

# **Simulation Software Market by Offering (Software & Professional Services), Software Type (Computer-Aided Design, Finite Element Analysis), Deployment Mode (On-Premises and Cloud), Application, Vertical and Region - Global Forecast to 2028**

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## **Abstracts**

The global simulation software market size is projected to grow from USD 18.1 billion in 2023 to USD 33.5 billion by 2028 at a Compound Annual Growth Rate (CAGR) of 13.1% during the forecast period. The simulation software market is expected to experience substantial growth due to the increasing need for cost-effective software to reduce production and training expenses, risk mitigation, and performance improvement. Computing power and cloud technology advancements facilitate broader adoption, enhancing accessibility and realism. Integrating technologies like Digital Twin, AR/VR, and 3D printing further drive innovation and competitiveness across Healthcare, aerospace, and automotive industries. These factors point us to a promising future with rising demand for simulation software.

“By vertical, the Automotive segment accounts for a larger market share.”

The Automotive segment holds the largest market share in the simulation software market for various reasons. As an early adopter of virtual tools for product development, the automotive industry curbs costs and enhances efficiency by virtually assessing designs, preempting risks, and truncating development timelines. The surge towards electric and autonomous vehicles amplifies simulation software's significance in refining novel technologies, optimizing components like electric motors and batteries, and validating autonomous systems. Concurrently, the industry's amplified pursuit of safety and efficacy is abetted by simulation's prowess in hazard identification and design optimization. The intense research and development investments by automotive OEMs

further solidify simulation software's role in innovating designs, dissecting data, and pioneering progressive products and technologies.

"The software segment accounts for a larger market share by offering."

The software holds the largest market share due to the increasing demand for simulation software across a wide range of industries, including automotive, aerospace, Manufacturing, Healthcare, and energy. This demand arises due to software's ability to help businesses improve efficiency and productivity by enabling them to test and optimize designs and processes before implementation, resulting in significant cost and time savings. Additionally, the rising adoption of cloud-based simulation software, with its cost-effectiveness and scalability, is expected to further propel the growth of the software segment in the foreseeable future.

" By Application, Healthcare and Medical Devices Simulation is to grow at the highest CAGR during the forecast period."

The Healthcare and medical device simulation sector is experiencing remarkable growth in the simulation market due to surging demand for healthcare-focused simulation training. This method enables practitioners to enhance many skills while prioritizing patient safety. It also offers a secure and authentic environment for professionals to refine their expertise without risking patient well-being. Integrating virtual reality (VR) and augmented reality (AR) technologies further fuels this growth by providing immersive, lifelike training experiences. Moreover, the sector benefits from an increasing emphasis on patient safety and robust governmental support for simulation-based training, solidifying its upward trajectory.

#### Breakdown of primaries

The study contains various industry experts' insights, 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 – 45%, Directors – 35%, and Managers – 20%

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

Major vendors in the global simulation software market include Siemens (Germany), Ansys (US), Dassault Systemes (France), MathWorks (US), Autodesk (US), Keysight (US), Hexagon (US), Honeywell (US), Altair (US), PTC (US), AVL (Austria), AVEVA (UK), Spirent (UK), Bentley (US), Synopsys (Canada), Certara (US), aPriori (US), AnyLogic (US), SimScale (Germany), Simul8 (UK), Simio (US), FlexSim (US), MOSIMTEC (US), ProSim (US), Cybernet (US), and Cesim (Finland).

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 and forecasts its size by Offering (Software and Professional Services), Software Type (Computer-aided design (CAD) software, Physics simulation software, Finite element analysis (FEA) software, Computational fluid dynamics (CFD) software, Process simulation software, Electronic simulation software, Healthcare and epidemiological simulation software, Gaming, AR, VR, and training simulation software, and other software types), Deployment Mode (On-Premises and Cloud), 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 devices simulation, and Other applications), Vertical (Automotive, Aerospace & Defense, Electrical and Electronics, Healthcare and Pharmaceuticals, Oil & Gas, and Mining, Construction, Ship building and Marine, Chemicals, and other Verticals), and Region (North America, Europe, Asia Pacific, Middle East and Africa, and 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 (increasing capabilities of simulation with regards to advanced technologies such as Digital Twin, AR/VR, and 3D Printing, advancements in computing power and cloud technology, and increasing demand for practical solutions to reduce production expenses and training costs), restraints (high price of simulation software and services, lack of skilled professionals to operate simulation software and complexity of simulation software), opportunities (growth of the automotive industry, expansion of the Healthcare, and development of new technologies such as quantum computing and artificial intelligence), and challenges (lack of standardization, regulatory and compliance challenges, and integration and compatibility)

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product & 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 & 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 Siemens (Germany), Ansys (US), Dassault Systemes (France), MathWorks (US), Autodesk (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 MARKET SCOPE

