

Global Digital Twin Market: Focus on Product Offering (Platform, Hardware, Support Services), Type (Asset, Process, System), Industry (Manufacturing, Automotive, Energy, Healthcare), Impact of COVID-19 - Analysis and Forecast, 2020-2025

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Abstracts

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Market Report Coverage - Digital Twin

Market Segmentation

Product Offering – Platform, Hardware, Support Services

Type – Asset, Process, System

Industry – Manufacturing, Automotive, Aviation, Energy and Utilities, Healthcare, Logistics and Retail, and Others

Region – North America, South America, Europe, U.K., China, Asia-Pacific and Japan, and Middle East and Africa

Regional Segmentation

North America – U.S., Canada, Mexico, and Rest-of-North America

South America – Brazil, Argentina, and Rest-of-South America

Europe –Germany, France, Sweden, Norway, Netherlands, Spain, and Rest-of-Europe

U.K.

China

Asia-Pacific and Japan – Japan, South Korea, India, Australia, Singapore, Malaysia, and Rest-of-Asia-Pacific and Japan

Middle East and Africa – Saudi Arabia, U.A.E, Israel, South Africa, and Rest-of-Middle East and Africa

Market Growth Drivers

Surge in the Adoption of Industrial IoT

Rise in the Establishment of Smart Building Infrastructure

Market Growth Restraints

Increase in Data Security Risk

High Cost of Deployment

Market Opportunities

Rise in Adoption of 3D Printing Technology for Manufacturing Industries

Growth of Low Power Wide Area Connectivity in Digital Twin Technology

Key Digital Twin Companies Profiled

IBM Corporation, Wipro Ltd., Cisco Systems, Microsoft Corporation, SAP SE, Amazon Web Services, Alphabet Inc., PTC Inc., Bentley Systems, Dassault Systemes, AVEVA Group, Autodesk, Ansys, Inc. ABB Ltd, Honeywell International, Rockwell Automation, Emerson Electric, Accenture Plc, Capgemini, and Cognizant

Key Questions Answered in this Report:

What are the key trends and expansion opportunities in the global digital twin market?

What are the estimations for the global digital twin market size in terms of revenue for the period 2019-2025, and what is the expected compound annual growth rate (CAGR) during the forecast period 2020-2025?

What is the expected outlook and revenue to be generated by the different types of product offerings, including digital twin platform, hardware, and support services?

What are the estimations for revenue generation by different types of digital twin, namely, asset, process, and system, for the time period 2019-2025?

What are the estimations for revenue generation by digital twin solutions in different industries such as manufacturing, automotive, aviation, energy and utilities, healthcare, and logistics for the time period 2019-2025?

What is the current market size, forecast, regional market trends of the digital twin across different regions: North America, South America, the U.K., Europe, Asia-Pacific and Japan, China, and the Middle East and Africa?

What will be the impact of COVID-19 on the market size, market forecast, CAGR, and market dynamics of the global digital twin market across different market segmentations?

What are the major driving forces that are expected to increase the demand for the global digital twin market during the forecast period 2020-2025?

What are the major restraints inhibiting the growth of the global digital twin market?

What kind of new growth strategies (M&A, partnerships, expansions, products, others) are being adopted by the existing market players to expand their market share in the industry?

How is the funding and investment landscape in the global digital twin market?

Which type of players and stakeholders operate in the market ecosystem of the digital twin, and what are their impacts on the dynamics of the global digital twin market?

Which companies have achieved higher market coverage compared to their market potential in the global digital twin market?

Which technologies constitute the digital twin ecosystem, and how is their role significant in the global digital twin market?

Market Overview

The global digital twin market is projected to grow from \$2.66 billion in 2020 to \$29.57 billion by 2025, at a CAGR of 61.94% from 2020 to 2025. The growth in the digital twin market is expected to be driven by the increasing demand for asset health optimization, growing market penetration of Industrial IoT solutions, and the rising establishment of smart building infrastructure to ensure optimum energy consumption.

This technology has garnered the attention of various industries such as manufacturing, automotive, and healthcare to increase their productivity as well as efficiency. Catering to the manufacturing industry, the rising need to meet the on-demand production target with the existing ageing assets is driving the growth of digital twin technology.

