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Geographic Information System (GIS) Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Software and Hardware), By Function (Mapping, Surveying, Telematics & Navigation and Location-Based Services), By End User Industry (Agriculture, Construction, Transportation, Utilities, Mining, Oil & Gas and Others), By Region & Competition, 2021-2031F

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Abstracts

The Global Geographic Information System (GIS) Market is projected to expand from USD 15.98 Billion in 2025 to USD 30.82 Billion by 2031, reflecting a Compound Annual Growth Rate (CAGR) of 11.57%. Defined as a technological framework for capturing, storing, manipulating, analyzing, and displaying spatial data, GIS is increasingly essential across various sectors. The market is largely driven by a growing demand for smart city planning and the necessity for effective disaster management systems. Additionally, significant government funding for infrastructure projects and the rising need for location intelligence within the logistics industry act as core pillars supporting the sector's growth.

However, the substantial costs associated with implementing these systems, coupled with complicated data privacy regulations, create considerable barriers that may slow widespread adoption. Despite these challenges, the industry maintains robust momentum and engagement levels. This resilience is illustrated by the World Geospatial Industry Council, which reported a 30% increase in membership in 2024, indicating expanding commercial interest and influence within the global geospatial

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landscape.

Market Driver

The advancement of Smart City initiatives and urban planning serves as a major engine for the geospatial industry, requiring the thorough incorporation of location intelligence into infrastructure development and municipal governance. As urban density increases, planners are turning to GIS frameworks to refine traffic control, utility distribution, and zoning, effectively establishing 'digital twins' that boost operational efficiency. This modernization drive is clearly reflected in local government priorities; the National League of Cities' 'State of the Cities 2024' report from July 2024 notes that infrastructure improvements were a central topic, comprising 24% of mayoral addresses across the country. This trend correlates with a surge in the acquisition of spatial analytics tools to oversee asset lifecycles and facilitate data-led decisions in public works.

Concurrently, the rise of cloud-based geospatial platforms is lowering technical hurdles and hastening the shift toward subscription-based models in the enterprise landscape. By transitioning from expensive on-premise setups to scalable Software-as-a-Service (SaaS) architectures, vendors are fostering real-time collaboration and granting wider access to sophisticated spatial data. This shift towards recurring revenue is significant; in November 2024, Bentley Systems reported in their third-quarter results that subscription revenues rose by 12% year-over-year, making up 91% of their total revenue. This structural evolution stabilizes cash flow and highlights the sector's economic importance, with the UK Government estimating in 2024 that the domestic geospatial sector generates at least ?6 billion annually.

Market Challenge

The substantial expense involved in system implementation constitutes a major obstacle to the growth of the GIS market. This financial load extends well beyond the upfront costs of proprietary software licenses and specialized hardware to include significant ongoing expenditures for maintenance, data acquisition, and the recruitment of skilled personnel to handle complex spatial data. For many small and medium-sized enterprises (SMEs) and local governments, these high capital requirements make the technology unattainable, effectively restricting market access to only those organizations with robust funding.

This economic difficulty is further aggravated by the need for highly specialized human

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capital. Organizations are compelled to dedicate large portions of their budgets to attracting professionals who possess the technical skills necessary to operate and analyze geographic information systems efficiently. According to the Geospatial Professional Network, the average annual salary for geospatial professionals reached $91,774 in 2024. This high compensation standard indicates a shortage of qualified talent and significantly increases the total cost of ownership for GIS solutions, forcing budget-conscious entities to postpone or reduce their adoption of location intelligence technologies.

Market Trends

The convergence of Artificial Intelligence and GeoAI for predictive analytics is fundamentally transforming the market by automating intricate spatial analyses and improving the accuracy of decision-making processes. GIS platforms are increasingly incorporating machine learning algorithms to execute tasks such as feature extraction, pattern recognition, and land-cover classification at speeds that manual processing cannot match. This technological blend enables organizations to forecast environmental shifts and refine asset management with high precision. Industry trust in these automated tools is growing rapidly; in the April 2024 'State of Design & Make Report' by Autodesk, 76% of professionals expressed confidence in AI for their sector, signaling a broad willingness to utilize intelligent tools for spatial challenges.

Simultaneously, the widespread adoption of mobile GIS applications for field data collection is revolutionizing remote operations by creating seamless links between field teams and central databases. Contemporary mobile solutions are superseding paper-based methods with digital tools that facilitate real-time data entry, ensuring spatial records are kept up-to-date and accessible throughout the organization. This transition to connected fieldwork minimizes errors and speeds up project completion by enabling the immediate synchronization of survey data. The necessity for persistent connectivity is clear; Trimble's 'State of the Geospatial Industry Report' from July 2024 revealed that 26% of respondents connect to the internet while in the field at least 90% of the time, underscoring the vital role of mobile network integration in modern geospatial workflows.

Key Market Players

Esri Inc.

Hexagon AB

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Trimble Inc.

Autodesk, Inc.

Bentley Systems, Incorporated

HERE Technologies

Pitney Bowes Inc.

SuperMap Software Co., Ltd.

TomTom International BV

GeoDigital International, Inc.

Report Scope

In this report, the Global Geographic Information System (GIS) Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Geographic Information System (GIS) Market, By Component

Software and Hardware

Geographic Information System (GIS) Market, By Function

Mapping

Surveying

Telematics & Navigation and Location-Based Services

Geographic Information System (GIS) Market, By End User Industry

Agriculture

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- Construction
- Transportation
- Utilities
- Mining
- Oil & Gas and Others

Geographic Information System (GIS) Market, By Region

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - France
  - United Kingdom
  - Italy
  - Germany
  - Spain
- Asia Pacific
  - China
  - India

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Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Geographic Information System (GIS) Market.

Available Customizations:

Global Geographic Information System (GIS) Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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