

# **Geographic Information System Market by Offering (Hardware (GIS Collector, Total Station, LIDAR), Software, Services), Function (Mapping, Surveying, Telematics and Navigation, Location-Based Service), Industry-Global Forecast to 2025**

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## **Abstracts**

“Manufacturing execution system market to grow at a CAGR of 12.4% from 2020 to 2025” the global geographic information systems (GIS) market size is expected to grow from USD 8.1 billion in 2020 to USD 14.5 billion by 2025 at a CAGR of 12.4% from 2020 to 2025. The key factors driving the growth of the GIS industry are the development of smart cities and urbanization, integration of geospatial technology with mainstream technologies for business intelligence, and growing adoption of GIS solutions in the transportation sector. However, geospatial data barriers and high costs associated with GIS solutions pose a major restraining factor for the growth of this market.

“GIS software to hold the largest share during the forecast period”

GIS software provides functions and tools to store, retrieve, manage, display, and analyze all types of geographic and spatial data related to positions of objects on earth. GIS software allows users to create interactive queries, analyze the spatial information, and visualize the result for analysis. Increasing use of GIS software in urban planning, disaster management, transport management, and smart city development has contributed to market growth. Whereas, the growing adoption of GIS in precision agriculture and rising focus on transportation modeling are expected to have excellent opportunities for market growth.

“Location-based services function is expected to grow at the highest rate during the forecast period”

Location-based service (LBS) is the ability for a GIS to point out the accurate location of a user using a mobile device they are carrying or their position in certain localities. LBS is an emerging technology that provides real-time spatial information via mobile and field devices. Internet GIS and mobile GIS are important LBS applications, as they provide accurate positioning and real-time information via mobile-networked environments. The rapid evolution of smart mobile devices, availability of fast wireless internet connection and cloud computing, the application of LBS function is expected to grow at the highest rate during the forecast period.

“The market for the transportation sector is expected to hold the largest market size during the forecast period”

The GIS market for the transportation sector is expected to hold the largest market size during the forecast period. GIS is becoming used extensively in transportation applications such as transportation planning, highway maintenance, traffic modeling, accident analysis, route planning, and environmental assessment of road schemes. Construction of roadways and highways requires accurate land-based information for their planning and construction. A GIS helps transportation planners in collecting and analyzing geospatial information for planning, engineering and construction of highways and roadways. In addition, GIS offers integration of various data types of information such as spatial and non-spatial data required for highway and roadway construction.

“North America is expected to hold the largest size during the forecast period”

North America region is expected to hold the largest share of the GIS market during the forecast period. In North America, GIS technologies are used extensively in applications such as construction, agriculture, transportation and utilities. Increasing demand for location-based services and high penetration of GIS in building information modeling, real-time traffic data, precision farming, utility management and environmental monitoring is expected to drive the growth of the GIS market during the forecast period. The government sector is one of the significant adopters of GIS technologies in the North America region.

The break-up of the profiles of primary participants for the report has been given below:

By Company Type: Tier 1 = 55%, Tier 2 = 20%, and Tier 3 = 25%

By Designation: C-Level Executives = 75%, Managers = 25%

By Region: North America = 10%, Europe = 20%, APAC = 40%, and RoW = 30%

Major players involved in the GIS market include Environmental Systems Research Institute, Inc. (Esri) (US), Hexagon AB (Sweden), Trimble Inc. (US), Pitney Bowes Inc. (US), Autodesk Inc. (US), Topcon Corporation (Japan), Maxar Technologies Inc. (US), Caliper Corporation (US), and Bentley Systems, Inc. (US).

#### Research Coverage:

The research report on the global GIS market covers the market based on offering, function, industry, and geography. The market has been segmented based on offering into hardware, software and services. Further, the hardware market is sub-segmented into GIS collectors, imaging sensors, LiDAR, total stations, GNSS/GPS antennas, The software market segment includes desktop GIS, server GIS, developer GIS, mobile GIS, remote sensing software. Further, the GIS market has been segmented based on function into mapping, surveying, telematics and navigation, and location-based services.

Based on the industry, the GIS market has been segmented into agriculture, oil & gas, architecture, engineering & construction, transportation, utilities, mining, government, healthcare, retail, and others (marine, education, and forestry). The report covers four major geographical regions, namely, North America, Europe, Asia Pacific (APAC), and Rest of the World (RoW).

