

# **Data Center Solutions Market by Offering (Hardware, Software, Services), Data Center Type (Enterprise Data Center, Cloud Data Center, Colocation Data Center), Tier Type, Data Center Size, Vertical and Region - Global Forecast to 2028**

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## **Abstracts**

The data center solutions market is expected to grow from USD 338.8 billion in 2023 to USD 591.7 billion by 2028 at a Compound Annual Growth Rate (CAGR) of 11.8% during the forecast period. The rapid growth of AI and ML workloads and the cloud computing revolution will drive the demand for the data center solutions market. Scalability and flexibility issues are significant challenges for the growth of the data center solutions market.

'As per the hardware, the cooling modules segment is expected to grow at the highest CAGR during the forecast period. '

Cooling modules are an integral component within the hardware segment of data center solutions, focused on managing and maintaining optimal operating temperatures for IT equipment. Adequate cooling is crucial for preventing overheating, ensuring hardware reliability, and maximizing the overall efficiency of data center operations. These modules encompass a range of technologies and systems designed to dissipate heat generated by IT infrastructure and maintain a conducive environment for electronic components. One key element of cooling modules is precision air conditioning systems. These systems provide targeted cooling to specific areas within the data center, delivering conditioned air to equipment racks and server aisles. Precision air conditioning allows for precise temperature control, ensuring IT equipment operates within optimal temperature ranges.

'As per data center type, the enterprise data center will hold the largest market share in 2023. '

Enterprise data centers provide complete control over data privacy and security. However, this also means that organizations must implement and maintain all security measures. Building and maintaining an enterprise data center involves significant capital expenditures for land, building construction, equipment, and ongoing operational costs. An onsite data center needs a reliable power supply and cooling system, an extensive network, a security system, and others, which can be tedious to support in-house, especially for SMEs.

As per region, Europe is anticipated to witness the second-largest market share during the forecast period.

Europe's data center solutions market is marked by a dynamic landscape with increasing demand for advanced, scalable, and energy-efficient infrastructure. As a hub for technological innovation, Europe experiences substantial growth in data center investments to meet the evolving requirements of businesses and consumers. Key countries such as the United Kingdom, Germany, France, and the Netherlands significantly contribute to the region's data center market. Europe is witnessing a shift towards sustainable, green data center practices driven by environmental concerns and regulatory initiatives. There is a growing emphasis on utilizing renewable energy sources and implementing energy-efficient technologies to reduce the environmental impact of data center operations.

The breakup of the profiles of the primary participants is as follows:

By Company: Tier I: 30%, Tier II: 45%, and Tier III: 25%

By Designation: C-Level Executives: 50%, Director Level: 35%, and Others: 15%

By Region: North America: 50%, Europe: 30%, Asia Pacific: 15%, Rest of World: 5%

Note: Others include sales managers, marketing managers, and product managers

Note: The rest of the World consists of the Middle East & Africa, and Latin America

Note: Tier 1 companies have revenues of more than USD 100 million; tier 2 companies' revenue ranges from USD 10 million to USD 100 million; and tier 3 companies' revenue is less than 10 million

Source: Secondary Literature, Expert Interviews, and MarketsandMarkets Analysis

Some of the significant vendors offering data center solutions across the globe include AWS (US), Microsoft (US), Google (US), Equinix (US), Dell (US), Huawei (China), Digital Realty (US), NTT (Japan), KDDI (Japan), and HPE (US), CyrusOne (US), China Telecom (China), Cyxtera Technologies (US), GDS Holdings (China), CoreSite (US), QTS Data Centers (US), 365 Data Centers (US), Alibaba Cloud (China), Oracle (US), Iron Mountain (US), IBM (US), Schneider Electric (France), RackBank Datacenters (India), Liquidstack (US), DartPoints (US), and Hyperview (US).

Research coverage:

The market study covers the data center solutions market across segments. It aims to estimate the market size and the growth potential of this market across different market segments, such as offering, data center type, data center size, tier type, vertical, and region. It includes an in-depth competitive analysis of the key players in the market, their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

Reasons to buy this report:

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall data center solutions 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 critical Drivers (Cloud computing revolution, Increasing edge computing trends, Data explosion and analytics, Rapid growth of AI and ML workloads, Expansion of data center capacity, Increasing sustainability and

green initiatives); Restraints (High initial investments, Complexity of implementation); Opportunities (Emergence of Generative AI, Growing demand for Edge Data Center-as-a-Service, Increasing demand for hybrid and multi-cloud deployments); and Challenges (Rapid technological advancements, Scalability and flexibility complexities, Security concerns) influencing the growth of the data center solutions market.

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the data center solutions market.

**Market Development:** Comprehensive information about lucrative markets – the report analyses the data center solutions market across varied regions.

**Market Diversification:** Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the data center solutions market.

**Competitive Assessment:** In-depth assessment of market shares, growth strategies, and service offerings of leading players like AWS (US), Microsoft (US), Google (US), Equinix (US), and Dell (US), among others, in the data center solutions market.

## Contents

### 1 INTRODUCTION

#### 1.1 STUDY OBJECTIVES

#### 1.2 MARKET DEFINITION

##### 1.2.1 INCLUSIONS AND 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

##### 1.6.1 RECESSION IMPACT

### 2 RESEARCH METHODOLOGY

#### 2.1 RESEARCH APPROACH

#### FIGURE 1 DATA CENTER SOLUTIONS MARKET: RESEARCH DESIGN

##### 2.1.1 SECONDARY DATA

##### 2.1.2 PRIMARY DATA

###### 2.1.2.1 Breakup of primary interviews

###### 2.1.2.2 Key industry insights

#### 2.2 MARKET BREAKUP AND DATA TRIANGULATION

#### FIGURE 2 DATA CENTER SOLUTIONS MARKET: MARKET BREAKUP AND DATA TRIANGULATION

#### 2.3 MARKET SIZE ESTIMATION

#### FIGURE 3 DATA CENTER SOLUTIONS MARKET: TOP-DOWN AND BOTTOM-UP APPROACHES

##### 2.3.1 TOP-DOWN APPROACH

#### FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

##### 2.3.2 BOTTOM-UP APPROACH

#### FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

#### FIGURE 6 DATA CENTER SOLUTIONS MARKET: RESEARCH FLOW

##### 2.3.3 MARKET ESTIMATION APPROACHES

#### FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY: SUPPLY-SIDE ANALYSIS

#### FIGURE 8 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

FROM SUPPLY SIDE - COLLECTIVE REVENUE OF VENDORS

FIGURE 9 BOTTOM-UP APPROACH FROM SUPPLY SIDE: COLLECTIVE REVENUE OF VENDORS

FIGURE 10 DEMAND-SIDE APPROACH: DATA CENTER SOLUTIONS MARKET

2.4 MARKET FORECAST

TABLE 2 FACTOR ANALYSIS

2.5 RECESSION IMPACT ON DATA CENTER SOLUTIONS MARKET

2.6 RESEARCH ASSUMPTIONS

2.7 RESEARCH LIMITATIONS

### **3 EXECUTIVE SUMMARY**

TABLE 3 DATA CENTER SOLUTIONS MARKET SIZE AND GROWTH, 2018–2022  
(USD MILLION, Y-O-Y %)

TABLE 4 DATA CENTER SOLUTIONS MARKET SIZE AND GROWTH, 2023–2028  
(USD MILLION, Y-O-Y %)

