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Satellite & NewSpace Snapshot

INDUSTRY INSIGHTS - OCTOBER 2024

October Innovations: New Space Ventures Unveil Bold Plans for the Future

This Halloween season, the space industry is brimming with groundbreaking announcements and fresh starts. From Telesat's partnership with Intellian for advanced gateway antennas to Anuvu's ambitious plans with D-Orbit USA, companies are forging new paths to connect and empower the world.

As OroraTech and Impulse Space secure significant funding, others like CesiumAstro and Sirius Space push the boundaries of satellite technology and rocket testing. With EDA's acquisition of Descartes Labs, October has marked the beginning of a transformative era where innovation meets opportunity, ready to reshape our orbiting future.

In this issue:

[EarthDaily Analytics Announces Acquisition of Descartes Labs](#)

[CesiumAstro Introduces Phased Array Satellite Design: Element](#)

Featured Companies

- | | |
|-------------|-----------------------|
| Telesat | Rocket Lab |
| Intellian | Descartes Labs |
| Anuvu | Sirius Space |
| D-Orbit | Earth Daily Analytics |
| OroraTech | Impulse Space |
| CesiumAstro | |

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Telesat Awards Intellian Gateway Contract

Telesat has awarded a contract to Intellian to design, supply, and integrate 127 Gateway Antenna Systems for the Telesat Lightspeed Low Earth Orbit (LEO) constellation. These 4-meter antennas are engineered for high tracking precision and durability, reducing maintenance and energy costs while optimizing RF efficiency.

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New Partnerships – Anuvu and D-Orbit USA

Anuvu has partnered with D-Orbit USA to explore the design of a highly elliptical orbit (HEO) satellite network aimed at expanding the Anuvu Constellation. This initiative seeks to provide additional capacity and improve low-latency services for Anuvu's mobility-focused customers, such as airlines. The HEO satellites are expected to offer performance comparable to medium Earth orbit (MEO) systems while maintaining coverage similar to low Earth orbit (LEO) satellites.

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CesiumAstro Introduces Phased Array Satellite Design: Element

CesiumAstro has unveiled Element, its first fully integrated satellite platform, announced on September 30. This Low-Earth Orbit (LEO) satellite incorporates the company's phased array technology, combining Nightingale and Vireo antenna products. Previously known for supplying phased arrays to companies like Rocket Lab and Raytheon for Space Development Agency projects, CesiumAstro is now expanding its capabilities to offer a complete satellite solution.

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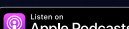
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Sirius Space Completes STAR-1 Hot Fire Test Campaign

Sirius Space Services, a French launch startup, completed a hot fire test campaign for its STAR-1 rocket engine's thrust chamber on October 8, 2024. This campaign, initiated in December 2023, involved two 60-second tests using liquid methane and oxygen at the DLR facility in Germany. The tests validated the thrust chamber's design, which utilizes additive manufacturing. Sirius Space now aims to conduct the first full-scale STAR-1 engine test in Q2 2025.

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EarthDaily Analytics Announces Acquisition of Descartes Labs

EarthDaily Analytics (EDA) has acquired Descartes Labs and its government subsidiary to strengthen its geospatial AI capabilities. This acquisition integrates Descartes Labs' expertise in insurance, energy, mining, and U.S. defence with EDA's Earth Observation data services. The acquisition positions EDA as a leader in offering comprehensive geospatial solutions across high-growth industries.

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OroraTech Raise €25M in Series B for Predictive AI and Global Expansion

OroraTech, a leader in wildfire intelligence, secured €25 million in Series B funding, led by Korys, the European Circular Bioeconomy Fund (ECBF), and Bayern Kapital. Announced on October 15, 2024, this investment will drive OroraTech's global expansion and enhance its predictive AI and orbital sensor network. The company's thermal satellite network provides real-time data to help organizations and fire agencies proactively address wildfires, minimizing damage and saving lives. The funding supports OroraTech's mission to tackle the global wildfire crisis through advanced technology and data-driven insights.

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Impulse Space Secures \$150M in Series B Funding to Support ongoing Company Momentum

Impulse Space secured \$150 million in Series B funding led by Founders Fund, bringing its total funding to \$225 million. The investment supports growth and the production of its Helios and Mira in-space transportation vehicles. Recent milestones include SpaceWERX awards, the launch of a GEO Rideshare Program, and the successful LEO Express-1 mission. Impulse's vehicles feature high delta-v capabilities, chemical propulsion, and in-house components, enabling rapid and efficient orbital maneuvers. The company, founded by Tom Mueller, aims to expand humanity's access to space with upcoming missions and continued innovation in space transportation.

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