

# **Simulation Software Market by Software Type (Computer-aided Design (CAD) Simulation, Physics and Multiphysics Simulation, Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), Gaming, AR/VR, and Training Simulation) - Global Forecast to 2030**

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## **Abstracts**

The global Simulation Software market size is estimated to grow from USD 19.95 Billion in 2024 to USD 36.22 Billion by 2030 at a compound annual growth rate (CAGR) of 10.4 % during the forecast period.

The growth in the simulation software market is attributed to the need for more cost-effective approaches to reduce production expenses and training costs, the development of digital twin technology, the growing intricacy and interconnectedness of systems across various industries, , and efficient processes surrounding training and optimization. However, the market faces challenges, such as a very costly implementation process, deterring smaller companies from joining, difficulties in integrating simulation tools with existing IT systems, and a lack of awareness of the software's benefits. The uncertainty about the maturity of simulation technologies and intense competition from established solutions fuels wariness among potential customers. In this regard, competition in cost barriers, complexity of integration, and lack of awareness are the key challenges that must be countered to enable more widespread expansion of simulation software usage into industries.

By Software Type, Gaming, AR, VR, and Training Simulation Software accounts for the highest CAGR during the forecast period

The gaming, augmented reality (AR), virtual reality (VR), and training simulation software is expected to grow at the fastest rate within the simulation software market owing to factors such as rising demand for immersive experiences and enhanced user engagement. The use of AR and VR technologies in gaming has set high standards, with popular applications like Pok?mon GO and Half-Life: Alyx driving consumer interest. Additionally, technological innovations such as generative AI and wireless VR headsets are expanding access to dynamic virtual environments, boosting the adoption of AR/VR. Beyond gaming, these technologies are widely used in training simulations for industries like healthcare, aviation, and the military, providing realistic, risk-free environments for skill building and retention. The ability to personalize training, reduce costs, and enhance collaboration makes AR/VR tools indispensable for both entertainment and business applications, fueling further innovation and growth in this segment.

US to hold the largest market size for North America simulation software market.

The U.S. leads the North American simulation software market due to its diverse industrial base, technological advancements, and significant investments in simulation for training, design, and decision-making. Key sectors like healthcare, automotive, and aerospace drive demand for advanced simulation tools, supported by major government initiatives, including NASA's research and training programs. The integration of AI for predictive capabilities, coupled with innovations in digital twins, further strengthens the U.S. market, enhancing efficiency, cost savings, and continuous optimization across industries.

### Breakdown of primaries

The study contains insights from various industry experts, from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type: Tier 1 – 40%, Tier 2 – 35%, and Tier 3 – 25%

By Designation: C-level Executives – 45%, Directors – 35%, and Managers– 20%

By Region: North America – 35%, Asia Pacific – 30%, Europe – 25%, Middle East & Africa– 5%, and Latin America – 5%

Major vendors in the Simulation Software market include Dassault Systemes (France), Ansys (US), Autodesk (US), AVL List GmbH (Austria), MathWorks(US), Siemens (Germany), Hexagon (US), Synopsys (Canada), Texas Instruments (US), SAS (US), CAE (Canada), Emerson (US), Honeywell (US), Rockwell Automation (US), Altair (US), PTC (US), AspenTech (US), Keysight (US), Aveva (UK), Spirent (UK), Bentley (US), Certara (US).

The study includes an in-depth competitive analysis of the key players in the simulation software market, their company profiles, recent developments, and key market strategies.

### Research Coverage

The report segments the simulation software market by offerings, software type, deployment mode, organization size, application vertical, and region. It forecasts its size by offering (Software Professional Services).

By software type (Computer-Aided Design Simulation Software, Physics and Multiphysics Simulation Software, Finite Element Analysis Software, Computational Fluid Dynamics Software, Process Simulation Software, Electronic Simulation Software, Electromagnetic Simulation Software, Healthcare and Epidemiological Simulation Software, Gaming, AR, VR, and Training Simulation Software, Manufacturing simulation software, Other Software Types (Robotics, Financial & Economic, Environmental, Molecular & Chemical, Social, and Traffic))

By Deployment (On-Premises, Cloud), By Organization Size (Large Enterprises and SMEs), By Application (Engineering, Research, Modeling, and Simulated Testing, Automotive and Vehicle Simulation, Gamification, VR, AR, and Immersive Experience, Manufacturing and Process Optimization, Urban Planning, Supply Chain, Logistics Management, and Transportation, Healthcare and Medical Device Simulation, Other Applications (cyber simulation, financial and risk management, energy, and environmental) ), By Vertical (Automotive, Aerospace & Defense, Electrical & Electronics, Healthcare & Pharmaceuticals, Oil & Gas And Mining, Construction, Shipbuilding & Marine Engineering, Chemicals, Gaming, Othe verticals (Include Robotics, Media & Entertainment, Transportation, And Education)), By Region ( North America, Europe, Asia Pacific, Middle East and Africa, Latin America).