With digital twin implementation across the automotive value chain, the automotive manufacturers can have the real-time on-road field insights and can predict the failure of any such vehicle equipment for better manufacturing performance before getting it delivered to the customers.

The growth of digital twin technology in the healthcare industry is attributed to the increase in the industry's initiative toward maintaining a smart workflow within its premises to provide optimum treatment facilities for the patients. Moreover, digital twin helps the doctors and surgeons in predicting the emergency condition of patients by real-

time monitoring of the patient's health.

Impact of COVID-19 on Global Digital Twin Market

In 2020, the digital twin market is expected to experience downfall due to COVID-19 pandemic, as the testing and the simulation process for the implementation of the virtual model has been at a standstill. With the lockdown being imposed, there has been a scarcity of resources worldwide, which is expected to impact the global digital twin market for this particular year. However, the growth of the digital twin technology market is expected to revive sparsely from Q3 2020 once the operational activities become normal post lockdown, as the technology would allow the industrialized world to understand the operational behavior of the physical asset from remote locations as well.

Competitive Landscape

The competitive landscape for the digital twin market demonstrates an inclination toward the companies that are adopting strategies such as partnerships, collaborations, and joint ventures along with mergers and acquisitions for introducing new technologies and enhance their existing product portfolio. With the increasing growth of the global market, companies operating in this industry are compelled to come up with collaborative strategies in order to sustain in the intensely competitive market. For instance, in January 2020, Siemens entered into a partnership with Arm Holdings for the development of the digital twin platform to ensure driver assistance system across the automotive industry. In December 2019, Microsoft Corporation entered into a partnership with Ansys Inc. for the development of IoT enabled digital twin framework to ensure real-time data transfer and to improve the performance of industrial assets.

Regional Market Dynamics

The digital twin market holds a prominent share in various countries of North America, Europe, Asia-Pacific and Japan, and the Middle East and Africa. North America is at the forefront of the global digital twin market, with high market penetration rate in the U.S., Canada, and others, which are expected to display robust market growth in the coming five years.

During the forecast period, the Asia-Pacific and Japan region is expected to flourish as one of the most lucrative markets for digital twin technology. Asia-Pacific and Japan is expected to exhibit significant growth opportunities for digital twin owing to the increasing urban population size, growing market penetration of advance technologies,

and favorable government investments on the adaptation of Industry 4.0 standards and policies for enhanced manufacturing and production facilities across all industry verticals.

Contents

EXECUTIVE SUMMARY

1 MARKET DYNAMICS

1.1 Market Drivers

- 1.1.1 Surge in the Adoption of Industrial IoT
- 1.1.2 Rise in Establishment of Smart Building Infrastructure

1.2 Market Restraints

- 1.2.1 Increase in Data Security Risk
- 1.2.2 High Cost of Deployment

1.3 Market Opportunities

- 1.3.1 Rise in Adoption of 3D Printing Technology for Manufacturing Industries
- 1.3.2 Growth of Low Power Wide Area Connectivity in Digital Twin Technology

2 COMPETITIVE LANDSCAPE

2.1 Key Market Developments and Strategies

- 2.1.1 Partnerships, Collaborations, and Joint Ventures
- 2.1.2 Mergers and Acquisitions
- 2.1.3 Business Expansion and Contract
- 2.1.4 Product Launch and Development
- 2.1.5 Others (Awards and Recognition)

2.2 Competitive Benchmarking of Key Players in the Global Digital Twin Market

3 INDUSTRY ANALYSIS

3.1 Digital Twin Ecosystem

- 3.1.1 Ecosystem Overview
- 3.1.2 Digital Twin Stakeholders
- 3.1.3 Digital Twin Impact Matrix and Analysis
 - 3.1.3.1 Impact of Digital Twin
 - 3.1.3.2 Contribution to Digital Twin
 - 3.1.3.3 Investable Opportunity

3.2 Digital Twin: Key Technologies

- 3.2.1 Internet of Things (IoT)
- 3.2.2 Artificial Intelligence (AI)
- 3.2.3 Virtual Reality (VR) and Augmented Reality (AR)

