

Satellite Analytics Market Forecasts to 2032 – Global Analysis By Type (Descriptive Analytics, Prescriptive Analytics, and Predictive Analytics), Offering, Deployment Mode, Technology, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Satellite Analytics Market is accounted for \$3.30 billion in 2025 and is expected to reach \$10.52 billion by 2032 growing at a CAGR of 18.0% during the forecast period. Satellite analytics involves the extraction and interpretation of data captured by satellites to provide valuable insights for different sectors. This process includes analyzing satellite imagery and sensor outputs to observe environmental patterns, oversee infrastructure, improve agricultural practices, and assist in disaster response and defense activities. Using advanced tools like artificial intelligence and machine learning, satellite analytics supports timely decision-making, improves efficiency, and contributes to strategic initiatives across governmental and commercial domains.

According to the Population Reference Bureau, the global urbanization rate reached 57% in 2023, with North America, Latin America, and the Caribbean leading with over four-fifths of their populations residing in urban areas.

Market Dynamics:

Driver:

Rising demand for real-time geospatial insights

Public agencies, defense forces, and private enterprises increasingly rely on satellite-

derived insights for rapid decision-making. Use cases such as emergency response, infrastructure development, and smart farming require timely access to detailed imagery. The emergence of small satellites has made real-time data more affordable and widespread. Advanced analytics powered by AI and machine learning are enhancing the speed and accuracy of data interpretation. As organizations seek faster situational awareness, the appetite for real-time satellite analytics continues to grow.

Restraint:

Limited availability of skilled professionals

Expertise in remote sensing, GIS, and AI is essential but remains scarce across many regions. This talent gap hampers innovation and slows the deployment of advanced analytics solutions. Educational institutions and training programs have yet to fully meet industry demand. Companies often face difficulties in hiring individuals who can integrate technical and domain-specific knowledge. Without sufficient human capital, scaling satellite analytics platforms becomes increasingly difficult.

Opportunity:

Integration with cloud computing and big data platforms

The integration of satellite analytics with cloud computing and big data platforms is unlocking new possibilities. Cloud services provide scalable infrastructure for storing and processing vast amounts of satellite imagery. Big data tools enable deeper analysis, trend detection, and predictive capabilities across sectors. This technological convergence supports applications in environmental tracking, logistics optimization, and urban development. Open APIs and collaborative frameworks are fostering innovation and cross-sector partnerships. As digital ecosystems evolve, cloud-enabled satellite analytics will become a cornerstone of intelligent decision-making.

Threat:

Cybersecurity risks and vulnerabilities

As satellite analytics systems become more interconnected, they face increasing cybersecurity threats. Breaches in satellite data can jeopardize national security, disrupt operations, and violate data privacy laws. The adoption of cloud and IoT technologies

introduces new vulnerabilities. Operators must implement strong encryption, secure communication protocols, and real-time monitoring to mitigate risks. Navigating diverse regulatory environments adds complexity to cybersecurity strategies. Without robust protection measures, trust in satellite analytics platforms may erode, hindering market growth.

Covid-19 Impact:

The pandemic disrupted satellite production and launch timelines, affecting data availability in the short term. However, it also accelerated the use of satellite analytics for health monitoring, logistics, and environmental assessment. Governments and organizations turned to remote sensing to track movement patterns, pollution levels, and supply chain dynamics. The crisis emphasized the importance of scalable, remote-access geospatial tools. Post-pandemic, investment in satellite analytics increased, with a focus on resilience and digital infrastructure.

The descriptive analytics segment is expected to be the largest during the forecast period

The descriptive analytics segment is expected to account for the largest market share during the forecast period, due to its ability to summarize vast satellite datasets into actionable insights. It plays a crucial role in analyzing historical trends in land use, climate, and infrastructure. Key sectors such as agriculture and defense rely on these tools for strategic planning. The segment benefits from user-friendly dashboards and visualization platforms. As satellite data becomes more detailed, descriptive analytics will be essential for contextual interpretation. Its simplicity and utility make it a foundational component of satellite data services.

The environmental monitoring segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the environmental monitoring segment is predicted to witness the highest growth rate, driven by global sustainability efforts and climate-related concerns. Satellite analytics are increasingly used to observe deforestation, pollution, water resources, and wildlife habitats. Governments and environmental organizations are investing in these tools to meet regulatory and conservation goals. Real-time data supports disaster preparedness and ecological management. AI-powered analytics enhance forecasting and anomaly detection capabilities. With rising environmental awareness, this segment is poised for rapid expansion.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share. Countries such as China, India, and Japan are heavily investing in satellite technologies and geospatial analytics. Applications range from agriculture and urban planning to national security. Supportive government policies and a thriving tech ecosystem are fueling growth. Environmental initiatives and smart city projects are major contributors to adoption. The region's diverse geography and development needs make it a prime candidate for satellite analytics deployment.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR. The U.S. remains a frontrunner in satellite innovation, backed by strong institutional and private sector support. Adoption of AI, cloud platforms, and high-resolution imaging is accelerating across industries. Major growth areas include defense, agriculture, and energy. Regulatory clarity and substantial R&D funding create a favorable environment for expansion. North America's commitment to digital transformation and sustainability will continue to drive market momentum.