The study also includes an in-depth competitive analysis of the market's key players, their company profiles, key observations related to product and business offerings,

recent developments, and key market strategies.

### Key Benefits of Buying the Report

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the simulation software market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers, such as (Increasing capabilities of simulation about advanced technologies

such as digital twin, AR/VR, and 3D printing, Growing demand from the healthcare/medical industry, Increasing demand for effective solutions to reduce production expenses, and

training costs, Advancements in computing power, and cloud technology); Restraints (High cost of simulation software and services, Lack of skilled professionals to operate simulation software, complexity of simulation software); Opportunities (Growth of automotive industry, expansion of healthcare industry, development of new technologies such as quantum computing and artificial intelligence) and Challenges (Lack of standardization, Regulatory and compliance challenges, Integration and compatibility).

**Product Development/Innovation:** Detailed insights on upcoming technologies, research development activities, new products, and service launches in the simulation software market.

**Market Development:** Comprehensive information about lucrative markets – the report analyses the simulation software market across varied regions.

**Market Diversification:** Exhaustive information about new products and services, untapped geographies, recent developments, and investments in the simulation software market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players Dassault Systemes (France), Ansys (US), Autodesk (US), AVL List GmbH (Austria), MathWorks(US), Siemens (Germany), Hexagon (US), Synopsys (Canada), Texas Instruments (US), SAS (US), CAE (Canada), Emerson (US), Honeywell (US), Rockwell Automation (US), Altair (US), PTC (US), AspenTech (US), Keysight (US), Aveva (UK), Spirent (UK), Bentley (US), Certara (US) among others, in the simulation software market strategies.

## Contents

### 1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
  - 1.2.1 INCLUSIONS & EXCLUSIONS
- 1.3 STUDY SCOPE
  - 1.3.1 MARKET SEGMENTATION
  - 1.3.2 YEARS CONSIDERED
- 1.4 CURRENCY CONSIDERED
- 1.5 STAKEHOLDERS
- 1.6 SUMMARY OF CHANGES

### 2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
  - 2.1.1 SECONDARY DATA
  - 2.1.2 PRIMARY DATA
    - 2.1.2.1 Breakdown of primary profiles
    - 2.1.2.2 Key insights from industry experts
- 2.2 DATA TRIANGULATION
- 2.3 MARKET SIZE ESTIMATION
  - 2.3.1 TOP-DOWN APPROACH
  - 2.3.2 BOTTOM-UP APPROACH
- 2.4 MARKET FORECAST
- 2.5 RESEARCH ASSUMPTIONS
- 2.6 RESEARCH LIMITATIONS

### 3 EXECUTIVE SUMMARY

### 4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE OPPORTUNITIES FOR KEY PLAYERS IN SIMULATION SOFTWARE MARKET
- 4.2 SIMULATION SOFTWARE MARKET, BY OFFERING, 2024–2030
- 4.3 SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2024–2030
- 4.4 SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2024–2030
- 4.5 SIMULATION SOFTWARE MARKET, BY ORGANIZATION SIZE, 2024–2030

4.6 SIMULATION SOFTWARE MARKET, BY APPLICATION, 2024–2030

4.7 SIMULATION SOFTWARE MARKET, BY VERTICAL, 2024–2030

4.8 MARKET INVESTMENT SCENARIO, BY REGION

## **5 MARKET OVERVIEW AND INDUSTRY TRENDS**

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Increasing capabilities of simulation with regard to advanced technologies