- 3.2.4 Wireless Communication
- 3.2.5 Blockchain
- 3.3 Investment and Funding Landscape

4 GLOBAL DIGITAL TWIN MARKET (BY PRODUCT OFFERING)

- 4.1 Market Overview
- 4.2 Platforms
- 4.3 Hardware
- 4.4 Support Services

5 GLOBAL DIGITAL TWIN MARKET (BY TYPE)

- 5.1 Market Overview
- 5.2 Asset Digital Twin
- 5.3 Process Digital Twin
- 5.4 System Digital Twin

6 GLOBAL DIGITAL TWIN MARKET (BY INDUSTRY)

- 6.1 Market Overview
- 6.2 Manufacturing
- 6.3 Automotive
- 6.4 Aviation
- 6.5 Energy and Utilities
- 6.6 Healthcare
- 6.7 Logistics and Retail
- 6.8 Others

7 GLOBAL DIGITAL TWIN MARKET (BY REGION)

- 7.1 North America
 - 7.1.1 North America Digital Twin Market (by Industry)
 - 7.1.2 North America Digital Twin Market (by Country)
 - 7.1.2.1 U.S.
 - 7.1.2.2 Canada
 - 7.1.2.3 Mexico
 - 7.1.2.4 Rest-of-North America
- 7.2 U.K.

