

Blockchain-Enabled Packaging Market Size, Share & Trends Analysis Report By Packaging Layer (Primary Packaging, Secondary Packaging, Tertiary Packaging), By Solution Type, By Identification Technology, By End Use, By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

The global blockchain-enabled packaging market size was valued at USD 956.8 million in 2025 and is projected to grow from USD 1,056.3 million in 2026 to USD 2,904.7 million by 2033, at a CAGR of 15.5% from 2026 to 2033. The market in North America dominated with a revenue share of 34.2% in 2025. The market growth is primarily driven by the rising need for product authentication, anti-counterfeiting, supply chain transparency, real-time traceability, and regulatory compliance, particularly across pharmaceuticals, food & beverages, and consumer goods.

Growing e-commerce activity and increasing concerns over counterfeit products are further encouraging brands to integrate blockchain with smart packaging solutions. The blockchain-enabled packaging industry's growth is driven by the increasing adoption of digital traceability, product authentication, and supply chain transparency across global packaging networks. As manufacturers, brand owners, retailers, and logistics providers increasingly seek real-time visibility of products throughout their distribution networks, blockchain-enabled packaging solutions are gaining importance. Primary packaging represents the largest segment, accounting for 54.9% of the market in 2025 and is projected to expand at a CAGR of 16.0% from 2026 to 2033, supported by the integration of QR codes, NFC, RFID, and other digital identification technologies directly onto product packaging.

An increasing focus on anti-counterfeiting, regulatory compliance, and product provenance across sensitive supply chains is expected to support market growth in the coming years. Industries such as pharmaceuticals, food & beverages, luxury goods, and consumer products are increasingly adopting blockchain-enabled primary and secondary packaging to verify product authenticity, monitor product movement, and provide tamper-resistant transaction records. The pharmaceutical and healthcare sector is particularly significant, with the end-use segment projected to grow at a 16.2% CAGR from 2026 to 2033, driven by the need for secure product tracking and compliance throughout complex distribution networks.

The transition toward circular economy practices and digitally connected packaging systems is also contributing to market expansion. Blockchain-enabled packaging allows brands to maintain digital records of packaging usage, ownership, recycling, and product lifecycle information, supporting greater transparency in circular supply chains. This is reflected in the Lifecycle & Circularity solution segment, which is projected to register the fastest CAGR of 16.1% from 2026 to 2033. At the same time, QR and 2D codes remain the leading identification technology, accounting for 46.2% of market revenue in 2025, due to their scalability, low implementation cost, and compatibility with consumer-facing digital engagement.

For instance, the increasing integration of QR codes, RFID, NFC, and digital watermarks with blockchain platforms is enabling companies to create unique digital identities for packaged products and connect physical packaging with secure digital records. Such developments are expected to strengthen product authentication, improve supply chain visibility, enhance consumer trust, and support the broader adoption of blockchain-enabled packaging across primary, secondary, and tertiary packaging formats.

Global Blockchain-Enabled Packaging Market Report Segmentation

This report forecasts revenue growth at the global, regional & country levels and provides an analysis of the latest industry trends and opportunities in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the blockchain-enabled packaging market report based on packaging layer, solution type, identification technology, end use, and region:

Packaging Layer Outlook (Revenue, USD Million, 2021 - 2033)

Primary Packaging

Secondary Packaging

Tertiary Packaging

Solution Type Outlook (Revenue, USD Million, 2021 - 2033)

Traceability & Provenance

Authentication & Anti-Counterfeiting

Lifecycle & Circularity

Condition & Compliance Verification

Consumer Engagement & Other Solutions

Identification Technology Outlook (Revenue, USD Million, 2021 - 2033)

QR & 2D Codes

RFID

NFC

Digital Watermarks

Other Technologies

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Food & Beverage

Consumer Goods & Retail

Luxury Goods & Apparel

Pharmaceuticals & Healthcare

Cosmetics & Personal Care

Industrial & Other Products

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Asia Pacific

China

India

Japan

South Korea

Australia

Latin America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

UAE

South Africa

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Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Purchased Database
 - 1.3.2. GVR's Internal Database
 - 1.3.3. Secondary Types & Third-Party Perspectives
 - 1.3.4. Primary Research
- 1.4. Information Analysis
 - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. Data Validation & Publishing

