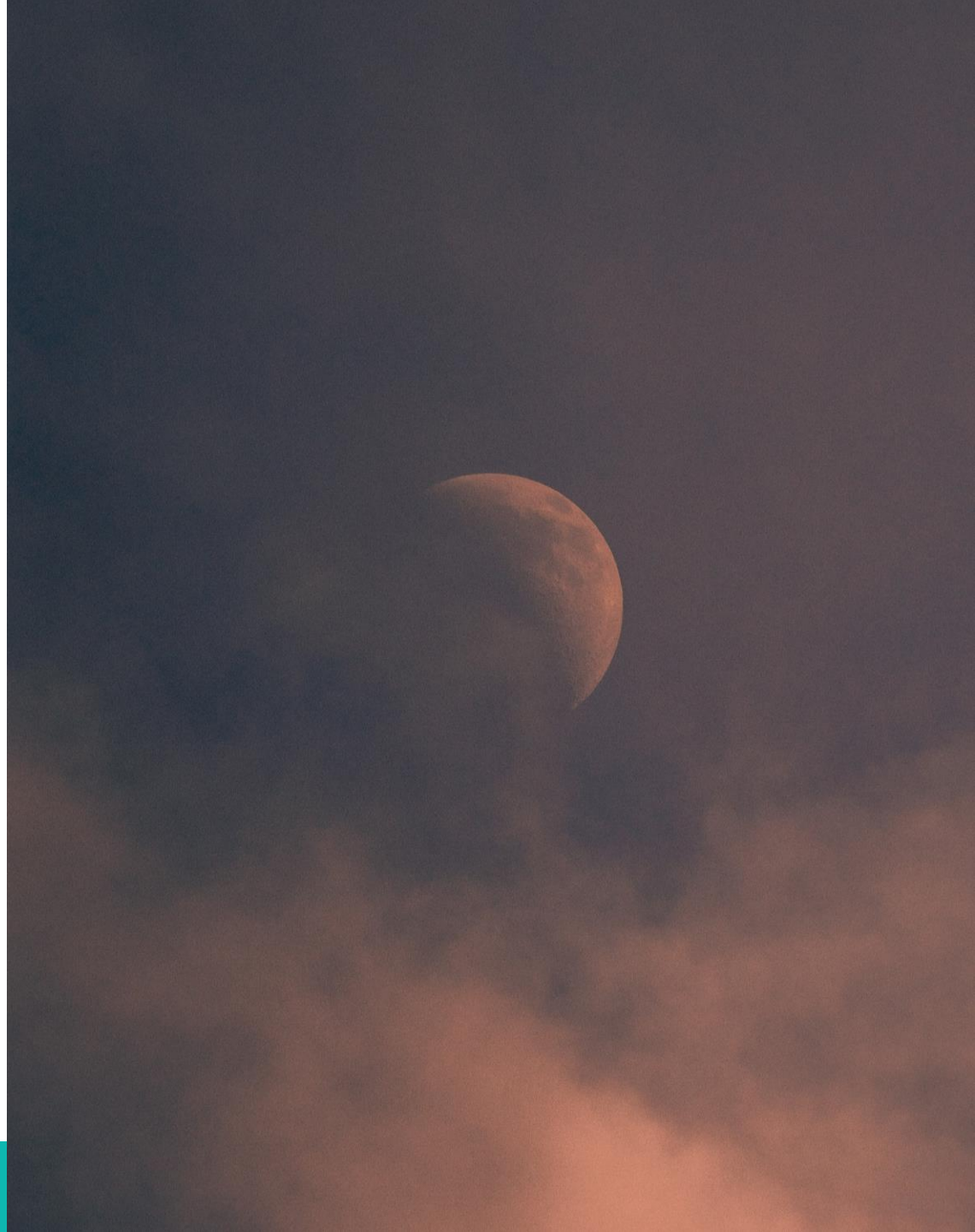


# ***The Company***

Report on  
Satellite technology and space economy

March 2023





### ***The Company***

Space technology company that specializes in providing imaging and data services to companies and governments operating in space. *The Company* products and services include imaging sensors, AI-powered analytics, and autonomous space systems that enable its clients to collect and analyze data more efficiently and effectively. The company's technology is designed to address key challenges facing the space industry, such as reducing the cost and complexity of accessing and analyzing data in space.



#### **Target Market**

Companies and governmental agencies operating or deploying satellites in the Earth's orbit.



#### **Identity**

Space technology company providing innovative and cutting-edge imaging and data services to companies operating assets in space.



#### **Competition**

- First private company offering in-orbit satellite-to-satellite inspections services.



#### **Good Differentiator**

*The Company* uses autonomous space systems and AI-powered analytics to collect and analyze data in space, providing clients with a faster, accurate and cost-effective data services.



#### **Size**

*The Company* currently utilizes 15 Earth observation satellites to image space objects and provide insights.