#### Key Benefits of Buying the Report:

This report segments the GIS market comprehensively and provides the closest approximations of the overall market size, as well as that of the subsegments across different offerings, functions, industries, and regions.

The report helps stakeholders understand the pulse of the market and provides information on key market drivers, restraints, challenges, and opportunities

## Contents

### 1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION AND SCOPE
  - 1.2.1 INCLUSIONS & EXCLUSIONS
- 1.3 STUDY SCOPE
  - 1.3.1 MARKETS COVERED
  - 1.3.2 YEARS CONSIDERED
- 1.4 CURRENCY
- 1.5 LIMITATIONS
- 1.6 STAKEHOLDERS

### 2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
  - 2.1.1 SECONDARY DATA
    - 2.1.1.1 List of major secondary sources
    - 2.1.1.2 Secondary sources
  - 2.1.2 PRIMARY DATA
    - 2.1.2.1 Primary interviews with experts
    - 2.1.2.2 Key data from primary sources
  - 2.1.3 SECONDARY AND PRIMARY RESEARCH
    - 2.1.3.1 Key industry insights
    - 2.1.3.2 Breakdown of primaries
- 2.2 MARKET SIZE ESTIMATION
  - 2.2.1 BOTTOM-UP APPROACH
    - 2.2.1.1 Approach for arriving at market size by bottom-up analysis
  - 2.2.2 TOP-DOWN APPROACH
    - 2.2.2.1 Approach for capturing market share by top-down analysis
- 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION
- 2.4 RESEARCH ASSUMPTIONS

### 3 EXECUTIVE SUMMARY

### 4 PREMIUM INSIGHTS

#### 4.1 ATTRACTIVE GROWTH OPPORTUNITIES FOR GEOGRAPHICAL

*Geographic Information System Market by Offering (Hardware (GIS Collector, Total Station, LIDAR), Software, Se...*

