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Digital Twin Market Research Report - Global Forecast 2027

Digital Twin Market Overview

The digital twin market is expected to reach USD 35,462.4 growing at a CAGR of 42.54% till 2025. The COVID 19 pandemic hit in 2020, and the market forecast has been made analyzing the current situation and market trends.

Digital twins, in the form of reliable technology, are witnessing a mushrooming demand especially in the market verticals like medicine, healthcare services, and the pharmaceutical sector. The main reason which is driving the demand especially across various healthcare services and service providers in the fatal arrival and transmission rate of the novel coronavirus. However, for the market to grow and keep up with the everyday technical requirements, the market needs constant up-gradation and maintenance to keep up with the rising trends and technology.

Digital Twin Market COVID 19 Analysis:

The worldwide market operations are facing a major fall in the economic capacities and prevailing demand since the arrival of the pandemic in late 2019 and followed in 2020. Most of the oil-producing companies are running out of space for storage for the oil that has been extracted and there is a decline in the demand for the same. This is resulting in a huge gap between the demand and supply which is disrupting the market equilibrium. The major industries that are the backbone of any economy like aerospace, defense, automotive, transportation, energy, and power, are facing major functional and demand issues because of the pandemic. There are strict foreign trade regulations and also, the closing of international borders is likely to impact global operations.

However, the focus of the government is on the digitization of services and developing the healthcare infrastructure to render quality services. The digitization of industry services is expecting an increase post the coronavirus pandemic. Also, the industry is increasing for the energy and power sector as well during the forecast period of 2021-2028.

Digital Twin Market Dynamics:

Drivers:
The healthcare sector is undergoing a major demand since the arrival of the pandemic in 2020. The digital twin has an important role to play in monitoring the health of patients, use and impact of tablets, packed with other factors, as well. Also, the market players are trying their hand at the development of digital twin market solutions that help in identifying people who are infected or have syndromes. Also, it helps in detecting the recovered patients who have developed antibodies amongst the people who have had contact with the infected individuals. Using and implementing such solutions with present ease to both the local and state governments to monitor both the red and green zones. These solutions help in the development and initiation of smart cities on a global scale.

Restraints:
There has been a wide implementation of digital technologies like artificial intelligence, IoT, clog, and big data which is increasing across the business units. The market solutions help in the integration of IoT sensors and technologies that help in the virtualization of the physical twin. The connectivity is growing and so are the associated risks like security, data protection, regulations, alongside compliance.

Technology Analysis:
Post the pandemic, the industry manufacturers need real-time visibility across various corporate boundaries, departments, and units to maintain the market equilibrium and proper management of the market forces of demand and supply. Digital twin technology helps in initiating the same. The services rendered help the market operations and act as a powerful digital show. They help in gathering all the interrelating data sources from the lifecycle of an asset and create twins for components, people, assemblies, and for an entire manufacturing plant, as well. These help in extending the capabilities and also increase the degree of flexibility in the market and mitigating the risk associated with
Digital Twin Market Study Objectives:

- To study the forecasted figures of the market and the factors and market dynamics like the drivers and restraints that have an impact on the market operations
- To analyze the revenue potential of the market by noticing the trends and strategies followed by the market segments that are functioning across various penetrating global regions
- To understand the scope of the market and its futuristic approach by witnessing the recent developments of the market players. Also, to further, raw a competitive graph amongst the market players and help the investors make better and futuristic investment decisions

Digital Twin Market Segment Overview:
The digital twin market forecast is a prediction based on the market segmentation which has been done based on the following:

Technology:
The technology segment of the market includes IoT and IIoT, 5G, big data analytics, blockchain, artificial intelligence, machine learning, augmented reality, virtual reality, and mixed reality.

Type:
Based on the type segment of the global market, the dealings are done for product digital twin, system digital twin, and process digital twin.

Digital Twin Market Regional Analysis:
The digital twin market trends are more prevalent in the APAC region that further has been divided into areas like India, Japan, and China, amongst the other areas belonging to the region. The APAC region is expecting the highest CAGR growth during the forecast period of 2021-2028 as the market has an excellently high potential for the creation of digital transformation amongst the majorly functioning manufacturing industries. The population amongst the market players is rising which is further increasing the employment opportunities backed with an increase in the per capita income. The wide-scale urbanization and industrialization are witnessing an increase in the wide-scale adaptability of the IoT services and hence, will cater to the aims for enlarged market development in the APAC region during the forecast period of 2021-2028. A survey showed that the Chinese consumers are expecting a major economic rebound and hence, the market players have a good chance at expansion during the ongoing forecast period that ends in 2028.

Digital Twin Market Competitive Landscape:
The competitive graph of the market is based on the performance of the prominent market players. The market players of the market are as follows:

- General Electric (US)
- AI (US)
- IBM (US)
- Siemens AG (Germany)
- PTC (US)
- Microsoft Corporation (US)
- ANSYS (US)
- Oracle (US)
- SAP (Germany)
- Robert Bosch (Germany)

Recent Developments:
- Exactcure is a French start-up that is taking steps towards the development of software solutions that
will help in reducing medication errors. This company has also come up with the development of a digital twin solution that helps in reducing or lowering the impact of an inaccurate or inappropriate dose of medication.

- Rolls-Royce is investing in the implementation of the digital twin-based interoperable ecosystem that plays an important role in delivering the next generation and qualitative services in customer service and satisfaction.

- Bosch Building Technologies is a division of the Bosch Group. In June 2020, the company developed energy and cost-saving solution for the conduction of its internal operations. The energy platform makes use of Microsoft Azure Digital Twin for monitoring and analyzing energy consumption in real-time. This will help inefficient management of the business processes and further, provide actionable insights to the operators on a large scale.

- Siemens also went ahead with its launch of Real-time locating systems (RTLS) that offers real-time location information. This information can be used by the manufacturers to control their processes during the time of the pandemic and also design the operating procedures as per the requirement during the post-pandemic period of 2021-2028.

**Intended Audience:**

- Potential market investors
- Manufacturers of digital twin technology
- Healthcare department
- The medical and pharmaceutical sector
- Government
- Government-funded institutions
- Public sector
- Research firms
- Development and strategic institutions
- Traders
- Technology-based businesses and enterprises
- Financial institutions and companies

**Report Overview:**
The digital twin market analysis predicts good growth for the market trends, growth, and expansion during the forecast period that ends in 2028. The global market report highlights the steps undertaken by the market players in the form of the recent developments undertaken that will help in the global expansion of the market. The report discusses the revenue potential possessed by the market segments that are functional in major regions across the world. Also, the report highlights the steps taken in the regional market to compete and enhance the functioning of the market on an international scale. In the end, the report discusses the points raised by the experts and market leaders.
Infographic Summary:

GLOBAL DIGITAL TWIN MARKET

The global digital twin market is expected to reach USD 35,462.4 million by 2025.

- By end-user, electronics and electrical/machine manufacturing segment is expected to dominate the market with highest market share in 2017.

Global Digital Twin Market Share, by Region 2017 (%)

- NORTH AMERICA: 32%
- EUROPE
- ASIA-PACIFIC
- REST OF THE WORLD

By region, North America stands as largest revenue contributor with highest market share in the year 2017.

Key Players

- IBM
- GE
- DASSAULT SYSTEMES
- ANSYS
- ORACLE

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