7.2.1 U.K. Digital Twin Market (by Industry)

7.3 Europe

7.3.1 Europe Digital Twin Market (by Industry)

7.3.2 Europe Digital Twin Market (by Country)

7.3.2.1 Germany

7.3.2.2 France

7.3.2.3 Sweden

7.3.2.4 Norway

7.3.2.5 Netherlands

7.3.2.6 Spain

7.3.2.7 Rest-of- Europe

7.4 China

7.4.1 China Digital Twin Market (by Industry)

7.5 Asia-Pacific and Japan

7.5.1 Asia-Pacific and Japan Digital Twin Market (by Industry)

7.5.2 Asia-Pacific and Japan Digital Twin Market (by Country)

7.5.2.1 Japan

7.5.2.2 South Korea

7.5.2.3 India

7.5.2.4 Australia

7.5.2.5 Singapore

7.5.2.6 Malaysia

7.5.2.7 Rest-of-Asia-Pacific and Japan

7.6 Middle East and Africa

7.6.1 Middle East and Africa Digital Twin Market (by Industry)

7.6.2 Middle East and Africa Digital Twin Market (by Country)

7.6.2.1 Saudi Arabia

7.6.2.2 United Arab Emirates (UAE)

7.6.2.3 Israel

7.6.2.4 South Africa

7.6.2.5 Rest-of-Middle East and Africa

7.7 South America

7.7.1 South America Digital Twin Market (by Industry)

7.7.2 South America Digital Twin Market (by Country)

7.7.2.1 Brazil

7.7.2.2 Argentina

7.7.2.3 Rest-of-South America

8 COMPANY PROFILES

8.1 Overview

8.2 Amazon Web Services, Inc.

8.2.1 Company Overview

8.2.2 Role of Amazon Web Services, Inc. in Global Digital Twin Market

8.2.3 Financials

8.2.4 SWOT Analysis

8.3 Alphabet Inc.

8.3.1 Company Overview

8.3.2 Role of Alphabet Inc. in Global Digital Twin Market

8.3.3 Financials

8.3.4 SWOT Analysis

8.4 AVEVA Group Plc

8.4.1 Company Overview

8.4.2 Role of AVEVA Group in Global Digital Twin Market

8.4.3 Financials

8.4.4 SWOT Analysis

8.5 Autodesk, Inc.

8.5.1 Company Overview

8.5.2 Role of Autodesk, Inc. in Global Digital Twin Market

8.5.3 Financials

8.5.4 SWOT Analysis

8.6 Ansys, Inc.

8.6.1 Company Overview

8.6.2 Role of Ansys, Inc. in Global Digital Twin Market

8.6.3 Financials

8.6.4 SWOT Analysis

8.7 Bentley Systems

8.7.1 Company Overview

8.7.2 Role of Bentley Systems in Global Digital Twin Market

8.7.3 SWOT ANALYSIS

8.8 CISCO Systems Inc.

8.8.1 Company Overview

8.8.2 Role of Cisco Systems Inc. in Global Digital Twin Market

8.8.3 Financials

8.8.4 SWOT Analysis

8.9 Dassault Systemes SE

8.9.1 Company Overview

8.9.2 Role of Dassault Systemes in Global Digital Twin Market

- 8.9.3 Financials
- 8.9.4 SWOT Analysis
- 8.1 IBM Corporation
 - 8.10.1 Company Overview
 - 8.10.2 Role of IBM Corporation in Global Digital Twin Market
 - 8.10.3 Financials
 - 8.10.4 Key Insights About the Financial Health of the Company
 - 8.10.5 SWOT ANALYSIS
- 8.11 Microsoft Corporation
 - 8.11.1 Company Overview
 - 8.11.2 Role of Microsoft Corporation in the Global Digital Twin Market
 - 8.11.3 Financials
 - 8.11.4 Key Insights About the Financial Health of the Company
 - 8.11.5 SWOT Analysis
- 8.12 PTC Inc.
 - 8.12.1 Company Overview
 - 8.12.2 Role of PTC Inc., in Global Digital Twin Market
 - 8.12.3 Financials
 - 8.12.4 SWOT Analysis
- 8.13 SAP SE
 - 8.13.1 Company Overview
 - 8.13.2 Role of SAP SE in the Global Digital Twin Market
 - 8.13.3 Financials
 - 8.13.4 SWOT Analysis
- 8.14 Wipro Limited
 - 8.14.1 Company Overview
 - 8.14.2 Role of Wipro Limited in Global Digital Twin Market
 - 8.14.3 Financials
 - 8.14.4 SWOT Analysis
- 8.15 Accenture plc
 - 8.15.1 Company Overview
 - 8.15.2 Role of Accenture plc in Global Digital Twin Market
 - 8.15.3 Financials
 - 8.15.4 SWOT Analysis
- 8.16 Capgemini SE
 - 8.16.1 Company Overview
 - 8.16.2 Role of Capgemini in Global Digital Twin Market
 - 8.16.3 Financials
 - 8.16.4 SWOT Analysis

8.17 Cognizant

8.17.1 Company Overview

8.17.2 Role of Cognizant in Global Digital Twin Market

8.17.3 Financials

8.17.4 SWOT ANALYSIS

8.18 ABB Ltd.

8.18.1 Company Overview

8.18.2 Role of ABB Ltd. In Global Digital Twin Market

8.18.3 Financials

8.18.4 SWOT ANALYSIS

8.19 Emerson Electric Co.

8.19.1 Company Overview

8.19.2 Role of Emerson Electric in Digital Twin Market

8.19.3 Financials

8.19.4 Key Insights About the Financial Health of the Company

8.19.5 SWOT Analysis

8.2 Honeywell International Inc.

8.20.1 Company Overview

8.20.2 Role of Honeywell International in Global Digital Twin Market

8.20.3 Financials

8.20.4 SWOT ANALYSIS

8.21 Rockwell Automation Inc.

8.21.1 Company Overview

8.21.2 Role of Rockwell Automation Inc. in Global Digital Twin Market

8.21.3 Financials

8.21.4 Key Insights About the Financial Health of the Company

8.21.5 SWOT ANALYSIS

9 REPORT SCOPE AND METHODOLOGY

9.1 Report Scope

9.2 Market Research Methodology

9.2.1 Assumptions

9.2.2 Limitations

9.2.3 Primary Data Sources

9.2.4 Secondary Data Sources

9.2.5 Data Triangulation

9.2.6 Market Estimation and Forecast

10 ANNEXURE

10.1 Annexure A: List of Key Strategies and Developments in Global Digital Twin Market (Jan 2017- Mar 2020)

List Of Tables

LIST OF TABLES

Table 1.1: Impact Analysis of Drivers

Table 1.2: Benefits of Digital Twins in Industrial IoT for Manufacturing Industries