5.2.1.2 Advancements in computing power and cloud technology

5.2.1.3 Increasing demand for effective solutions to reduce production expenses and training costs

5.2.2 RESTRAINTS

5.2.2.1 High cost of simulation software and services

5.2.2.2 Lack of skilled professionals

5.2.2.3 Complexity and threat of data leakage

5.2.3 OPPORTUNITIES

5.2.3.1 Growth of automotive industry

5.2.3.2 Expansion of healthcare industry

5.2.3.3 Development of new technologies, such as quantum computing and AI

5.2.4 CHALLENGES

5.2.4.1 Lack of standardization

5.2.4.2 Regulatory and compliance challenges

5.2.4.3 Issues in integration and compatibility

5.3 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

5.4 PRICING ANALYSIS

5.4.1 AVERAGE SELLING PRICE TREND, BY SIMULATION SOFTWARE TYPE, 2024

5.4.2 INDICATIVE PRICING ANALYSIS, BY VENDOR

5.5 VALUE CHAIN ANALYSIS

5.6 ECOSYSTEM

5.7 TECHNOLOGY ANALYSIS

5.7.1 KEY TECHNOLOGIES

5.7.1.1 Agent-based simulation

5.7.1.2 Monte Carlo Simulation (MCS)

5.7.1.3 Discrete Event Simulation (DES)

5.7.1.4 Multi-disciplinary simulation

5.7.2 COMPLEMENTARY TECHNOLOGIES



- 5.7.2.1 AI and ML
- 5.7.2.2 IoT
- 5.7.2.3 Cloud-based simulation
- 5.7.3 ADJACENT TECHNOLOGIES
  - 5.7.3.1 Digital twins
  - 5.7.3.2 AR and VR
  - 5.7.3.3 5G
- 5.8 PATENT ANALYSIS
  - 5.8.1 METHODOLOGY
- 5.9 KEY CONFERENCES AND EVENTS, 2024–2025
- 5.10 REGULATORY LANDSCAPE
  - 5.10.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
  - 5.10.2 REGULATORY FRAMEWORK
    - 5.10.2.1 German Civil Code
    - 5.10.2.2 Simulation Interoperability Standards Organization (SISO)
    - 5.10.2.3 International Nursing Association for Clinical Simulation and Learning (INACSL)
    - 5.10.2.4 European Chemicals Agency (ECHA)
    - 5.10.2.5 Open Geospatial Consortium (OGC)
- 5.11 PORTER'S FIVE FORCES ANALYSIS
  - 5.11.1 THREAT OF NEW ENTRANTS
  - 5.11.2 THREAT OF SUBSTITUTES
  - 5.11.3 BARGAINING POWER OF SUPPLIERS
  - 5.11.4 BARGAINING POWER OF BUYERS
  - 5.11.5 INTENSITY OF COMPETITIVE RIVALRY
- 5.12 KEY STAKEHOLDERS AND BUYING CRITERIA
  - 5.12.1 KEY STAKEHOLDERS IN BUYING PROCESS
  - 5.12.2 BUYING CRITERIA
- 5.13 IMPACT OF GENERATIVE AI/AI ON SIMULATION SOFTWARE MARKET
  - 5.13.1 TOP USE CASES & MARKET POTENTIAL
    - 5.13.1.1 Key use cases
  - 5.13.2 IMPACT OF GEN AI ON INTERCONNECTED AND ADJACENT ECOSYSTEM
    - 5.13.2.1 Artificial Intelligence (AI) and Machine Learning (ML):
    - 5.13.2.2 Edge computing in simulation
    - 5.13.2.3 Quantum computing
    - 5.13.2.4 Digital twin technology
    - 5.13.2.5 Blockchain for secure simulation data
    - 5.13.2.6 Virtual Reality (VR) and Augmented Reality (AR)



