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Satellite-based Earth Observation Market Report by Solution (Data, Value Added Services), End User (Defense and Intelligence, Infrastructure and Engineering, Agriculture, Energy and Power, and Others), and Region 2024-2032

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Abstracts

The global satellite-based earth observation market size reached US$ 3.5 Billion in 2023. Looking forward, IMARC Group expects the market to reach US$ 5.6 Billion by 2032, exhibiting a growth rate (CAGR) of 5.3% during 2024-2032.

Satellite-based earth observation involves gathering vital information pertaining to the physical, chemical, and biological systems of the Earth using remote sensing technologies and surveying techniques. The information is used to predict climate patterns, weather changes, disasters, natural calamities, oil and mineral deposits, and the availability of water resources. Nowadays, several organizations across the globe are relying on satellite-based earth observation systems to gain accurate and valuable insights for data analytics.

Satellite-based Earth Observation Market Trends:
Governments of numerous economies are encouraging the adoption of smart and precision farming practices on account of the declining arable land and rising food security concerns. This represents one of the key factors expanding the application of satellite-based earth observation systems in information-guided agriculture. Moreover, as forest covers play a vital role in protecting people and infrastructure against natural hazards, such as avalanches, landslides, and rockfalls, forest degradation is catalyzing the need for satellite-based earth observation for the sustainable management of protected forest areas. Apart from this, satellite-based earth observation is gaining traction in sustainable urban planning and rural development as it provides high-

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resolution satellite imagery data that helps in monitoring urban change processes. Besides this, extensive utilization of high-accuracy datasets in defense and intelligence for land surveillance activities, airfields monitoring, critical infrastructure protection, and crime mapping is contributing to the market growth. Furthermore, space-based technologies are crucial in the aerospace industry to support and increase the safety and efficiency of international civilian air traffic. This, in confluence with the growing passenger air traffic, is influencing the market positively. Additionally, the emerging trend of automated self-driving vehicles is anticipated to drive the adoption of satellite-based earth observation systems in cars for navigation and other applications.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each sub-segment of the global satellite-based earth observation market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on solution and end user.

Breakup by Solution:

Data
Value Added Services

Breakup by End User:

Defense and Intelligence
Infrastructure and Engineering
Agriculture
Energy and Power
Others

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea

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Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:
The competitive landscape of the industry has also been examined along with the profiles of the key players being Airbus SE, BAE Systems plc, GeoOptics Inc., ImageSat International N.V., L3Harris Technologies Inc., Lockheed Martin Corporation, Maxar Technologies Inc., Northrop Grumman Corporation, OHB System AG (OHB SE), Planet Labs PBC, Raytheon Technologies Corporation and Thales Group.

Key Questions Answered in This Report

1. How big is the global satellite-based earth observation market?
2. What is the expected growth rate of the global satellite-based earth observation market during 2024-2032?
3. What are the key factors driving the global satellite-based earth observation market?
4. What has been the impact of COVID-19 on the global satellite-based earth observation market?
5. What is the breakup of the global satellite-based earth observation market based on the solution?
6. What is the breakup of the global satellite-based earth observation market based on the end user?
7. What are the key regions in the global satellite-based earth observation market?
8. Who are the key players/companies in the global satellite-based earth observation market?

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Contents

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7 MARKET BREAKUP BY END USER

8 MARKET BREAKUP BY REGION

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