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Insights
- 2.2. Segmental Outlook
- 2.3. Competitive Outlook

CHAPTER 3. BLOCKCHAIN-ENABLED PACKAGING MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Market Lineage Outlook
 - 3.1.1. Parent Market Outlook
- 3.2. Penetration & Growth Prospect Mapping
- 3.3. Industry Value Chain Analysis
 - 3.3.1. Raw Material Trends
 - 3.3.1.1. Smart Packaging Substrates
 - 3.3.1.2. Digital Identification & Tagging Components
 - 3.3.2. Sales Channel Analysis
- 3.4. Technology Overview
 - 3.4.1. Blockchain-Based Traceability & Data Management
 - 3.4.2. Smart Identification & Connected Packaging Technologies
 - 3.4.3. Manufacturing Trends
- 3.5. Sustainability Trends
 - 3.5.1. Impact of Circular Economy

- 3.5.1.1. Blockchain-Enabled Circularity & Product Lifecycle Traceability
- 3.5.1.2. Digital Product Passports & Recycling Transparency
- 3.5.2. Reusability Trends
- 3.6. Regulatory Framework
 - 3.6.1. EU Ecodesign for Sustainable Products Regulation (ESPR) - Regulation (EU) 2024/1781
 - 3.6.2. EU General Data Protection Regulation (GDPR) - Regulation (EU) 2016/679
- 3.7. Market Dynamics
 - 3.7.1. Market Driver Analysis
 - 3.7.2. Market Restraint Analysis
 - 3.7.3. Industry Challenges
 - 3.7.4. Industry Opportunities
- 3.8. Porter's Five Forces Analysis
 - 3.8.1. Supplier Power
 - 3.8.2. Buyer Power
 - 3.8.3. Substitution Threat
 - 3.8.4. Threat from New Entrants
 - 3.8.5. Competitive Rivalry
- 3.9. PESTEL Analysis
 - 3.9.1. Political Landscape
 - 3.9.2. Economic Landscape
 - 3.9.3. Social Landscape
 - 3.9.4. Technological Landscape
 - 3.9.5. Environmental Landscape
 - 3.9.6. Legal Landscape

CHAPTER 4. BLOCKCHAIN-ENABLED PACKAGING MARKET: COMMERCIAL ANALYSIS

- 4.1. Pricing requirements
- 4.2. Channel mapping
- 4.3. TAM-SAM-SOM
- 4.4. Market-entry recommendations
- 4.5. Partner identification
- 4.6. Competitor product comparison

CHAPTER 5. BLOCKCHAIN-ENABLED PACKAGING MARKET: PACKAGING LAYER ESTIMATES & TREND ANALYSIS

- 5.1. Definition & Scope
- 5.2. Key Takeaways
- 5.3. Packaging Layer Movement Analysis & Market Share, 2025 & 2033
 - 5.3.1. Primary Packaging
 - 5.3.1.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)
 - 5.3.2. Secondary Packaging
 - 5.3.2.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)
 - 5.3.3. Tertiary Packaging
 - 5.3.3.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

CHAPTER 6. BLOCKCHAIN-ENABLED PACKAGING MARKET: SOLUTION TYPE ESTIMATES & TREND ANALYSIS

- 6.1. Definition & Scope
- 6.2. Key Takeaways
- 6.3. Solution Type Movement Analysis & Market Share, 2025 & 2033
 - 6.3.1. Traceability & Provenance
 - 6.3.1.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)
 - 6.3.2. Authentication & Anti-Counterfeiting
 - 6.3.2.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)
 - 6.3.3. Lifecycle & Circularity
 - 6.3.3.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)
 - 6.3.4. Condition & Compliance Verification
 - 6.3.4.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)
 - 6.3.5. Consumer Engagement & Other Solutions
 - 6.3.5.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