#### 5.14 INVESTMENT AND FUNDING SCENARIO

#### 5.15 TYPES OF DESIGN AND MODELLING SIMULATION SOFTWARE

##### 5.15.1 2D CAD

##### 5.15.2 3D CAD

#### 5.16 CASE STUDY ANALYSIS

##### 5.16.1 ALTAIR STREAMLINED FEA POST-PROCESSING FOR NORTHROP GRUMMAN MARINE SYSTEMS

##### 5.16.2 ANYWAVES ACHIEVED RAPID ANTENNA INNOVATION WITH SIMULIA CST STUDIO

##### 5.16.3 GEA FARM TECHNOLOGIES ENHANCED AGRICULTURAL MACHINERY DESIGN EFFICIENCY WITH SOLID-EDGE SIMULATION

##### 5.16.4 ANSYS-POWERED SIMULATION OPTIMIZED INNOVATIVE BATTERY STORAGE SYSTEM FOR W?RTSIL?

##### 5.16.5 NAPINO UTILIZED AUTODESK MOLDFLOW TO RESOLVE AUTOMOTIVE SWITCH DEFORMATION

### **6 SIMULATION SOFTWARE MARKET, BY OFFERING**

#### 6.1 INTRODUCTION

##### 6.1.1 OFFERINGS: SIMULATION SOFTWARE MARKET DRIVERS

#### 6.2 SOFTWARE

##### 6.2.1 SIMULATION SOFTWARE TO CREATE MODEL GOVERNED BY EQUATIONS AND MATHEMATICAL DATA FOR ENGINEERS TO OBSERVE

#### 6.3 PROFESSIONAL SERVICES

##### 6.3.1 CUSTOMIZED SERVICES TO HELP IN EFFICIENT AND EFFECTIVE DESIGNING AND IMPLEMENTATION OF SIMULATION SOFTWARE

##### 6.3.2 SIMULATION DEVELOPMENT SERVICES

##### 6.3.3 TRAINING & CONSULTATION

##### 6.3.4 SUPPORT & MAINTENANCE

### **7 SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE**

#### 7.1 INTRODUCTION

##### 7.1.1 SOFTWARE TYPES: SIMULATION SOFTWARE MARKET DRIVERS

#### 7.2 COMPUTER-AIDED DESIGN SIMULATION SOFTWARE

##### 7.2.1 DESIGN VALIDATION AND OPTIMIZATION THROUGH COMPUTER-AIDED SIMULATIONS TO DRIVE MARKET GROWTH

#### 7.3 PHYSICS & MULTIPHYSICS SIMULATION SOFTWARE

##### 7.3.1 REALISTIC VIRTUAL MODELS FOR STUDYING PHYSICAL PHENOMENA TO

## FUEL MARKET GROWTH

### 7.4 FINITE ELEMENT ANALYSIS SOFTWARE

7.4.1 FINITE ELEMENT ANALYSIS SOFTWARE TO MODEL COMPLEX STRUCTURES FOR ENGINEERING ANALYSIS

### 7.5 COMPUTATIONAL FLUID DYNAMICS SOFTWARE

7.5.1 COMPUTATIONAL FLUID DYNAMICS SOFTWARE TO OPTIMIZE FLUID BEHAVIOR FOR DIVERSE APPLICATIONS

### 7.6 PROCESS SIMULATION SOFTWARE

7.6.1 PROCESS SIMULATION SOFTWARE TO OPTIMIZE INDUSTRIAL PROCESSES THROUGH VIRTUAL MODELING AND ANALYSIS

### 7.7 ELECTRONIC SIMULATION SOFTWARE

7.7.1 ELECTRONIC SIMULATION SOFTWARE TO ENHANCE CIRCUIT DESIGN AND ANALYSIS FOR ELECTRONICS INDUSTRY

### 7.8 ELECTROMAGNETIC SIMULATION SOFTWARE

7.8.1 NEED FOR OPTIMIZING DEVICE PERFORMANCE WITH ADVANCED ELECTROMAGNETIC SIMULATION SOFTWARE TOOLS TO BOOST MARKET GROWTH

### 7.9 HEALTHCARE & EPIDEMIOLOGICAL SIMULATION SOFTWARE

7.9.1 EPIDEMIOLOGICAL SIMULATIONS TO HELP MODEL DISEASE SPREAD TO AID PUBLIC HEALTH PLANNING

### 7.10 GAMING, AR, VR, AND TRAINING SIMULATION SOFTWARE

7.10.1 SIMULATION SOFTWARE TO ENABLE IMMERSIVE VR AND TRANSFORM TRAINING AND VISUALIZATION EXPERIENCES

### 7.11 MANUFACTURING SIMULATION SOFTWARE

7.11.1 MANUFACTURING SIMULATION SOFTWARE TO CREATE VIRTUAL MODELS OF PRODUCTION PROCESSES AND FACILITATE EFFICIENT TESTING, OPTIMIZATION, AND TROUBLESHOOTING

### 7.12 OTHER SOFTWARE TYPES

## **8 SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE**

### 8.1 INTRODUCTION

8.1.1 DEPLOYMENT MODES: SIMULATION SOFTWARE MARKET DRIVERS

### 8.2 ON-PREMISES

8.2.1 DEPLOYMENT OF ON-PREMISES DEPLOYMENT MODE FOR LOCALIZED SIMULATION SOLUTIONS TO FUEL MARKET GROWTH

### 8.3 CLOUD

8.3.1 CLOUD-BASED SIMULATION SOFTWARE TO ENABLE SCALABLE AND ACCESSIBLE SIMULATIONS

## **9 SIMULATION SOFTWARE MARKET, BY ORGANIZATION SIZE**

### 9.1 INTRODUCTION

#### 9.1.1 ORGANIZATION SIZES: SIMULATION SOFTWARE MARKET DRIVERS

### 9.2 LARGE ENTERPRISES

9.2.1 LARGE ENTERPRISES TO PROMOTE INDUSTRY-WIDE STANDARDS, ACCELERATE DIGITAL TRANSFORMATION, AND OPTIMIZE ENERGY USE WITH SIMULATION SOFTWARE