##### 1.3.1 MARKET SEGMENTATION

##### 1.3.2 REGIONS COVERED

##### 1.3.3 YEARS CONSIDERED

#### 1.4 CURRENCY CONSIDERED

#### TABLE 1 USD EXCHANGE RATES, 2018–2022

#### 1.5 STAKEHOLDERS

#### 1.6 SUMMARY OF CHANGES

### 2 RESEARCH METHODOLOGY

#### 2.1 RESEARCH DATA

#### FIGURE 1 SIMULATION SOFTWARE MARKET: RESEARCH DESIGN

##### 2.1.1 SECONDARY DATA

##### 2.1.2 PRIMARY DATA

##### 2.1.2.1 Breakdown of primary profiles

#### FIGURE 2 BREAKDOWN OF PRIMARY INTERVIEWS, BY COMPANY TYPE, DESIGNATION, AND REGION

##### 2.1.2.2 Key insights from industry experts

#### 2.2 DATA TRIANGULATION AND MARKET BREAKUP

#### FIGURE 3 SIMULATION SOFTWARE MARKET: DATA TRIANGULATION

#### 2.3 MARKET SIZE ESTIMATION

#### FIGURE 4 SIMULATION SOFTWARE MARKET ESTIMATION: RESEARCH FLOW

##### 2.3.1 TOP-DOWN APPROACH

#### FIGURE 5 APPROACH 1 (SUPPLY SIDE): REVENUE FROM SOFTWARE/SERVICES OF SIMULATION SOFTWARE VENDORS

#### FIGURE 6 APPROACH 1 (SUPPLY-SIDE ANALYSIS)

##### 2.3.2 BOTTOM-UP APPROACH

#### FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY APPROACH 2 — BOTTOM-UP (DEMAND SIDE): PRODUCTS/SOLUTIONS/SERVICES

#### 2.4 MARKET FORECAST

#### TABLE 2 FACTOR ANALYSIS

## 2.5 RECESSION IMPACT AND ASSUMPTIONS

### 2.5.1 RECESSION IMPACT

### 2.5.2 ASSUMPTIONS

## 2.6 LIMITATIONS

### FIGURE 8 STUDY LIMITATIONS

## 3 EXECUTIVE SUMMARY

TABLE 3 SIMULATION SOFTWARE MARKET SIZE AND GROWTH RATE, 2017–2022  
(USD MILLION, Y-O-Y %)

TABLE 4 SIMULATION SOFTWARE MARKET SIZE AND GROWTH RATE, 2023–2028  
(USD MILLION, Y-O-Y %)

FIGURE 9 GLOBAL SIMULATION SOFTWARE MARKET SIZE AND Y-O-Y GROWTH RATE

FIGURE 10 NORTH AMERICA TO DOMINATE MARKET IN 2023

## 4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR KEY PLAYERS IN SIMULATION SOFTWARE MARKET

FIGURE 11 SIMULATION SOFTWARE OFFERINGS GAINING TREMENDOUS TRACTION IN AUTOMOTIVE INDUSTRY

4.2 SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028

FIGURE 12 SOFTWARE SEGMENT TO HOLD LARGER MARKET SHARE DURING FORECAST PERIOD

4.3 SIMULATION SOFTWARE MARKET, BY VERTICAL AND SOFTWARE TYPE, 2023

FIGURE 13 AUTOMOTIVE VERTICAL AND FINITE ELEMENT ANALYSIS SOFTWARE TYPE TO HOLD LARGEST MARKET SHARE IN 2023

4.4 SIMULATION SOFTWARE MARKET: TOP 3 APPLICATIONS, 2023–2028

FIGURE 14 HEALTHCARE AND MEDICAL DEVICES SIMULATION APPLICATION TO RECORD HIGHEST GROWTH RATE DURING FORECAST PERIOD

4.5 SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028

FIGURE 15 ON-PREMISES SEGMENT TO HOLD LARGER MARKET SHARE DURING FORECAST PERIOD

4.6 SIMULATION SOFTWARE MARKET INVESTMENT SCENARIO, BY REGION

FIGURE 16 ASIA PACIFIC TO EMERGE AS BEST MARKET FOR INVESTMENTS IN NEXT FIVE YEARS

## 5 MARKET OVERVIEW AND INDUSTRY TRENDS

### 5.1 INTRODUCTION

### 5.2 MARKET DYNAMICS

#### FIGURE 17 SIMULATION SOFTWARE MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

##### 5.2.1 DRIVERS

5.2.1.1 Increasing capabilities of simulation with regard to advanced technologies such as digital twin, AR/VR, and 3D printing

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 to operate simulation software