## INFORMATION SYSTEM MARKET

4.2 GEOGRAPHICAL INFORMATION SYSTEM MARKET, BY OFFERING

4.3 GEOGRAPHICAL INFORMATION SYSTEM MARKET, BY FUNCTION

4.4 GEOGRAPHICAL INFORMATION SYSTEM MARKET IN NORTH AMERICA, BY INDUSTRY AND COUNTRY

4.5 GEOGRAPHICAL INFORMATION SYSTEM MARKET, BY GEOGRAPHY

## 5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Development of smart cities and urbanization

5.2.1.2 Integration of geospatial technology with mainstream technologies for business intelligence

5.2.1.3 Adoption of GIS solutions in transportation sector

5.2.2 RESTRAINTS

5.2.2.1 Regulations and legal issues

5.2.2.2 Geospatial data barriers and high cost

5.2.3 OPPORTUNITIES

5.2.3.1 Benefits of drones integrated with GIS

5.2.3.2 Integration of cloud computing in GIS

5.2.3.3 Development of 4D GIS software and augmented reality platforms for GIS

5.2.4 CHALLENGES

5.2.4.1 Integration of GIS technology with other technologies

## 6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 VALUE CHAIN ANALYSIS

6.3 GIS DATA

6.3.1 TYPES OF GIS DATA MODELS

6.3.1.1 Vector data model

6.3.1.2 Raster data model

6.4 TRENDS IN GIS MARKET

6.4.1 AR AND VR TECHNOLOGIES

6.4.2 UNMANNED AERIAL VEHICLES

## **7 GEOGRAPHIC INFORMATION SYSTEM MARKET, BY OFFERING**

### **7.1 INTRODUCTION**

### **7.2 HARDWARE**

#### **7.2.1 TOTAL STATIONS**

7.2.1.1 High demand for robotic total stations boost growth of GIS market

#### **7.2.2 GIS COLLECTORS**

7.2.2.1 GIS collectors to hold largest market share in coming years

#### **7.2.3 GNSS/GPS ANTENNAS**

7.2.3.1 Mapping and surveying are major applications of GNSS/GPS antennas

#### **7.2.4 LIDAR**

7.2.4.1 LIDAR is likely to be fastest-growing segment in GIS hardware market

#### **7.2.5 IMAGING SENSORS**

7.2.5.1 Imaging sensors are key elements for remote sensing and imagery applications

### **7.3 SOFTWARE**

#### **7.3.1 DESKTOP GIS**

7.3.1.1 Desktop GIS is commonly-used software for performing spatial analysis and managing tabular data

#### **7.3.2 MOBILE GIS**

7.3.2.1 Mobile GIS is used in handheld devices and provides location-based services

#### **7.3.3 GIS SERVER AND WEB GIS**

7.3.3.1 Majority of GIS servers are used by software and web developers

#### **7.3.4 DEVELOPER GIS**

7.3.4.1 Developer GIS used to create mapping and geoprocessing applications

#### **7.3.5 REMOTE SENSING SOFTWARE**

7.3.5.1 Remote sensing software is crucial for developing and analyzing geographic images

### **7.4 SERVICES**

#### **7.4.1 INSTALLATION**

#### **7.4.2 TRAINING & MAINTENANCE**

#### **7.4.3 SOFTWARE UPGRADATION**

## **8 GEOGRAPHIC INFORMATION SYSTEM MARKET, BY FUNCTION**

### **8.1 INTRODUCTION**

### **8.2 MAPPING**

## 8.2.1 REMOTE SENSING AND LIDAR TECHNOLOGIES TO DRIVE GIS MARKET FOR MAPPING

### 8.3 SURVEYING

8.3.1 MARKET FOR SURVEYING FUNCTION TO WITNESS CONSIDERABLE GROWTH DURING FORECAST PERIOD

### 8.4 TELEMATICS AND NAVIGATION

8.4.1 ADOPTION OF ITS AND IVHS TO INCREASE DEMAND FOR GIS-BASED TELEMATICS AND NAVIGATION SERVICES

### 8.5 LOCATION-BASED SERVICES

8.5.1 RAPID EVOLUTION OF SMARTPHONES AND AVAILABILITY OF FAST WIRELESS INTERNET CONNECTIVITY TO FURTHER DRIVE GROWTH OF MARKET FOR LBS DURING FORECAST PERIOD