### 9.3 SMALL AND MEDIUM-SIZED ENTERPRISES

9.3.1 SUBSCRIPTION MODELS AND EMERGING TECHNOLOGIES TO BOOST ACCESSIBILITY FOR SMALL AND MEDIUM-SIZED ENTERPRISES

## **10 SIMULATION SOFTWARE MARKET, BY APPLICATION**

### 10.1 INTRODUCTION

#### 10.1.1 APPLICATIONS: SIMULATION SOFTWARE MARKET DRIVERS

### 10.2 ENGINEERING, RESEARCH, MODELING, AND SIMULATED TESTING

10.2.1 VIRTUAL PROTOTYPING USING SIMULATION SOFTWARE TO ACCELERATE DESIGN AND REDUCE DEVELOPMENT COSTS

### 10.3 AUTOMOTIVE & VEHICLE SIMULATION

10.3.1 SIMULATION SOFTWARE TO HELP ENHANCE AUTOMOTIVE INNOVATION THROUGH VIRTUAL TESTING AND OPTIMIZATION

### 10.4 GAMIFICATION, VR, AR, AND IMMERSIVE EXPERIENCE

10.4.1 SIMULATION SOFTWARE TO GAIN TRACTION DUE TO REALISTIC EXPERIENCES THROUGH IMMERSIVE SIMULATIONS

### 10.5 MANUFACTURING & PROCESS OPTIMIZATION

10.5.1 SIMULATION SOFTWARE IN MANUFACTURING AND PROCESS OPTIMIZATION TO ENHANCE EFFICIENCY AND REDUCE COSTS

### 10.6 URBAN PLANNING

10.6.1 SIMULATION SOFTWARE TO ENABLE VISUALIZATION AND ASSESSMENT OF URBAN LANDSCAPES

### 10.7 SUPPLY CHAIN, LOGISTICS MANAGEMENT, AND TRANSPORTATION

10.7.1 SIMULATION SOFTWARE TO OPTIMIZE URBAN PLANS AND STREAMLINE LOGISTICS OPERATIONS

### 10.8 HEALTHCARE & MEDICAL DEVICE SIMULATION

10.8.1 SIMULATION SOFTWARE TO HELP ENHANCE MEDICAL TRAINING, SAFETY, AND PERSONALIZED PATIENT CARE

### 10.9 OTHER APPLICATIONS

## **11 SIMULATION SOFTWARE MARKET, BY VERTICAL**

### 11.1 INTRODUCTION

#### 11.1.1 VERTICALS: SIMULATION SOFTWARE MARKET DRIVERS

### 11.2 AUTOMOTIVE

#### 11.2.1 SIMULATIONS TO ENABLE ENHANCED VEHICLE DESIGN, SAFETY, AND PERFORMANCE

### 11.3 AEROSPACE & DEFENSE

#### 11.3.1 ADVANCED SIMULATIONS TO INCREASE AEROSPACE EFFICIENCY AND SAFETY

### 11.4 ELECTRICAL & ELECTRONICS

#### 11.4.1 SIMULATION SOFTWARE TO ENABLE EFFICIENT CIRCUIT DESIGN AND ANALYSIS

### 11.5 HEALTHCARE & PHARMACEUTICALS

#### 11.5.1 SIMULATION SOFTWARE TO AUTOMATE AND VALIDATE ROUTINE STRUCTURES AND COMMON REPETITIVE PRACTICES IN HEALTHCARE

### 11.6 OIL, GAS, AND MINING

#### 11.6.1 NEED TO OPTIMIZE FIELD PRODUCTION, DESIGN PIPELINE NETWORKS TO SAVE CAPITAL, AND ANALYZE AND DESIGN OIL TRANSFER PROCESSES TO BOLSTER MARKET GROWTH