Key players in the market

Some of the key players in Satellite Analytics Market include Maxar Technologies, GeoOptics, Planet Labs, Thales Group, Spire Global, IBM, Orbital Insight, Esri, Descartes Labs, BAE Systems, Capella Space, L3Harris Technologies, Satellogic, Northrop Grumman, BlackSky, Lockheed Martin, Airbus Defence and Space, and ICEYE.

Key Developments:

In July 2025, TAU Systems announced the collaboration with solid-state laser producer Thales. The collaboration leverages Thales' expertise in high peak power laser systems and TAU Systems' innovation in laser-driven particle acceleration. The collaboration will see the two pioneering companies offer for the first-time complete commercial laser-driven particle and radiation sources.

In July 2025, Planet Labs PBC announced a new six-figure contract with Farmdar, a global agriculture technology company. Through this contract, Farmdar will have access

to Planet's deep archive of PlanetScope data, including Planet Basemaps, to inform its crop insights platform.

In June 2025, Maxar Intelligence announced a strategic partnership with Saab to jointly develop next-generation multi-domain battlespace solutions, with a specific focus on advanced space-based C5ISR systems for the digital battlefield and GPS resilience for autonomous drone systems. These solutions will help Europe accelerate the development of more advanced sovereign space-based capabilities.

Types Covered:

Descriptive Analytics

Prescriptive Analytics

Predictive Analytics

Offerings Covered:

Software

Services

Deployment Modes Covered:

On-Premise

Cloud-Based

Technologies Covered:

Remote Sensing

AI and Machine Learning

Big Data and 4D GIS Applications

Applications Covered:

Defense and Security

Energy and Utilities

Agriculture and Forestry

Oil and Gas

Environmental Monitoring

Urban Planning

Disaster Management

Maritime and Transportation

Insurance and Finance

Other Applications

End Users Covered:

Government & Military

Commercial Enterprises

Environmental Agencies

Research and Academia

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Technology Analysis
- 3.7 Application Analysis
- 3.8 End User Analysis
- 3.9 Emerging Markets
- 3.10 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL SATELLITE ANALYTICS MARKET, BY TYPE

- 5.1 Introduction
- 5.2 Descriptive Analytics
- 5.3 Prescriptive Analytics
- 5.4 Predictive Analytics

6 GLOBAL SATELLITE ANALYTICS MARKET, BY OFFERING

- 6.1 Introduction
- 6.2 Software
- 6.3 Services
 - 6.3.1 Image Analysis
 - 6.3.2 Data Interpretation & Decision Support
 - 6.3.3 Monitoring & Forecasting Services

7 GLOBAL SATELLITE ANALYTICS MARKET, BY DEPLOYMENT MODE

- 7.1 Introduction
- 7.2 On-Premise
- 7.3 Cloud-Based

8 GLOBAL SATELLITE ANALYTICS MARKET, BY TECHNOLOGY

- 8.1 Introduction
- 8.2 Remote Sensing
- 8.3 AI and Machine Learning
- 8.4 Big Data and 4D GIS Applications

9 GLOBAL SATELLITE ANALYTICS MARKET, BY APPLICATION

- 9.1 Introduction
- 9.2 Defense and Security
- 9.3 Energy and Utilities
- 9.4 Agriculture and Forestry
- 9.5 Oil and Gas
- 9.6 Environmental Monitoring
- 9.7 Urban Planning

- 9.8 Disaster Management
- 9.9 Maritime and Transportation
- 9.10 Insurance and Finance
- 9.11 Other Applications

10 GLOBAL SATELLITE ANALYTICS MARKET, BY END USER

- 10.1 Introduction
- 10.2 Government & Military
- 10.3 Commercial Enterprises
- 10.4 Environmental Agencies
- 10.5 Research and Academia

11 GLOBAL SATELLITE ANALYTICS MARKET, BY GEOGRAPHY

- 11.1 Introduction
- 11.2 North America
 - 11.2.1 US
 - 11.2.2 Canada
 - 11.2.3 Mexico
- 11.3 Europe
 - 11.3.1 Germany
 - 11.3.2 UK
 - 11.3.3 Italy
 - 11.3.4 France
 - 11.3.5 Spain
 - 11.3.6 Rest of Europe
- 11.4 Asia Pacific
 - 11.4.1 Japan
 - 11.4.2 China
 - 11.4.3 India
 - 11.4.4 Australia
 - 11.4.5 New Zealand
 - 11.4.6 South Korea
 - 11.4.7 Rest of Asia Pacific
- 11.5 South America
 - 11.5.1 Argentina
 - 11.5.2 Brazil
 - 11.5.3 Chile