## **9 GEOGRAPHIC INFORMATION SYSTEM MARKET, BY INDUSTRY**

### 9.1 INTRODUCTION

#### 9.2 AGRICULTURE

9.2.1 PRECISION FARMING CREATES SIGNIFICANT OPPORTUNITY FOR GROWTH OF GIS MARKET IN AGRICULTURE INDUSTRY

#### 9.3 OIL & GAS

9.3.1 SATELLITE IMAGERY AND AIRBORNE REMOTE SENSING TECHNOLOGY PLAY VITAL ROLE IN GROWTH OF GIS IN OIL & GAS INDUSTRY

#### 9.4 ARCHITECTURE, ENGINEERING, AND CONSTRUCTION

9.4.1 GIS SOLUTIONS USED FOR URBAN AND REGIONAL PLANNING IN ARCHITECTURE, ENGINEERING, AND CONSTRUCTION INDUSTRIES

#### 9.5 TRANSPORTATION

9.5.1 TRANSPORTATION TO HOLD MAJOR SHARE OF GIS MARKET

#### 9.6 UTILITIES

9.6.1 GIS IS WIDELY USED FOR ENVIRONMENTAL MONITORING AND DISASTER MANAGEMENT APPLICATIONS IN UTILITY INDUSTRY

#### 9.7 MINING

9.7.1 MINING INDUSTRY UTILIZES GIS SOLUTIONS FOR MAPPING AND SURVEYING

#### 9.8 GOVERNMENT

9.8.1 GOVERNMENT INDUSTRY HAS HIGH GROWTH OF GIS MARKET DUE TO ADOPTION LIDAR TECHNOLOGY

#### 9.9 HEALTHCARE

9.9.1 GIS SOLUTION WOULD HELP HEALTHCARE INDUSTRY TO ANALYZE PATIENT HEALTHCARE DATA

## 9.10 RETAIL

9.10.1 HIGH DEMAND OF AUTOMATED AND BUSINESS INTELLIGENCE SOLUTIONS TO DRIVE THE GIS MARKET

## 9.11 OTHERS

# 10 GEOGRAPHIC ANALYSIS

## 10.1 INTRODUCTION

## 10.2 NORTH AMERICA

### 10.2.1 US

10.2.1.1 US to hold largest share of North American market in 2025

### 10.2.2 CANADA

10.2.2.1 High adoption of GIS for agriculture and transportation industries in Canada

### 10.2.3 MEXICO

10.2.3.1 Huge growth opportunity for cloud-based GIS and mobile GIS in Mexico

## 10.3 EUROPE

### 10.3.1 UK

10.3.1.1 Mandates related to implementation of BIM for construction in UK drive growth of GIS market in region

### 10.3.2 GERMANY

10.3.2.1 Adoption of GIS in German smart grid market to boost growth of GIS market

### 10.3.3 FRANCE

10.3.3.1 High adoption of GIS for construction and transportation industries in France

### 10.3.4 ITALY

10.3.4.1 Strong foothold of industrial base in Italy drives GIS market

### 10.3.5 REST OF EUROPE

## 10.4 APAC

### 10.4.1 CHINA

10.4.1.1 China to hold major share of GIS market during forecast period

### 10.4.2 JAPAN

10.4.2.1 Growing investments in residential and infrastructure markets drive GIS market in Japan

### 10.4.3 INDIA

10.4.3.1 Increase in infrastructure development projects to drive GIS market in India

### 10.4.4 SOUTH KOREA



10.4.4.1 Growing concern for safety of power plants and other existing infrastructure from natural disasters to boost adoption of GIS in South Korea

10.4.5 REST OF APAC

10.5 ROW

10.5.1 SOUTH AMERICA

10.5.1.1 South America is expected to witness considerable growth of GIS market during forecast period

10.5.2 MIDDLE EAST

10.5.2.1 Middle Eastern countries have high demand for GIS solutions for architecture, engineering & construction industries

10.5.3 AFRICA

10.5.3.1 Infrastructure developments and usage of GIS by local governments of Africa drive GIS market growth in region

## **11 COMPETITIVE LANDSCAPE**

11.1 INTRODUCTION

11.2 MARKET RANKING ANALYSIS

11.3 COMPETITIVE LEADERSHIP MAPPING

11.3.1 VISIONARY LEADERS

11.3.2 INNOVATORS

11.3.3 DYNAMIC DIFFERENTIATORS

11.3.4 EMERGING COMPANIES

11.4 STRENGTH OF PRODUCT PORTFOLIO (FOR 25 PLAYERS)

11.5 BUSINESS STRATEGY EXCELLENCE (FOR 25 PLAYERS)

11.6 COMPETITIVE SCENARIO

11.6.1 PRODUCT LAUNCHES AND PRODUCT DEVELOPMENTS

11.6.2 MERGERS, ACQUISITIONS, PARTNERSHIPS, AND COLLABORATIONS

## **12 COMPANY PROFILES**

12.1 INTRODUCTION

12.2 KEY PLAYERS

(Business Overview, Products Offered, Recent Developments, SWOT Analysis, and MnM View)\*

12.2.1 AUTODESK

12.2.2 ESRI

12.2.3 TRIMBLE

12.2.4 PITNEY BOWES

12.2.5 HEXAGON

12.2.6 TOPCON

12.2.7 MAXAR TECHNOLOGIES

12.2.8 CALIPER CORPORATION

12.2.9 BENTLEY SYSTEMS

\* Business Overview, Products Offered, Recent Developments, SWOT Analysis, and MnM View might not be captured in case of unlisted companies.

12.3 RIGHT TO WIN

12.4 OTHER KEY PLAYERS

12.4.1 TOMTOM INTERNATIONAL

12.4.2 SUPERMAP SOFTWARE CO., LTD

12.4.3 GENERAL ELECTRIC COMPANY

12.4.4 FARO TECHNOLOGIES

12.4.5 L3HARRIS TECHNOLOGIES, INC.

12.4.6 TAKOR GROUP

12.4.7 MAPTOSS TECHNOLOGIES

12.4.8 COMPUTER AIDED DEVELOPMENT CORPORATION LIMITED (CADCORP)

12.4.9 HI-TARGET SURVEYING INSTRUMENT CO., LTD

12.4.10 BLUE MARBLE GEOGRAPHICS

12.4.11 PASCO CORPORATION

## **13 APPENDIX**

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGE STORE: MARKETSSANDMARKETS' SUBSCRIPTION PORTAL

13.3 AVAILABLE CUSTOMIZATIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

## List Of Tables

### LIST OF TABLES

TABLE 1 GEOGRAPHIC INFORMATION SYSTEM MARKET, BY OFFERING, 2018–2025 (USD MILLION)

