

Digital Circularity Management Market Forecasts to 2034 – Global Analysis By Solution (Digital Product Passports, Material Traceability Platforms, Circular Design Software, Lifecycle Assessment Tools, Reverse Logistics Management, Marketplace Integration and Compliance and Reporting), Deployment, Technology, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Digital Circularity Management Market is accounted for \$1.2 billion in 2026 and is expected to reach \$2.7 billion by 2034 growing at a CAGR of 10.6% during the forecast period. Digital circularity management platforms refer to integrated software systems that capture, organize, and share product and material information across a value chain to support reuse, repair, and recycling. These platforms combine digital product passports, traceability tools, lifecycle assessment modules, and reporting interfaces, drawing on data from manufacturing, logistics, and end-of-life processing. They use cloud infrastructure, application programming interfaces, and standardized data schemas to connect manufacturers, suppliers, recyclers, and regulators within a unified information environment, enabling consistent tracking of materials, components, and products from origin through multiple use cycles.

Market Dynamics:

Driver:

Extended producer responsibility mandates

Regulators across major economies are tightening extended producer responsibility frameworks, requiring manufacturers to document material composition, recyclability, and end-of-life pathways for products sold within their jurisdictions. Companies must now maintain auditable digital records covering sourcing, production, and disposal stages. This regulatory pressure compels organizations to adopt centralized platforms capable of aggregating supplier data, generating compliance reports, and demonstrating progress toward circularity targets, thereby creating durable demand for digital circularity management software across manufacturing, retail, and packaging sectors worldwide.

Restraint:

Fragmented data standards

Inconsistent data formats and labeling conventions across suppliers, regions, and industries complicate efforts to build unified circularity records. Many manufacturers still rely on spreadsheets, paper documentation, or proprietary enterprise systems that do not interoperate easily with modern platforms. Integrating legacy data sources requires extensive cleansing and mapping work before meaningful traceability becomes possible. This fragmentation increases implementation timelines and costs, discouraging smaller suppliers from participating fully and limiting the completeness of circularity data available to platform operators and their corporate customers.

Opportunity:

AI-driven material recovery insights

Artificial intelligence and machine learning algorithms can analyze historical product data, usage patterns, and material flows to predict optimal recovery pathways and recommend design changes that improve recyclability. Vendors are embedding these capabilities into existing platforms, allowing brands to simulate circular scenarios before committing to production changes. As computing costs decline and algorithms mature, predictive analytics features are becoming standard offerings, opening opportunities for platform providers to capture premium pricing through advanced modules tailored to sustainability and design teams.

Threat:

Cybersecurity and data privacy risks

Centralizing detailed product, supplier, and material data within cloud platforms increases exposure to cyberattacks and unauthorized access. Competitors or malicious actors could exploit vulnerabilities to obtain proprietary formulation details, supplier relationships, or pricing information embedded within circularity records. High-profile breaches involving sustainability platforms could undermine corporate confidence in sharing sensitive data externally, slowing adoption among companies with strict intellectual property protection policies and prompting costly investments in encryption, access controls, and compliance certifications.

Covid-19 Impact:

The pandemic initially disrupted supply chains, delaying digital circularity pilot programs as manufacturers prioritized operational continuity over sustainability initiatives. Mid-pandemic, remote work accelerated cloud software adoption broadly, indirectly benefiting circularity platform vendors. Post-pandemic, heightened awareness of supply chain vulnerabilities and resource scarcity reinforced corporate sustainability commitments, driving renewed investment in traceability and circularity software as companies sought resilience alongside environmental compliance.

The digital product passports segment is expected to be the largest during the forecast period

The digital product passports segment is expected to account for the largest market share during the forecast period, due to regulatory mandates requiring standardized product-level data records across the European Union and other jurisdictions. Brands view digital product passports as foundational infrastructure that supports compliance reporting, consumer transparency, and downstream recycling coordination. Their broad applicability across fashion, electronics, and packaging industries, combined with mandatory implementation timelines, sustains continued investment and positions this segment as the dominant revenue contributor.

The AI and machine learning segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the AI and machine learning segment is predicted to witness the highest growth rate, driven by increasing demand for predictive analytics that

optimize material recovery and design decisions. Vendors are embedding machine learning models into traceability platforms to forecast product lifespans, detect anomalies in supply chains, and recommend circular design alternatives. As algorithms improve and training data volumes expand across industries, adoption accelerates rapidly, positioning this technology segment for the fastest expansion among all platform components.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, due to early corporate adoption of sustainability software and strong presence of enterprise technology vendors. The United States leads with major brands in fashion, electronics, and consumer goods piloting traceability platforms ahead of anticipated regulation. Canada contributes through government-backed circular economy initiatives. Companies including SAP SE, IBM Corporation, and Microsoft Corporation maintain substantial regional operations supporting platform deployment and integration services.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, due to rapid manufacturing sector digitization and emerging extended producer responsibility regulations across China, Japan, and South Korea. Government programs promoting circular manufacturing hubs encourage local suppliers to adopt traceability software for export compliance. Rising consumer awareness and growing electronics and textile manufacturing bases create substantial demand catalysts, while regional technology providers expand affordable platform offerings tailored to small and medium manufacturers.

Key players in the market

Some of the key players in Digital Circularity Management Market include SAP SE, IBM Corporation, Microsoft Corporation, Accenture plc, Schneider Electric SE, Circularise B.V., Rheaply, Inc., Dassault Systèmes SE, Oracle Corporation, Landbell Group, Anthesis Group, iPoint-systems gmbh, One Click LCA Ltd., T?V S?D AG, Suez S.A., numi. circular and Treeni Sustainability Solutions.

Key Developments:

In June 2026, iPoint-systems gmbh introduced an enhanced compliance reporting platform integrating regulatory databases from multiple regions, helping manufacturers automate extended producer responsibility filings and reduce administrative burden.

In May 2026, Circularise B.V. launched an updated material traceability module enabling automated digital product passport generation for textile and electronics manufacturers across European supply chains, supporting upcoming regulatory deadlines.

In April 2026, SAP SE expanded its sustainability cloud suite with new lifecycle assessment tools, allowing enterprise customers to model circular design scenarios and track recycled content across global manufacturing operations.

Solutions Covered:

Digital Product Passports

Material Traceability Platforms

Circular Design Software

Lifecycle Assessment Tools

Reverse Logistics Management

Marketplace Integration

Compliance and Reporting

Deployments Covered:

SaaS

Enterprise License

Managed Services

Technologies Covered:

Blockchain

IoT and Smart Tagging

AI and Machine Learning

Cloud Platforms

API Integration

Applications Covered:

Supply Chain Transparency

Extended Producer Responsibility

Waste Flow Optimization

Product-as-a-Service Enablement

Recycled Content Verification

Regulatory Compliance

End Users Covered:

Fashion and Apparel

Electronics

Automotive

Packaging

Construction

Food and Agriculture

Consumer Goods

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of 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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

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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