

Global Geographic Information System Market Size Study, by Offering, by Function, by Industry, and Regional Forecasts 2022-2032

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Abstracts

The Global Geographic Information System (GIS) Market was valued at approximately USD 12.77 billion in 2023 and is projected to grow at a compound annual growth rate (CAGR) of 12% from 2024 to 2032. GIS technology has emerged as a critical enabler of spatial analysis and location intelligence, empowering businesses and governments to make data-driven decisions with pinpoint accuracy. As digital transformation accelerates, organizations are increasingly harnessing GIS-powered mapping, surveying, and spatial analytics to optimize operations, enhance efficiency, and drive strategic growth.

The surging adoption of cloud-based GIS solutions, coupled with advances in artificial intelligence (AI) and machine learning (ML), is reshaping the industry landscape. From smart city initiatives to precision agriculture and disaster management, GIS applications have expanded across multiple sectors. Moreover, the proliferation of Internet of Things (IoT) devices, 5G connectivity, and geospatial analytics is fueling demand for real-time data visualization and predictive modeling. Industries such as transportation, energy, defense, and urban planning are integrating GIS to streamline logistics, mitigate risks, and optimize resource allocation. However, high deployment costs and data security concerns remain key hurdles to broader adoption.

A significant driver of market growth is government investment in geospatial infrastructure. National agencies are leveraging GIS for land use planning, environmental monitoring, and infrastructure development, further strengthening the market's trajectory. Additionally, the increasing use of GIS in healthcare and epidemiology, especially in tracking infectious diseases and healthcare accessibility, is expanding its role beyond traditional applications. Meanwhile, the integration of

geospatial AI and cloud-based GIS platforms is enhancing data interoperability and accessibility, providing organizations with deeper geospatial insights for decision-making.

Geographically, North America dominates the GIS market, owing to strong government initiatives, extensive urban planning projects, and early adoption of cutting-edge geospatial technologies in the United States and Canada. Europe follows closely, with growing investments in smart infrastructure and climate monitoring initiatives, particularly in the UK, Germany, and France. However, Asia-Pacific (APAC) is anticipated to witness the fastest growth, driven by expanding smart city projects, increasing demand for agricultural GIS solutions, and rising technological investments in countries such as China, India, and Japan.

Major Market Players Included in This Report

Esri

Hexagon AB

Trimble Inc.

Bentley Systems, Incorporated

Google LLC

Autodesk, Inc.

Oracle Corporation

General Electric Company

SAP SE

Pitney Bowes Inc.

HERE Technologies

TomTom N.V.

L3Harris Technologies, Inc.

Blue Marble Geographics

SuperMap Software Co., Ltd.

The Detailed Segments and Sub-Segments of the Market Are Explained Below:

By Offering:

Hardware

- o GIS Collector

- o Total Station

- o LiDAR

Software

Services

By Function:

Mapping

Surveying

Telematics and Navigation

Location-Based Services

By Industry:

Agriculture

Oil & Gas

Government & Public Sector

Transportation & Logistics

Utilities

Healthcare

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years Considered for the Study:

Historical Year: 2022

Base Year: 2023

Forecast Period: 2024 to 2032

Key Takeaways:

Market estimates & forecasts spanning a decade (2022-2032)

Annualized revenue analysis and regional-level assessments for each market segment

Comprehensive country-level analysis across major geographic regions

In-depth competitive landscape profiling, detailing key market players and their strategic developments

Expert business recommendations and insights into the competitive structure

Demand-side and supply-side analysis to determine market growth dynamics

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