#### **Exit**



# Part 1

## Broad Market Analysis

# The Earth space landscape – an overview.

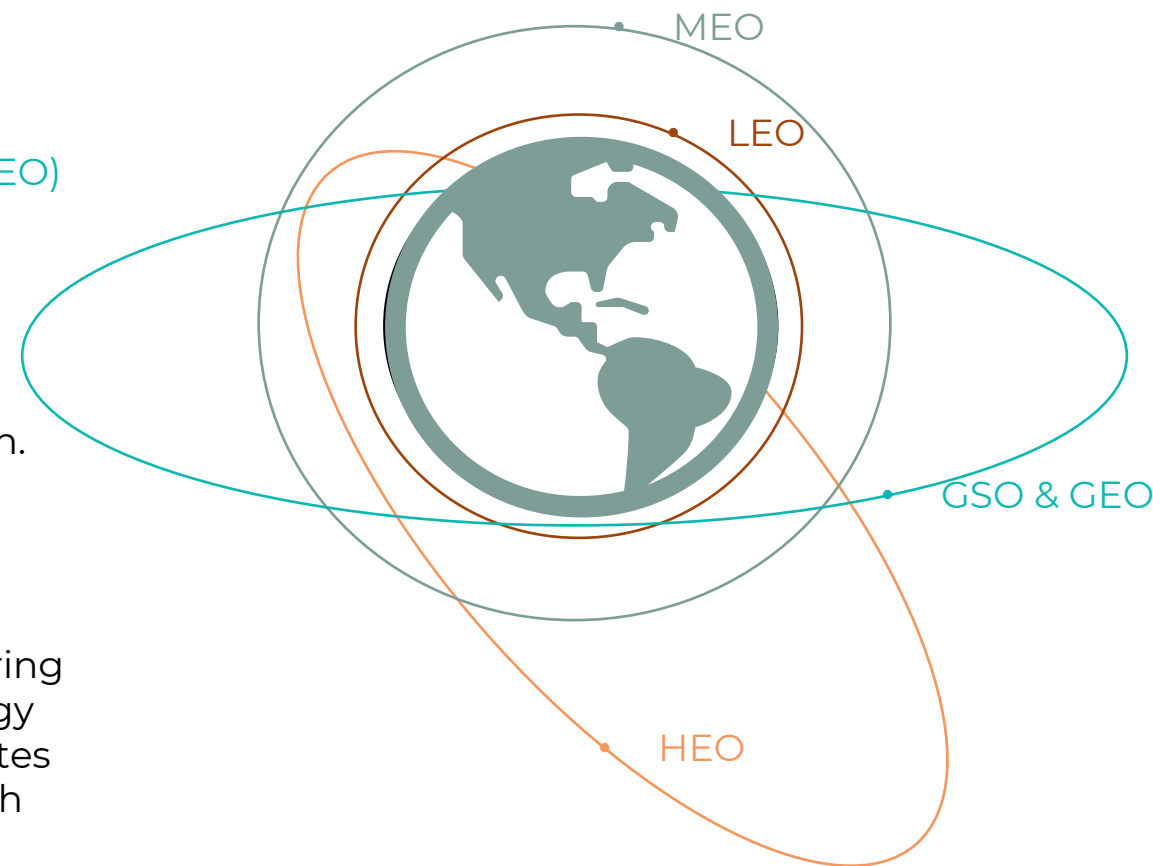


There are currently 4,550 satellites orbiting Earth

- 3,790 in Low Earth Orbit (LEO);
- 139 in Medium Earth Orbit (MEO)
- 565 in Geosynchronous Orbit (GSO) and Geostationary Orbit (GEO)
- 56 in Highly Elliptical Orbit (HEO)

Satellites in LEO are mainly used for communication and remote sensing. In addition, the International Space Station is also in this orbit. In MEO, satellites are used for navigation systems. In GSO & GEO, satellites used for telecommunications and Earth observation. Satellites in HEO are used for communications, satellite radio, remote sensing and other applications.

Satellites orbiting Earth serve several purposes. Around 63% of the satellites are used for telecommunications while 22.1% are monitoring the Planet. The third most common use for satellites are technology development, with 7.1%. Other services provided by orbiting satellites include navigational positioning, technology demonstrations, Earth science, Space observation and Space science.



# Space economy is a new and growing composite industry that encompasses several distinct industries. Its currently being propelled due to the increase of LEO satellites and its uses.



Space activities are growing globally, and the services derived from them are becoming more important to society. The evolving landscape of space activities, technologies and users leads to two core observations:

- **An increasingly wide diversity of actors is involved in space activities:** Government actors more than ever pursue strategic objectives in the space economy in tandem with commercial actors. A better tracking of the effects of public and private expenditure in the space economy is required if the overall impact of such trends is to be assessed.
- **Measuring the space economy becomes a growing challenge:** The range of space activities has evolved significantly over the past ten years. Critical infrastructures such as telecommunications and an increasing number of commercial digital applications now depend heavily on space capabilities. In advanced economies, the space economy is becoming more complex and the line between space and non-space activities is increasingly difficult to assess.

The space industry still requires advancements in technology and cost reductions for ambitious projects to become feasible, but ongoing technological improvements are motivating companies to invest more in the space economy.

Every year, satellites are becoming more advanced, enabling researchers to improve current applications and create new ones. To offer better satellite connectivity, many companies have launched smaller and more affordable satellites into Low Earth Orbit (LEO), which is suitable for high-speed and low-delay communication. Space technology is being used for various important Earth applications such as:

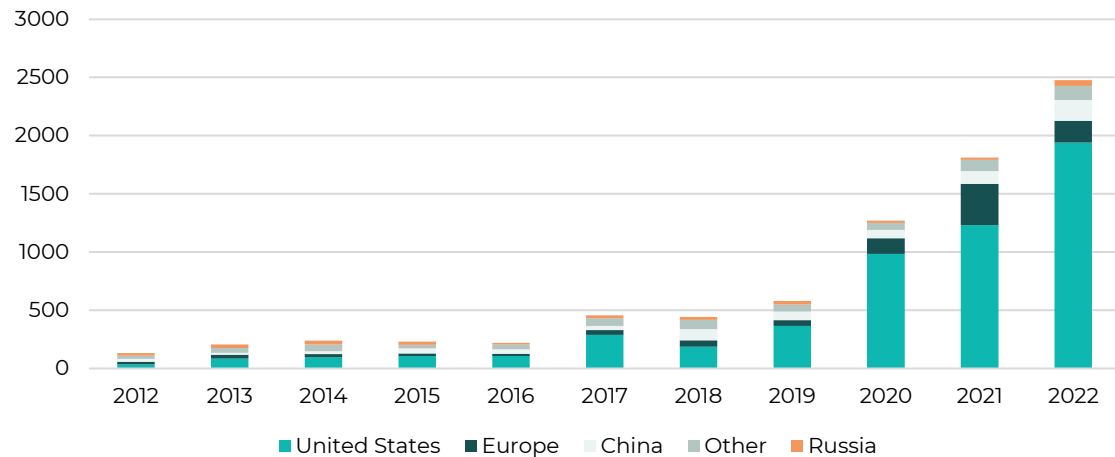
- Internet service: since terrestrial networks are often difficult or expensive to install in underserved, rural areas, or very remote locations;
- Agriculture: in order to identify yield-improvement opportunities;
- Energy sector: to monitor critical infrastructure;
- Mining: satellite data can help mining companies identify and map mineral-rich areas;
- Insurance: Better imaging might allow more insurers to assess risks and damages in a more cost-effective way.