CHAPTER 7. BLOCKCHAIN-ENABLED PACKAGING MARKET: IDENTIFICATION TECHNOLOGY ESTIMATES & TREND ANALYSIS

- 7.1. Definition & Scope
- 7.2. Key Takeaways
- 7.3. Identification Technology Movement Analysis & Market Share, 2025 & 2033
 - 7.3.1. QR & 2D Codes
 - 7.3.1.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)
 - 7.3.2. RFID
 - 7.3.2.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)
 - 7.3.3. NFC
 - 7.3.3.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

7.3.4. Digital Watermarks

7.3.4.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

7.3.5. Other Technologies

7.3.5.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

CHAPTER 8. BLOCKCHAIN-ENABLED PACKAGING MARKET: END USE ESTIMATES & TREND ANALYSIS

8.1. Definition & Scope

8.2. Key Takeaways

8.3. End Use Movement Analysis & Market Share, 2025 & 2033

8.3.1. Food & Beverage

8.3.1.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

8.3.2. Consumer Goods & Retail

8.3.2.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

8.3.3. Luxury Goods & Apparel

8.3.3.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

8.3.4. Pharmaceuticals & Healthcare

8.3.4.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

8.3.5. Cosmetics & Personal Care

8.3.5.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

8.3.6. Industrial & Other Products

8.3.6.1. Market estimates and forecasts, 2021 - 2033 (USD Million)

CHAPTER 9. BLOCKCHAIN-ENABLED PACKAGING MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

9.1. Key Takeaways

9.2. Regional Movement Analysis & Market Share, 2025 & 2033

9.3. North America

9.3.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.3.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.3.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.3.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.3.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.3.6. U.S.

9.3.6.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.3.6.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.3.6.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.3.6.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.3.6.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.3.7. Canada

9.3.7.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.3.7.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.3.7.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.3.7.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.3.7.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.3.8. Mexico

9.3.8.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.3.8.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.3.8.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.3.8.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.3.8.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.4. Europe

9.4.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.4.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.4.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.4.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.4.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.4.6. Germany

9.4.6.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.4.6.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.4.6.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.4.6.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.4.6.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.4.7. UK

9.4.7.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.4.7.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.4.7.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.4.7.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.4.7.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.4.8. France

9.4.8.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.4.8.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.4.8.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.4.8.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.4.8.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.4.9. Italy

9.4.9.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.4.9.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.4.9.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.4.9.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.4.9.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.4.10. Spain

9.4.10.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.4.10.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.4.10.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.4.10.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.4.10.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.5. Asia Pacific

9.5.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.5.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.5.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.5.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.5.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.5.6. China

9.5.6.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.5.6.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.5.6.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.5.6.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.5.6.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.5.7. India

9.5.7.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.5.7.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.5.7.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.5.7.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.5.7.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.5.8. Japan

9.5.8.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.5.8.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.5.8.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.5.8.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.5.8.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.5.9. South Korea

9.5.9.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.5.9.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.5.9.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.5.9.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.5.9.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.5.10. Australia

9.5.10.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.5.10.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.5.10.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.5.10.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.5.10.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.6. Latin America

9.6.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.6.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.6.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.6.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.6.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.6.6. Brazil

9.6.6.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.6.6.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.6.6.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.6.6.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.6.6.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.6.7. Argentina

9.6.7.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.6.7.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.6.7.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.6.7.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.6.7.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.7. Middle East & Africa

9.7.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.7.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

9.7.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)

9.7.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)

9.7.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

9.7.6. Saudi Arabia

9.7.6.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.7.6.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)