### 11.7 CONSTRUCTION

#### 11.7.1 USE OF SIMULATION SOFTWARE TO LEAD TO EFFICIENT DESIGNS, RESOURCES, AND REDUCTION IN COST OF CONSTRUCTION

### 11.8 SHIPBUILDING & MARINE ENGINEERING

#### 11.8.1 SIMULATION SOFTWARE TO OPTIMIZE SHIP DESIGN, SAFETY, AND PERFORMANCE

### 11.9 CHEMICALS

#### 11.9.1 SIMULATION SOFTWARE TO ENSURE PROCESS OPTIMIZATION, SAFETY, AND QUALITY IN CHEMICAL INDUSTRY

### 11.10 GAMING

#### 11.10.1 NEED FOR ENHANCING GAME REALISM WITH ADVANCED SIMULATION TOOLS TO BOOST MARKET GROWTH

### 11.11 OTHER VERTICALS

## **12 SIMULATION SOFTWARE MARKET, BY REGION**

### 12.1 INTRODUCTION

### 12.2 NORTH AMERICA

## 12.2.1 NORTH AMERICA: SIMULATION SOFTWARE MARKET DRIVERS

## 12.2.2 NORTH AMERICA: MACROECONOMIC OUTLOOK

### 12.2.3 US

12.2.3.1 Need for enhancing predictive capabilities, automating processes, and enabling real-time decision-making to drive market

### 12.2.4 CANADA

12.2.4.1 Advanced technology, dynamic deep learning algorithms, and government initiatives to propel market

## 12.3 EUROPE

### 12.3.1 EUROPE: SIMULATION SOFTWARE MARKET DRIVERS

### 12.3.2 EUROPE: MACROECONOMIC OUTLOOK

#### 12.3.3 UK

12.3.3.1 Partnerships and collaborative efforts to fuel expansion of simulation software

#### 12.3.4 GERMANY

12.3.4.1 Advancements in simulation technology within automotive and healthcare verticals to bolster market growth

#### 12.3.5 FRANCE

12.3.5.1 Support from government and non-profit organizations to fuel demand for simulation software

#### 12.3.6 ITALY

12.3.6.1 Advancements in technology and rising demand for simulation software in start-ups to boost market growth

#### 12.3.7 REST OF EUROPE

## 12.4 ASIA PACIFIC

### 12.4.1 ASIA PACIFIC: SIMULATION SOFTWARE MARKET DRIVERS

### 12.4.2 ASIA PACIFIC: MACROECONOMIC OUTLOOK

#### 12.4.3 CHINA

12.4.3.1 Economic growth, dense population, increasing per capita income, and rapid industrialization and urbanization to enhance market growth

#### 12.4.4 JAPAN

12.4.4.1 Rising government initiative for adoption of advanced simulation techniques within manufacturing firms to foster market growth

#### 12.4.5 INDIA

12.4.5.1 Innovative partnerships and initiatives to drive simulation software landscape

#### 12.4.6 SINGAPORE

12.4.6.1 Simulation software to boost growth in aviation sector

#### 12.4.7 REST OF ASIA PACIFIC

## 12.5 MIDDLE EAST & AFRICA

### 12.5.1 MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET DRIVERS

### 12.5.2 MIDDLE EAST & AFRICA: MACROECONOMIC OUTLOOK

### 12.5.3 GCC COUNTRIES

12.5.3.1 Digital transformation, cloud adoption, and industry-specific applications to fuel market growth

#### 12.5.3.2 UAE

12.5.3.2.1 Rapid digitalization to lead to adoption of simulation solutions

#### 12.5.3.3 KSA

12.5.3.3.1 Advancements in technology, increased industry adoption, and government support through Vision 2030 to boost market growth