5.2.2.3 Complexity of simulation software

##### 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 artificial intelligence

##### 5.2.4 CHALLENGES

5.2.4.1 Lack of standardization

5.2.4.2 Regulatory and compliance challenges

5.2.4.3 Integration and compatibility

### 5.3 USE CASES

5.3.1 CASE STUDY 1: ALTAIR STREAMLINED FEA POST-PROCESSING FOR NORTHROP GRUMMAN MARINE SYSTEMS

5.3.2 CASE STUDY 2: ANYWAVES ACHIEVED RAPID ANTENNA INNOVATION WITH SIMULIA CST STUDIO

5.3.3 CASE STUDY 3: GEA ENHANCED AGRICULTURAL MACHINERY DESIGN EFFICIENCY WITH SOLID EDGE SIMULATION

5.3.4 CASE STUDY 4: ANSYS-POWERED SIMULATION OPTIMIZED INNOVATIVE BATTERY STORAGE SYSTEM FOR W?RTSIL?

5.3.5 CASE STUDY 5: NAPINO UTILIZED AUTODESK MOLDFLOW TO RESOLVE AUTOMOTIVE SWITCH DEFORMATION

### 5.4 VALUE CHAIN ANALYSIS

#### FIGURE 18 SIMULATION SOFTWARE MARKET: VALUE CHAIN ANALYSIS

### 5.5 SIMULATION SOFTWARE MARKET ECOSYSTEM



**FIGURE 19 SIMULATION SOFTWARE: MARKET ECOSYSTEM****5.6 PORTER'S FIVE FORCES ANALYSIS****FIGURE 20 SIMULATION SOFTWARE: PORTER'S FIVE FORCES ANALYSIS****TABLE 5 IMPACT OF PORTER'S FIVE FORCES ON SIMULATION SOFTWARE MARKET****5.6.1 THREAT OF NEW ENTRANTS****5.6.2 THREAT OF SUBSTITUTES****5.6.3 BARGAINING POWER OF SUPPLIERS****5.6.4 BARGAINING POWER OF BUYERS****5.6.5 INTENSITY OF COMPETITIVE RIVALRY****5.7 PRICING ANALYSIS****TABLE 6 PRICING/PRICING MODELS OF MATHWORKS****TABLE 7 PRICING/PRICING MODELS OF AUTODESK****TABLE 8 PRICING/PRICING MODELS OF BENTLEY SYSTEMS****TABLE 9 PRICING/PRICING MODELS OF SIMUL8 CORP****5.8 TECHNOLOGY ANALYSIS****5.8.1 CLOUD-BASED SIMULATION****5.8.2 MULTI-DISCIPLINARY SIMULATION****5.8.3 DIGITAL TWINS****5.8.4 IOT AND IIOT****5.8.5 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING****5.8.6 AUGMENTED REALITY AND VIRTUAL REALITY****5.8.7 5G****5.9 PATENT ANALYSIS****FIGURE 21 PATENT ANALYSIS: SIMULATION SOFTWARE****5.10 EMERGING TRENDS IN SIMULATION SOFTWARE MARKET****FIGURE 22 MAJOR YCC TRENDS TO DRIVE FUTURE REVENUE PROSPECTS IN SIMULATION SOFTWARE MARKET****5.11 TARIFF AND REGULATORY LANDSCAPE****5.11.1 GERMAN CIVIL CODE****5.11.2 SIMULATION INTEROPERABILITY STANDARDS ORGANIZATION (SISO)****5.11.3 INTERNATIONAL NURSING ASSOCIATION FOR CLINICAL SIMULATION AND LEARNING (INACSL)****5.11.4 EUROPEAN CHEMICALS AGENCY (ECHA)****5.11.5 OPEN GEOSPATIAL CONSORTIUM (OGC)****5.11.6 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS****TABLE 10 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS**



## 5.12 KEY STAKEHOLDERS AND BUYING CRITERIA

### 5.12.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 23 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS (%)

TABLE 11 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS (%)

## 5.13 KEY CONFERENCES AND EVENTS IN 2023–2024

TABLE 12 SIMULATION SOFTWARE MARKET: KEY CONFERENCES AND EVENTS

## 6 SIMULATION SOFTWARE MARKET, BY OFFERING

### 6.1 INTRODUCTION

#### 6.1.1 OFFERING: SIMULATION SOFTWARE MARKET DRIVERS

FIGURE 24 SOFTWARE SEGMENT TO HOLD LARGER MARKET SIZE DURING FORECAST PERIOD

TABLE 13 SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 14 SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

### 6.2 SOFTWARE

6.2.1 PROCESS OPTIMIZATION ACROSS ALL SIMULATION SOFTWARE TYPES TO BOOST GROWTH

TABLE 15 SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 16 SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

### 6.3 PROFESSIONAL SERVICES

6.3.1 CUSTOMIZED SERVICE OFFERINGS TO GAIN TRACTION, IN TURN, DRIVING MARKET GROWTH

TABLE 17 PROFESSIONAL SERVICES: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 18 PROFESSIONAL SERVICES: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 6.3.2 SIMULATION DEVELOPMENT SERVICES

#### 6.3.3 TRAINING AND CONSULTATION

#### 6.3.4 SUPPORT AND MAINTENANCE

## 7 SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE

### 7.1 INTRODUCTION

#### 7.1.1 SOFTWARE TYPE: SIMULATION SOFTWARE MARKET DRIVERS

FIGURE 25 FINITE ELEMENT ANALYSIS SOFTWARE SEGMENT TO HOLD LARGEST MARKET SIZE DURING FORECAST PERIOD

TABLE 19 SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 20 SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

## 7.2 COMPUTER-AIDED DESIGN SOFTWARE

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

TABLE 21 COMPUTER-AIDED DESIGN SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 22 COMPUTER-AIDED DESIGN SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

## 7.3 PHYSICS SIMULATION SOFTWARE

7.3.1 REALISTIC VIRTUAL MODELS FOR STUDYING PHYSICAL PHENOMENA TO FUEL MARKET GROWTH

TABLE 23 PHYSICS SIMULATION SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 24 PHYSICS SIMULATION SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

## 7.4 FINITE ELEMENT ANALYSIS SOFTWARE

7.4.1 FEA SOFTWARE TO MODEL COMPLEX STRUCTURES FOR ENGINEERING ANALYSIS

TABLE 25 FINITE ELEMENT ANALYSIS SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 26 FINITE ELEMENT ANALYSIS SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

## 7.5 COMPUTATIONAL FLUID DYNAMICS SOFTWARE

7.5.1 CFD SOFTWARE TO OPTIMIZE FLUID BEHAVIOR FOR DIVERSE APPLICATIONS

TABLE 27 COMPUTATIONAL FLUID DYNAMICS SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 28 COMPUTATIONAL FLUID DYNAMICS SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

## 7.6 PROCESS SIMULATION SOFTWARE

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

TABLE 29 PROCESS SIMULATION SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 30 PROCESS SIMULATION SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 7.7 ELECTRONIC SIMULATION SOFTWARE

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

TABLE 31 ELECTRONIC SIMULATION SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 32 ELECTRONIC SIMULATION SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 7.8 HEALTHCARE AND EPIDEMIOLOGICAL SIMULATION SOFTWARE

7.8.1 EPIDEMIOLOGICAL SIMULATIONS TO HELP MODEL DISEASE SPREAD, AIDING PUBLIC HEALTH PLANNING

TABLE 33 HEALTHCARE AND EPIDEMIOLOGICAL SIMULATION SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 34 HEALTHCARE AND EPIDEMIOLOGICAL SIMULATION SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