Table 1.3: Impact Analysis of Restraints

Table 4.1: Global Digital Twin Market (by Product Offering), \$Billion, 2019-2025

Table 4.2: Product Portfolio of the Key Players Providing Digital Twin Platform

Table 4.3: Hardware Offering by Key Players in the Digital Twin Market

Table 4.4: Product Portfolio of the Key Players Providing Digital Twin Support Services

Table 5.1: Global Digital Twin Market (by Type), \$Billion, 2019-2025

Table 6.1: Global Digital Twin Market (by Industry), \$Billion, 2019-2025

Table 7.1: Global Digital Twin Market (by Region), \$Billion, 2019-2025

Table 7.2: North America Digital Twin Market (by Industry), \$Billion, 2019-2025

Table 7.3: North America Digital Twin Market (by Country), \$Billion, 2019-2025

Table 7.3: U.K. Digital Twin Market (by Industry), \$Billion, 2019-2025

Table 7.4: Europe Digital Twin Market (by Industry), \$Billion, 2019-2025

Table 7.5: Europe Digital Twin Market (by Country), \$Billion, 2019-2025

Table 7.6: China Digital Twin Market (by Industry), \$Billion, 2019-2025

Table 7.7: Asia-Pacific and Japan Digital Twin Market (by Industry), \$Billion, 2019-2025

Table 7.8: Asia-Pacific and Japan Digital Twin Market (by Country)

Table 7.9: Middle East and Africa Digital Twin Market (by Industry), \$Billion, 2019-2025

Table 7.10: Middle East and Africa Digital Twin Market (by Country)

Table 7.11: South America Digital Twin Market (by Industry), \$Billion, 2019-2025