# The number of assets in orbit has grown greatly in the recent years mainly due to the growing commercial communications industry

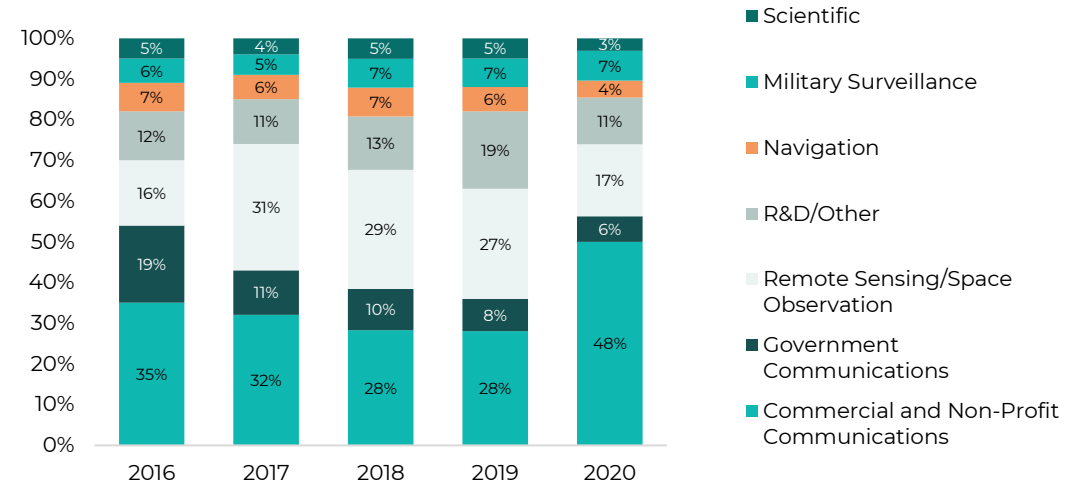


- The number of yearly orbital assets put in orbit increased greatly in 2020 and has continued to increase. In 2022, 2,477 orbital assets were deployed. The United States was the country with the most assets deployed (1941), in 2022, followed by Europe (187).
- Most operational satellites seem to be linked to commercial communication, a segment that increased its orbital presence in 2020.
- Despite the already substantial numbers, the number of satellite orbiting the planet has the potential to quintuple in the next decade.
- Globally, the satellite industry represents roughly 74% of the space economy. This industry, however, encompasses several associated segments. The ground equipment segment represented \$135.3B in 2020, followed by the satellite services segment (\$117.8B) and the non-satellite industry (\$100.7B).
- In the U.S. the launch industry and the satellite manufacturing industry were evaluated, in 2020, in \$2.1B and \$7.9B, around 40% and 65% of their global value, respectively.

**Orbital assets deployed per year**  
2012-2022



**Operational satellites by mission type**  
2020



# SpaceX is the private company operating the highest number of satellites, while the U.S. is the country with most satellites in orbit.



Company/Agency	Satellites	Users	Purpose
<a href="#">Space Exploration Technologies Corp.</a>	1655	Commercial	Communications
<a href="#">OneWeb Satellites</a>	288	Commercial	Communications
<a href="#">Planet Labs INC.</a>	188	Commercial	Earth Observations
<a href="#">Chinese Ministry of National Defense</a>	129	Military, Governmental	Earth Observations, Navigation Systems
<a href="#">Ministry of National Defense (Russia)</a>	125	Military	Communications, Technology Development, Earth Observations, Space Observation, Navigation Systems, Earth Science
<a href="#">Spire Global INC.</a>	121	Commercial	Technology Development, Earth Observations
<a href="#">Swarm Technologies</a>	120	Commercial	Communications
<a href="#">U.S. Air Force</a>	87	Military	Earth Observation, Communications, Technology Development, Navigation Systems, Others
<a href="#">Iridium Communications INC.</a>	75	Governement, Commercial	Communications
<a href="#">National Reconnaissance Office (NRO)</a>	63	Military	Earth Observations, Technology Development, Communications, Other.

Country	Satellites
U.S.A.	2,804
China	467
U.K..	349
Russia	168
Japan	93
India	61
Canada	57
Germany	47
Luxembourg	40
Argentina	34

By far the company operating the highest number of satellites is SpaceX with 1,665 satellites in orbit. This number is likely to increase as SpaceX offers satellite transport services to other companies and has the goal of sending additional 42K satellites into space in the next two decades.