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

7.9.1 SOFTWARE TO ENABLE IMMERSIVE VR AND TRANSFORM TRAINING AND VISUALIZATION EXPERIENCES

TABLE 35 GAMING, AR, VR, AND TRAINING SIMULATION SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 36 GAMING, AR, VR, AND TRAINING SIMULATION SOFTWARE: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 7.10 OTHER SOFTWARE TYPES

TABLE 37 OTHER SOFTWARE TYPES: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 38 OTHER SOFTWARE TYPES: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

## 8 SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE

### 8.1 INTRODUCTION

8.1.1 DEPLOYMENT MODE: SIMULATION SOFTWARE MARKET DRIVERS  
FIGURE 26 ON-PREMISES SEGMENT TO HOLD LARGER MARKET SIZE DURING FORECAST PERIOD

TABLE 39 SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 40 SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

## 8.2 ON-PREMISES

### 8.2.1 ON-SITE DEPLOYMENT FOR LOCALIZED SIMULATION SOLUTIONS TO FUEL MARKET GROWTH

TABLE 41 ON-PREMISES: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 42 ON-PREMISES: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

## 8.3 CLOUD

### 8.3.1 CLOUD TO ENABLE SCALABLE AND ACCESSIBLE SIMULATIONS

TABLE 43 CLOUD: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 44 CLOUD: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

## 9 SIMULATION SOFTWARE MARKET, BY APPLICATION

### 9.1 INTRODUCTION

#### 9.1.1 APPLICATION: SIMULATION SOFTWARE MARKET DRIVERS

FIGURE 27 ENGINEERING, RESEARCH, MODELING, AND SIMULATED TESTING SEGMENT TO HOLD LARGEST MARKET SIZE DURING FORECAST PERIOD

TABLE 45 SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 46 SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

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

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

TABLE 47 ENGINEERING, RESEARCH, MODELING, AND SIMULATED TESTING: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 48 ENGINEERING, RESEARCH, MODELING, AND SIMULATED TESTING: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

### 9.3 AUTOMOTIVE AND VEHICLE SIMULATION

#### 9.3.1 SIMULATION TO HELP ENHANCE AUTOMOTIVE INNOVATION THROUGH VIRTUAL TESTING AND OPTIMIZATION

TABLE 49 AUTOMOTIVE AND VEHICLE SIMULATION: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 50 AUTOMOTIVE AND VEHICLE SIMULATION: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

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

#### 9.4.1 SEGMENT TO GAIN TRACTION DUE TO REALISTIC EXPERIENCES THROUGH IMMERSIVE SIMULATIONS

TABLE 51 GAMIFICATION, VR, AR, AND IMMERSIVE EXPERIENCE: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 52 GAMIFICATION, VR, AR, AND IMMERSIVE EXPERIENCE: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 9.5 MANUFACTURING AND PROCESS OPTIMIZATION

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

TABLE 53 MANUFACTURING AND PROCESS OPTIMIZATION: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 54 MANUFACTURING AND PROCESS OPTIMIZATION: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 9.6 URBAN PLANNING, SUPPLY CHAIN, LOGISTICS MANAGEMENT, AND TRANSPORTATION

9.6.1 SIMULATION TO OPTIMIZE URBAN PLANS AND STREAMLINE LOGISTICS OPERATIONS

TABLE 55 URBAN PLANNING, SUPPLY CHAIN, LOGISTICS MANAGEMENT, AND TRANSPORTATION: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 56 URBAN PLANNING, SUPPLY CHAIN, LOGISTICS MANAGEMENT, AND TRANSPORTATION: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 9.7 HEALTHCARE AND MEDICAL DEVICE SIMULATION

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

TABLE 57 HEALTHCARE AND MEDICAL DEVICE SIMULATION: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 58 HEALTHCARE AND MEDICAL DEVICE SIMULATION: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 9.8 OTHER APPLICATIONS

TABLE 59 OTHER APPLICATIONS: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 60 OTHER APPLICATIONS: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

### 10 SIMULATION SOFTWARE MARKET, BY VERTICAL

## 10.1 INTRODUCTION

### 10.1.1 VERTICAL: SIMULATION SOFTWARE MARKET DRIVERS

FIGURE 28 AUTOMOTIVE SEGMENT TO LEAD SIMULATION SOFTWARE MARKET DURING FORECAST PERIOD

TABLE 61 SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 62 SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

## 10.2 AUTOMOTIVE

10.2.1 SIMULATIONS TO ENABLE ENHANCED VEHICLE DESIGN, SAFETY, AND PERFORMANCE

TABLE 63 AUTOMOTIVE: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 64 AUTOMOTIVE: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

## 10.3 AEROSPACE AND DEFENSE

10.3.1 ADVANCED SIMULATIONS TO INCREASE AEROSPACE EFFICIENCY AND SAFETY

TABLE 65 AEROSPACE AND DEFENSE: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 66 AEROSPACE AND DEFENSE: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

## 10.4 ELECTRICAL AND ELECTRONICS

10.4.1 SIMULATION SOFTWARE TO ENABLE EFFICIENT CIRCUIT DESIGN AND ANALYSIS

TABLE 67 ELECTRICAL AND ELECTRONICS: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 68 ELECTRICAL AND ELECTRONICS: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

## 10.5 HEALTHCARE AND PHARMACEUTICALS

10.5.1 SIMULATION SOFTWARE TO HELP ENHANCE MEDICAL TRAINING, SAFETY, AND PATIENT OUTCOMES

TABLE 69 HEALTHCARE AND PHARMACEUTICALS: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 70 HEALTHCARE AND PHARMACEUTICALS: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