FIGURE 11 GLOBAL DATA CENTER SOLUTIONS MARKET TO WITNESS  
SIGNIFICANT GROWTH

3.1 OVERVIEW OF RECESSION IMPACT

FIGURE 12 NORTH AMERICA ACCOUNTED FOR LARGEST MARKET SHARE IN  
2023

FIGURE 13 FASTEST-GROWING SEGMENTS OF DATA CENTER SOLUTIONS  
MARKET

### **4 PREMIUM INSIGHTS**

4.1 ATTRACTIVE GROWTH OPPORTUNITIES FOR PLAYERS IN DATA CENTER  
SOLUTIONS MARKET

FIGURE 14 ACCELERATING DEMAND FOR DIGITAL TRANSFORMATION AND  
CLOUD SERVICES TO DRIVE MARKET

4.2 DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023 VS. 2028

FIGURE 15 HARDWARE SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE  
DURING FORECAST PERIOD

4.3 DATA CENTER SOLUTIONS MARKET, BY DATA CENTER TYPE, 2023 VS. 2028

FIGURE 16 ENTERPRISE DATA CENTERS SEGMENT ACCOUNTED FOR  
LARGEST MARKET SHARE IN 2023

4.4 DATA CENTER SOLUTIONS MARKET, BY TIER TYPE, 2023 VS. 2028

FIGURE 17 TIER 4 SEGMENT ACCOUNTED FOR LARGEST MARKET SHARE IN  
2023

4.5 DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023 VS. 2028  
FIGURE 18 LARGE DATA CENTERS SEGMENT ACCOUNTED FOR LARGEST MARKET SHARE IN 2023

4.6 DATA CENTER SOLUTIONS MARKET, BY VERTICAL, 2023 VS. 2028  
FIGURE 19 BFSI SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE DURING FORECAST PERIOD

4.7 DATA CENTER SOLUTIONS MARKET: REGIONAL SCENARIO, 2023–2028  
FIGURE 20 ASIA PACIFIC TO EMERGE AS KEY MARKET FOR INVESTMENT IN NEXT 5 YEARS

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

### **5.1 INTRODUCTION**

### **5.2 MARKET DYNAMICS**

FIGURE 21 DATA CENTER SOLUTIONS MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

#### **5.2.1 DRIVERS**

5.2.1.1 Cloud computing revolution

FIGURE 22 DATA CENTER ESTABLISHMENTS FACILITATING CLOUD GROWTH

5.2.1.2 Increasing edge computing trends

5.2.1.3 Data explosion and analytics

5.2.1.4 Rapid growth of AI and ML workloads

FIGURE 23 AI AND ML ADOPTION DRIVERS

5.2.1.5 Expansion of data center capacity

5.2.1.6 Increasing sustainability and green initiatives

FIGURE 24 RENEWABLES AND IMPROVED DATA CENTER COOLING AMONG TOP DRIVERS FOR SUSTAINABILITY GAINS

#### **5.2.2 RESTRAINTS**

5.2.2.1 High initial investments

5.2.2.2 Complexity of implementation

#### **5.2.3 OPPORTUNITIES**

5.2.3.1 Emergence of generative AI

5.2.3.2 Data center expansion in developing regions

5.2.3.3 Growing demand for edge data center-as-a-service

5.2.3.4 Increasing demand for hybrid and multi-cloud deployments

#### **5.2.4 CHALLENGES**

5.2.4.1 Rapid technological advancements

5.2.4.2 Scalability and flexibility complexities

5.2.4.3 Security concerns



### 5.3 CASE STUDY ANALYSIS

5.3.1 CASE STUDY 1: MICROSOFT CHOSE IMMERSION COOLING TECH BY LIQUIDSTACK FOR ITS CLOUD SERVERS

5.3.2 CASE STUDY 2: CHINA MOBILE INTERNATIONAL DEPLOYED LOCAL DATA CENTER TO SCALE JAPANESE MARKET

5.3.3 CASE STUDY 3: STEWART ENGINEERED CONTINUOUS UPTIME BY DEPLOYING EATON'S PRODUCTS

5.3.4 CASE STUDY 4: THYSSENKRUPP STEEL EXPANDED IT INFRASTRUCTURE WITH RITTAL'S EDGE DATA CENTERS

5.3.5 CASE STUDY 5: CAREERBRAIN FULFILLED REQUISITE COMPETITIVE CUSTOMER SERVICE DEMANDS WITH FUJITSU PRODUCTS

5.3.6 CASE STUDY 6: VOLKSWAGEN VIRTUALIZED SERVER FOR LOWER COST AND IMPROVED PERFORMANCE THROUGH FUJITSU

### 5.4 SUPPLY CHAIN ANALYSIS

FIGURE 25 DATA CENTER SOLUTIONS MARKET: SUPPLY CHAIN ANALYSIS

### 5.5 ECOSYSTEM ANALYSIS

FIGURE 26 DATA CENTER SOLUTIONS MARKET ECOSYSTEM ANALYSIS

### 5.6 TECHNOLOGICAL ANALYSIS

#### 5.6.1 KEY TECHNOLOGIES

5.6.1.1 Cloud

5.6.1.2 Virtualization

#### 5.6.2 COMPLEMENTARY TECHNOLOGIES

5.6.2.1 IoT

5.6.2.2 Cybersecurity

5.6.2.3 Containerization

#### 5.6.3 ADJACENT TECHNOLOGIES

5.6.3.1 AI/ML

5.6.3.2 Edge computing

5.6.3.3 5G

### 5.7 PRICING ANALYSIS

5.7.1 AVERAGE SELLING PRICE (ASP) TREND OF KEY PLAYERS, BY SOLUTION  
FIGURE 27 AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY SOLUTION (USD MILLION/MONTH)

5.7.2 INDICATIVE PRICING ANALYSIS OF DATA CENTER SOLUTIONS  
TABLE 5 INDICATIVE PRICING ANALYSIS OF DATA CENTER SOLUTION VENDORS

TABLE 6 INDICATIVE PRICING ANALYSIS OF DATA CENTER RACK VENDORS

### 5.8 PATENT ANALYSIS

FIGURE 28 NUMBER OF PATENTS PUBLISHED, 2012–2022



FIGURE 29 TOP 5 PATENT OWNERS (GLOBAL)

TABLE 7 TOP 10 PATENT APPLICANTS (US)

5.9 PORTER'S FIVE FORCES ANALYSIS

FIGURE 30 DATA CENTER SOLUTIONS MARKET: PORTER'S FIVE FORCES ANALYSIS

TABLE 8 DATA CENTER SOLUTIONS MARKET: PORTER'S FIVE FORCES ANALYSIS

5.9.1 THREAT OF NEW ENTRANTS

5.9.2 THREAT OF SUBSTITUTES

5.9.3 BARGAINING POWER OF BUYERS

5.9.4 BARGAINING POWER OF SUPPLIERS

5.9.5 INTENSITY OF COMPETITIVE RIVALRY

5.10 REGULATORY LANDSCAPE

5.10.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 9 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 10 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 11 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 12 REST OF THE WORLD: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.10.2 REGULATIONS, BY REGION

5.10.2.1 North America

5.10.2.2 Europe

5.10.2.3 Asia Pacific

5.10.2.4 Middle East & Africa

5.10.2.5 Latin America

5.11 TRENDS AND DISRUPTIONS IMPACTING CUSTOMER BUSINESS

FIGURE 31 DATA CENTER SOLUTIONS MARKET: TRENDS AND DISRUPTIONS IMPACTING CUSTOMER BUSINESS

5.12 KEY STAKEHOLDERS AND BUYING CRITERIA

5.12.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 32 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR VERTICALS

TABLE 13 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR VERTICALS (%)

