Space Debris Monitoring and Removal Market to Grow from $976 Million (2022) to $2.01 Billion (2032), at 7.7% CAGR

WILMINGTON, NEW CASTLE, DE, UNITED STATES, July 7, 2025 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, “Space Debris Monitoring and Removal Market," The space debris monitoring and removal market was valued at $976.00 million in 2022, and is estimated to reach $2,010.3 million by 2032, growing at a CAGR of 7.7% from 2023 to 2032.

Space Debris Monitoring and Removal Market

The commercial space sector is witnessing unprecedented growth, with satellite constellations for broadband internet, earth observation, and space tourism. This trend drives the demand for space debris monitoring and collision avoidance. Innovations in sensors, tracking systems, artificial intelligence, and robotics are reshaping the space debris monitoring and removal landscape, offering effective solutions. Moreover, defense organizations are keen to protect mission-critical assets in space, enhancing the demand for advanced monitoring systems.

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The global market for space debris monitoring and removal is influenced by several factors. The rise in volume of space debris, known as space junk, poses a significant threat to operational satellites and spacecraft. Consequently, there is a growing need for monitoring and removal efforts to mitigate this risk. The exponential increase in satellite constellations, particularly in sectors like communication and earth observation, further underscores the importance of space debris management. This expanding satellite infrastructure demands effective monitoring to safeguard these valuable assets.

Governments and space agencies worldwide are actively engaging in the development of strategies and technologies to address the space debris challenge. Their proactive involvement

contributes to the growth of the space debris monitoring and removal market.

Moreover, the ongoing development of advanced technologies, including more efficient methods for debris removal, offers promising prospects for the market. These innovations are likely to enhance the effectiveness of space debris management.

The rise of space tourism introduces a higher volume of suborbital and orbital flights, both crewed and uncrewed. The risk of collisions with space debris becomes a pressing concern with more spacecraft entering and exiting Earth's atmosphere. The growth of space tourism amplifies the importance of accurate space debris monitoring to ensure passenger safety.

Popular suborbital tourism ventures, as well as orbital tourism missions, contribute to orbital congestion. Over time, this congestion can escalate the risk of in-space collisions. Space debris tracking becomes essential to navigate spacecraft safely through congested regions and minimize the risk to space tourists.

Regulatory agencies, like the Federal Aviation Administration (FAA) in the United States, require space tourism operators to adhere to strict safety guidelines. These guidelines includes collision avoidance procedures and the ability to assess and mitigate space debris risks. Compliance with these regulations provides an opportunity for companies that offer space debris monitoring and removal solutions to become integral to space tourism operations. Therefore, the growing demand for space tourism creates significant opportunities for the space debris monitoring and removal market.

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Advanced technologies, such as high-resolution imaging satellites, ground-based radar systems, and advanced data analytics, can significantly enhance the detection and tracking of space debris. Higher-resolution imaging allows for better characterization of objects in space, while improved radar systems enable more accurate and real-time monitoring. This technological progress enables space agencies, governments, and commercial entities to better understand the spatial distribution of debris and plan maneuvers to avoid collisions.

AI and ML algorithms have the potential to revolutionize space debris monitoring. These technologies can process vast amounts of data and identify potential collision risks or trends in space debris movement. By automating the analysis of space debris data, AI systems can provide timely warnings and help optimize collision avoidance maneuvers.

COVID-19 Impact Analysis :

The pandemic led to significant disruptions in the supply chains, affecting the production and deployment of satellites, sensors, and technologies related to space debris monitoring and

removal. Delays in the manufacturing and transportation of critical components have impacted the timelines of projects in this market. The pandemic accelerated the development and deployment of remote sensing technologies, which are integral to space debris monitoring. The demand for remote monitoring, data analysis, and predictive modeling increased, further highlighting the need for advanced technology in this market.

Key Findings Of The Study :

By activity, the space debris removal segment is anticipated to exhibit significant growth in the future.

By debris size, the 1 cm to 10 cm segment is anticipated to exhibit significant growth in the future.

By orbit, the LEO segment is anticipated to exhibit significant growth in the future.

By region, Asia-Pacific is anticipated to register the highest CAGR during the forecast period.

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The key players profiled in the global space debris monitoring and removal market include Obruta Space Solutions Corp., Lockheed Martin Corporation, Northrop Grumman, Share My Space SAS, Astroscale, Electro Optic Systems, OrbitGuardians, Voyager Space Holdings Inc., ClearSpace, and Airbus SE.

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