## 10.6 OIL & GAS AND MINING

10.6.1 USE OF SIMULATIONS TO ADDRESS ISSUES IN CRITICAL INFRASTRUCTURE IN OIL & GAS AND MINING VERTICALS



TABLE 71 OIL & GAS AND MINING: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 72 OIL & GAS AND MINING: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 10.7 CONSTRUCTION

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

TABLE 73 CONSTRUCTION: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 74 CONSTRUCTION: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 10.8 SHIPBUILDING AND MARINE

10.8.1 SIMULATIONS TO OPTIMIZE SHIP DESIGN, SAFETY, AND PERFORMANCE

TABLE 75 SHIPBUILDING AND MARINE: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 76 SHIPBUILDING AND MARINE: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 10.9 CHEMICALS

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

TABLE 77 CHEMICALS: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 78 CHEMICALS: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 10.10 OTHER VERTICALS

TABLE 79 OTHER VERTICALS: SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 80 OTHER VERTICALS: SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

### 11 SIMULATION SOFTWARE MARKET, BY REGION

#### 11.1 INTRODUCTION

FIGURE 29 ASIA PACIFIC TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 81 SIMULATION SOFTWARE MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 82 SIMULATION SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)



## 11.2 NORTH AMERICA

### 11.2.1 NORTH AMERICA: SIMULATION SOFTWARE MARKET DRIVERS

### 11.2.2 NORTH AMERICA: RECESSION IMPACT

### 11.2.3 NORTH AMERICA: REGULATORY LANDSCAPE

#### FIGURE 30 NORTH AMERICA: MARKET SNAPSHOT

TABLE 83 NORTH AMERICA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 84 NORTH AMERICA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 85 NORTH AMERICA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 86 NORTH AMERICA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 87 NORTH AMERICA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 88 NORTH AMERICA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 89 NORTH AMERICA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 90 NORTH AMERICA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 91 NORTH AMERICA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 92 NORTH AMERICA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 93 NORTH AMERICA: SIMULATION SOFTWARE MARKET, BY COUNTRY, 2017–2022 (USD MILLION)

TABLE 94 NORTH AMERICA: SIMULATION SOFTWARE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

### 11.2.4 US

#### 11.2.4.1 Simulation software to play critical role across diverse industries in US

TABLE 95 US: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 96 US: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 97 US: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 98 US: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 99 US: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 100 US: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 101 US: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 102 US: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 103 US: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 104 US: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

#### 11.2.5 CANADA

11.2.5.1 Canada's innovation drive to power simulation software market advancements

TABLE 105 CANADA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 106 CANADA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 107 CANADA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 108 CANADA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 109 CANADA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 110 CANADA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 111 CANADA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 112 CANADA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 113 CANADA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 114 CANADA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

#### 11.3 EUROPE

11.3.1 EUROPE: SIMULATION SOFTWARE MARKET DRIVERS

11.3.2 EUROPE: RECESSION IMPACT

11.3.3 EUROPE: REGULATORY LANDSCAPE

TABLE 115 EUROPE: SIMULATION SOFTWARE MARKET, BY OFFERING,  
2017–2022 (USD MILLION)

TABLE 116 EUROPE: SIMULATION SOFTWARE MARKET, BY OFFERING,  
2023–2028 (USD MILLION)

TABLE 117 EUROPE: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE,  
2017–2022 (USD MILLION)

TABLE 118 EUROPE: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE,  
2023–2028 (USD MILLION)

TABLE 119 EUROPE: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT  
MODE, 2017–2022 (USD MILLION)

TABLE 120 EUROPE: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT  
MODE, 2023–2028 (USD MILLION)

TABLE 121 EUROPE: SIMULATION SOFTWARE MARKET, BY APPLICATION,  
2017–2022 (USD MILLION)

TABLE 122 EUROPE: SIMULATION SOFTWARE MARKET, BY APPLICATION,  
2023–2028 (USD MILLION)

TABLE 123 EUROPE: SIMULATION SOFTWARE MARKET, BY VERTICAL,  
2017–2022 (USD MILLION)

TABLE 124 EUROPE: SIMULATION SOFTWARE MARKET, BY VERTICAL,  
2023–2028 (USD MILLION)

TABLE 125 EUROPE: SIMULATION SOFTWARE MARKET, BY COUNTRY,  
2017–2022 (USD MILLION)

TABLE 126 EUROPE: SIMULATION SOFTWARE MARKET, BY COUNTRY,  
2023–2028 (USD MILLION)

#### 11.3.4 UK

11.3.4.1 UK to fuel expansion of simulation software through collaborative efforts

TABLE 127 UK: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022  
(USD MILLION)

TABLE 128 UK: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028  
(USD MILLION)

TABLE 129 UK: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE,  
2017–2022 (USD MILLION)

TABLE 130 UK: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE,  
2023–2028 (USD MILLION)

TABLE 131 UK: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE,  
2017–2022 (USD MILLION)

TABLE 132 UK: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE,  
2023–2028 (USD MILLION)

TABLE 133 UK: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022

(USD MILLION)

TABLE 134 UK: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028

(USD MILLION)

TABLE 135 UK: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022

(USD MILLION)

TABLE 136 UK: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028

(USD MILLION)

#### 11.3.5 GERMANY

11.3.5.1 Advancements in simulation technology within automotive and healthcare verticals to drive market growth

TABLE 137 GERMANY: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 138 GERMANY: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 139 GERMANY: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 140 GERMANY: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 141 GERMANY: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 142 GERMANY: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 143 GERMANY: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 144 GERMANY: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 145 GERMANY: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 146 GERMANY: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

