

Global Geographic Information System Market: Market Segments: By Component (Hardware, Software and Services); By Function (Mapping, Surveying, Telematics and Navigation& Location-Based Services);By Data Type (Cartographic, Photographic, Digital&Tabular); By Project Size (Medium, Small, Large); By Application(Government, Construction, Utilities, Telecommunications, Mining, Agriculture, Aerospace & Defense, Oil & Gas and Others); and Region – Analysis of Market Size, Share & Trends for 2014 – 2019 and Forecasts to 2030

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Abstracts

Product Overview

Recent developments in geospatial technology, such as geo-analytics, combined with the advantages of the GIS system, including cloud integration, have increased the rate of GIS adoption in different applications. The need to see, update, capture, and synchronize the changes between the field and the headquarters has given rise to the need to develop GIS systems, especially in the transport and construction sectors. The geographic information system collects, stores, analyses and maintains geographic data and helps to define and understand spatial relationships and patterns from geographically referenced data. For mapping, accident analysis, re-routing design, transport planning, disaster prevention and mitigation, landslide hazard zoning, navigation, and others, GIS software is used.

Market Highlights

Global Geographic Information System Market: Market Segments: By Component (Hardware, Software and Services);...

Global Geographic Information System Market is expected to project a notable CAGR of XX.X% in 2030.

Global Geographic Information System Market to surpass USD XXXX million by 2030 from USD XXXX million in 2018 at a CAGR of XX% throughout the forecast period, i.e. 2019-30. The growth of the GIS market is driven by the advancement of smart cities and urbanization, the convergence of geospatial technology with conventional business intelligence technologies, the growing investment in modern GIS solutions, and the increasing accessibility of spatial data and cloud technology. In order to obtain useful insights from location-based information, the rising need to combine traditional data with spatial data will provide the geographic information system market with new growth avenues over the forecast timeframe.

Global Geographic Information System Market: Segments

Software Segment to grow with the highest CAGR during 2019-30

Global Geographic Information System Market is segmented by component into hardware, software, and services. The greater market share in 2019 was accounted for by the software segment and is expected to see the highest growth during the forecast period. This will be mainly due to the increasing need for field operations to be mapped, analytics tools to be incorporated, and geographic information to be handled and displayed through dashboards and reports. In addition, the mobile segment is expected to record the fastest growth during the forecast period based on software, due to the growing use of mobile-based geographic information system software and the emphasis on incorporating next-generation technologies, including cloud computing and machine learning (ML) in GIS solutions.

Telematics and Navigation segment to grow with the highest CAGR during 2019-30

Global Geographic Information System Market is segmented by function into Mapping, Surveying, Telematics and navigation, and Location-based Services. Telematics and Navigation are expected to hold a major market share of XX% in 2018 owing to the rising number of connected vehicles, vehicle-generated information such as braking system data, and vehicle diagnostics plays an important role in providing advanced telematics and navigation solutions. Since geoinformatics-related data is used by navigational and telematics systems for tasks such as positioning and vehicle & traffic management, the need for GIS software to assist connected vehicles and autonomous vehicles is likely to increase significantly in the coming years.

Government segment to grow with the highest CAGR during 2019-30

Global Geographic Information System Market is segmented by Applications into Government, Construction, Utilities, Telecommunications, Mining, Agriculture,

Aerospace & Defense, Oil & Gas, and Others. Economic planning, urban and rural planning, and the extraction of knowledge on natural disasters are some of the key applications of the government sector's GIS technology. Although developed-country governments are the key users of technology, developing-country governments are also investing heavily in digital and data-based GIS solutions for urban and rural planning, public health development, and the efficient use of natural resources.

Digital Data segment to grow with the highest CAGR during 2019-30

Global Geographic Information System Market is segmented by Data Type into Cartographic, Photographic, Digital, Tabular. Based on Data Type, the cartographic category accounted for the largest size in the GIS market in 2018. This was largely due to the growing use of geographical maps for better understanding and data analysis. In addition, a cartographic data toolset helps government agencies to manage information generated by Esri Inc. for map creation, including toolsets such as Branding, Elevation, and Magnetic. In addition, during the forecast period, the digital category is expected to witness the fastest growth. This can be due to the growing need to incorporate advanced data analytics tools into GIS applications to allow data-driven decision-making for better analysis and visualization of data.