#### 12.5.3.4 Rest of GCC countries

### 12.5.4 SOUTH AFRICA

12.5.4.1 Presence of major vendors providing simulation software solutions to drive market growth

### 12.5.5 REST OF MIDDLE EAST & AFRICA

## 12.6 LATIN AMERICA

### 12.6.1 LATIN AMERICA: SIMULATION SOFTWARE MARKET DRIVERS

### 12.6.2 LATIN AMERICA: MACROECONOMIC OUTLOOK

### 12.6.3 BRAZIL

12.6.3.1 Utilization of simulation software in electronics and construction sector to boost market growth

### 12.6.4 MEXICO

12.6.4.1 Integration of simulation software in maritime sector to fuel growth in Mexico

### 12.6.5 REST OF LATIN AMERICA

## 13 COMPETITIVE LANDSCAPE

### 13.1 OVERVIEW

### 13.2 KEY PLAYER STRATEGIES/RIGHT TO WIN

### 13.3 REVENUE ANALYSIS

### 13.4 MARKET SHARE ANALYSIS

### 13.5 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023

#### 13.5.1 STARS

#### 13.5.2 EMERGING LEADERS

#### 13.5.3 PERVASIVE PLAYERS

#### 13.5.4 PARTICIPANTS

#### 13.5.5 COMPANY FOOTPRINT: KEY PLAYERS, 2024

##### 13.5.5.1 Company footprint

##### 13.5.5.2 Offering footprint

13.5.5.3 Deployment mode footprint

13.5.5.4 Vertical footprint

13.5.5.5 Regional footprint

## 13.6 COMPANY EVALUATION MATRIX: START-UPS/SMES, 2023

13.6.1 PROGRESSIVE COMPANIES

13.6.2 RESPONSIVE COMPANIES

13.6.3 DYNAMIC COMPANIES

13.6.4 STARTING BLOCKS

13.6.5 COMPETITIVE BENCHMARKING: COMPANY START-UPS/SMES, 2023

13.6.5.1 Detailed list of key start-ups/SMEs

13.6.5.2 Competitive benchmarking of key start-ups/SMEs

## 13.7 BRAND/PRODUCT COMPARISON

## 13.8 COMPANY VALUATION AND FINANCIAL METRICS

13.8.1 COMPANY VALUATION

13.8.2 FINANCIAL METRICS USING EV/EBIDTA

## 13.9 COMPETITIVE SCENARIO AND TRENDS

13.9.1 PRODUCT LAUNCHES AND ENHANCEMENTS

13.9.2 DEALS

# 14 COMPANY PROFILES

## 14.1 KEY PLAYERS

14.1.1 DASSAULT SYSTEMES

14.1.1.1 Business overview

14.1.1.2 Products/Solutions/Services offered

14.1.1.3 Recent developments

14.1.1.4 MnM view

14.1.1.4.1 Right to win

14.1.1.4.2 Strategic choices

14.1.1.4.3 Weaknesses and competitive threats

14.1.2 ANSYS

14.1.2.1 Business overview

14.1.2.2 Products/Solutions/Services offered

14.1.2.3 Recent developments

14.1.2.3.1 Product launches and enhancements

14.1.2.3.2 Deals

14.1.2.4 MnM view

14.1.2.4.1 Right to win

14.1.2.4.2 Strategic choices



- 14.1.2.4.3 Weaknesses and competitive threats
- 14.1.3 AUTODESK
  - 14.1.3.1 Business overview
  - 14.1.3.2 Products/Solutions/Services offered
  - 14.1.3.3 Recent developments
    - 14.1.3.3.1 Deals
  - 14.1.3.4 MnM view
    - 14.1.3.4.1 Right to win
    - 14.1.3.4.2 Strategic choices
    - 14.1.3.4.3 Weaknesses and competitive threats
- 14.1.4 AVL
  - 14.1.4.1 Business overview
  - 14.1.4.2 Products/Solutions/Services offered
  - 14.1.4.3 Recent developments
    - 14.1.4.3.1 Deals
  - 14.1.4.4 MnM view
    - 14.1.4.4.1 Right to win
    - 14.1.4.4.2 Strategic choices
    - 14.1.4.4.3 Weaknesses and competitive threats
- 14.1.5 MATHWORKS
  - 14.1.5.1 Business overview
  - 14.1.5.2 Products/Solutions/Services offered
  - 14.1.5.3 Recent developments
    - 14.1.5.3.1 Product launches
    - 14.1.5.3.2 Deals
  - 14.1.5.4 MnM view
    - 14.1.5.4.1 Right to win
    - 14.1.5.4.2 Strategic choices
    - 14.1.5.4.3 Weaknesses and competitive threats
- 14.1.6 SIEMENS
  - 14.1.6.1 Business overview
  - 14.1.6.2 Products/Solutions/Services offered
  - 14.1.6.3 Recent developments
    - 14.1.6.3.1 Product launches and enhancements
    - 14.1.6.3.2 Deals
  - 14.1.6.4 MnM view
    - 14.1.6.4.1 Right to win
    - 14.1.6.4.2 Strategic choices
    - 14.1.6.4.3 Weaknesses and competitive threats

#### 14.1.7 HEXAGON

- 14.1.7.1 Business overview
- 14.1.7.2 Products/Solutions/Services offered
- 14.1.7.3 Recent developments
  - 14.1.7.3.1 Product launches and enhancements
  - 14.1.7.3.2 Deals