#### 11.3.6 FRANCE

11.3.6.1 Government and non-profit organizations support to drive growth of simulation software in France

TABLE 147 FRANCE: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 148 FRANCE: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 149 FRANCE: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 150 FRANCE: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 151 FRANCE: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 152 FRANCE: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 153 FRANCE: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 154 FRANCE: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 155 FRANCE: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 156 FRANCE: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

#### 11.3.7 REST OF EUROPE

TABLE 157 REST OF EUROPE: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 158 REST OF EUROPE: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 159 REST OF EUROPE: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 160 REST OF EUROPE: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 161 REST OF EUROPE: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 162 REST OF EUROPE: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 163 REST OF EUROPE: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 164 REST OF EUROPE: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 165 REST OF EUROPE: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 166 REST OF EUROPE: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

#### 11.4 ASIA PACIFIC

##### 11.4.1 ASIA PACIFIC: SIMULATION SOFTWARE MARKET DRIVERS

##### 11.4.2 ASIA PACIFIC: RECESSION IMPACT

##### 11.4.3 ASIA PACIFIC: REGULATORY LANDSCAPE

**FIGURE 31 ASIA PACIFIC: MARKET SNAPSHOT**

TABLE 167 ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 168 ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 169 ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 170 ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 171 ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 172 ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 173 ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 174 ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 175 ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 176 ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 177 ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY COUNTRY, 2017–2022 (USD MILLION)

TABLE 178 ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

**11.4.4 CHINA**

11.4.4.1 China's thriving tech landscape to fuel adoption of simulation software

TABLE 179 CHINA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 180 CHINA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 181 CHINA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 182 CHINA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 183 CHINA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 184 CHINA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)



TABLE 185 CHINA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 186 CHINA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 187 CHINA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 188 CHINA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

#### 11.4.5 JAPAN

11.4.5.1 Rising adoption of simulation technology in Japanese manufacturing and automotive verticals to fuel market growth

TABLE 189 JAPAN: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 190 JAPAN: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 191 JAPAN: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 192 JAPAN: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 193 JAPAN: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 194 JAPAN: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 195 JAPAN: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 196 JAPAN: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 197 JAPAN: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 198 JAPAN: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

#### 11.4.6 INDIA

11.4.6.1 Innovative partnerships and initiatives in India to drive simulation software landscape

TABLE 199 INDIA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 200 INDIA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 201 INDIA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE,



2017–2022 (USD MILLION)

TABLE 202 INDIA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE,  
2023–2028 (USD MILLION)

TABLE 203 INDIA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE,  
2017–2022 (USD MILLION)

TABLE 204 INDIA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE,  
2023–2028 (USD MILLION)

TABLE 205 INDIA: SIMULATION SOFTWARE MARKET, BY APPLICATION,  
2017–2022 (USD MILLION)

TABLE 206 INDIA: SIMULATION SOFTWARE MARKET, BY APPLICATION,  
2023–2028 (USD MILLION)

TABLE 207 INDIA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022  
(USD MILLION)

TABLE 208 INDIA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028  
(USD MILLION)

#### 11.4.7 SINGAPORE

11.4.7.1 Simulation software to thrive in Singapore's aviation vertical

TABLE 209 SINGAPORE: SIMULATION SOFTWARE MARKET, BY OFFERING,  
2017–2022 (USD MILLION)

TABLE 210 SINGAPORE: SIMULATION SOFTWARE MARKET, BY OFFERING,  
2023–2028 (USD MILLION)

TABLE 211 SINGAPORE: SIMULATION SOFTWARE MARKET, BY SOFTWARE  
TYPE, 2017–2022 (USD MILLION)

TABLE 212 SINGAPORE: SIMULATION SOFTWARE MARKET, BY SOFTWARE  
TYPE, 2023–2028 (USD MILLION)

TABLE 213 SINGAPORE: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT  
MODE, 2017–2022 (USD MILLION)

TABLE 214 SINGAPORE: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT  
MODE, 2023–2028 (USD MILLION)

TABLE 215 SINGAPORE: SIMULATION SOFTWARE MARKET, BY APPLICATION,  
2017–2022 (USD MILLION)

TABLE 216 SINGAPORE: SIMULATION SOFTWARE MARKET, BY APPLICATION,  
2023–2028 (USD MILLION)

TABLE 217 SINGAPORE: SIMULATION SOFTWARE MARKET, BY VERTICAL,  
2017–2022 (USD MILLION)

TABLE 218 SINGAPORE: SIMULATION SOFTWARE MARKET, BY VERTICAL,  
2023–2028 (USD MILLION)

#### 11.4.8 REST OF ASIA PACIFIC

TABLE 219 REST OF ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY

OFFERING, 2017–2022 (USD MILLION)

TABLE 220 REST OF ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 221 REST OF ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 222 REST OF ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 223 REST OF ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 224 REST OF ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 225 REST OF ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 226 REST OF ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 227 REST OF ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 228 REST OF ASIA PACIFIC: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

## 11.5 MIDDLE EAST & AFRICA

11.5.1 MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET DRIVERS

11.5.2 MIDDLE EAST & AFRICA: RECESSION IMPACT

11.5.3 MIDDLE EAST & AFRICA: REGULATORY LANDSCAPE

TABLE 229 MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 230 MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 231 MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 232 MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 233 MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 234 MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 235 MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 236 MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 237 MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 238 MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 239 MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY COUNTRY, 2017–2022 (USD MILLION)