Global Geographic Information System Market: Market Dynamics

Drivers

Rising Investments by Government Organizations

GIS technologies in disaster management applications, including flood management, forest fire management, carbon management, and climate change, are rapidly being implemented by the industry. Developed-country governments are heavily focused on geographic disaster management information systems. Emergency management agencies use available data in advance to handle a catastrophe or to assess the effects of a potential disaster. Likewise, governments in several countries, such as India, Japan, and China, depend heavily on disaster management technologies based on GIS.

Growing Demand for Enterprise GIS Solutions

For efficient product management and accurate marketing information about customers, modern geographic information systems provide accurate and meaningful business intelligence, which is one of the key drivers contributing to market growth. In order to access geographical data through software applications, companies invest heavily in geographic information systems. Enterprise GIS systems deliver several advantages, such as effective resource sharing, efficient data processing, and enhanced decision-making, enabling businesses to minimize inventory costs, cost of error in the product backlog, and cost of fleet management. The rapid growth of the GIS market is therefore

anticipated in the coming years.

High Cost of Installation

The initial high setup cost of the GIS framework and the non-existence of authentic spatial data is the major factor hindering the growth of this market across the globe. In addition, it has been noted that the construction of a database and the management of the overall GIS framework requires an ample amount of money. As a result, small and medium-sized businesses and emerging-economy governments are not adopting a GIS technique that further limits the growth of the GIS industry.

Global Geographic Information System Market: Key Players

Environmental Systems Research Institute (Esri) Inc.

Company Overview

Business Strategy

Key Product Offerings

Financial Performance

Key Performance Indicators

Risk Analysis

Recent Development

Regional Presence

SWOT Analysis

Hexagon AB

Autodesk Inc.

Schneider Electric SE

General Electric Company

Precisely Incorporated

Maxar Technologies Inc.

Bentley Systems Incorporated

SuperMap Software Co. Ltd.

PASCO CORPORATION.

IQGeo Group plc

Trimble Inc.

Global Geographic Information System Market: Regions

Global Geographic Information System Market is segmented based on regional analysis into five major regions. These include North America, Latin America, Europe, APAC, and MENA.

Global Geographic Information System Market in North America held the largest market share of XX.X% in the year 2018 owing to rapid digitization and high adoption of digital

Systems. In the global GIS market, APAC is expected to be the fastest-growing region. GIS is expected to be used for smart city planning and urban development initiatives as infrastructural growth rise in different countries in the region. China is investing heavily in improving infrastructure and planning for urban areas. This investment will improve the demand for geospatial surveying technologies such as GNSS receivers and GIS collectors in the construction industry. The growth of the construction industry in Japan is generating opportunities in construction processes for the GIS market.

Competitive Landscape:

Global Geographic Information System market, which is highly competitive, consists of several major players. Companies, such as Environmental Systems Research Institute, Inc. (Esri) (US), Hexagon AB (Sweden), Pitney Bowes Inc. (US), hold a substantial market share in the Global Geographic Information System market. Other players analyzed in this report are Autodesk Inc. (US), Trimble Inc. (US), Topcon Corporation (Japan), Hi-Target Surveying Instrument Co. Ltd. (China), Bentley Systems Inc. (US), Caliper Corporation (US), Computer-Aided Development Corporation Ltd. (Cadcorp) (UK), SuperMap Software Co. (China), Harris Corporation (US) among others

Recently, various developments have been taking place in the market. For instance, In March 2020, Esri Inc. announced the release of the Internet of Things (IoT) ArcGIS Analytics to allow users to ingest, visualize, analyze, store and react to large amounts of IoT sensor data. This latest platform allows companies to take advantage of IoT observations, up-to-the-second knowledge, and enhanced understanding of the situation.

Global Geographic Information System Market is further segmented by region into:
North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey and Rest of Europe

APAC Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia, and Rest of APAC

MENA Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa and Rest of MENA

Global Geographic Information System Market report also contains analysis on:

Global Geographic Information System Market Segments:

By Component:

Hardware

GNSS/GPS antennas

Imaging sensors

Total station

LiDAR

GIS collectors

Others

Software

Remote sensing

Desktop

Server

Developer

Mobile

Service

Managed

Professional

Training and consulting

Integration and maintenance

By Function:

Mapping

Surveying

Telematics and navigation

Location-based services

By Data Type:

Cartographic

Photographic

Digital

Tabular

By Project Size:

Medium

Small

Large

By Application:

Government

Construction

Utilities

Telecommunications
Mining
Agriculture
Aerospace & defense
Oil & gas
Others
Geographic Information System Market Dynamics
Geographic Information System Market Size
Supply & Demand
Current Trends/Issues/Challenges
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Value Chain of the Market
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Consultant Recommendation

**The above-given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.

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