

Space Situational Awareness (SSA) Market Opportunity Analysis and Industry Forecast, 2021–2030

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PORTLAND, OR, UNITED STATES, December 17, 2021 /EINPresswire.com/ -- Space Situational Awareness (SSA) is an intriguing concept that revolves around monitoring and understanding the near-Earth environment, encompassing existing and predictive knowledge regarding natural and man-made objects within the Earth's orbit. Moreover, threats such as orbital collisions between natural or man-made debris, and intentional or unintentional attacks on space assets such as satellites can be avoided with the help of this system. The near-Earth space extends to the Earth-radius of more than 100,000 km to cover all man-made objects in the orbit. Furthermore, the data collected helps the organizers, administrators, chiefs, and authorities in acquiring and keeping up space predominance by impeding clashes and expected impacts. SSA covers space traffic management and space safety programs which includes services planned to assist satellite operators in preventing physical or operational errors. In addition, SSA tracks space bodies that may interfere with a specific orbit circle while anticipating their situations ahead of time for preventing impact with satellites. SSA is segregated into three assistance fragments including space surveillance & tracking of various objects within the Earth's orbit, space weather, and near-Earth objects.

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Major Market Players:

Lockheed Martin Corporation, L3Harris Technologies Inc., Vision Engineering Solutions LLC, Analytical Graphics Inc., Kratos Defense & Security Solutions Inc., ExoAnalytic Solutions, SpaceNav, NorthStar Earth & Space Inc., GlobVision Inc., and Etamax Space GmbH

Continuous addition of newly designed space systems and spacefaring entities, along with the presence of hazardous debris, is resulting in a complex and congested space environment. For instance, according to European Space Agency (ESA), in almost 60 years of space activities, more than 6,050 launches have resulted in about 56,450 tracked objects in orbit, of which about 28,160 remain in space. Thus, space congestion of satellites is increasing at fast rate as the space agencies across world are continuously launching new satellites every year, in 2020 about 1,283 satellites were launched. This increase in space congestion leads to the requirement of enhanced space situational awareness capabilities for satellite operators and government

agencies to effectively respond to the changing nature of space operations. Thus, rise in space congestion is expected to drive growth of space situational awareness (SSA) market.

Space is progressively recognized as a sector of strategic importance for national security. There is an increase in number of countries to use space for safety, national security, science, and others. Currently, 80 countries are active in the space domain. The congestion in space is directing organizations across various countries to collaborate and ensure the sustainability & safety for space activities. For instance, in October 2020, India expanded collaboration with the U.S to improve its SSA capabilities. Moreover, in December 2020, the Indian Space Research Organization (ISRO) set up a dedicated SSA centre in Bangalore for working on the project Network for Space Object Tracking and Analysis (NETRA).

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Questions answered in the space situational awareness (SSA) market research report:

- Which are the leading market players active in the space situational awareness (SSA) market?
- What would be the detailed impact of COVID-19 on the market?
- What current trends would influence the market in the next few years?
- What are the driving factors, restraints, and opportunities in the space situational awareness (SSA) market?
- What are the projections for the future that would help in taking further strategic steps?

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