Table 7.12: South America Digital Twin Market (by Country), \$Billion, 2019-2025

Table 8.1: Amazon Web Services, Inc.: Product Portfolio

Table 8.2: Alphabet Inc. Product Portfolio

Table 8.3: AVEVA Group: Product Portfolio

Table 8.4: Autodesk, Inc: Product Portfolio

Table 8.5: Ansys, Inc: Product Portfolio

Table 8.6: Bentley Systems: Product Portfolio

Table 8.7: Cisco Systems Inc.: Product Portfolio

Table 8.8: Dassault Systemes: Product Portfolio

Table 8.9: IBM Corporation: Product Portfolio

Table 8.10: Microsoft Corporation: Product Portfolio

Table 8.11: PTC Inc.: Product Portfolio

Table 8.12: SAP SE: Product Portfolio

Table 8.13: Wipro Limited: Product Portfolio

Table 8.14: Accenture plc: Product Portfolio

Table 8.15: Capgemini: Product Portfolio

Table 8.16: Cognizant Product Portfolio

Table 8.17: ABB Ltd.: Product Portfolio

Table 8.18: Emerson Electric: Product Portfolio

Table 8.19: Honeywell International: Product Portfolio

Table 8.20: Rockwell Automation Inc.: Product Portfolio

List Of Figures

LIST OF FIGURES

- Figure 1: Driving and Restraint Factors in the Global Digital Twin Market
- Figure 2: Global Digital Twin Market Snapshot
- Figure 3: Global Digital Twin Market (by Product Offering), \$Billion, 2020 and 2025
- Figure 4: Global Digital Twin Market (by Type), \$Billion, 2020 and 2025
- Figure 5: Global Digital Twin Market (by Industry), \$Billion, 2020 and 2025
- Figure 1.1: Market Dynamics
- Figure 1.2: Key Features and Growth Enablers of Smart Buildings
- Figure 1.3: Stages of Implementing a Digital Twin
- Figure 1.4: Cost-Benefit of 3D Printing in Manufacturing Industries
- Figure 1.5: Advantages of Digital Twin Integrated 3D Printing
- Figure 2.1: Strategies Adopted by the Key Players (January 2017-March 2020)
- Figure 2.2: Share of Key Market Strategies and Developments (January 2017- March 2020)
- Figure 2.3: Partnerships, Collaborations and Joint Venture Shares (by Companies)
- Figure 2.4: Merger and Acquisition Share (by Companies)
- Figure 2.5: Business Expansion and Contract Share (by Companies)
- Figure 2.6: New Product Launches and Development Share (by Companies)
- Figure 2.7: Competitive Benchmarking Matrix
- Figure 3.1: Digital Twin Ecosystem
- Figure 3.2: Digital Twin Stakeholders
- Figure 3.3: Impact Analysis Matrix – Digital Twin
- Figure 3.4: Value Chain of Digital Twin
- Figure 3.5: Global Digital Twin: Investment and Funding, \$Million, June 2017-May 2020
- Figure 3.6: Investment and Funding Landscape Share (by Round), \$Million
- Figure 4.1: Advantages of Digital Twin Platform
- Figure 4.2: Global Digital Twin Platform Market, \$Billion, 2019-2025
- Figure 4.3: Global Digital Twin Hardware Market, \$Billion, 2019-2025
- Figure 4.4: Key Digital Twin Support Services
- Figure 4.5: Global Digital Twins Support Services Market, \$Billion, 2019-2025
- Figure 5.1: Global Asset Digital Twins Market, \$Billion, 2019-2025
- Figure 5.2: Global Process Digital Twins Market, \$Billion, 2019-2025
- Figure 5.3: Global System Digital Twin Market, \$Billion, 2019-2025
- Figure 6.1: Benefits of Digital Twin in Manufacturing
- Figure 6.2: Global Manufacturing Digital Twin Market, \$Billion, 2019-2025
- Figure 6.3: Benefits of Digital Twin in Automotive

- Figure 6.4: Global Automotive Digital Twin Market, \$Billion, 2019-2025
- Figure 6.5: Global Aviation Digital Twin Market, \$Billion, 2019-2025
- Figure 6.6: Global Energy and Utilities Digital Twin Market, \$Billion, 2019-2025
- Figure 6.7: Global Healthcare Digital Twin Market, \$Billion, 2019-2025
- Figure 6.8: Global Logistics and Retail Digital Twin Market, \$Billion, 2019-2025
- Figure 6.9: Other Industries
- Figure 6.10: Global Others Digital Twin Market, \$Billion, 2019-2025
- Figure 7.1: Global Digital Twin: Regional Market Snapshot
- Figure 7.2: North America Digital Twin Market, \$Billion, 2019-2025
- Figure 7.3: U.S. Digital Twin Market, \$Billion, 2019-2025
- Figure 7.4: Canada Digital Twin Market, \$Billion, 2019-2025
- Figure 7.5: Mexico Digital Twin Market, \$Billion, 2019-2025
- Figure 7.6: Rest-of-North America Digital Twin Market, \$Billion, 2019-2025
- Figure 7.7: U.K. Digital Twin Market, \$Billion, 2019-2025
- Figure 7.8: Europe Digital Twin Market, \$Billion, 2019-2025
- Figure 7.9: Germany Digital Twin Market, \$Billion, 2019-2025
- Figure 7.10: France Digital Twin Market, \$Billion, 2019-2025
- Figure 7.11: Focus Areas of Swedish Government
- Figure 7.12: Sweden Digital Twin Market, \$Billion, 2019-2025
- Figure 7.13: Norway Digital Twin Market, \$Billion, 2019-2025
- Figure 7.14: Netherlands Digital Twin Market, \$Billion, 2019-2025
- Figure 7.15: Spain Digital Twin Market, \$Billion, 2019-2025
- Figure 7.16: Rest-of-the-Europe Digital Twin Market, \$Billion, 2019-2025
- Figure 7.17: China Digital Twin Market, \$Billion, 2019-2025
- Figure 7.18: Asia-Pacific and Japan Digital Twin Market, \$Billion, 2019-2025
- Figure 7.19: Japan Digital Twin Market, \$Billion, 2019-2025
- Figure 7.20: South Korea Digital Twin Market, \$Billion, 2019-2025
- Figure 7.21: India Digital Twin Market, \$Billion, 2019-2025
- Figure 7.22: Australia Digital Twin Market, \$Billion, 2019-2025
- Figure 7.23: Singapore Digital Twin Market, \$Billion, 2019-2025
- Figure 7.24: Malaysia Digital Twin Market, \$Billion, 2019-2025
- Figure 7.25: Rest-of-Asia-Pacific and Japan Digital Twin Market, \$Billion, 2019-2025
- Figure 7.26: Middle East and Africa Digital Twin Market, \$Billion, 2019-2025
- Figure 7.27: Saudi Arabia Digital Twin Market, \$Billion, 2019-2025
- Figure 7.28: UAE Digital Twin Market, \$Billion, 2019-2025
- Figure 7.29: Israel Digital Twin Market, \$Billion, 2019-2025
- Figure 7.30: South Africa Digital Twin Market, \$Billion, 2019-2025
- Figure 7.31: Rest-of-Middle East and Africa Digital Twin Market, \$Billion, 2019-2025
- Figure 7.32: South America Digital Twin Market, \$Million, 2019-2025