# Here is a list of additional key players in the global space economy which may be of interest to *The Company*:



Company	Description	HQ
<a href="#">Space Exploration Technologies Corp.</a>	SpaceX is a private American aerospace manufacturer and space transportation services company. Its capabilities include the development and manufacturing of advanced rockets and spacecraft, with the goal of revolutionizing space technology	Hawthorne, CA United States <a href="#">Email</a>
<a href="#">Blue Origin, LLC</a>	Aerospace manufacturer and spaceflight services company. They aim to provide reliable and affordable access to space through their reusable launch vehicles and spacecraft.	Kirkland, WA United States <a href="#">Email</a>
<a href="#">Virgin Galactic Holdings, Inc.</a>	Space tourism company that offers suborbital spaceflights to individuals and research payloads.	Las Cruces, NM United States
<a href="#">National Aeronautics and Space Administration</a>	US government agency responsible for the country's civilian space program and for aeronautics research. NASA conducts space exploration, Earth science, and aeronautics research, develops spacecraft and related technologies while providing funding for private space companies.	Washington, DC United States
<a href="#">Boeing Company</a>	Boeing is a multinational corporation that designs, manufactures, and sells airplanes, rotorcraft, rockets, satellites, and missiles. It is also involved in providing leasing and product support services and has a significant presence in the aerospace and defense industries.	Chicago, IL United States <a href="#">Email</a>
<a href="#">Relativity Space</a>	Private American aerospace manufacturer and space transportation services company. They specialize in manufacturing 3D-printed rockets using metal alloy and building autonomous rocket factories.	Long Beach, CA United States <a href="#">Email</a>
<a href="#">Northrop Grumman Corporation (Orbital Sciences Corporation)</a>	Subsidiary of Northrop Grumman Corporation that specializes in the design, development, and manufacture of space-related technologies and systems, including satellites, launch vehicles, and ground systems. It offers a range of services to government and commercial customers, including remote sensing, communication, and scientific research.	Falls Church, VA United States <a href="#">Email</a>
<a href="#">Astra Space, Inc.</a>	Pace transportation company that designs, manufactures, and launches small rockets for delivering payloads into space. Their focus is on creating affordable and efficient space transportation solutions, including launch vehicles and ground stations, for commercial, civil, and defense customers.	Alameda, CA United States <a href="#">Email</a>
<a href="#">Firefly Aerospace Inc.</a>	Private aerospace company that specializes in the design, manufacture, and launch of small and medium-sized rockets. Their launch vehicles are designed to provide low-cost and reliable access to space for commercial, civil, and national security customers. They also offer payload integration, testing, and other launch services.	Cedar Park, TX United States <a href="#">Email</a>
<a href="#">Rocket Lab</a>	American aerospace manufacturer that specializes in the design and manufacture of lightweight rockets for small satellite payloads. Their primary launch vehicle, Electron, is a small two-stage rocket that can carry payloads of up to 300 kg to low Earth orbit. They also offer launch services, including dedicated and rideshare missions for small satellite customers.	Long Beach, CA United States <a href="#">Email</a>
<a href="#">Lockheed Martin Corporation</a>	Aerospace and defence company. Its capabilities include aircraft design and production, missile defense systems, space exploration technology, and advanced cybersecurity solutions. Additionally, the company is involved in research and development efforts aimed at creating cutting-edge technologies	Bethesda, MD United States
<a href="#">Maxar</a>	Leading provider of advanced space technology solutions that include Earth observation and satellite communication capabilities, as well as space infrastructure and robotics. The company also offers geospatial data and analytics services to support a range of industries	Westminster, CO United States <a href="#">Email</a>



# Due to increasing demand for space services and the increasingly lower costs of space missions, the expectation is that the global space economy can reach \$1T by 2040.

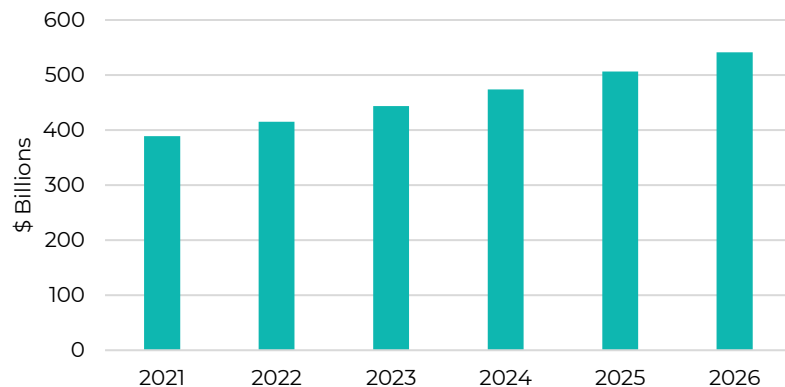


## Market size

- The space economy market is a difficult market to analyze due to the thin border between space industry and auxiliary industries. Nevertheless, the space economy was evaluated in 2021 at \$388.5B and is forecast to reach \$540.8B by 2026 which represents a CAGR of 6.84%.
- However, this value can reach up to \$1T, or more, by 2040 which would represent a CAGR of 5.11%.

- The estimations will be that satellite broadband will represent at least 50% of the projected growth by 2040, in a conservative scenario.
- The demand for data is growing rapidly all the while the cost of data keeps decreasing along with the access to space. Now-a-days the cost of sending payloads to orbit declined to \$60M, from \$200M due to the development of reusable rockets. This value can still go lower with analyst pointing to \$5M. The production of satellites also decreased from \$500M to \$500K.
- These decreases can lead to a potential value of the megabyte wireless data to less than 1% of the current value which will contribute to the development of other industries such as autonomous cars, internet of things (IoT), artificial intelligence (AI), virtual reality (VR) and video on demand.
- Drivers and challenges: the expansion of this market have several drivers such as increased governmental funding, rising demand for cargo spaceflight, and satellite launches which leads to an infrastructure development in this economy. The main challenge is the lack of a unified regulatory framework and the growing number of space debris.

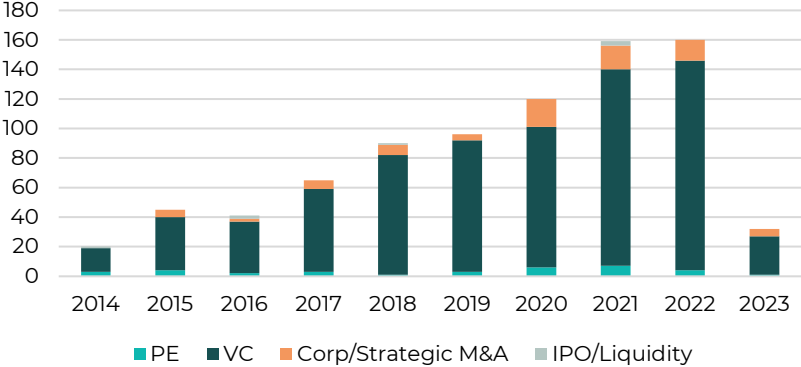
Space economy market value forecast  
2021-2026



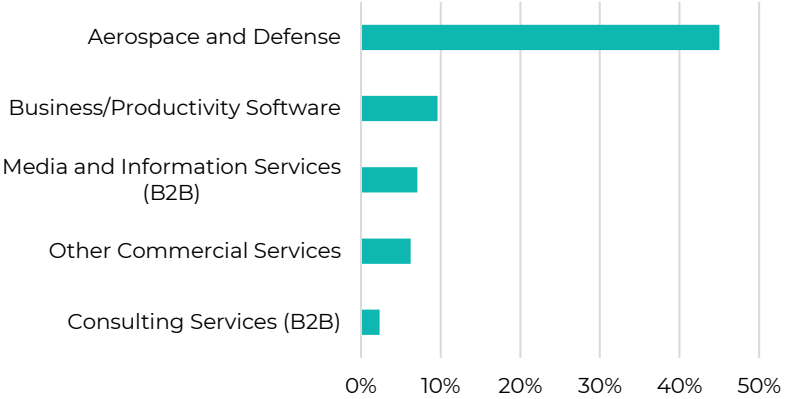
# Most companies developing small satellites and space technology are located in the U.S. followed closely by Europe.