5.12.2 BUYING CRITERIA

FIGURE 33 KEY BUYING CRITERIA FOR VERTICALS

TABLE 14 KEY BUYING CRITERIA FOR VERTICALS

5.13 BUSINESS MODEL ANALYSIS

FIGURE 34 DATA CENTER SOLUTIONS MARKET: BUSINESS MODELS

5.14 KEY CONFERENCES AND EVENTS IN 2024

TABLE 15 DATA CENTER SOLUTIONS MARKET: LIST OF KEY CONFERENCES  
AND EVENTS, 2024

5.15 TRADE ANALYSIS

TABLE 16 IMPORT DATA, BY COUNTRY, 2018–2022 (USD MILLION)

FIGURE 35 IMPORT DATA, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 17 EXPORT DATA, BY COUNTRY, 2018–2022 (USD MILLION)

FIGURE 36 EXPORT DATA, BY COUNTRY, 2018–2022 (USD MILLION)

5.16 TARIFF ANALYSIS

TABLE 18 MFN TARIFFS FOR HS CODE: 8471 EXPORTED BY US

TABLE 19 MFN TARIFFS FOR HS CODE: 8471 EXPORTED BY AUSTRALIA

TABLE 20 MFN TARIFF FOR HS CODE: 8471 EXPORTED BY HONG KONG, CHINA

5.17 INVESTMENT AND FUNDING SCENARIO

FIGURE 37 INVESTMENT AND FUNDING SCENARIO, 2017–2022

## **6 DATA CENTER SOLUTIONS MARKET, BY OFFERING**

### **6.1 INTRODUCTION**

#### **6.1.1 OFFERING: DATA CENTER SOLUTIONS MARKET DRIVERS**

FIGURE 38 SOFTWARE SEGMENT TO REGISTER HIGHEST CAGR DURING  
FORECAST PERIOD

TABLE 21 DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD  
MILLION)

TABLE 22 DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD  
MILLION)

### **6.2 HARDWARE**

FIGURE 39 COOLING MODULES SEGMENT TO WITNESS HIGHEST GROWTH  
RATE DURING FORECAST PERIOD

TABLE 23 DATA CENTER SOLUTIONS MARKET, BY HARDWARE, 2018–2022 (USD  
MILLION)

TABLE 24 DATA CENTER SOLUTIONS MARKET, BY HARDWARE, 2023–2028 (USD  
MILLION)

TABLE 25 HARDWARE: DATA CENTER SOLUTIONS MARKET, BY REGION,  
2018–2022 (USD MILLION)

TABLE 26 HARDWARE: DATA CENTER SOLUTIONS MARKET, BY REGION,

2023–2028 (USD MILLION)

#### 6.2.1 IT MODULES

6.2.1.1 Surging demand for digital services and widespread adoption of cloud technologies to drive market

6.2.1.2 Servers

6.2.1.3 Storage

6.2.1.4 Network infrastructure

TABLE 27 IT MODULES: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 28 IT MODULES: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 6.2.2 POWER MODULES

6.2.2.1 Need for energy-efficient solutions and sustainability initiatives to drive market

TABLE 29 POWER MODULES: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 30 POWER MODULES: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 6.2.3 COOLING MODULES

6.2.3.1 Rising data center heat loads and increased focus on energy efficiency to drive market

TABLE 31 COOLING MODULES: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 32 COOLING MODULES: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

### 6.3 SOFTWARE

FIGURE 40 MONITORING & MANAGEMENT TOOLS SEGMENT TO LEAD MARKET DURING FORECAST PERIOD

TABLE 33 DATA CENTER SOLUTIONS MARKET, BY SOFTWARE, 2018–2022 (USD MILLION)

TABLE 34 DATA CENTER SOLUTIONS MARKET, BY SOFTWARE, 2023–2028 (USD MILLION)

TABLE 35 SOFTWARE: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 36 SOFTWARE: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 6.3.1 MONITORING & MANAGEMENT TOOLS

6.3.1.1 Increasing complexity of data center operations and need for real-time monitoring to drive market

6.3.1.2 DCIM software

### 6.3.1.3 Performance monitoring tools

#### 6.3.1.4 Configuration management

TABLE 37 MONITORING & MANAGEMENT TOOLS: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 38 MONITORING & MANAGEMENT TOOLS: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

### 6.3.2 AUTOMATION & ORCHESTRATION SOFTWARE

6.3.2.1 Growing demand for streamlined operations and reduced manual intervention to drive market

TABLE 39 AUTOMATION & ORCHESTRATION SOFTWARE: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 40 AUTOMATION & ORCHESTRATION SOFTWARE: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

### 6.3.3 BACKUP & DISASTER RECOVERY SOFTWARE

6.3.3.1 Rising awareness about data security and need for resilient business continuity to drive market

TABLE 41 BACKUP & DISASTER RECOVERY SOFTWARE: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 42 BACKUP & DISASTER RECOVERY SOFTWARE: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

### 6.3.4 SECURITY SOFTWARE

6.3.4.1 Growing cybersecurity threats and need for robust data protection to drive market

TABLE 43 SECURITY SOFTWARE: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 44 SECURITY SOFTWARE: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

### 6.3.5 VIRTUALIZATION SOFTWARE

6.3.5.1 Rising demand for resource optimization, cost efficiency, and flexible infrastructure to drive market

TABLE 45 VIRTUALIZATION SOFTWARE: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 46 VIRTUALIZATION SOFTWARE: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

### 6.3.6 ANALYTICS SOFTWARE

6.3.6.1 Increasing importance of data-driven decision-making and insights to drive demand for analytics software

#### 6.3.6.1.1 Predictive analytics

#### 6.3.6.1.2 Real-time monitoring & reporting

TABLE 47 ANALYTICS SOFTWARE: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 48 ANALYTICS SOFTWARE: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

#### 6.4 SERVICES

FIGURE 41 SUPPORT & MAINTENANCE SEGMENT TO COMMAND LARGEST MARKET SHARE DURING FORECAST PERIOD

TABLE 49 DATA CENTER SOLUTIONS MARKET, BY SERVICES, 2018–2022 (USD MILLION)

TABLE 50 DATA CENTER SOLUTIONS MARKET, BY SERVICES, 2023–2028 (USD MILLION)

TABLE 51 SERVICES: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 52 SERVICES: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

##### 6.4.1 DESIGN & CONSULTING

6.4.1.1 Complexity of data center architecture and need for optimized, tailored solutions to drive demand for design & consulting services

TABLE 53 DESIGN & CONSULTING: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 54 DESIGN & CONSULTING: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

##### 6.4.2 INTEGRATION & DEPLOYMENT

6.4.2.1 Growing demand for seamless integration of diverse technologies and efficient deployment solutions to drive market

TABLE 55 INTEGRATION & DEPLOYMENT: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 56 INTEGRATION & DEPLOYMENT: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

##### 6.4.3 SUPPORT & MAINTENANCE

6.4.3.1 Need for reliable, continuous operation and growing complexity of data center infrastructure to drive demand for support & maintenance services

TABLE 57 SUPPORT & MAINTENANCE: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 58 SUPPORT & MAINTENANCE: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 7 DATA CENTER SOLUTIONS MARKET, BY DATA CENTER TYPE

## 7.1 INTRODUCTION

### 7.1.1 DATA CENTER TYPE: DATA CENTER SOLUTIONS MARKET DRIVERS

FIGURE 42 CLOUD DATA CENTERS SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 59 DATA CENTER SOLUTIONS MARKET, BY DATA CENTER TYPE, 2018–2022 (USD MILLION)

TABLE 60 DATA CENTER SOLUTIONS MARKET, BY DATA CENTER TYPE, 2023–2028 (USD MILLION)

