

Geographic Information System (GIS) Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Component [Hardware (GIS Collectors, Imaging Sensors, LIDAR, Total Stations, and GNSS or GPS Antennas), Software (Desktop GIS, Server GIS, Developer GIS, Mobile GIS, and Remote Sensing Software), and Services], Function (Mapping, Surveying, Telematics and Navigation, and Location-Based Services), and End User (Agriculture, Oil and Gas, Construction, Mining, Transportation, Energy and Utilities, and Others), and Geography

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Abstracts

The geographic information system (GIS) market size was valued at US\$ 10.27 billion in 2023 and is expected to reach US\$ 19.30 billion by 2031; it is estimated to record a CAGR of 8.2% from 2023 to 2031.

The geographic information system (GIS) market is segmented into five major regions—North America, Europe, Asia Pacific (APAC), the Middle East & Africa (MEA), and South & Central America. North America dominated the market in 2023, followed by Europe and APAC, respectively. The global logistics industry was valued at ~US\$ 9.4 trillion in 2023 and is expected to reach US\$ 9.9 trillion in 2024, with an annual growth rate of 5.3%, according to the United Nations Report in 2022. In the transportation and logistics sector, geographic information system is used for live traffic monitoring and real-

time vehicle tracking. GIS offers monitoring functions using visual display of the spatial data and provides precise geographical real-time positioning of monitored vehicles. Also, GIS mapping solutions are widely used to create new railway routes, roadways, and other transportation routes. Investments in the infrastructure development of roadways and railways across the globe continue to grow rapidly. According to the Global Infrastructure Outlook Report, in 2023, the global transportation infrastructure investment reached US\$ 1.60 trillion. Geographic information system is widely used in the analysis and visualization of spatial data while planning transportation infrastructure and management. It provides several benefits, such as improved efficiency, cost reduction, and safety and sustainability. According to the World Bank Organization, the Global Roads Inventory Project consists of more than 60 geospatial datasets related to road infrastructure. This dataset covers around 222 countries and includes a roadmap of 21?million?km of roads. A geographic information system is used to extract the geospatial data of these countries. Thus, the high demand for real-time location-based services in logistics and transportation and infrastructure sectors boosts the growth of the geographic information system (GIS) market.

The Asia Pacific geographic information system (GIS) market is projected to experience highest growth rate from 2023 to 2030. A rise in infrastructure development projects across Asia Pacific countries such as China, India, Japan, and South Korea is anticipated to propel the growth of construction activities, which will create massive demand for geographic information systems in the coming years. The Government of New Zealand is emphasizing developing the infrastructure network such as water and wastewater systems, road and rail networks, electricity transmission, and telecommunication infrastructure. Growing population and increasing urbanization are a few factors boosting the need to expand and upgrade important infrastructure facilities in the country. The government plans to offer ~US\$ 47 billion for infrastructure development over the coming five years from 2024-2029.

Based on function, the market is segmented into mapping, surveying, telematics and navigation, and location-based services. The mapping segment held the largest geographic information system (GIS) market share, owing to the rising adoption of this function in the logistics and transportation sector. For instance, in October 2023, Altana launched the latest version of its AI-powered Atlas, a map of the global supply chain used by companies and government agencies. Geographic information systems store information with the help of spatial indices that identify the features located in any arbitrary region of a map. GIS is used to map all the locations within a specified radius of a point. Several telematics and logistics companies are launching advanced software solutions that offer navigation and mapping functions. In June 2024, HERE

Technologies, a location data and technology platform, launched the Fleet Optimization software package with a mapping function. This software is designed to improve the operational efficiency and scalability of fleet management operations. The Fleet Optimization software package helps address the critical needs of the transportation and logistics industries.

Autodesk, Inc.; Topcon Positioning Systems, Inc.; Caliper Corporation; SuperMap Software Co., Ltd.; Hexagon AB; Hi-Target; Pitney Bowes Inc.; Maxar Technologies; AmigoCloud, Inc.; Trimble Inc.; Bentley Systems, Incorporated; Cadcorp Limited; Spatialworks Sdn Bhd.; Environmental Systems Research Institute, Inc.; Blue Marble Geographics; Abaco SpA; TomTom International BV; FARO Technologies, Inc.; L3Harris Technologies, Inc.; and Ba?arsoft Information Technologies Inc. are among the key geographic information system (GIS) market players that are profiled in this market study.

The overall geographic information system (GIS) market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the geographic information system (GIS) market size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the geographic information system (GIS) market.

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