Number of deals in small satellites and space technology



Company distribution by primary industry

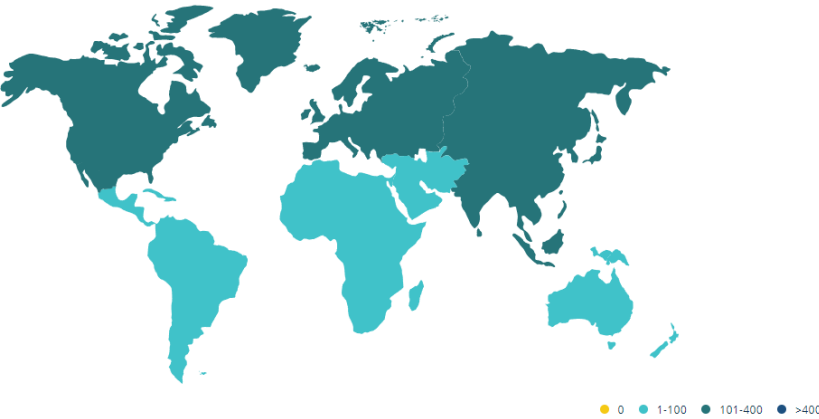
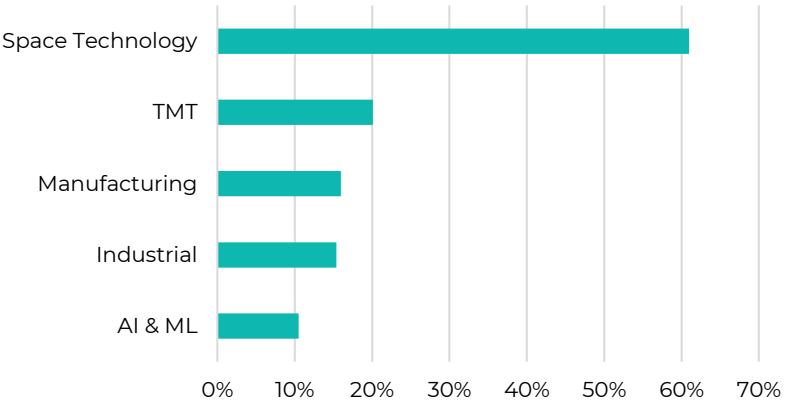


- North America is the market with the highest number (374) of companies operating small satellites and space economy followed by Europe (337).
- The number of deals in this space increase in 2017 and 2018 and then in 2020 and 2021 through the increase in VC deals and Corp/Strategic M&A.

- By primary industry, almost 45% of the companies in this space operate in the Aerospace and Defense, followed by Business/Productivity Software and Media and Information Services (B2B).

- By vertical, the vast majority of the companies operate in the Space Technology vertical, followed by Technology, Media and Telecommunications (TMT) and Manufacturing.

Company distribution by verticals



# Here are some relevant companies operating in the small satellites and space technology landscape:



	<u>Slingshot Aerospace</u>	<u>Turion Space</u>	<u>ExoAnalytic Solutions</u>	<u>Astroscale</u>	<u>Vestigo Aerospace</u>
Description	Developer of space simulation and analytics platform designed to bring clarity to complex environments and create a safer world. The company's platform brings together data from different sources such as satellites, airplanes, drones, and ground-based sensors and applies advanced analytics and computer vision to provide clarity in complex environments, helping government, commercial, and emergency management customers build a safe and sustainable world.	Developer of spacecraft intended to monitor and track space objects, remove orbital debris and provide services to existing satellites. The company's spacecraft uses vision sensors and a propulsion system to capture data of other resident space objects and will deorbit or change the orbit of the client's space assets and large debris objects, enabling companies to maintain earth orbits sustainable through cleaning of space debris that is anticipated to grow exponentially in the coming years.	Developer of deep-space tracking system created to enable robust missile defense architectures. The company's system tracks man-made space objects, geosynchronous earth orbits, highly elliptical and medium earth orbits in multiple field regimes, collects both angles and brightness measurements, quantifies the impact of space systems as well as targets, discovers, characterizes and discriminates using data from radar and optical sensors, enabling federal government, defense and space markets to estimate object positions with sub-pixel precision and provide end-to-end processing of raw frames, yielding positional and brightness data for objects in the scene.	Operator of a space technology company intended to offer on-orbit services. The company offers innovative and scalable services across the spectrum of on-orbit servicing missions, including life extension, in situ space situational awareness, end-of-life, and active debris removal, enabling sustainable space systems to mitigate the growing and hazardous buildup of debris in space.	Developer of space technology intended to offer system solutions for on-orbit servicing of Satellites. The company offers aerospace addresses the orbital debris problem through a product line of drag sails that provide reliable deorbit capability to host vehicles upon mission completion, it is a self-monitoring, assessment, and response-to-threat" fault management system, enabling customers with robust fault detection, isolation, and recovery in a space environment.
Industry	Media and Information Services (B2B)	Aerospace and Defense	Aerospace and Defense	Aerospace and Defense	Electronic Equipment and Instruments
Verticals	<ul style="list-style-type: none"> <li>Artificial Intelligence &amp; Machine Learning</li> <li>Big Data</li> <li>Robotics and Drones</li> <li>Space Technology</li> <li>TMT</li> </ul>	<ul style="list-style-type: none"> <li>Space Technology</li> </ul>	<ul style="list-style-type: none"> <li>TMT</li> </ul>	<ul style="list-style-type: none"> <li>CleanTech</li> <li>Industrials</li> <li>Space Technology</li> </ul>	<ul style="list-style-type: none"> <li>Space Technology</li> </ul>
HQ	El Segundo, CA United States	Irvine, CA United States	Foothill Ranch, CA United States	Tokyo, Japan	La Cañada Flintridge, CA United States
Last Deal Type	Later Stage VC, Series A2	Early Stage VC	Debt - PPP	Later Stage VC, Series G	Seed Round
Year	2022	Announced/In Progress	2020	2023	2022
Last Deal Value	\$39.75M	\$5.00M	\$2.42M	\$76.09M	\$0.44M
Last Deal Lead Investor(s)	<a href="#">Sway Ventures</a>		<a href="#">Live Oak Bank</a>		