TABLE 2 GEOGRAPHIC INFORMATION SYSTEM MARKET, BY HARDWARE, 2018–2025 (USD MILLION)

TABLE 3 GEOGRAPHIC INFORMATION SYSTEM MARKET, BY SOFTWARE, 2018–2025 (USD MILLION)

TABLE 4 GEOGRAPHIC INFORMATION SYSTEM MARKET, BY FUNCTION, 2018–2025 (USD MILLION)

TABLE 5 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR MAPPING FUNCTION, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 6 GEOGRAPHIC INFORMATION SYSTEM MARKET, FOR SURVEYING FUNCTION, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 7 GEOGRAPHIC INFORMATION SYSTEM MARKET, FOR TELEMATICS AND NAVIGATION FUNCTION, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 8 GEOGRAPHIC INFORMATION SYSTEM MARKET, FOR LOCATION-BASED SERVICES, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 9 GEOGRAPHIC INFORMATION SYSTEM MARKET, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 10 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR AGRICULTURE, BY FUNCTION, 2018–2025 (USD MILLION)

TABLE 11 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR AGRICULTURE, BY REGION, 2018–2025 (USD MILLION)

TABLE 12 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR OIL & GAS INDUSTRY, BY FUNCTION, 2018–2025 (USD MILLION)

TABLE 13 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR OIL & GAS, BY REGION, 2018–2025 (USD MILLION)

TABLE 14 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR ARCHITECTURE, ENGINEERING, AND CONSTRUCTION, BY FUNCTION, 2018–2025 (USD MILLION)

TABLE 15 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR ARCHITECTURE, ENGINEERING, AND CONSTRUCTION, BY REGION, 2018–2025 (USD MILLION)

TABLE 16 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR TRANSPORTATION, BY FUNCTION, 2018–2025 (USD MILLION)

TABLE 17 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR TRANSPORTATION, BY REGION, 2018–2025 (USD MILLION)

TABLE 18 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR UTILITIES, BY

FUNCTION, 2018–2025 (USD MILLION)

TABLE 19 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR UTILITIES, BY REGION, 2018–2025 (USD MILLION)

TABLE 20 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR MINING, BY FUNCTION, 2018–2025 (USD MILLION)

TABLE 21 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR MINING, BY REGION, 2018–2025 (USD MILLION)

TABLE 22 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR GOVERNMENT, BY FUNCTION, 2018–2025 (USD MILLION)

TABLE 23 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR GOVERNMENT, BY REGION, 2018–2025 (USD MILLION)

TABLE 24 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR HEALTHCARE, BY FUNCTION, 2018–2025 (USD MILLION)

TABLE 25 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR HEALTHCARE, BY REGION, 2018–2025 (USD MILLION)

TABLE 26 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR RETAIL, BY FUNCTION, 2018–2025 (USD MILLION)

TABLE 27 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR RETAIL, BY REGION, 2018–2025 (USD MILLION)

TABLE 28 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR OTHER INDUSTRIES, BY FUNCTION, 2018–2025 (USD MILLION)

TABLE 29 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR OTHER INDUSTRIES, BY REGION, 2018–2025 (USD MILLION)

TABLE 30 GIS MARKET, BY REGION, 2018–2025 (USD MILLION)

TABLE 31 GIS MARKET IN NORTH AMERICA, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 32 GIS MARKET IN NORTH AMERICA, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 33 GIS MARKET FOR AGRICULTURE IN NORTH AMERICA, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 34 GIS MARKET FOR OIL & GAS IN NORTH AMERICA, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 35 GIS MARKET FOR ARCHITECTURE, ENGINEERING, AND CONSTRUCTION IN NORTH AMERICA, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 36 GIS MARKET FOR TRANSPORTATION IN NORTH AMERICA, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 37 GIS MARKET FOR UTILITIES IN NORTH AMERICA, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 38 GIS MARKET FOR MINING IN NORTH AMERICA, BY COUNTRY,

2018–2025 (USD MILLION)