#### 14.1.8 SYNOPSIS

- 14.1.8.1 Business overview
- 14.1.8.2 Products/Solutions/Services offered
- 14.1.8.3 Recent developments
  - 14.1.8.3.1 Deals

#### 14.1.9 TEXAS INSTRUMENTS

- 14.1.9.1 Business overview
- 14.1.9.2 Products/Solutions/Services offered
- 14.1.9.3 Recent developments
  - 14.1.9.3.1 Product launches and enhancements
  - 14.1.9.3.2 Deals

#### 14.1.10 SAS

- 14.1.10.1 Business overview
- 14.1.10.2 Products/Solutions/Services offered
- 14.1.10.3 Recent developments
  - 14.1.10.3.1 Product launches and enhancements
  - 14.1.10.3.2 Deals

#### 14.1.11 CAE

- 14.1.11.1 Business overview
- 14.1.11.2 Products/Solutions/Services offered
- 14.1.11.3 Recent developments
  - 14.1.11.3.1 Product launches and enhancements
  - 14.1.11.3.2 Deals

#### 14.1.12 EMERSON

- 14.1.12.1 Business overview
- 14.1.12.2 Products/Solutions/Services offered
- 14.1.12.3 Recent developments
  - 14.1.12.3.1 Product launches and enhancements
  - 14.1.12.3.2 Deals

#### 14.1.13 HONEYWELL

- 14.1.13.1 Business overview
- 14.1.13.2 Products/Solutions/Services offered
- 14.1.13.3 Recent developments

- 14.1.13.3.1 Deals
- 14.1.14 ROCKWELL AUTOMATION
  - 14.1.14.1 Business overview
  - 14.1.14.2 Products/Solutions/Services offered
  - 14.1.14.3 Recent developments
    - 14.1.14.3.1 Product launches and enhancements
    - 14.1.14.3.2 Deals
- 14.1.15 ALTAIR
  - 14.1.15.1 Business overview
  - 14.1.15.2 Products/Solutions/Services offered
  - 14.1.15.3 Recent developments
    - 14.1.15.3.1 Product launches and enhancements
    - 14.1.15.3.2 Deals
- 14.1.16 PTC
  - 14.1.16.1 Business overview
  - 14.1.16.2 Products/Solutions/Services offered
  - 14.1.16.3 Recent developments
    - 14.1.16.3.1 Product launches and enhancements
- 14.1.17 ASPENTECH
  - 14.1.17.1 Business overview
  - 14.1.17.2 Products/Solutions/Services offered
  - 14.1.17.3 Recent developments
    - 14.1.17.3.1 Deals
- 14.1.18 KEYSIGHT
  - 14.1.18.1 Business overview
  - 14.1.18.2 Products/Solutions/Services offered
  - 14.1.18.3 Recent developments
    - 14.1.18.3.1 Product launches and enhancements
    - 14.1.18.3.2 Deals
- 14.1.19 AVEVA
- 14.1.20 SPIRENT
- 14.1.21 BENTLEY
- 14.1.22 CERTARA
- 14.2 OTHER PLAYERS
  - 14.2.1 APRIORI
  - 14.2.2 ANYLOGIC
  - 14.2.3 SIMSCALE
  - 14.2.4 SIMUL8
  - 14.2.5 SIMIO

- 14.2.6 FLEXSIM
- 14.2.7 MOSIMTEC
- 14.2.8 FIVES PROSIM
- 14.2.9 CYBERNET
- 14.2.10 CESIM
- 14.2.11 AIRSHAPER

## **15 ADJACENT AND RELATED MARKETS**

- 15.1 INTRODUCTION
- 15.2 LIMITATIONS
- 15.3 SIMULATION SOFTWARE ECOSYSTEM AND ADJACENT MARKETS
- 15.4 DIGITAL TWIN MARKET
  - 15.4.1 DIGITAL TWIN MARKET, BY ENTERPRISE SIZE
  - 15.4.2 DIGITAL TWIN MARKET, BY APPLICATION
- 15.5 COMPUTER-AIDED MANUFACTURING MARKET
  - 15.5.1 COMPUTER-AIDED MANUFACTURING MARKET, BY COMPONENT
  - 15.5.2 COMPUTER-AIDED MANUFACTURING MARKET, BY DEPLOYMENT TYPE

## **16 APPENDIX**

- 16.1 DISCUSSION GUIDE
- 16.2 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL
- 16.3 CUSTOMIZATION OPTIONS
- 16.4 RELATED REPORTS
- 16.5 AUTHOR DETAILS

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