TABLE 240 MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

#### 11.5.4 UNITED ARAB EMIRATES

11.5.4.1 Rapid digitalization to lead to adoption of simulation solutions in UAE

TABLE 241 UAE: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 242 UAE: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 243 UAE: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 244 UAE: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 245 UAE: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 246 UAE: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 247 UAE: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 248 UAE: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 249 UAE: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 250 UAE: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

#### 11.5.5 SOUTH AFRICA

11.5.5.1 Presence of vendors providing simulation software solutions in South Africa to drive market growth

TABLE 251 SOUTH AFRICA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 252 SOUTH AFRICA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 253 SOUTH AFRICA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 254 SOUTH AFRICA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 255 SOUTH AFRICA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 256 SOUTH AFRICA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 257 SOUTH AFRICA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 258 SOUTH AFRICA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 259 SOUTH AFRICA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 260 SOUTH AFRICA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

#### 11.5.6 REST OF MIDDLE EAST & AFRICA

TABLE 261 REST OF MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 262 REST OF MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 263 REST OF MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 264 REST OF MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 265 REST OF MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 266 REST OF MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 267 REST OF MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 268 REST OF MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 269 REST OF MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 270 REST OF MIDDLE EAST & AFRICA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

#### 11.6 LATIN AMERICA

##### 11.6.1 LATIN AMERICA: SIMULATION SOFTWARE MARKET DRIVERS

##### 11.6.2 LATIN AMERICA: RECESSION IMPACT

##### 11.6.3 LATIN AMERICA: REGULATORY LANDSCAPE

TABLE 271 LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 272 LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 273 LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 274 LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 275 LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 276 LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 277 LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 278 LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 279 LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 280 LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 281 LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY COUNTRY, 2017–2022 (USD MILLION)

TABLE 282 LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

#### 11.6.4 BRAZIL

11.6.4.1 Utilization of simulation software in electronics and construction to boost market in Brazil

TABLE 283 BRAZIL: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 284 BRAZIL: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 285 BRAZIL: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 286 BRAZIL: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 287 BRAZIL: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 288 BRAZIL: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 289 BRAZIL: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 290 BRAZIL: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 291 BRAZIL: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 292 BRAZIL: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

#### 11.6.5 MEXICO

11.6.5.1 Integration of simulation solutions in maritime sector to fuel growth in Mexico

TABLE 293 MEXICO: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 294 MEXICO: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 295 MEXICO: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 296 MEXICO: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 297 MEXICO: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 298 MEXICO: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 299 MEXICO: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 300 MEXICO: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 301 MEXICO: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 302 MEXICO: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

#### 11.6.6 REST OF LATIN AMERICA

TABLE 303 REST OF LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 304 REST OF LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 305 REST OF LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2017–2022 (USD MILLION)

TABLE 306 REST OF LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)



TABLE 307 REST OF LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 308 REST OF LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 309 REST OF LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 310 REST OF LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 311 REST OF LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 312 REST OF LATIN AMERICA: SIMULATION SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

## **12 COMPETITIVE LANDSCAPE**

### **12.1 OVERVIEW**

### **12.2 REVENUE ANALYSIS OF LEADING PLAYERS**

#### **FIGURE 32 SIMULATION SOFTWARE MARKET: REVENUE ANALYSIS**

### **12.3 MARKET SHARE ANALYSIS OF TOP MARKET PLAYERS**

#### **TABLE 313 SIMULATION SOFTWARE MARKET: DEGREE OF COMPETITION**

### **12.4 HISTORICAL REVENUE ANALYSIS**

#### **FIGURE 33 HISTORICAL FIVE-YEAR SEGMENTAL REVENUE ANALYSIS OF KEY SIMULATION SOFTWARE PROVIDERS**

### **12.5 RANKING OF KEY PLAYERS**

#### **FIGURE 34 SIMULATION SOFTWARE MARKET: RANKING OF KEY PLAYERS**

### **12.6 COMPANY EVALUATION MATRIX OF KEY PLAYERS**

#### **12.6.1 DEFINITIONS AND METHODOLOGY**

#### **FIGURE 35 EVALUATION MATRIX FOR KEY PLAYERS: CRITERIA WEIGHTAGE**

#### **FIGURE 36 EVALUATION MATRIX FOR KEY PLAYERS, 2023**

##### **12.6.2 STARS**

##### **12.6.3 EMERGING LEADERS**

##### **12.6.4 PERVASIVE PLAYERS**

##### **12.6.5 PARTICIPANTS**

##### **12.6.6 KEY COMPANY FOOTPRINT, BY REGION**

#### **TABLE 314 REGIONAL FOOTPRINT OF KEY COMPANIES**

### **12.7 SME EVALUATION MATRIX**

#### **12.7.1 DEFINITIONS AND METHODOLOGY**

#### **FIGURE 37 EVALUATION MATRIX FOR SMES: CRITERIA WEIGHTAGE**

#### **FIGURE 38 EVALUATION MATRIX FOR SMES, 2023**



**12.7.2 PROGRESSIVE COMPANIES****12.7.3 RESPONSIVE COMPANIES****12.7.4 DYNAMIC COMPANIES****12.7.5 STARTING BLOCKS****12.7.6 SME FOOTPRINT, BY REGION****TABLE 315 REGIONAL FOOTPRINT OF SMES****12.8 COMPETITIVE SCENARIO AND TRENDS****12.8.1 PRODUCT LAUNCHES AND ENHANCEMENTS****TABLE 316 SIMULATION SOFTWARE MARKET: PRODUCT LAUNCHES AND ENHANCEMENTS, 2021–2023****12.8.2 DEALS****TABLE 317 SIMULATION SOFTWARE MARKET: DEALS, 2021–2023****13 COMPANY PROFILES****13.1 KEY PLAYERS**