- 11.5.4 Rest of South America
- 11.6 Middle East & Africa
 - 11.6.1 Saudi Arabia
 - 11.6.2 UAE
 - 11.6.3 Qatar
 - 11.6.4 South Africa
 - 11.6.5 Rest of Middle East & Africa

12 KEY DEVELOPMENTS

- 12.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 12.2 Acquisitions & Mergers
- 12.3 New Product Launch
- 12.4 Expansions
- 12.5 Other Key Strategies

13 COMPANY PROFILING

- 13.1 Maxar Technologies
- 13.2 GeoOptics
- 13.3 Planet Labs
- 13.4 Thales Group
- 13.5 Spire Global
- 13.6 IBM
- 13.7 Orbital Insight
- 13.8 Esri
- 13.9 Descartes Labs
- 13.10 BAE Systems
- 13.11 Capella Space
- 13.12 L3Harris Technologies
- 13.13 Satellogic
- 13.14 Northrop Grumman
- 13.15 BlackSky
- 13.16 Lockheed Martin
- 13.17 Airbus Defence and Space
- 13.18 ICEYE

List Of Tables

LIST OF TABLES

Table 1 Global Satellite Analytics Market Outlook, By Region (2024-2032) (\$MN)

Table 2 Global Satellite Analytics Market Outlook, By Type (2024-2032) (\$MN)

Table 3 Global Satellite Analytics Market Outlook, By Descriptive Analytics (2024-2032) (\$MN)

Table 4 Global Satellite Analytics Market Outlook, By Prescriptive Analytics (2024-2032) (\$MN)

Table 5 Global Satellite Analytics Market Outlook, By Predictive Analytics (2024-2032) (\$MN)

Table 6 Global Satellite Analytics Market Outlook, By Offering (2024-2032) (\$MN)

Table 7 Global Satellite Analytics Market Outlook, By Software (2024-2032) (\$MN)

Table 8 Global Satellite Analytics Market Outlook, By Services (2024-2032) (\$MN)

Table 9 Global Satellite Analytics Market Outlook, By Image Analysis (2024-2032) (\$MN)

Table 10 Global Satellite Analytics Market Outlook, By Data Interpretation & Decision Support (2024-2032) (\$MN)

Table 11 Global Satellite Analytics Market Outlook, By Monitoring & Forecasting Services (2024-2032) (\$MN)

Table 12 Global Satellite Analytics Market Outlook, By Deployment Mode (2024-2032) (\$MN)

Table 13 Global Satellite Analytics Market Outlook, By On-Premise (2024-2032) (\$MN)

Table 14 Global Satellite Analytics Market Outlook, By Cloud-Based (2024-2032) (\$MN)

Table 15 Global Satellite Analytics Market Outlook, By Technology (2024-2032) (\$MN)

Table 16 Global Satellite Analytics Market Outlook, By Remote Sensing (2024-2032) (\$MN)

Table 17 Global Satellite Analytics Market Outlook, By AI and Machine Learning (2024-2032) (\$MN)

Table 18 Global Satellite Analytics Market Outlook, By Big Data and 4D GIS Applications (2024-2032) (\$MN)

Table 19 Global Satellite Analytics Market Outlook, By Application (2024-2032) (\$MN)

Table 20 Global Satellite Analytics Market Outlook, By Defense and Security (2024-2032) (\$MN)

Table 21 Global Satellite Analytics Market Outlook, By Energy and Utilities (2024-2032) (\$MN)

Table 22 Global Satellite Analytics Market Outlook, By Agriculture and Forestry (2024-2032) (\$MN)

Table 23 Global Satellite Analytics Market Outlook, By Oil and Gas (2024-2032) (\$MN)

Table 24 Global Satellite Analytics Market Outlook, By Environmental Monitoring (2024-2032) (\$MN)

Table 25 Global Satellite Analytics Market Outlook, By Urban Planning (2024-2032) (\$MN)

Table 26 Global Satellite Analytics Market Outlook, By Disaster Management (2024-2032) (\$MN)

Table 27 Global Satellite Analytics Market Outlook, By Maritime and Transportation (2024-2032) (\$MN)

Table 28 Global Satellite Analytics Market Outlook, By Insurance and Finance (2024-2032) (\$MN)

Table 29 Global Satellite Analytics Market Outlook, By Other Applications (2024-2032) (\$MN)

Table 30 Global Satellite Analytics Market Outlook, By End User (2024-2032) (\$MN)

Table 31 Global Satellite Analytics Market Outlook, By Government & Military (2024-2032) (\$MN)

Table 32 Global Satellite Analytics Market Outlook, By Commercial Enterprises (2024-2032) (\$MN)

Table 33 Global Satellite Analytics Market Outlook, By Environmental Agencies (2024-2032) (\$MN)

Table 34 Global Satellite Analytics Market Outlook, By Research and Academia (2024-2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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