop risks in emerging markets

4.2.5 On-chain tokenization of risk portfolios and ILS trading

4.2.6 ESG audit trails driving verifiable carbon-offset underwriting

4.3 Market Restraints

4.3.1 Blockchain scalability and interoperability limitations

4.3.2 Data-privacy regulations complicating immutable ledgers

4.3.3 Scarcity of actuarial talent with Web3 skillsets

4.3.4 Growing cyber-attacks on smart-contract codebases

4.4 Value/Supply-Chain Analysis

4.5 Regulatory Landscape

4.6 Technological Outlook

4.7 Porter's Five Forces Analysis

4.7.1 Threat of New Entrants

4.7.2 Bargaining Power of Buyers

4.7.3 Bargaining Power of Suppliers

4.7.4 Threat of Substitutes

4.7.5 Intensity of Competitive Rivalry

5 MARKET SIZE AND GROWTH FORECASTS (VALUE)

5.1 By Deployment

5.1.1 On-Premise

5.1.2 Cloud-Based

5.2 By Blockchain Type

5.2.1 Public

5.2.2 Private

5.2.3 Consortium/Hybrid

5.3 By Application

5.3.1 Governance, Risk and Compliance (GRC)

5.3.2 Smart Contract and Parametric Insurance

5.3.3 Payments and Financial Management

5.3.4 Identity Management and Fraud Detection

5.3.5 Claims and Death Management

5.3.6 Reinsurance and P2P Insurance

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5.3.7 Customer On-Boarding and KYC

5.3.8 Other Applications

5.4 By Enterprise Size

5.4.1 Large Enterprises

5.4.2 Small and Medium Enterprises

5.5 By Geography

5.5.1 North America

5.5.1.1 United States

5.5.1.2 Canada

5.5.1.3 Mexico

5.5.2 Europe

5.5.2.1 United Kingdom

5.5.2.2 Germany

5.5.2.3 France

5.5.2.4 Italy

5.5.2.5 Spain

5.5.2.6 Netherlands

5.5.2.7 Rest of Europe

5.5.3 Asia-Pacific

5.5.3.1 China

5.5.3.2 Japan

5.5.3.3 India

5.5.3.4 Singapore

5.5.3.5 South Korea

5.5.3.6 Rest of Asia-Pacific

5.5.4 South America

5.5.4.1 Brazil

5.5.4.2 Argentina

5.5.4.3 Colombia

5.5.4.4 Rest of South America

5.5.5 Middle East and Africa

5.5.5.1 Middle East

5.5.5.1.1 Turkey

5.5.5.1.2 Saudi Arabia

5.5.5.1.3 United Arab Emirates

5.5.5.1.4 Israel

5.5.5.1.5 Rest of Middle East

5.5.5.2 Africa

5.5.5.2.1 South Africa

5.5.5.2.2 Nigeria

5.5.5.2.3 Kenya

5.5.5.2.4 Rest of Africa

6 COMPETITIVE LANDSCAPE

6.1 Market Concentration

6.2 Strategic Moves

6.3 Market Share Analysis

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6.4 Company Profiles (includes Global level Overview, Market level overview, Core Segments, Financials as available, Strategic Information, Market Rank/Share for key companies, Products and Services, and Recent Developments)

6.4.1 IBM Corporation

6.4.2 Microsoft Corporation

6.4.3 Amazon Web Services (AWS)

6.4.4 Oracle Corporation

6.4.5 SAP SE

6.4.6 ChainThat Limited

6.4.7 Auxesis Group

6.4.8 Guardtime AS

6.4.9 Symbiont.io Inc.

6.4.10 B3i Services AG

6.4.11 ConsenSys AG

6.4.12 R3 LLC

6.4.13 Deloitte Touche Tohmatsu

6.4.14 Cognizant Technology Solutions

6.4.15 Wipro Ltd.

6.4.16 Allianz SE

6.4.17 AXA SA

6.4.18 Zurich Insurance Group

6.4.19 Lemonade Inc.

6.4.20 Etherisc GmbH

6.4.21 Sompo Japan Insurance

6.4.22 AIG Inc.

6.4.23 Etherisc GmbH

6.4.24 BlockClaim

6.4.25 Nayms

6.4.26 Munich Re

7 MARKET OPPORTUNITIES AND FUTURE OUTLOOK

7.1 White-Space and Unmet-Need Assessment

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