

Digital Twins in Healthcare Market by Component (Software, Services), Application (Personalized Medicine, Drug Discovery, Medical Education, Workflow Optimization), End User (Providers, Research & Academia, Payers), and Region - Global Forecast to 2030

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Report description:

The global digital twin healthcare market is experiencing significant growth in 2024, driven by the growing applications of digital twins in healthcare and growing investments by public & private entities. The market is projected to reach USD 59.94 billion by 2030 from USD 4.47 billion in 2025, at a CAGR of 68.0% during the forecast period. Public and private entities increasingly invest in digital twin technologies, recognizing their potential to drive innovation and enhance operational efficiency. Quibim, based in Valencia, is at the forefront of using imaging biomarkers for precision medicine. The company has recently completed a Series A funding round worth USD 50.6 million to establish a presence in the United States. Quibim views this as a significant step towards creating human digital twins-dynamic models that enable health monitoring and improve patient stratification, increase drug development success rates, and facilitate treatment testing before implementation.

"By application, the surgical planning & medical education segment accounted for the largest share of the market in 2024." In 2024, the surgical planning & medical education application segment accounted for the largest share of the market. The growth of this segment is due to the integration of digital twins with virtual reality platforms, which enhances surgical training for residents. This technology allows them to simulate procedures tailored to patients' unique anatomical and physiological characteristics. As a result, trainees can experience a realistic representation of performance and track intraoperative metrics. Several companies have developed simulations of medical anatomy and surgical procedures to reduce the reliance on cadavers and promote interactive learning.

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"By end user, the healthcare providers segment accounted for the largest share of the market in 2024."

By end user, the healthcare providers segment accounted for the largest share of the market in 2024. The growth of this segment is attributed to its important role in workflow management and surgical planning. Digital twins offer additional benefits, such as accurate patient modeling, personalized treatment planning, and ongoing monitoring. These advantages contribute to enhanced clinical decision-making and improved patient outcomes.

"By region, Europe accounted for the second-largest market share in 2024."

Europe accounted for the second-largest share of the market in 2024. Factors influencing advancements in healthcare include increased technological investments and the use of digital twins for research and genomics. According to the European Institute of Innovation & Technology (EIT) Health Germany, European nations are implementing digital twins to improve medication prescriptions. For example, the French company ExactCure, which specializes in digital health, is focused on preventing adverse drug effects. By utilizing cutting-edge omics, sensing, computing, and communication technologies, DigiTwins aims to enable completely personalized and preventive medicine, leading to a paradigm shift in healthcare.

The breakdown of primary participants is as mentioned below:

-□By Company Type - Tier 1: 45%, Tier 2: 30%, and Tier 3: 25%

-□By Designation - C-level: 42%, Director-level: 31%, and Others: 27%

-□By Region - North America: 45%, Europe: 30%, Asia Pacific: 20%, Latin America: 3%, and Middle East & Africa: 2%.

Key Players in the Digital Twins in Healthcare Market

The key players operating in the digital twin in healthcare market include Microsoft Corporation (US), Siemens Healthineers AG (Germany), Koninklijke Philips N.V. (Netherlands), Amazon Web Services, Inc. (US), Dassault Systemes (France), GE Healthcare (US), IBM (US), NVIDIA Corporation (US), Oracle Corporation (US), PTC (US), SAP (Germany), Atos SE (France), ANSYS, Inc. (US), Faststream Technologies (US), Rescale, Inc. (US), Twin Health (US), NUREA (France), Predictiv (US), Verto (Canada), Qbio (US), Virtonomy GmbH (Germany), Unlearn.ai, Inc. (US), ThoughtWire (Canada), Sim and Cure (France), and PrediSurge (France).

Research Coverage:

The report analyzes the Digital Twins in Healthcare Market. It aims to estimate the market size and future growth potential of various market segments based on type, component, application, end user, and region. The report also provides a competitive analysis of the key players in this market, along with their company profiles, product offerings, recent developments, and key market strategies.

Reasons to Buy the Report

This report will enrich established firms and new entrants/smaller firms to gauge the market's pulse, which, in turn, would help them garner a greater share of the market. Firms purchasing the report could use one or a combination of the following strategies to strengthen their positions in the market.

This report provides insights on:

-□Analysis of key drivers (increasing Investments in digital twins in developed as well as emerging technology adoption, rising demand for personalized medicine, increasing funding and investments in digital twin startups), restraints (accuracy and privacy issues with digital twin systems and high implementation costs), opportunities (growing importance of digital twin in emerging market, increasing focus on cutting edge real-time data analytics), and challenges (lack of technical expertise & data management issues) influencing the growth of the digital twin market

-□Product/Service Development & Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the digital twins in healthcare market

-□Market Development: Comprehensive information on the lucrative emerging markets by type, component, application, end user, and region

-□Market Diversification: Comprehensive information about product portfolios, expanding geographies, recent developments, and investments in the market

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-Competitive Assessment: In-depth assessment of market shares, growth strategies, product offerings, and capabilities of the leading players in the digital twins in healthcare market

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Digital Twins in Healthcare Market by Component (Software, Services), Application (Personalized Medicine, Drug Discovery, Medical Education, Workflow Optimization), End User (Providers, Research & Academia, Payers), and Region - Global Forecast to 2030

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*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>

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