- Figure 7.33: Brazil Digital Twin Market, \$Billion, 2019-2025
- Figure 7.34: Industry Value Added (Annual Growth in %) for Argentina
- Figure 7.35: Argentina Digital Twin Market, \$Billion, 2019-2025
- Figure 7.36: Rest-of-South America Digital Twin Market, \$Billion, 2019-2025
- Figure 8.1: Segmentation of Key Companies Profiled by Type of Company
- Figure 8.2: Amazon.com, Inc.: Net Revenue (by Business Segment), 2017-2019
- Figure 8.3: Amazon Web Services, Inc.: SWOT Analysis
- Figure 8.4: Alphabet Inc. Overall Financials, 2017-2019
- Figure 8.5: Alphabet Inc. Net Revenue by Business Segment, 2017-2019
- Figure 8.6: Alphabet Inc.: Net Revenue by Regional Segment, 2017-2019
- Figure 8.7: Alphabet Inc. SWOT Analysis
- Figure 8.8: AVEVA Group: Overall Financials, 2017-2019
- Figure 8.9: AVEVA Group: Net Revenue by Business Segment, 2017-2018
- Figure 8.10: AVEVA Group: Net Revenue by Business Segment, 2019
- Figure 8.11: AVEVA Group: Net Revenue by Regional Segment, 2017-2019
- Figure 8.12: AVEVA Group: SWOT Analysis
- Figure 8.13: Autodesk, Inc.: Overall Financials, 2017-2019
- Figure 8.14: Autodesk, Inc.: Net Revenue by Business Segment, 2017-2019
- Figure 8.15: Autodesk, Inc.: Net Revenue by Regional Segment, 2017-2019
- Figure 8.16: Autodesk, Inc: SWOT Analysis
- Figure 8.17: Ansys, Inc: Overall Financials, 2017-2019
- Figure 8.18: Ansys, Inc: Net Revenue by Business Segment, 2017-2019
- Figure 8.19: Ansys, Inc: Net Revenue by Regional Segment, 2017-2019
- Figure 8.20: Ansys, Inc: SWOT Analysis
- Figure 8.21: Bentley Systems: SWOT Analysis
- Figure 8.22: Cisco Systems Inc.: Overall Financials, 2017-2019
- Figure 8.23: Cisco Systems Inc.: Net Revenue (by Business Segment), 2017-2019
- Figure 8.24: Cisco Systems: Net Revenue (by Region), 2017-2019
- Figure 8.25: Cisco Systems Inc.: SWOT Analysis
- Figure 8.26: Dassault Systemes: Overall Financials, 2017-2019
- Figure 8.27: Dassault Systemes: Net Revenue by Business Segment, 2017-2019
- Figure 8.28: Dassault Systemes: Net Revenue by Regional Segment, 2017-2019
- Figure 8.29: Dassault Systemes: SWOT Analysis
- Figure 8.30: IBM Corporation: Overall Financials, 2017-2019
- Figure 8.31: IBM Corporation: Net Revenue (by Business Segment), 2017-2019
- Figure 8.32: IBM Corporation: Net Revenue (by Regional Segment), 2017-2019
- Figure 8.33: IBM Corporation: R&D Expenditure, 2017-2019
- Figure 8.34: IBM Corporation: SWOT Analysis
- Figure 8.35: Microsoft Corporation: Overall Financials, 2017-2019