TABLE 39 GIS MARKET FOR GOVERNMENT IN NORTH AMERICA, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 40 GIS MARKET FOR HEALTHCARE IN NORTH AMERICA, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 41 GIS MARKET FOR RETAIL IN NORTH AMERICA, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 42 GIS MARKET FOR OTHER INDUSTRIES IN NORTH AMERICA, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 43 GIS MARKET IN US, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 44 GIS MARKET IN CANADA, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 45 GIS MARKET IN MEXICO, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 46 GIS MARKET IN EUROPE, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 47 GIS MARKET IN EUROPE, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 48 GIS MARKET FOR AGRICULTURE IN EUROPE, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 49 GIS MARKET FOR OIL & GAS IN EUROPE, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 50 GIS MARKET FOR ARCHITECTURE, ENGINEERING, AND CONSTRUCTION IN EUROPE, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 51 GIS MARKET FOR TRANSPORTATION IN EUROPE, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 52 GIS MARKET FOR UTILITIES IN EUROPE, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 53 GIS MARKET FOR MINING IN EUROPE, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 54 GIS MARKET FOR GOVERNMENT IN EUROPE, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 55 GIS MARKET FOR HEALTHCARE IN EUROPE, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 56 GIS MARKET FOR RETAIL IN EUROPE, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 57 GIS MARKET FOR OTHER INDUSTRIES IN EUROPE, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 58 GIS MARKET IN GERMANY, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 59 GIS MARKET IN UK, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 60 GIS MARKET IN FRANCE, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 61 GIS MARKET IN REST OF EUROPE, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 62 GIS MARKET IN APAC, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 63 GIS MARKET IN APAC, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 64 GIS MARKET FOR AGRICULTURE IN APAC, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 65 GIS MARKET FOR OIL & GAS IN APAC, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 66 GIS MARKET FOR ARCHITECTURE, ENGINEERING, AND CONSTRUCTION IN APAC, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 67 GIS MARKET FOR TRANSPORTATION IN APAC, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 68 GIS MARKET FOR UTILITIES IN APAC, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 69 GIS MARKET FOR MINING IN APAC, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 70 GIS MARKET FOR GOVERNMENT IN APAC, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 71 GIS MARKET FOR HEALTHCARE IN APAC, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 72 GIS MARKET FOR RETAIL IN APAC, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 73 GIS MARKET FOR OTHER INDUSTRIES IN APAC, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 74 GIS MARKET IN CHINA, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 75 GIS MARKET IN JAPAN, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 76 GIS MARKET IN INDIA, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 77 GIS MARKET IN REST OF APAC, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 78 GIS MARKET IN ROW, BY REGION, 2018–2025 (USD MILLION)

TABLE 79 GIS MARKET IN ROW, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 80 GIS MARKET FOR AGRICULTURE IN ROW, BY REGION, 2018–2025 (USD MILLION)

TABLE 81 GIS MARKET FOR OIL & GAS IN ROW, BY REGION, 2018–2025 (USD MILLION)

TABLE 82 GIS MARKET FOR ARCHITECTURE, ENGINEERING, AND CONSTRUCTION IN ROW, BY REGION, 2018–2025 (USD MILLION)

TABLE 83 GIS MARKET FOR TRANSPORTATION IN ROW, BY REGION, 2018–2025 (USD MILLION)

TABLE 84 GIS MARKET FOR UTILITIES IN ROW, BY REGION, 2018–2025 (USD MILLION)

TABLE 85 GIS MARKET FOR MINING IN ROW, BY REGION, 2018–2025 (USD MILLION)

TABLE 86 GIS MARKET FOR GOVERNMENT IN ROW, BY REGION, 2018–2025 (USD MILLION)

TABLE 87 GIS MARKET FOR HEALTHCARE IN ROW, BY REGION, 2018–2025 (USD MILLION)

TABLE 88 GIS MARKET FOR RETAIL IN ROW, BY REGION, 2018–2025 (USD MILLION)

TABLE 89 GIS MARKET FOR OTHER INDUSTRIES IN ROW, BY REGION, 2018–2025 (USD MILLION)

TABLE 90 GIS MARKET IN MIDDLE EAST, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 91 GIS MARKET IN AFRICA, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 92 GIS MARKET IN SOUTH AMERICA, BY INDUSTRY, 2018–2025 (USD MILLION)