## 7.2 CLOUD DATA CENTERS

### 7.2.1 CLOUD SERVICE PROVIDERS TO HOST DATA AND APPLICATIONS

TABLE 61 CLOUD DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 62 CLOUD DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 7.3 COLOCATION DATA CENTERS

7.3.1 COLOCATION FACILITIES TO RENT SPACE TO MULTIPLE ORGANIZATIONS TO HOST DATA CENTERS

TABLE 63 COLOCATION DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 64 COLOCATION DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 7.4 ENTERPRISE DATA CENTERS

7.4.1 BUILDING AND MAINTAINING ENTERPRISE DATA CENTERS TO INVOLVE SIGNIFICANT CAPITAL EXPENDITURE

TABLE 65 ENTERPRISE DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 66 ENTERPRISE DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 7.5 MODULAR DATA CENTERS

7.5.1 INCREASING DEMAND FOR BETTER SPACE UTILIZATION TO DRIVE MARKET

TABLE 67 MODULAR DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 68 MODULAR DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 7.6 EDGE DATA CENTERS

7.6.1 RISING INTERNET-CONNECTED DEVICES AND INCREASING ADOPTION OF 5G TO DRIVE MARKET

### 7.6.2 REGIONAL EDGE DATA CENTERS



### 7.6.3 MOBILE EDGE COMPUTING (MEC) CENTERS

TABLE 69 EDGE DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 70 EDGE DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 8 DATA CENTER SOLUTIONS MARKET, BY TIER TYPE

### 8.1 INTRODUCTION

TABLE 71 DATA CENTER SOLUTIONS MARKET: TYPES OF DATA CENTER TIERS

#### 8.1.1 TIER TYPE: DATA CENTER SOLUTIONS MARKET DRIVERS

FIGURE 43 TIER 3 SEGMENT TO HAVE HIGHEST GROWTH DURING FORECAST PERIOD

TABLE 72 DATA CENTER SOLUTIONS MARKET, BY TIER TYPE, 2018–2022 (USD MILLION)

TABLE 73 DATA CENTER SOLUTIONS MARKET, BY TIER TYPE, 2023–2028 (USD MILLION)

### 8.2 TIER 1

8.2.1 AFFORDABILITY AND LOW AVAILABILITY REQUIREMENTS TO DRIVE MARKET

TABLE 74 TIER 1: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 75 TIER 1: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

### 8.3 TIER 2

8.3.1 SUITABILITY AND DEMAND FROM MID-SIZED ORGANIZATIONS TO DRIVE MARKET

TABLE 76 TIER 2: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 77 TIER 2: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

### 8.4 TIER 3

8.4.1 DEMAND FOR HIGHER LEVEL OF RELIABILITY AND CONTINUOUS OPERATION FROM LARGE BUSINESSES TO DRIVE MARKET

TABLE 78 TIER 3: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 79 TIER 3: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

### 8.5 TIER 4



### 8.5.1 FAULT-TOLERANCE AND CAPABILITY TO WITHSTAND VARIOUS POTENTIAL DISRUPTIONS TO DRIVE DEMAND

TABLE 80 TIER 4: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022  
(USD MILLION)

TABLE 81 TIER 4: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028  
(USD MILLION)

## 9 DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE

### 9.1 INTRODUCTION

9.1.1 DATA CENTER SIZE: DATA CENTER SOLUTIONS MARKET DRIVERS  
FIGURE 44 SMALL DATA CENTERS SEGMENT TO REGISTER HIGHEST CAGR  
DURING FORECAST PERIOD

TABLE 82 DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE,  
2018–2022 (USD MILLION)

TABLE 83 DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE,  
2023–2028 (USD MILLION)

### 9.2 SMALL DATA CENTERS

9.2.1 NEED FOR EDGE COMPUTING, COST-EFFICIENCY, SCALABILITY, RAPID  
DEPLOYMENT, AND COMPLIANCE CONSIDERATIONS TO DRIVE MARKET

TABLE 84 SMALL DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY  
REGION, 2018–2022 (USD MILLION)

TABLE 85 SMALL DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY  
REGION, 2023–2028 (USD MILLION)

### 9.3 MID-SIZED DATA CENTERS

9.3.1 REDUNDANCY AND HIGH AVAILABILITY FEATURES TO DRIVE DEMAND

TABLE 86 MID-SIZED DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY  
REGION, 2018–2022 (USD MILLION)

TABLE 87 MID-SIZED DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY  
REGION, 2023–2028 (USD MILLION)

### 9.4 LARGE DATA CENTERS

9.4.1 NEED FOR MASSIVE DATA PROCESSING, CLOUD COMPUTING,  
SCALABILITY, HIGH AVAILABILITY, AND COST EFFICIENCY TO DRIVE MARKET

TABLE 88 LARGE DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY  
REGION, 2018–2022 (USD MILLION)

TABLE 89 LARGE DATA CENTERS: DATA CENTER SOLUTIONS MARKET, BY  
REGION, 2023–2028 (USD MILLION)

## 10 DATA CENTER SOLUTIONS MARKET, BY VERTICAL

## 10.1 INTRODUCTION

FIGURE 45 BFSI SEGMENT TO ACCOUNT FOR LARGEST MARKET SIZE DURING FORECAST PERIOD

### 10.1.1 VERTICAL: DATA CENTER SOLUTIONS MARKET DRIVERS

TABLE 90 DATA CENTER SOLUTIONS MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 91 DATA CENTER SOLUTIONS MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

## 10.2 BANKING, FINANCIAL SERVICES, & INSURANCE (BFSI)

10.2.1 NEED FOR SECURE, SCALABLE, AND COMPLIANT INFRASTRUCTURE TO SUPPORT DIGITAL TRANSFORMATION TO DRIVE MARKET

### 10.2.2 BFSI: TYPES

#### 10.2.2.1 Banks

#### 10.2.2.2 Insurance companies

#### 10.2.2.3 Financial service firms

TABLE 92 BFSI: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 93 BFSI: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 10.3 IT & TELECOM

10.3.1 INCREASING DEMAND FOR DATA PROCESSING, STORAGE, AND CONNECTIVITY, ALONG WITH 5G TECHNOLOGY EVOLUTION, TO DRIVE MARKET

### 10.3.2 IT & TELECOM: TYPES

#### 10.3.2.1 IT

#### 10.3.2.2 telecom

TABLE 94 IT & TELECOM: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 95 IT & TELECOM: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 10.4 GOVERNMENT & PUBLIC SECTOR

10.4.1 INCREASING AWARENESS OF INFORMATION DIGITALIZATION TO DRIVE MARKET

### 10.4.2 GOVERNMENT & PUBLIC SECTOR: TYPES

#### 10.4.2.1 Central & local government agencies

#### 10.4.2.2 Defense & military sectors

#### 10.4.2.3 Law enforcement & public safety agencies

#### 10.4.2.4 National security & intelligence agencies

TABLE 96 GOVERNMENT & PUBLIC SECTOR: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 97 GOVERNMENT & PUBLIC SECTOR: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 10.5 HEALTHCARE & LIFE SCIENCES

10.5.1 GROWING DEMAND TO SHIFT MANUAL PATIENT RECORDS TO ELECTRONIC STORAGE TO DRIVE MARKET

### 10.5.2 HEALTHCARE & LIFE SCIENCES: TYPES

10.5.2.1 Hospitals & healthcare systems

10.5.2.2 Clinical research organizations (CROs)

10.5.2.3 Pharmaceutical companies

TABLE 98 HEALTHCARE & LIFE SCIENCES: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 99 HEALTHCARE & LIFE SCIENCES: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 10.6 TRANSPORTATION