# Here are some investors with history of investing in the small satellite and space technology segment:



	<u>Techstars</u>	<u>Space Capital</u>	<u>Airbus Ventures</u>	<u>Soma Capital</u>	<u>SpaceFund</u>
Number of deals	23	19	11	9	8
Preferred Industry (% of investments)	<ul style="list-style-type: none"> <li>Information Technology (52.97%)</li> <li>B2C (16.58%)</li> <li>B2B(15.70%)</li> </ul>	<ul style="list-style-type: none"> <li>Information Technology (54.55%)</li> <li>B2B (41.82%)</li> <li>Financial Service (3.64%)</li> </ul>	<ul style="list-style-type: none"> <li>Information Technology (72.22%)</li> <li>B2B (22.22%)</li> <li>Energy (3.70%)</li> </ul>	<ul style="list-style-type: none"> <li>Information Technology (61.41%)</li> <li>B2B (13.66%)</li> <li>B2C (12.73%)</li> </ul>	<ul style="list-style-type: none"> <li>B2B (80.95%)</li> <li>Information Technology (14.92%)</li> <li>B2C (4.76%)</li> </ul>
Average Deal Size	\$1.13M	\$44.17M	\$27.58M	\$11.81M	\$85.12M
Preferred Geography (% of investments)	<ul style="list-style-type: none"> <li>U.S. (62.75%)</li> <li>Europe (18.24%)</li> <li>North America (6.64%)</li> </ul>	<ul style="list-style-type: none"> <li>U.S. (61.82%)</li> <li>Europe (21.82%)</li> <li>North America (10.91%)</li> </ul>	<ul style="list-style-type: none"> <li>U.S. (57.41%)</li> <li>Europe (22.22%)</li> <li>Asia (16.67%)</li> </ul>	<ul style="list-style-type: none"> <li>U.S. (68.79%)</li> <li>Asia (12.62%)</li> <li>North America (6.91%)</li> </ul>	<ul style="list-style-type: none"> <li>U.S. (85.71%)</li> <li>Europe (9.52%)</li> <li>Asia (4.76%)</li> </ul>
Preferred Deal Type (% of investments)	<ul style="list-style-type: none"> <li>Accelerator/Incubator (78.49%)</li> <li>Seed Round (13.57%)</li> <li>Early Stage VC (4.31%)</li> </ul>	<ul style="list-style-type: none"> <li>Seed Round (40%)</li> <li>Later Stage VC (30.91%)</li> <li>Early Stage VC (25.45%)</li> </ul>	<ul style="list-style-type: none"> <li>Early Stage VC (55.56%)</li> <li>Later Stage VC (35.19%)</li> <li>Seed Round (9.26%)</li> </ul>	<ul style="list-style-type: none"> <li>Seed Round (48.28%)</li> <li>Early Stage VC (44.3%)</li> <li>Later Stage VC (6.63%)</li> </ul>	<ul style="list-style-type: none"> <li>Seed Round (42.86%)</li> <li>Early Stage VC (38.10%)</li> <li>Later Stage VC (19.05%)</li> </ul>
Notable Investment(S)	<a href="#">Slingshot Aerospace</a> <a href="#">Morpheus Space</a> <a href="#">Orbit Fab</a>	<a href="#">SpaceX</a> <a href="#">Rocket Lab</a> <a href="#">ICEYE</a>	<a href="#">Aerospacelab</a> <a href="#">Astra</a> <a href="#">Isar Aerospace</a>	<a href="#">Albedo</a> <a href="#">Epsilon3</a> <a href="#">Turion Space</a>	<a href="#">SpaceX</a> <a href="#">Space Forge</a> <a href="#">Cognitive Space</a>
POC	Boulder, CO United States <a href="#">Email</a>	New York, NY United States	Menlo Park, CA United States <a href="#">Email</a>	San Francisco, CA United States <a href="#">Email</a>	Houston, TX United States <a href="#">Email</a>

- The U.S. DOD and NASA are the main investors, in terms of number of deals in this segment. However, their investments are exclusively made through grants and SBIR/STTRs. To apply to this type of funding, the recipients must be U.S. firms.



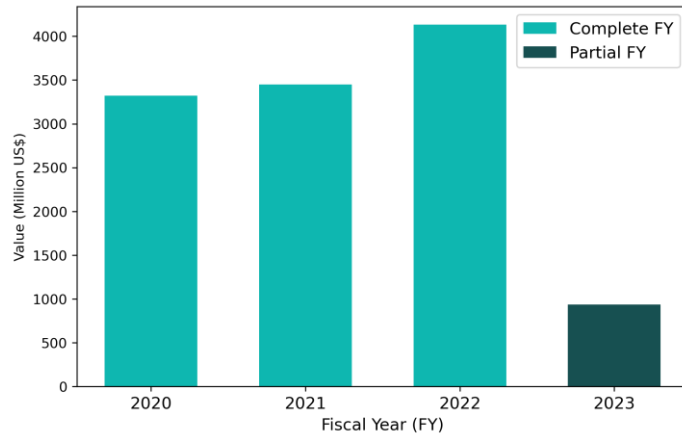
## Part 2

# Analysis of Governmental Expenditures and Investment

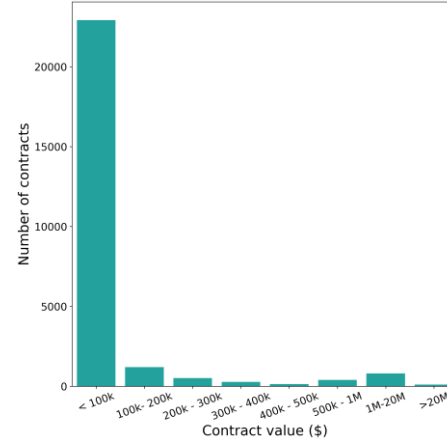
# From FY2020-2023, the U.S. government awarded 26,343 awards related to satellites services and space assets for a total value surpassing \$11B.