TABLE 93 PRODUCT LAUNCHES & PRODUCT DEVELOPMENTS, 2018–2020

TABLE 94 MERGERS, ACQUISITIONS, PARTNERSHIPS, AND COLLABORATIONS, 2018–2020

## List Of Figures

### LIST OF FIGURES

- FIGURE 1 SEGMENTATION OF GEOGRAPHIC INFORMATION SYSTEM MARKET
- FIGURE 2 GEOGRAPHIC INFORMATION SYSTEM MARKET: RESEARCH DESIGN
- FIGURE 3 GIS MARKET: BOTTOM-UP APPROACH
- FIGURE 4 GIS MARKET: TOP-DOWN APPROACH
- FIGURE 5 DATA TRIANGULATION
- FIGURE 6 ASSUMPTIONS FOR RESEARCH STUDY
- FIGURE 7 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR SOFTWARE EXPECTED TO HOLD LARGEST MARKET SIZE IN 2025
- FIGURE 8 GEOGRAPHIC INFORMATION SYSTEM MARKET FOR LOCATION-BASED SERVICES TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD
- FIGURE 9 TRANSPORTATION EXPECTED TO HOLD LARGEST SHARE OF GEOGRAPHIC INFORMATION SYSTEM MARKET IN 2025
- FIGURE 10 NORTH AMERICA TO HOLD LARGEST SHARE OF GEOGRAPHIC INFORMATION SYSTEM MARKET IN 2025
- FIGURE 11 INTEGRATION OF GEOSPATIAL TECHNOLOGY WITH EMERGING TECHNOLOGIES TO BOOST GROWTH OF GIS MARKET DURING FORECAST PERIOD
- FIGURE 12 GEOGRAPHICAL INFORMATION SYSTEM MARKET FOR SOFTWARE TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD
- FIGURE 13 MAPPING TO HOLD LARGEST SIZE OF GEOGRAPHICAL INFORMATION SYSTEM MARKET IN 2025
- FIGURE 14 TRANSPORTATION INDUSTRY TO HOLD LARGEST SHARE OF GEOGRAPHICAL INFORMATION SYSTEM MARKET IN NORTH AMERICA IN 2025
- FIGURE 15 NORTH AMERICA EXPECTED TO HOLD MAJOR SHARE OF GEOGRAPHICAL INFORMATION SYSTEM MARKET IN 2025
- FIGURE 16 GEOGRAPHIC INFORMATION SYSTEM MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES
- FIGURE 17 GIS MARKET DRIVERS AND THEIR IMPACT
- FIGURE 18 GIS MARKET OPPORTUNITIES AND THEIR IMPACT
- FIGURE 19 GIS MARKET RESTRAINTS & CHALLENGES AND THEIR IMPACT
- FIGURE 20 VALUE CHAIN ANALYSIS OF GEOGRAPHIC INFORMATION SYSTEM ECOSYSTEM
- FIGURE 21 GEOGRAPHIC INFORMATION SYSTEM MARKET, BY OFFERING
- FIGURE 22 GEOGRAPHIC INFORMATION SYSTEM MARKET, BY HARDWARE



FIGURE 23 GEOGRAPHIC INFORMATION SYSTEM MARKET, BY FUNCTION

FIGURE 24 MAPPING FUNCTION TO HOLD LARGEST SIZE OF GIS MARKET IN 2025

FIGURE 25 GIS MARKET, BY INDUSTRY

FIGURE 26 GIS MARKET FOR TRANSPORTATION TO HOLD LARGEST MARKET SIZE IN 2025

FIGURE 27 GEOGRAPHIC INFORMATION SYSTEM MARKET, BY REGION

FIGURE 28 GEOGRAPHIC INFORMATION SYSTEM MARKET IN APAC TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 29 SNAPSHOT OF GIS MARKET IN NORTH AMERICA

FIGURE 30 SNAPSHOT OF GIS MARKET IN APAC

FIGURE 31 KEY GROWTH STRATEGIES ADOPTED BY COMPANIES FROM 2018 TO 2020

FIGURE 32 RANKING OF KEY PLAYERS IN GIS SOFTWARE MARKET, 2019

FIGURE 33 GIS MARKET (GLOBAL) COMPETITIVE LEADERSHIP MAPPING, 2019

FIGURE 34 AUTODESK: COMPANY SNAPSHOT

FIGURE 35 TRIMBLE: COMPANY SNAPSHOT

FIGURE 36 PITNEY: COMPANY SNAPSHOT

FIGURE 37 HEXAGON: COMPANY SNAPSHOT

FIGURE 38 TOPCON: COMPANY SNAPSHOT

FIGURE 39 MAXAR TECHNOLOGIES: COMPANY SNAPSHOT

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