10.6.1 NEED TO ADOPT SMART TRANSPORTATION SYSTEMS, INTEGRATE IOT DEVICES, ENHANCE PASSENGER EXPERIENCE, AND SUPPORT GROWTH OF ELECTRIC VEHICLES TO DRIVE MARKET

### 10.6.2 TRANSPORTATION: TYPES

10.6.2.1 Airports & aviation

10.6.2.2 Rail transportation

10.6.2.3 Maritime & ports

10.6.2.4 Freight & logistics

10.6.2.5 Mobility services

TABLE 100 TRANSPORTATION: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 101 TRANSPORTATION: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 10.7 RETAIL

10.7.1 NEED TO MAINTAIN PERSONAL, FINANCIAL, AND STOCK DATA OF CUSTOMERS TO DRIVE MARKET

### 10.7.2 RETAIL: TYPES

10.7.2.1 E-commerce retailers

10.7.2.2 Brick & mortar chains

TABLE 102 RETAIL: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 103 RETAIL: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 10.8 MANUFACTURING

### 10.8.1 NEED FOR IT SYSTEMS TO STREAMLINE LOGISTICS AND PRODUCTION PROCESSES TO DRIVE MARKET

TABLE 104 MANUFACTURING: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 105 MANUFACTURING: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 10.9 ENERGY & UTILITIES

### 10.9.1 INCREASING DEMAND FOR EFFICIENT DATA STORAGE, PROCESSING, AND ANALYTICS TO DRIVE MARKET

TABLE 106 ENERGY & UTILITIES: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 107 ENERGY & UTILITIES: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 10.10 OTHERS

TABLE 108 OTHERS: DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 109 OTHERS: DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

# 11 DATA CENTER SOLUTIONS MARKET, BY REGION

## 11.1 INTRODUCTION

FIGURE 46 NORTH AMERICA TO BE LARGEST MARKET FROM 2023 TO 2028

TABLE 110 DATA CENTER SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 111 DATA CENTER SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

## 11.2 NORTH AMERICA

11.2.1 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET DRIVERS

11.2.2 NORTH AMERICA: RECESSION IMPACT

FIGURE 47 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET SNAPSHOT

TABLE 112 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 113 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 114 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY HARDWARE, 2018–2022 (USD MILLION)

TABLE 115 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY

HARDWARE, 2023–2028 (USD MILLION)

TABLE 116 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY SOFTWARE, 2018–2022 (USD MILLION)

TABLE 117 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY SOFTWARE, 2023–2028 (USD MILLION)

TABLE 118 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY SERVICES, 2018–2022 (USD MILLION)

TABLE 119 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY SERVICES, 2023–2028 (USD MILLION)

TABLE 120 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER TYPE, 2018–2022 (USD MILLION)

TABLE 121 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER TYPE, 2023–2028 (USD MILLION)

TABLE 122 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY TIER TYPE, 2018–2022 (USD MILLION)

TABLE 123 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY TIER TYPE, 2023–2028 (USD MILLION)

TABLE 124 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 125 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

TABLE 126 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 127 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 128 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 129 NORTH AMERICA: DATA CENTER SOLUTIONS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

### 11.2.3 US

11.2.3.1 Increasing demand for cloud computing and digital services to drive market

TABLE 130 US: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 131 US: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 132 US: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 133 US: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

#### 11.2.4 CANADA

11.2.4.1 Growing reliance on digital transformation and 5G network expansion to drive market

TABLE 134 CANADA: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 135 CANADA: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 136 CANADA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 137 CANADA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

#### 11.3 EUROPE

##### 11.3.1 EUROPE: DATA CENTER SOLUTIONS MARKET DRIVERS

##### 11.3.2 EUROPE: RECESSION IMPACT

TABLE 138 EUROPE: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 139 EUROPE: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 140 EUROPE: DATA CENTER SOLUTIONS MARKET, BY HARDWARE, 2018–2022 (USD MILLION)

TABLE 141 EUROPE: DATA CENTER SOLUTIONS MARKET, BY HARDWARE, 2023–2028 (USD MILLION)

TABLE 142 EUROPE: DATA CENTER SOLUTIONS MARKET, BY SOFTWARE, 2018–2022 (USD MILLION)

TABLE 143 EUROPE: DATA CENTER SOLUTIONS MARKET, BY SOFTWARE, 2023–2028 (USD MILLION)

TABLE 144 EUROPE: DATA CENTER SOLUTIONS MARKET, BY SERVICES, 2018–2022 (USD MILLION)

TABLE 145 EUROPE: DATA CENTER SOLUTIONS MARKET, BY SERVICES, 2023–2028 (USD MILLION)

TABLE 146 EUROPE: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER TYPE, 2018–2022 (USD MILLION)

TABLE 147 EUROPE: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER TYPE, 2023–2028 (USD MILLION)

TABLE 148 EUROPE: DATA CENTER SOLUTIONS MARKET, BY TIER TYPE, 2018–2022 (USD MILLION)

TABLE 149 EUROPE: DATA CENTER SOLUTIONS MARKET, BY TIER TYPE, 2023–2028 (USD MILLION)

TABLE 150 EUROPE: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER



SIZE, 2018–2022 (USD MILLION)

TABLE 151 EUROPE: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

TABLE 152 EUROPE: DATA CENTER SOLUTIONS MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 153 EUROPE: DATA CENTER SOLUTIONS MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 154 EUROPE: DATA CENTER SOLUTIONS MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 155 EUROPE: DATA CENTER SOLUTIONS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

### 11.3.3 UK

11.3.3.1 Rising demand for data storage and processing capabilities to support digital innovation to drive market

TABLE 156 UK: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 157 UK: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 158 UK: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 159 UK: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

### 11.3.4 GERMANY

11.3.4.1 Increasing adoption of Industry 4.0 and advancements in technology infrastructure to drive market

TABLE 160 GERMANY: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 161 GERMANY: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 162 GERMANY: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 163 GERMANY: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

### 11.3.5 FRANCE

11.3.5.1 Growing demand for cloud services and digital transformation initiatives to drive market

TABLE 164 FRANCE: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 165 FRANCE: DATA CENTER SOLUTIONS MARKET, BY OFFERING,



2023–2028 (USD MILLION)

TABLE 166 FRANCE: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 167 FRANCE: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

#### 11.3.6 ITALY

11.3.6.1 Rising demand for edge computing and enhanced connectivity to support IoT applications to drive market

TABLE 168 ITALY: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 169 ITALY: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 170 ITALY: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 171 ITALY: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

#### 11.3.7 REST OF EUROPE

TABLE 172 REST OF EUROPE: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 173 REST OF EUROPE: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 174 REST OF EUROPE: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 175 REST OF EUROPE: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

#### 11.4 ASIA PACIFIC

##### 11.4.1 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET DRIVERS

##### 11.4.2 ASIA PACIFIC: RECESSION IMPACT

FIGURE 48 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET SNAPSHOT

TABLE 176 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 177 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 178 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY HARDWARE, 2018–2022 (USD MILLION)

TABLE 179 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY HARDWARE, 2023–2028 (USD MILLION)

TABLE 180 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY SOFTWARE, 2018–2022 (USD MILLION)

TABLE 181 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY SOFTWARE, 2023–2028 (USD MILLION)

TABLE 182 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY SERVICES, 2018–2022 (USD MILLION)

TABLE 183 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY SERVICES, 2023–2028 (USD MILLION)

TABLE 184 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER TYPE, 2018–2022 (USD MILLION)

