+357 96 030922
info@marketpublishers.com

Healthcare Digital Twins Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

https://marketpublishers.com/r/HC16F0688BD4EN.html
Date: November 2024
Pages: 135
Price: US$ 4,850.00 (Single User License)
ID: HC16F0688BD4EN

Abstracts

The Global Healthcare Digital Twins Market was valued at USD 1.3 billion in 2023 and is projected to expand at 42.6% CAGR from 2024 to 2032. This growth is largely fueled by the increasing demand for personalized medicine and the integration of IoT and real-time data analytics within healthcare systems.

The shift towards personalized medicine is a major driver behind the adoption of digital twin technology in healthcare. Digital twins enable the creation of precise, patient-specific simulations that allow for tailored treatment plans. By replicating a patient's biological systems digitally, healthcare providers can predict how they might respond to different treatments, helping to optimize medical care and outcomes for individuals.

The healthcare digital twins market is divided into software and services. In 2023, the software segment held the largest share of the market, generating USD 778.7 million. Digital twin software aid enables healthcare professionals and researchers to create and interact with detailed patient models in real time. These software solutions support a variety of applications, including predictive analytics, personalized treatment plans, and surgical preparations. By utilizing advanced data analytics, artificial intelligence (AI), and machine learning, digital twin software helps simulate patient-specific scenarios, offering accurate predictions on treatment efficacy and disease progression.

In terms of application, the healthcare digital twins market is segmented into areas like personalized medicine, drug discovery, surgical planning, and medical device design and testing. Among these, the personalized medicine segment is expected to grow significantly, potentially reaching USD 10.2 billion by 2032. Digital twin technology facilitates a detailed virtual model of a patient's physiological and genetic data, allowing

+357 96 030922
info@marketpublishers.com

healthcare providers to simulate treatment responses and predict outcomes before initiating real-world interventions. This is particularly valuable for managing chronic conditions such as cancer, diabetes, and cardiovascular diseases, where personalized treatment plans are crucial to improving effectiveness and patient outcomes. With advancements in genomics, AI, and big data, digital twins can integrate diverse data sources to build more comprehensive and accurate models, further enhancing personalized healthcare.

In North America, the U.S. holds the largest share of the healthcare digital twins market, with a revenue of USD 443.7 million in 2023. The U.S. leads in healthcare technology innovation, with substantial investments in AI and machine learning, which drive the development of advanced digital twin models. These technologies enable more effective personalized treatments and improved patient outcomes. Additionally, support from regulatory bodies and government initiatives promotes the widespread adoption of digital twin solutions, encouraging healthcare providers to invest in these technologies for better drug development and patient management.

+357 96 030922
info@marketpublishers.com

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

1.1 Market scope & definitions
1.2 Research design
  1.2.1 Research approach
  1.2.2 Data collection methods
1.3 Base estimates & calculations
  1.3.1 Base year calculation
  1.3.2 Key trends for market estimation
1.4 Forecast model
1.5 Primary research and validation
  1.5.1 Primary sources
  1.5.2 Data mining sources

CHAPTER 2 EXECUTIVE SUMMARY

2.1 Industry 360° synopsis

CHAPTER 3 INDUSTRY INSIGHTS

3.1 Industry ecosystem analysis
3.2 Industry impact forces
  3.2.1 Growth drivers
    3.2.1.1 Increasing demand for personalized medicine and predictive healthcare
    3.2.1.2 Integration of IoT and real-time data analytics
    3.2.1.3 Advancements in technology
    3.2.1.4 Expansion of telehealth and remote monitoring
  3.2.2 Industry pitfalls & challenges
    3.2.2.1 Security concerns and investment challenges
3.3 Growth potential analysis
3.4 Regulatory landscape
3.5 Technological landscape
3.6 Gap analysis
3.7 Future market trends
3.8 Start-up scenario

+357 96 030922
info@marketpublishers.com

3.9 Porter’s analysis
3.10 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2023

4.1 Introduction
4.2 Company market share analysis
4.3 Company matrix analysis
4.4 Competitive analysis of major market players
4.5 Competitive positioning matrix
4.6 Strategy dashboard

CHAPTER 5 MARKET ESTIMATES AND FORECAST, BY TYPE, 2021 – 2032 ($ MN)

5.1 Key trends
5.2 Software
5.3 Services

CHAPTER 6 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2021 – 2032 ($ MN)

6.1 Key trends
6.2 Personalized medicine
6.3 Drug discovery & development
6.4 Surgical planning
6.5 Medical device designing & testing
6.6 Other applications

CHAPTER 7 MARKET ESTIMATES AND FORECAST, BY END USE, 2021 – 2032 ($ MN)

7.1 Key trends
7.2 Hospitals and clinics
7.3 Clinical research organizations (CRO)
7.4 Research & diagnostic laboratories
7.5 Other end users

CHAPTER 8 MARKET ESTIMATES AND FORECAST, BY REGION, 2021 – 2032 ($ MN)

+357 96 030922
info@marketpublishers.com

8.1 Key trends
8.2 North America
  8.2.1 U.S.
  8.2.2 Canada
8.3 Europe
  8.3.1 Germany
  8.3.2 UK
  8.3.3 France
  8.3.4 Italy
  8.3.5 Spain
  8.3.6 Netherlands
8.4 Asia Pacific
  8.4.1 China
  8.4.2 Japan
  8.4.3 India
  8.4.4 Australia
  8.4.5 South Korea
8.5 Latin America
  8.5.1 Brazil
  8.5.2 Mexico
  8.5.3 Argentina
8.6 Middle East and Africa
  8.6.1 South Africa
  8.6.2 Saudi Arabia
  8.6.3 UAE

CHAPTER 9 COMPANY PROFILES

9.1 Ansys
9.2 Dassault Systems (3DS System)
9.3 Faststream Technologies
9.4 Microsoft
9.5 Oracle
9.6 Philips Healthcare
9.7 Predictive Healthcare
9.8 PrediSurge
9.9 Q Bio
9.10 Siemens Healthineers

+357 96 030922
info@marketpublishers.com

9.11 ThoughtWire
9.12 Twin Health
9.13 Unlearn AI
9.14 Verto Healthcare
9.15 Virtonomy

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Healthcare Digital Twins Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

Product link: https://marketpublishers.com/r/HC16F0688BD4EN.html

Price: US$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/HC16F0688BD4EN.html