**Total Federal Action Obligation Overtime**

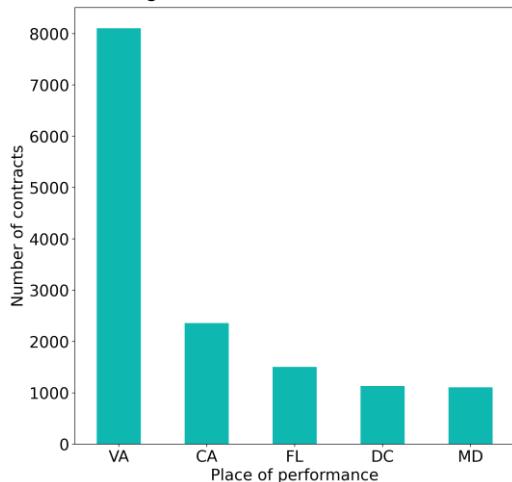


**Contracts value distribution**

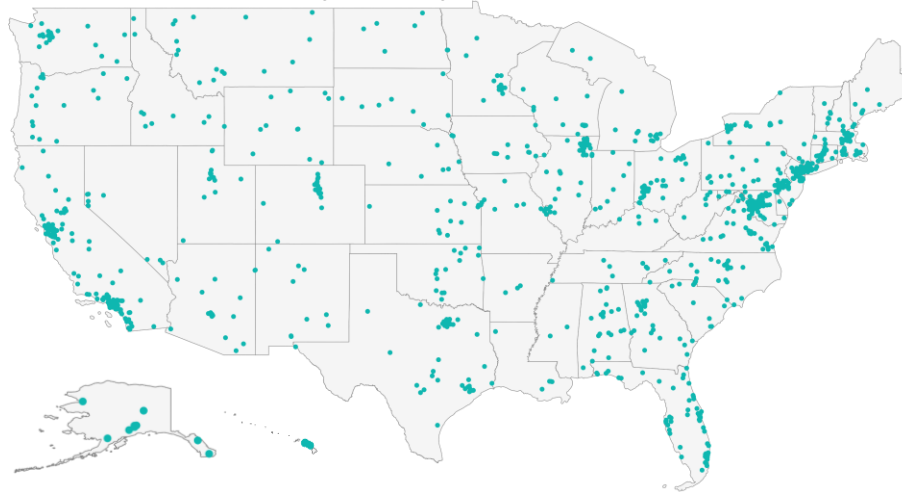


- In the FY2022 the contracts value reached its maximum of \$4.12B, an increase from \$3.32B and \$2.44B in FY2020 and FY2021, respectively. So far in FY2023 the value is at \$0.93B.
- The majority of the contracts awarded in this space are valued at less than \$100K. However, there are around 801 contracts evaluated between \$1M and \$20M and 102 contracts worth more than \$20M.
- The majority of these contracts take place in mainly in VA, but also a substantial number of contracts take place in CA and FL.
- Regarding the contracts whose value surpass the \$20M these are mainly awarded by the DOD and NASA, although agencies such DOT, DOC, DOJ, and GSA also have a small number of contracts.

**Primary Place of Performance**



**Contracts by Primary Place of Performance**



# The Department of Defense (DOD) is the main awarding agency for satellite services and space technology, followed by NASA.