TABLE 185 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER TYPE, 2023–2028 (USD MILLION)

TABLE 186 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY TIER TYPE, 2018–2022 (USD MILLION)

TABLE 187 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY TIER TYPE, 2023–2028 (USD MILLION)

TABLE 188 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 189 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

TABLE 190 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 191 ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 192 ASIA PACIFIC: VIDEO ANALYTICS MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 193 ASIA PACIFIC: VIDEO ANALYTICS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

#### 11.4.3 CHINA

11.4.3.1 Rapid expansion of digital infrastructure, 5G deployment, and cloud services to drive market

TABLE 194 CHINA: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 195 CHINA: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 196 CHINA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 197 CHINA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

#### 11.4.4 JAPAN

11.4.4.1 Surge in data-intensive technologies like AI and IoT to drive market

TABLE 198 JAPAN: DATA CENTER SOLUTIONS MARKET, BY OFFERING,  
2018–2022 (USD MILLION)

TABLE 199 JAPAN: DATA CENTER SOLUTIONS MARKET, BY OFFERING,  
2023–2028 (USD MILLION)

TABLE 200 JAPAN: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE,  
2018–2022 (USD MILLION)

TABLE 201 JAPAN: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE,  
2023–2028 (USD MILLION)

#### 11.4.5 INDIA

11.4.5.1 Growing demand for digital services, cloud computing, and government initiatives promoting data center development to drive market

TABLE 202 INDIA: DATA CENTER SOLUTIONS MARKET, BY OFFERING,  
2018–2022 (USD MILLION)

TABLE 203 INDIA: DATA CENTER SOLUTIONS MARKET, BY OFFERING,  
2023–2028 (USD MILLION)

TABLE 204 INDIA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE,  
2018–2022 (USD MILLION)

TABLE 205 INDIA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE,  
2023–2028 (USD MILLION)

#### 11.4.6 REST OF ASIA PACIFIC

TABLE 206 REST OF ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY  
OFFERING, 2018–2022 (USD MILLION)

TABLE 207 REST OF ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY  
OFFERING, 2023–2028 (USD MILLION)

TABLE 208 REST OF ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY  
DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 209 REST OF ASIA PACIFIC: DATA CENTER SOLUTIONS MARKET, BY  
DATA CENTER SIZE, 2023–2028 (USD MILLION)

#### 11.5 MIDDLE EAST & AFRICA

11.5.1 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET DRIVERS

11.5.2 MIDDLE EAST & AFRICA: RECESSION IMPACT

TABLE 210 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY  
OFFERING, 2018–2022 (USD MILLION)

TABLE 211 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY  
OFFERING, 2023–2028 (USD MILLION)

TABLE 212 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY  
HARDWARE, 2018–2022 (USD MILLION)

TABLE 213 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY  
HARDWARE, 2023–2028 (USD MILLION)

TABLE 214 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY SOFTWARE, 2018–2022 (USD MILLION)

TABLE 215 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY SOFTWARE, 2023–2028 (USD MILLION)

TABLE 216 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY SERVICES, 2018–2022 (USD MILLION)

TABLE 217 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY SERVICES, 2023–2028 (USD MILLION)

TABLE 218 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER TYPE, 2018–2022 (USD MILLION)

TABLE 219 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER TYPE, 2023–2028 (USD MILLION)

TABLE 220 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY TIER TYPE, 2018–2022 (USD MILLION)

TABLE 221 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY TIER TYPE, 2023–2028 (USD MILLION)

TABLE 222 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 223 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

TABLE 224 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 225 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 226 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 227 MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

### 11.5.3 GCC

11.5.3.1 Increasing adoption of cloud services and growing focus on cybersecurity to drive market

TABLE 228 GCC: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 229 GCC: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 230 GCC: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 231 GCC: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

#### 11.5.3.2 Saudi Arabia

#### 11.5.3.3 UAE

#### 11.5.3.4 Qatar

#### 11.5.3.5 Rest of GCC countries

### 11.5.4 SOUTH AFRICA

11.5.4.1 Growing need for digital infrastructure, connectivity, and data storage to support technological advancements to drive market

TABLE 232 SOUTH AFRICA: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 233 SOUTH AFRICA: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 234 SOUTH AFRICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 235 SOUTH AFRICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

#### 11.5.5 REST OF MIDDLE EAST & AFRICA

TABLE 236 REST OF MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 237 REST OF MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 238 REST OF MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 239 REST OF MIDDLE EAST & AFRICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

### 11.6 LATIN AMERICA

#### 11.6.1 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET DRIVERS

#### 11.6.2 LATIN AMERICA: RECESSION IMPACT

TABLE 240 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 241 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 242 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY HARDWARE, 2018–2022 (USD MILLION)

TABLE 243 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY HARDWARE, 2023–2028 (USD MILLION)

TABLE 244 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY SOFTWARE, 2018–2022 (USD MILLION)

TABLE 245 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY SOFTWARE, 2023–2028 (USD MILLION)

TABLE 246 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY SERVICES, 2018–2022 (USD MILLION)

TABLE 247 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY SERVICES, 2023–2028 (USD MILLION)

TABLE 248 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER TYPE, 2018–2022 (USD MILLION)

TABLE 249 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER TYPE, 2023–2028 (USD MILLION)

TABLE 250 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY TIER TYPE, 2018–2022 (USD MILLION)

TABLE 251 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY TIER TYPE, 2023–2028 (USD MILLION)

TABLE 252 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 253 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

TABLE 254 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 255 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 256 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 257 LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

#### 11.6.3 BRAZIL

11.6.3.1 Growing demand for cloud services and increasing investment in IT infrastructure to drive market

TABLE 258 BRAZIL: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 259 BRAZIL: DATA CENTER SOLUTIONS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 260 BRAZIL: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 261 BRAZIL: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER SIZE, 2023–2028 (USD MILLION)

#### 11.6.4 MEXICO

11.6.4.1 Increasing adoption of digital technologies, growth in e-commerce, and rising demand for data storage and processing to drive market

TABLE 262 MEXICO: DATA CENTER SOLUTIONS MARKET, BY OFFERING,



2018–2022 (USD MILLION)

TABLE 263 MEXICO: DATA CENTER SOLUTIONS MARKET, BY OFFERING,  
2023–2028 (USD MILLION)

TABLE 264 MEXICO: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER  
SIZE, 2018–2022 (USD MILLION)

TABLE 265 MEXICO: DATA CENTER SOLUTIONS MARKET, BY DATA CENTER  
SIZE, 2023–2028 (USD MILLION)

#### 11.6.5 REST OF LATIN AMERICA

TABLE 266 REST OF LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY  
OFFERING, 2018–2022 (USD MILLION)

TABLE 267 REST OF LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY  
OFFERING, 2023–2028 (USD MILLION)

TABLE 268 REST OF LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY  
DATA CENTER SIZE, 2018–2022 (USD MILLION)

TABLE 269 REST OF LATIN AMERICA: DATA CENTER SOLUTIONS MARKET, BY  
DATA CENTER SIZE, 2023–2028 (USD MILLION)

