

# Digital Circular Economy Market by Offering (Software (Circular Design & Prototyping Software, Blockchain & Traceability Software), Services), Application (Digital Resale & Reuse), Technology (IoT, AI & ML), Vertical and Region - Global Forecast to 2028

<https://marketpublishers.com/r/D7AF4E03FE0AEN.html>

Date: November 2023

Pages: 466

Price: US\$ 4,950.00 (Single User License)

ID: D7AF4E03FE0AEN

## Abstracts

The digital circular economy market is projected to grow from USD 2.2 billion in 2023 to USD 6.7 billion by 2028, at a compound annual growth rate (CAGR) of 24.3% during the forecast period. The growth of the digital circular economy market is primarily driven by rising awareness of reducing e-waste, increasing regulatory pressure from governments to comply with sustainable practices, and infusion of AI with recycling techniques to enhance resource reutilization.

“By offering, service segment is expected to register the fastest market growth rate during the forecast period”

The services segment in the digital circular economy market is poised for the fastest growth rate, majorly propelled by a surge in demand for consulting, advisory, and implementation services as the complexity of implementing digital circular economy strategies necessitates specialized expertise. Companies are increasingly seeking guidance to navigate the integration of technologies like AI, IoT, and blockchain into their circular practices. Additionally, the dynamic nature of technology and sustainability regulations requires ongoing support and updates, making services a crucial component for sustained success.

“By technology, IoT segment is expected to account for the largest market share during the forecast period”

The IoT technology segment is anticipated to dominate the digital circular economy market, primarily due to its instrumental role in enhancing visibility, traceability, and efficiency across circular processes. IoT facilitates real-time monitoring and data collection throughout the product lifecycle, enabling seamless tracking of resources, from production to disposal. This level of connectivity optimizes supply chains, promotes responsible consumption, and supports circular practices such as recycling and remanufacturing. As industries increasingly prioritize sustainability, the demand for IoT-enabled solutions to monitor and manage resource flows grows substantially.

“By Region, Asia Pacific is slated to grow at the fastest rate and Europe to have the largest market share during the forecast period”

APAC is expected to witness the fastest growth in the digital circular economy market due to the region's rapid economic development and industrialization, which contribute to increased adoption of digital technologies for sustainable practices. Countries like China and India are witnessing a surge in awareness about environmental issues, prompting businesses to embrace digital solutions for resource efficiency and circular economy practices. Europe is set to account for the largest market share owing to its proactive approach towards environmental regulations and sustainability. Stringent policies, such as the Circular Economy Action Plan, drive European businesses to integrate digital solutions for optimal resource management, waste reduction, and responsible consumption.

#### Breakdown of primaries

In-depth interviews were conducted with Chief Executive Officers (CEOs), vice presidents, innovation and technology directors, system integrators, and executives from various key organizations operating in the Digital circular economy market.

By Company: Tier I–20%, Tier II–60%, and Tier III–20%

By Designation: C-Level Executives–28%, D-Level Executives–50%, and Managers–22%

By Region: North America– 30%, Europe – 35%, Asia Pacific– 20% and Middle East Africa- 10%, Latin america-5%

The report includes the study of key players offering digital circular economy software and services. The major players in the digital circular economy market include SAP (Germany), Capgemini (France), Dassault Systemes (France), Cisco (US), IBM (US), Oracle (US), KPMG (Netherlands), Software AG (Germany), Siemens-Advanta (Germany), Ingram Micro (US), AWS (US), PwC (UK), Honeywell (US), Accenture (Ireland), Lenzing (Austria), Hitachi (Japan), Landbell Group (Germany), iPoint Systems (Germany), One Click LCA (Finland), TUV SUD (Germany), Suez Group (France), numi.circular (Germany), Treeni (India), UL Solutions (US), Anthesis Group (UK), Circular in Motion (Netherlands), Rheaply (US), proSense Consulting (Austria), geoFluxus (Netherlands), Circular (UK), and Reflaunt (Singapore).

### Research coverage

This research report categorizes the digital circular economy market by Offering (Software and Services), by Technology (blockchain and distributed ledger technology (DLT), IoT, AI & ML, AR & VR, cloud computing, Big Data analytics, and other technologies), by Application (supply chain and materials tracking, resource optimization and efficiency, digital resale and reuse, reverse logistics and remanufacturing, circular economy reporting and compliance, circular waste management and recycling, smart material selection & testing, and other applications), by Vertical (consumer electronics, IT & telecom, automotive, manufacturing, construction and building, healthcare and medical devices, energy and utilities, chemicals and materials, fashion & apparel, and other verticals), and by region (North America, Europe, Asia Pacific, Middle East & Africa, and Latin America). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the digital circular economy market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, and services; key strategies; contracts, partnerships, agreements, new product & service launches, mergers and acquisitions, and recent developments associated with the digital circular economy market. Competitive analysis of upcoming startups in the digital circular economy market ecosystem is covered in this report.

### Key Benefits of Buying the Report

The report would provide the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall digital circular economy market and its subsegments. It would help stakeholders understand the competitive landscape and gain more insights better to position their business and

plan suitable go-to-market strategies. It also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (surge in E-waste awareness fueling digital circular economy growth, AI-driven recycling tech catalyzing resource reutilization, stringent government mandates propelling circularity adoption, eco-conscious consumers driving demand for sustainable digital products), restraints (high upfront costs hampering circular economy startup, legacy linear thinking hindering circular business evolution, lack of standardized circularity metrics confounding progress), opportunities (unlocking new revenue streams by capitalizing on the market for upcycled tech gadgets, cross-industry alliances fostering circular innovation waves, flourishing market for refurbished electronics presents a compelling business opportunity, cost efficiencies through optimized resource utilization), and challenges (managing the intricate supply chain and reverse logistics, balancing durability and quality in circular tech design, navigating volatile consumer preferences in a shifting market).

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the digital circular economy market

**Market Development:** Comprehensive information about lucrative markets – the report analyses the digital circular economy market across varied regions

**Market Diversification:** Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the digital circular economy market

**Competitive Assessment:** In-depth assessment of market shares, growth strategies and service offerings of leading players like SAP (Germany), Capgemini (France), Dassault Systemes (France), Cisco (US), IBM (US), Oracle (US), KPMG (Netherlands), Software AG (Germany), Siemens-Advanta (Germany), AWS (US), PwC (UK), Honeywell (US), Accenture (Ireland), Hitachi (Japan), Landbell Group (Germany), and Anthesis Group (UK), among others in the digital circular economy market strategies. The report also helps stakeholders understand the pulse of the digital circular economy market and

provides them information on key market drivers, restraints, challenges, and opportunities.

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\*Details on Business overview, Products/Solutions/Services offered, Recent developments & MnM View might not be captured in case of unlisted companies.

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