

Cosmic Infrastructure Maintenance Market to Expand at a 11.3% CAGR by 2029, Reaching US \$13.85 Billion

The Business Research Company's Cosmic Infrastructure Maintenance Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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/EINPresswire.com/ -- How Much Is The [Cosmic Infrastructure Maintenance Market](#) Worth?

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The [cosmic infrastructure maintenance market size](#) has seen a fast-paced surge in recent years. It is projected to climb from a value of \$8.07 billion in 2024 to \$9.01 billion in 2025, representing

a compound annual growth rate (CAGR) of 11.6%. This growth during the historical period is primarily due to the increased dependence on satellite-based communication systems, the surge in the government's investment into space infrastructure, the broadening usage of earth observation platforms, the increase in satellite malfunctions in orbit, and the amplifying understanding of the threats posed by space debris.



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The market size for cosmic infrastructure maintenance is predicted to experience a swift expansion in the upcoming

years. An estimate places this growth at \$13.85 billion by 2029, with a compound annual growth rate (CAGR) of 11.4%. This predicted upsurge during the forecast period can be linked to factors such growing commercialization of space, an increased number of mega-constellations needing maintenance, escalating demand for sustainable and reusable space assets, global regulatory frameworks advocating for safe space operations, and heightened aspirations for space exploration beyond the low Earth orbit. Key trends likely to be seen during this period include advancements in independent robotic servicing technologies, the creation of modular and serviceable satellite designs, the implementation of artificial intelligence for predictive

maintenance, the shrinking of in-orbit diagnostic tools, and progress in in-space additive manufacturing abilities.

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What Are The Factors Driving The Cosmic Infrastructure Maintenance Market?

The increase in orbital debris is anticipated to fuel the expansion of the cosmic infrastructure maintenance market in the future. Space debris or orbital debris comprises non-functional human-made items in Earth's orbit, like defunct satellites, exhausted rocket stages, and fragments from disintegration events or collisions. The amplification of space debris is mainly attributed to the swift proliferation of satellite deployments, particularly in low Earth orbit, coupled with minimal compliance to post-mission disposal protocols and a rising number of in-orbit collisions. Cosmic infrastructure maintenance plays a pivotal role in addressing this problem, by facilitating active debris tracking, in-orbit servicing, and end-of-life satellite removal. It increases orbital safety and guarantees the long-term sustainability of space activities. For example, the European Space Agency (ESA), a France-based intergovernmental organization, stated in July 2024 that orbiting space debris is proliferating at an alarming rate, with 35,000 objects currently tracked. Out of these, 26,000 are debris over 10 cm and 9,100 are active payloads. The year 2023 witnessed a record-breaking number of satellite launches, contributing mainly to dense commercial constellations, with over 6,000 active satellites concentrated between 500 and 600 km altitude. Consequently, the increase in space debris is propelling the growth of the cosmic infrastructure maintenance market.

Who Are The Major Players In The Cosmic Infrastructure Maintenance Market?

Major players in the Cosmic Infrastructure Maintenance Global Market Report 2025 include:

- RTX Corporation
- The Boeing Company
- Airbus SE
- Mitsubishi Electric Corporation
- Northrop Grumman Corporation
- Honeywell Aerospace
- BAE Systems plc
- Safran S.A.
- Thales Group
- Leonardo S.p.A.

What Are The Key Trends And Market Opportunities In The Cosmic Infrastructure Maintenance Sector?

Leading firms in the cosmic infrastructure maintenance market are prioritizing the development of innovative solutions, like orbital service vehicles, to facilitate enduring orbital viability. Designed to carry out a variety of in-orbit support tasks such as satellite upkeep, refueling, repositioning, and end-of-life management, orbital service vehicles are key for maintaining and extending the capabilities of space infrastructure. In a practical example, Australia's Space Machines Company, a business specializing in space logistics, sent Optimus, a state-of-the-art orbital servicing vehicle into space in February 2024. Designed for on-demand services like satellite fixing, refueling, and system improvements, Optimus aids more effective and sustainable stewardship of space assets. It incorporates a space-grade digital fiber-optic gyroscope-based navigational system that allows for precise movements, a vital feature for safe docking and complex orbit maneuvers.

Which Segment Accounted For The Largest Cosmic Infrastructure Maintenance Market Share?

The cosmic infrastructure maintenance market covered in this report is segmented –

- 1) By Service Type: Structural Repairs, System Upgrades, Debris Management, Other Service Types
- 2) By Technology: Robotics, AI And Machine Learning, Remote Sensing, Other Technologies
- 3) By Application: Satellites, Space Stations, Spacecraft, Other Applications
- 4) By End-User: Government, Commercial, Defense, Other End-Users

Subsegments:

- 1) By Structural Repairs: In-Orbit Component Replacement, Surface Micrometeoroid Damage Repair, Thermal Protection System Restoration, Hull Reinforcement And Sealing, Joint And Hinge Reconditioning
- 2) By System Upgrades: Power System Enhancement, Propulsion Retrofitting, Communication System Modernization, Software Patch Deployment, Sensor Suite Augmentation
- 3) By Debris Management: Active Debris Removal, Collision Avoidance Maneuvering, Debris Tracking And Cataloging, End-Of-Life Deorbiting Services, Tethered Capture Systems
- 4) By Other Service Types: Refueling And Resource Replenishment, Inspection And Diagnostics, Orbital Repositioning And Towing, Life-Extension Servicing, Environmental Monitoring For Maintenance Support

View the full cosmic infrastructure maintenance market report:

<https://www.thebusinessresearchcompany.com/report/cosmic-infrastructure-maintenance-global-market-report>

What Are The Regional Trends In The Cosmic Infrastructure Maintenance Market?

For the year 2024, the North America region leads the global cosmic infrastructure maintenance market in size and is projected to grow the fastest in the specified forecast period. The regions included in this report are North America, Asia-Pacific, Western Europe, Eastern Europe, South

America, the Middle East, and Africa.

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