## 12 COMPETITIVE LANDSCAPE

### 12.1 OVERVIEW

#### 12.2 KEY PLAYER STRATEGIES/RIGHT TO WIN

FIGURE 49 OVERVIEW OF STRATEGIES BY KEY DATA CENTER SOLUTION  
VENDORS

#### 12.3 REVENUE ANALYSIS

FIGURE 50 SEGMENTAL REVENUE ANALYSIS OF TOP 5 DATA CENTER  
SOLUTION PROVIDERS, 2018–2022

#### 12.4 MARKET SHARE ANALYSIS

FIGURE 51 MARKET SHARE ANALYSIS, 2022

TABLE 270 DATA CENTER SOLUTIONS MARKET: DEGREE OF COMPETITION

#### 12.5 PRODUCT/BRAND COMPARISON

FIGURE 52 BRAND COMPARISON/VENDOR PRODUCT LANDSCAPE

#### 12.6 GLOBAL SNAPSHOT OF KEY MARKET PARTICIPANTS

FIGURE 53 DATA CENTER SOLUTIONS MARKET: GLOBAL SNAPSHOT OF KEY  
MARKET PARTICIPANTS

#### 12.7 COMPANY EVALUATION MATRIX

FIGURE 54 COMPANY EVALUATION MATRIX FOR KEY PLAYERS: CRITERIA  
WEIGHTAGE

##### 12.7.1 STARS

##### 12.7.2 EMERGING LEADERS



### 12.7.3 PERVASIVE PLAYERS

### 12.7.4 PARTICIPANTS

FIGURE 55 DATA CENTER SOLUTIONS MARKET: COMPANY EVALUATION MATRIX, 2023

### 12.7.5 COMPANY FOOTPRINT

TABLE 271 COMPANY REGION FOOTPRINT

TABLE 272 COMPANY OFFERING FOOTPRINT

TABLE 273 COMPANY VERTICAL FOOTPRINT

TABLE 274 OVERALL COMPANY FOOTPRINT

### 12.8 STARTUP/SME EVALUATION MATRIX

FIGURE 56 EVALUATION MATRIX FOR STARTUPS/SMES: CRITERIA WEIGHTAGE

#### 12.8.1 PROGRESSIVE COMPANIES

#### 12.8.2 RESPONSIVE COMPANIES

#### 12.8.3 DYNAMIC COMPANIES

#### 12.8.4 STARTING BLOCKS

FIGURE 57 DATA CENTER SOLUTIONS MARKET: STARTUP/SME EVALUATION MATRIX, 2023

### 12.8.5 COMPETITIVE BENCHMARKING

TABLE 275 DATA CENTER SOLUTIONS MARKET: DETAILED LIST OF KEY STARTUPS/SMES

TABLE 276 COMPANY FOOTPRINT FOR STARTUPS/SMES, BY REGION

TABLE 277 COMPANY FOOTPRINT FOR STARTUPS/SMES, BY OFFERING

TABLE 278 COMPANY FOOTPRINT FOR STARTUPS/SMES, BY VERTICAL

TABLE 279 OVERALL COMPANY FOOTPRINT FOR STARTUPS/SMES

### 12.9 COMPANY FINANCIAL METRICS

FIGURE 58 VALUATION AND FINANCIAL METRICS OF DATA CENTER SOLUTION VENDORS

### 12.10 COMPETITIVE SCENARIOS AND TRENDS

#### 12.10.1 PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 280 DATA CENTER SOLUTIONS MARKET: PRODUCT LAUNCHES/ENHANCEMENTS, 2021–2023

#### 12.10.2 DEALS

TABLE 281 DATA CENTER SOLUTIONS MARKET: DEALS, 2021–2023

#### 12.10.3 OTHER DEVELOPMENTS

TABLE 282 DATA CENTER SOLUTIONS MARKET: OTHER DEVELOPMENTS, 2021–2023

## 13 COMPANY PROFILES

## 13.1 INTRODUCTION

(Business overview, Products/Solutions/Services offered, Recent developments & MnM View)\*

## 13.2 KEY PLAYERS

### 13.2.1 AWS

TABLE 283 AWS: COMPANY OVERVIEW

FIGURE 59 AWS: COMPANY SNAPSHOT

TABLE 284 AWS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 285 AWS: PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 286 AWS: DEALS

TABLE 287 AWS: OTHER DEVELOPMENTS

### 13.2.2 MICROSOFT

TABLE 288 MICROSOFT: COMPANY OVERVIEW

FIGURE 60 MICROSOFT: COMPANY SNAPSHOT

TABLE 289 MICROSOFT: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 290 MICROSOFT: PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 291 MICROSOFT: DEALS

TABLE 292 MICROSOFT: OTHER DEVELOPMENTS

### 13.2.3 GOOGLE

TABLE 293 GOOGLE: COMPANY OVERVIEW

FIGURE 61 GOOGLE: COMPANY SNAPSHOT

TABLE 294 GOOGLE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 295 GOOGLE: DEALS

TABLE 296 GOOGLE: OTHER DEVELOPMENTS

### 13.2.4 EQUINIX

TABLE 297 EQUINIX: COMPANY OVERVIEW

FIGURE 62 EQUINIX: COMPANY SNAPSHOT

TABLE 298 EQUINIX: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 299 EQUINIX: PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 300 EQUINIX: DEALS

TABLE 301 EQUINIX: OTHER DEVELOPMENTS

### 13.2.5 DELL TECHNOLOGIES

TABLE 302 DELL TECHNOLOGIES: COMPANY OVERVIEW

FIGURE 63 DELL TECHNOLOGIES: COMPANY SNAPSHOT

TABLE 303 DELL TECHNOLOGIES: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 304 DELL TECHNOLOGIES: PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 305 DELL TECHNOLOGIES: DEALS

### 13.2.6 HUAWEI

TABLE 306 HUAWEI: COMPANY OVERVIEW

TABLE 307 HUAWEI: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 308 HUAWEI: PRODUCT LAUNCHES/ENHANCEMENTS

#### 13.2.7 DIGITAL REALTY

TABLE 309 DIGITAL REALTY: COMPANY OVERVIEW

FIGURE 64 DIGITAL REALTY: COMPANY SNAPSHOT

TABLE 310 DIGITAL REALTY: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 311 DIGITAL REALTY: PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 312 DIGITAL REALTY: DEALS

TABLE 313 DIGITAL REALTY: OTHER DEVELOPMENTS

#### 13.2.8 NTT

TABLE 314 NTT: COMPANY OVERVIEW

FIGURE 65 NTT: COMPANY SNAPSHOT

TABLE 315 NTT: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 316 NTT: PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 317 NTT: DEALS

TABLE 318 NTT: OTHER DEVELOPMENTS

#### 13.2.9 KDDI

TABLE 319 KDDI: COMPANY OVERVIEW

FIGURE 66 KDDI: COMPANY SNAPSHOT

TABLE 320 KDDI: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 321 KDDI: PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 322 KDDI: DEALS

TABLE 323 KDDI: OTHER DEVELOPMENTS

#### 13.2.10 HPE

TABLE 324 HPE: COMPANY OVERVIEW

FIGURE 67 HPE: COMPANY SNAPSHOT

TABLE 325 HPE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 326 HPE: PRODUCT LAUNCHES/ENHANCEMENTS

TABLE 327 HPE: DEALS

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

### 13.3 OTHER PLAYERS

#### 13.3.1 CYRUSONE

#### 13.3.2 CHINA TELECOM

#### 13.3.3 CYXTERA TECHNOLOGIES

#### 13.3.4 GDS HOLDINGS

#### 13.3.5 CORESITE

#### 13.3.6 QTS DATA CENTERS

#### 13.3.7 365 DATA CENTERS

- 13.3.8 ALIBABA CLOUD
- 13.3.9 ORACLE
- 13.3.10 IRON MOUNTAIN
- 13.3.11 IBM
- 13.3.12 SCHNEIDER ELECTRIC
- 13.3.13 RACKBANK DATACENTERS
- 13.3.14 LIQUIDSTACK
- 13.3.15 HYPERVIEW
- 13.3.16 DARTPOINTS