- 9.7.6.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)
- 9.7.6.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)
- 9.7.6.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)
- 9.7.7. South Africa
 - 9.7.7.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)
 - 9.7.7.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)
 - 9.7.7.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)
 - 9.7.7.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)
 - 9.7.7.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)
- 9.7.8. UAE
 - 9.7.8.1. Market Estimates and Forecasts, 2021 - 2033 (USD Million)
 - 9.7.8.2. Market Estimates and Forecasts, by Packaging Layer, 2021 - 2033 (USD Million)
 - 9.7.8.3. Market Estimates and Forecasts, by Solution Type, 2021 - 2033 (USD Million)
 - 9.7.8.4. Market Estimates and Forecasts, by Identification Technology, 2021 - 2033 (USD Million)
 - 9.7.8.5. Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

CHAPTER 10. COMPETITIVE LANDSCAPE

- 10.1. Recent Developments & Impact Analysis, By Key Market Participants
- 10.2. Vendor Landscape
 - 10.2.1. Company Categorization
 - 10.2.2. Raw Material Suppliers & Channel Partners
 - 10.2.3. List of Potential Customers/End users
- 10.3. Competitive Dynamics
 - 10.3.1. Company Market Positioning Analysis
 - 10.3.2. Strategy Mapping
 - 10.3.3. Heat Map Analysis
- 10.4. Company Profiles/Listing
 - 10.4.1. Avery Dennison
 - 10.4.1.1. Participant's Overview
 - 10.4.1.2. Financial Performance
 - 10.4.1.3. Product Benchmarking
 - 10.4.2. Kezzler
 - 10.4.2.1. Participant's Overview

- 10.4.2.2. Financial Performance
- 10.4.2.3. Product Benchmarking
- 10.4.3. Tetra Pak International S.A.
 - 10.4.3.1. Participant's Overview
 - 10.4.3.2. Financial Performance
 - 10.4.3.3. Product Benchmarking
- 10.4.4. OPTEL Group
 - 10.4.4.1. Participant's Overview
 - 10.4.4.2. Financial Performance
 - 10.4.4.3. Product Benchmarking
- 10.4.5. Identiv Inc.
 - 10.4.5.1. Participant's Overview
 - 10.4.5.2. Financial Performance
 - 10.4.5.3. Product Benchmarking
- 10.4.6. DMRC LLC
 - 10.4.6.1. Participant's Overview
 - 10.4.6.2. Financial Performance
 - 10.4.6.3. Product Benchmarking
- 10.4.7. Systech
 - 10.4.7.1. Participant's Overview
 - 10.4.7.2. Financial Performance
 - 10.4.7.3. Product Benchmarking
- 10.4.8. Scantrust
 - 10.4.8.1. Participant's Overview
 - 10.4.8.2. Financial Performance
 - 10.4.8.3. Product Benchmarking
- 10.4.9. Zircon Technologies
 - 10.4.9.1. Participant's Overview
 - 10.4.9.2. Financial Performance
 - 10.4.9.3. Product Benchmarking
- 10.4.10. Zebra Technologies Corp.
 - 10.4.10.1. Participant's Overview
 - 10.4.10.2. Financial Performance
 - 10.4.10.3. Product Benchmarking
- 10.4.11. Everledger Limited
 - 10.4.11.1. Participant's Overview
 - 10.4.11.2. Financial Performance
 - 10.4.11.3. Product Benchmarking

List Of Tables

LIST OF TABLES

Table 1 Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, By Packaging Layer, 2021 - 2033 (USD Million)

Table 2 Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, By Solution Type, 2021 - 2033 (USD Million)

Table 3 Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, By Identification Technology, 2021 - 2033 (USD Million)

Table 4 Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, By End Use, 2021 - 2033 (USD Million)

Table 5 North America Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 6 North America Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 7 North America Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 8 North America Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 9 North America Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 10 U.S. Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 11 U.S. Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 12 U.S. Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 13 U.S. Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 14 U.S. Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 15 Canada Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 16 Canada Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 17 Canada Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 18 Canada Blockchain-Enabled Packaging Market Revenue Estimates and

Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 19 Canada Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 20 Mexico Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 21 Mexico Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 22 Mexico Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 23 Mexico Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 24 Mexico Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 25 Europe Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 26 Europe Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 27 Europe Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 28 Europe Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 29 Europe Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 30 Germany Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 31 Germany Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 32 Germany Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 33 Germany Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 34 Germany Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 35 UK Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 36 UK Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 37 UK Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 38 UK Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 39 UK Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 40 France Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 41 France Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 42 France Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 43 France Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 44 France Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 45 Italy Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 46 Italy Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 47 Italy Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 48 Italy Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 49 Italy Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 50 Spain Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 51 Spain Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 52 Spain Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 53 Spain Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 54 Spain Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 55 Asia Pacific Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 56 Asia Pacific Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 57 Asia Pacific Blockchain-Enabled Packaging Market Revenue Estimates and

Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 58 Asia Pacific Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 59 Asia Pacific Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 60 China Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 61 China Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 62 China Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 63 China Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 64 China Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 65 India Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 66 India Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 67 India Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 68 India Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 69 India Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 70 Japan Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 71 Japan Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 72 Japan Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 73 Japan Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 74 Japan Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 75 South Korea Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 76 South Korea Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 77 South Korea Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 78 South Korea Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 79 South Korea Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 80 Latin America Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 81 Latin America Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 82 Latin America Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 83 Latin America Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 84 Latin America Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 85 Brazil Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 86 Brazil Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 87 Brazil Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 88 Brazil Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 89 Brazil Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 90 Argentina Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 91 Argentina Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 92 Argentina Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 93 Argentina Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 94 Argentina Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 95 Middle East & Africa Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 96 Middle East & Africa Blockchain-Enabled Packaging Market Revenue

Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 97 Middle East & Africa Blockchain-Enabled Packaging Market Revenue

Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 98 Middle East & Africa Blockchain-Enabled Packaging Market Revenue

Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 99 Middle East & Africa Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 100 Saudi Arabia Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 101 Saudi Arabia Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 102 Saudi Arabia Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 103 Saudi Arabia Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 104 Saudi Arabia Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 105 UAE Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 106 UAE Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 107 UAE Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 108 UAE Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 109 UAE Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

Table 110 South Africa Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, 2021 - 2033 (USD Million)

Table 111 South Africa Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Packaging Layer, 2021 - 2033 (USD Million)

Table 112 South Africa Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Solution Type, 2021 - 2033 (USD Million)

Table 113 South Africa Blockchain-Enabled Packaging Market Revenue Estimates and Forecast, by Identification Technology, 2021 - 2033 (USD Million)

Table 114 South Africa Blockchain-Enabled Packaging Market Estimates and Forecasts, By End Use, 2021 - 2033 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 Information procurement
- Fig. 2 Primary research pattern
- Fig. 3 Primary Research Process
- Fig. 4 Market research approaches - Bottom-Up Approach
- Fig. 5 Market research approaches - Top-Down Approach
- Fig. 6 Market research approaches - Combined Approach
- Fig. 7 Blockchain-Enabled Packaging Market- Market Snapshot
- Fig. 8 Blockchain-Enabled Packaging Market- Segment Snapshot (1/2)
- Fig. 9 Blockchain-Enabled Packaging Market- Segment Snapshot (2/2)
- Fig. 10 Blockchain-Enabled Packaging Market- Competitive Landscape Snapshot
- Fig. 11 Blockchain-Enabled Packaging Market: Value Chain Analysis
- Fig. 12 Blockchain-Enabled Packaging Market: Porter's Five Force Analysis
- Fig. 13 Blockchain-Enabled Packaging Market: PESTEL Analysis
- Fig. 14 Blockchain-Enabled Packaging Market: Packaging Layer movement analysis, 2025 & 2033
- Fig. 15 Blockchain-Enabled Packaging Market: Solution Type movement analysis, 2025 & 2033
- Fig. 16 Blockchain-Enabled Packaging Market: Identification Technology movement analysis, 2025 & 2033
- Fig. 17 Blockchain-Enabled Packaging Market: End Use movement analysis, 2025 & 2033
- Fig. 18 Blockchain-Enabled Packaging Market: Regional movement analysis, 2025 & 2033
- Fig. 19 Blockchain-Enabled Packaging Market: Strategy Mapping
- Fig. 20 Blockchain-Enabled Packaging Market: Market Positioning Analysis

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