(Business Overview, Products/Solutions/Services offered, Recent Developments, MnM View)\*

**13.1.1 SIEMENS****TABLE 318 SIEMENS: BUSINESS OVERVIEW****FIGURE 39 SIEMENS: COMPANY SNAPSHOT****TABLE 319 SIEMENS: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 320 SIEMENS: PRODUCT LAUNCHES****TABLE 321 SIEMENS: DEALS****13.1.2 ANSYS****TABLE 322 ANSYS: BUSINESS OVERVIEW****FIGURE 40 ANSYS: COMPANY SNAPSHOT****TABLE 323 ANSYS: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 324 ANSYS: PRODUCT LAUNCHES****TABLE 325 ANSYS: DEALS****13.1.3 DASSAULT SYSTEMES****TABLE 326 DASSAULT SYSTEMES: BUSINESS OVERVIEW****FIGURE 41 DASSAULT SYSTEMES: COMPANY SNAPSHOT****TABLE 327 DASSAULT SYSTEMES: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 328 DASSAULT SYSTEMES: DEALS****13.1.4 MATHWORKS****TABLE 329 MATHWORKS: BUSINESS OVERVIEW****TABLE 330 MATHWORKS: PRODUCTS/SOLUTIONS/SERVICES OFFERED**

TABLE 331 MATHWORKS: PRODUCT LAUNCHES

TABLE 332 MATHWORKS: DEALS

#### 13.1.5 AUTODESK

TABLE 333 AUTODESK: BUSINESS OVERVIEW

FIGURE 42 AUTODESK: COMPANY SNAPSHOT

TABLE 334 AUTODESK: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 335 AUTODESK: PRODUCT LAUNCHES

TABLE 336 AUTODESK: DEALS

#### 13.1.6 KEYSIGHT

TABLE 337 KEYSIGHT: BUSINESS OVERVIEW

FIGURE 43 KEYSIGHT: COMPANY SNAPSHOT

TABLE 338 KEYSIGHT: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 339 KEYSIGHT: PRODUCT LAUNCHES

TABLE 340 KEYSIGHT: DEALS

#### 13.1.7 HEXAGON

TABLE 341 HEXAGON: BUSINESS OVERVIEW

TABLE 342 HEXAGON: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 343 HEXAGON: PRODUCT LAUNCHES

TABLE 344 HEXAGON: DEALS

#### 13.1.8 HONEYWELL

TABLE 345 HONEYWELL: BUSINESS OVERVIEW

FIGURE 44 HONEYWELL: COMPANY SNAPSHOT

TABLE 346 HONEYWELL: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 347 HONEYWELL: PRODUCT LAUNCHES

TABLE 348 HONEYWELL: DEALS

#### 13.1.9 ALTAIR

TABLE 349 ALTAIR: BUSINESS OVERVIEW

FIGURE 45 ALTAIR: COMPANY SNAPSHOT

TABLE 350 ALTAIR: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 351 ALTAIR: PRODUCT LAUNCHES

TABLE 352 ALTAIR: DEALS

#### 13.1.10 PTC

TABLE 353 PTC: BUSINESS OVERVIEW

FIGURE 46 PTC: COMPANY SNAPSHOT

TABLE 354 PTC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 355 PTC: PRODUCT LAUNCHES

TABLE 356 PTC: DEALS

#### 13.1.11 AVL

#### 13.1.12 AVEVA

13.1.13 SPIRENT

13.1.14 BENTLEY

13.1.15 SYNOPSYS

13.1.16 CERTARA

\*Details on Business Overview, Products/Solutions/Services offered, Recent Developments, MnM View might not be captured in case of unlisted companies.

## 13.2 OTHER PLAYERS

13.2.1 APRIORI

13.2.2 ANYLOGIC

13.2.3 SIMSCALE

13.2.4 SIMUL8

13.2.5 SIMIO

13.2.6 FLEXSIM

13.2.7 MOSIMTEC

13.2.8 PROSIM

13.2.9 CYBERNET

13.2.10 CESIM

## 14 ADJACENT MARKETS

### 14.1 INTRODUCTION

TABLE 357 ADJACENT MARKETS AND FORECASTS

### 14.2 LIMITATIONS

### 14.3 SIMULATION SOFTWARE ECOSYSTEM AND ADJACENT MARKETS

### 14.4 DIGITAL TWIN MARKET

14.4.1 DIGITAL TWIN MARKET, BY ENTERPRISE SIZE

TABLE 358 DIGITAL TWIN MARKET, BY ENTERPRISE SIZE, 2019–2022 (USD MILLION)

TABLE 359 DIGITAL TWIN MARKET, BY ENTERPRISE SIZE, 2023–2028 (USD MILLION)

14.4.2 DIGITAL TWIN MARKET, BY APPLICATION

TABLE 360 DIGITAL TWIN MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 361 DIGITAL TWIN MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

### 14.5 COMPUTER-AIDED MANUFACTURING MARKET

14.5.1 COMPUTER-AIDED MANUFACTURING MARKET, BY COMPONENT

TABLE 362 COMPUTER-AIDED MANUFACTURING MARKET, BY COMPONENT, 2016–2023 (USD MILLION)

14.5.2 COMPUTER-AIDED MANUFACTURING MARKET, BY DEPLOYMENT TYPE

TABLE 363 COMPUTER-AIDED MANUFACTURING MARKET, BY DEPLOYMENT

TYPE, 2016–2023 (USD MILLION)

## **15 APPENDIX**

15.1 DISCUSSION GUIDE

15.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

15.3 CUSTOMIZATION OPTIONS

15.4 RELATED REPORTS

15.5 AUTHOR DETAILS

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