Figure 8.36: Microsoft Corporation: Net Revenue (by Business Segment), 2017-2019

Figure 8.37: Microsoft Corporation: Net Revenue (by Regional Segment), 2017-2019

Figure 8.38: Research and Development: Microsoft Corporation – 2017 to 2019

Figure 8.39: Microsoft Corporation: SWOT Analysis

Figure 8.40: PTC: Overall Financials, 2017-2019

Figure 8.41: PTC: Net Revenue by Business Segment, 2017-2019

Figure 8.42: PTC: Net Revenue by Regional Segment, 2017-2019

Figure 8.43: PTC: SWOT Analysis

Figure 8.44: SAP SE: Overall Financials, 2017-2019

Figure 8.45: SAP SE: Net Revenue by Business Segment, 2017-2019

Figure 8.46: SAP SE: Net Revenue by Regional Segment, 2017-2019

Figure 8.47: SAP SE: SWOT Analysis

Figure 8.48: Wipro Limited: Overall Financials, 2017-2019

Figure 8.49: Wipro Limited: Net Revenue (by Business Segment), 2018-2019

Figure 8.50: Wipro Limited: Net Revenue by Regional Segment, 2018-2019

Figure 8.51: Wipro Limited: SWOT Analysis

Figure 8.52: Accenture plc: Overall Financials, 2017-2019

Figure 8.53: Accenture plc: Net Revenue (by Business Segment), 2017-2019

Figure 8.54: Accenture plc: Net Revenue (by Region), 2017-2019

Figure 8.55: Accenture plc: SWOT Analysis

Figure 8.56: Capgemini: Overall Financials, 2017-2019

Figure 8.57: Capgemini: Net Revenue (by Business Segment), 2017-2018

Figure 8.58: Capgemini: Net Revenue (by Business Segment), 2019

Figure 8.59: Capgemini: Net Revenue (by Region), 2017-2019

Figure 8.60: Capgemini: SWOT Analysis

Figure 8.61: Cognizant: Overall Financials, 2017-2019

Figure 8.62: Cognizant: Net Revenue by Business Segment, 2017-2019

Figure 8.63: Cognizant: Net Revenue by Regional Segment, 2017-2019

Figure 8.64: Cognizant: SWOT Analysis

Figure 8.65: ABB Ltd.: Overall Financials, 2017-2019

Figure 8.66: ABB Ltd.: Net Revenue (by Operating Segment), 2017-2019

Figure 8.67: ABB Ltd.: Net Revenue (by Regional Segment), 2017-2019

Figure 8.68: ABB Ltd.: SWOT Analysis

Figure 8.69: Emerson Electric: Overall Financials, 2017-2019

Figure 8.70: Emerson Electric: Net Revenue by Business Segment, 2017-2019

Figure 8.71: Emerson Electric: Net Revenue by Regional Segment, 2017-2019

Figure 8.72: Emerson Electric: Research and Development: 2017-2019

Figure 8.73: Emerson Electric: SWOT Analysis

Figure 8.74: Honeywell International: Overall Financials, 2017-2019

Figure 8.75: Honeywell International: Net Revenue (by Business Segment), 2017-2019

Figure 8.76: Honeywell International: SWOT Analysis

Figure 8.77: Rockwell Automation Inc.: Overall Financials, 2017-2019

Figure 8.78: Rockwell Automation Inc.: Net Revenue (by Business Segment), 2017-2019

Figure 8.79: Rockwell Automation Inc.: Net Revenue (by Regional Segment), 2018-2019

Figure 8.80: Research and Development: Rockwell Automation – 2017-2019

Figure 8.81: Rockwell Automation Inc.: SWOT Analysis

Figure 9.1 Digital Twin Market Scope

Figure 9.2 Report Methodology

Figure 9.3 Primary Interviews Breakdown, by Company, Designation, and Region

Figure 9.4 Sources of Secondary Research

Figure 9.5 Data Triangulation

Figure 9.6 Top-Down and Bottom-Up Approach for Market Estimation

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