## **14 ADJACENT/RELATED MARKETS**

### **14.1 INTRODUCTION**

TABLE 328 ADJACENT MARKETS AND FORECASTS

### **14.2 LIMITATIONS**

### **14.3 DATA CENTER SOLUTIONS MARKET ECOSYSTEM AND ADJACENT MARKETS**

#### **14.4 DATA CENTER INFRASTRUCTURE MANAGEMENT (DCIM) MARKET**

TABLE 329 DATA CENTER INFRASTRUCTURE MANAGEMENT MARKET, BY COMPONENT, 2017–2020 (USD MILLION)

TABLE 330 DATA CENTER INFRASTRUCTURE MANAGEMENT MARKET, BY COMPONENT, 2021–2026 (USD MILLION)

TABLE 331 DATA CENTER INFRASTRUCTURE MANAGEMENT MARKET, BY APPLICATION, 2017–2020 (USD MILLION)

TABLE 332 DATA CENTER INFRASTRUCTURE MANAGEMENT MARKET, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 333 DATA CENTER INFRASTRUCTURE MANAGEMENT MARKET, BY DEPLOYMENT MODEL, 2017–2020 (USD MILLION)

TABLE 334 DATA CENTER INFRASTRUCTURE MANAGEMENT MARKET, BY DEPLOYMENT MODEL, 2021–2026 (USD MILLION)

TABLE 335 DATA CENTER INFRASTRUCTURE MANAGEMENT MARKET, BY DATA CENTER TYPE, 2017–2020 (USD MILLION)

TABLE 336 DATA CENTER INFRASTRUCTURE MANAGEMENT MARKET, BY DATA CENTER TYPE, 2021–2026 (USD MILLION)

TABLE 337 DATA CENTER INFRASTRUCTURE MANAGEMENT MARKET, BY VERTICAL, 2017–2020 (USD MILLION)

TABLE 338 DATA CENTER INFRASTRUCTURE MANAGEMENT MARKET, BY VERTICAL, 2021–2026 (USD MILLION)

TABLE 339 DATA CENTER INFRASTRUCTURE MANAGEMENT MARKET, BY

REGION, 2017–2020 (USD MILLION)

TABLE 340 DATA CENTER INFRASTRUCTURE MANAGEMENT MARKET, BY  
REGION, 2021–2026 (USD MILLION)

14.5 DATA CENTER TRANSFORMATION MARKET

TABLE 341 DATA CENTER TRANSFORMATION MARKET, BY SERVICE TYPE,  
2017–2022 (USD MILLION)

TABLE 342 DATA CENTER TRANSFORMATION MARKET, BY SERVICE TYPE,  
2023–2028 (USD MILLION)

TABLE 343 DATA CENTER TRANSFORMATION MARKET, BY TIER TYPE,  
2017–2022 (USD MILLION)

TABLE 344 DATA CENTER TRANSFORMATION MARKET, BY TIER TYPE,  
2023–2028 (USD MILLION)

TABLE 345 DATA CENTER TRANSFORMATION MARKET, BY DATA CENTER TYPE,  
2017–2022 (USD MILLION)

TABLE 346 DATA CENTER TRANSFORMATION MARKET, BY DATA CENTER TYPE,  
2023–2028 (USD MILLION)

TABLE 347 DATA CENTER TRANSFORMATION MARKET, BY DATA CENTER SIZE,  
2017–2022 (USD MILLION)

TABLE 348 DATA CENTER TRANSFORMATION MARKET, BY DATA CENTER SIZE,  
2023–2028 (USD MILLION)

TABLE 349 DATA CENTER TRANSFORMATION MARKET, BY VERTICAL,  
2017–2022 (USD MILLION)

TABLE 350 DATA CENTER TRANSFORMATION MARKET, BY VERTICAL,  
2023–2028 (USD MILLION)

TABLE 351 DATA CENTER TRANSFORMATION MARKET, BY REGION, 2017–2022  
(USD MILLION)

TABLE 352 DATA CENTER TRANSFORMATION MARKET, BY REGION, 2023–2028  
(USD MILLION)

14.6 MODULAR DATA CENTER MARKET

TABLE 353 MODULAR DATA CENTER MARKET, BY COMPONENT, 2016–2021  
(USD MILLION)

TABLE 354 MODULAR DATA CENTER MARKET, BY COMPONENT, 2022–2030  
(USD MILLION)

TABLE 355 MODULAR DATA CENTER MARKET, BY SOLUTIONS, 2016–2021 (USD  
MILLION)

TABLE 356 MODULAR DATA CENTER MARKET, BY SOLUTIONS, 2022–2030 (USD  
MILLION)

TABLE 357 MODULAR DATA CENTER MARKET, BY SERVICES, 2016–2021 (USD  
MILLION)

TABLE 358 MODULAR DATA CENTER MARKET, BY SERVICES, 2022–2030 (USD MILLION)

TABLE 359 MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2016–2021 (USD MILLION)

TABLE 360 MODULAR DATA CENTER MARKET, BY ORGANIZATION SIZE, 2022–2030 (USD MILLION)

TABLE 361 MODULAR DATA CENTER MARKET, BY VERTICAL, 2016–2021 (USD MILLION)

TABLE 362 MODULAR DATA CENTER MARKET, BY VERTICAL, 2022–2030 (USD MILLION)

TABLE 363 MODULAR DATA CENTER MARKET, BY REGION, 2016–2021 (USD MILLION)

TABLE 364 MODULAR DATA CENTER MARKET, BY REGION, 2022–2030 (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

## About

The rapid and exponential growth in the amount of data consumed by various businesses, individuals, and organizations has resulted in a hasty traction in the demand for data storage. With growing business need, organizations are looking for increasing their data storage capacity. Also, many large organizations such as Facebook, Google, Apple, Microsoft, Amazon, Oracle, and certain government agencies are consolidating their traditional datacenters by building new larger datacenters. In order to minimize the cost associated with the operations of a datacenter and maximize the profit, various organizations are coming up with more scalable and efficient solutions, which can serve the enormously increasing demand of data storage. This surging demand for data storage is nurturing the market for datacenters globally, presenting potential opportunity for numerous vendors serving the datacenter market. Datacenters have emerged as a promising solution for the growing data storage demand, with features that include extensive scalability, serviceability, operational cost benefits, reliability, efficiency, and automatic error detection. In the present scenario, the global datacenters have quivered and are experiencing significant adoption. In the coming years too they are expected to experience exponential growth.

Some of the key vendors occupying the market are AECOM Technology Inc., Skanska AB, Jacobs Engineering Groups, Arcadis, Balfour Beatty, IBI Group, Fluor Corporation, URS Corporation, Hochtief AG, and Gilbane Inc. The research report on datacenter construction discusses the strategies and insights of the key vendors in the industry, and provides an in-depth study of the driving forces and challenges of this market. The report also analyzes global adoption trends and future growth potentials across different geographical regions.

MarketsandMarkets has segmented the global datacenter construction market by datacenter types, design types, tier types, industry verticals, and geographical regions. The report also consists of MarketsandMarkets views of the key players on various developments that are taking place in the datacenter construction market.

The definition of datacenter construction market study is as follows, "Datacenter construction primarily focuses on designing and building IT infrastructure. It consists of following key factors:

This market study covers electrical and mechanical designing for datacenters.



The datacenter construction market does not cover the physical assets such as datacenter building, and IT equipment market as the objective of the report is to cover the technological aspect of the datacenter construction market.

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