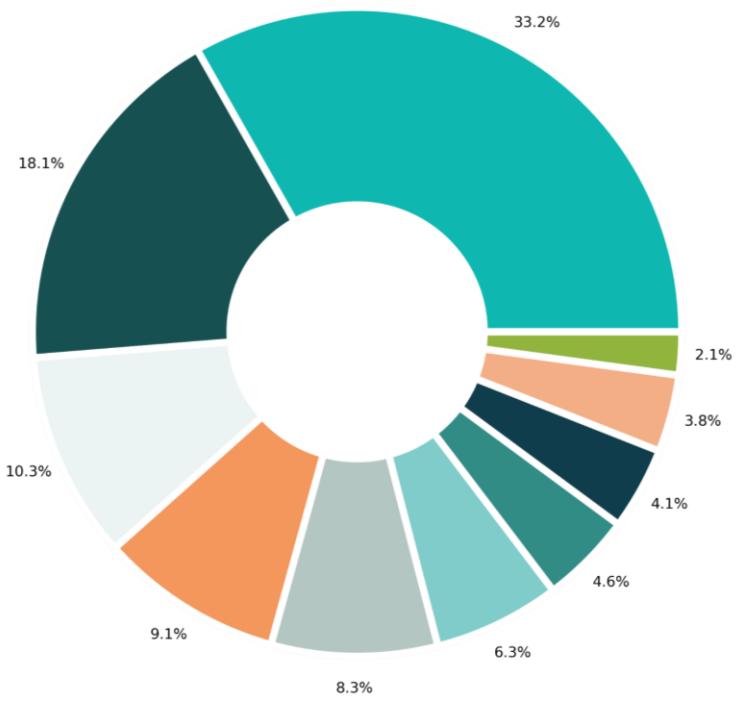


**Total Federal Action Obligation by Department**



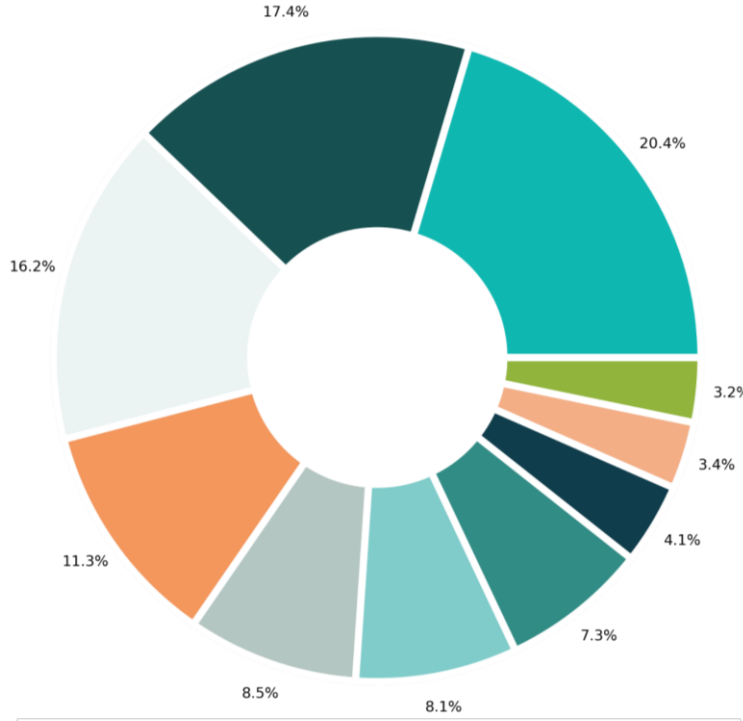
Awarding Agency Name	Contracts	Total Federal Action Amount
Department of Defense (DOD)	18298	\$8,091,530,247
National Aeronautics and Space Administration (NASA)	846	\$2,037,556,892
Department of Veterans Affairs (VA)	698	\$243,164,876
Department of Transportation (DOT)	113	\$229,701,509
Department of Homeland Security (DHS)	770	\$218,619,041
Department of Commerce (DOC)	382	\$174,169,346
Department of Agriculture (USDA)	443	\$149,891,197
General Services Administration (GSA)	410	\$148,264,994
Department of Health and Human Services (HHS)	365	\$118,972,970
Department of the Interior (DOI)	673	\$98,459,148

**Total Federal Action Obligation by NAICS**



- Satellite Telecommunications
- Radio And Television Broadcasting And Wireless Communications Equipment Manufacturing
- Research And Development In The Physical, Engineering, And Life Sciences (Except Nanotechnology And Biotechnology)
- Guided Missile And Space Vehicle Manufacturing
- All Other Telecommunications
- Wired Telecommunications Carriers
- Other Computer Related Services
- Engineering Services
- Research And Development In The Physical, Engineering, And Life Sciences (Except Biotechnology)
- Telecommunications Resellers

**Total Federal Action Obligation by PSC**



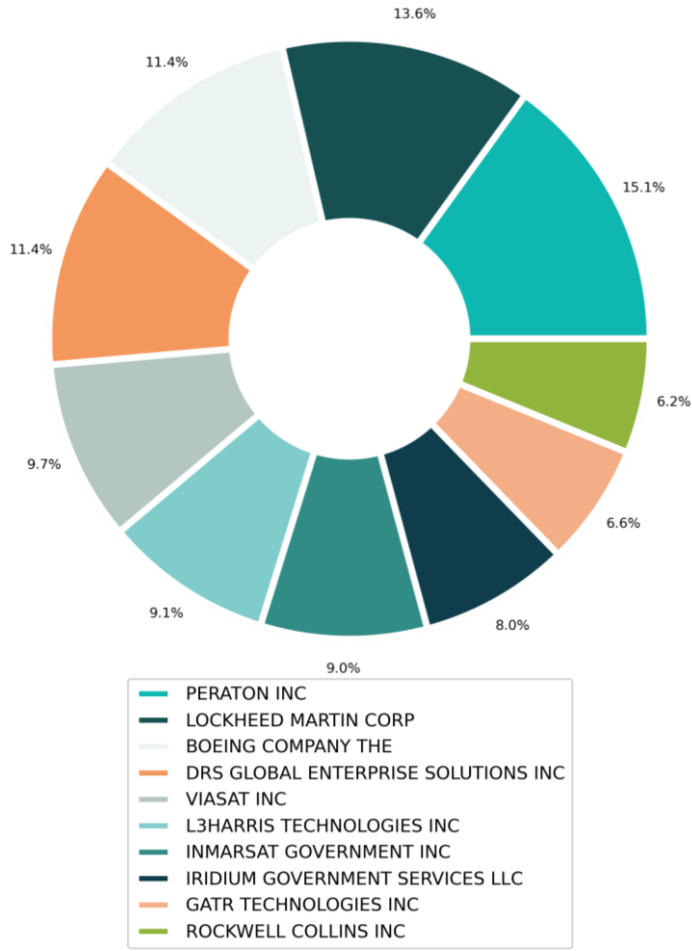
- IT And Telecom - Network: Satellite And Rf Communications Products (Hw, Perpetual License Software)
- IT And Telecom - Telecommunications And Transmission
- IT And Telecom - Network: Satellite Communications And Telecom Access Services
- Support - Professional: Engineering/Technical
- IT And Telecom - Integrated Hardware/Software/Services Solutions, Predominantly Services
- Space Vehicles
- IT And Telecom - Other IT And Telecommunications
- R&D - Defense System: Missile/Space Systems (Operational Systems Development)
- IT And Telecom - Service Delivery Support Services: ITSM, Operations Center, Project/PM (Labor)
- Transportation/Travel/Relocation- Transportation: Space Transportation/Launch



# The top 5 providers space related services account for 61.2% of the total obligated amount.



**Total Federal Action Obligation by top 20 vendors**



Top 5 companies	Top 3 U.S. Department	Awards	Total Obligation
PERATON INC	National Aeronautics And Space Administration	2	\$611,875,464
	Department Of Commerce	3	\$47,995,466
	Department Of Defense	4	\$2,376,682
LOCKHEED MARTIN CORP	Department Of Defense	17	\$543,732,405
	National Aeronautics And Space Administration	1	\$53,098,000
THE BOEING COMPANY	Department Of Defense	21	\$501,854,815
	Department Of Commerce	1	\$240,000
	Department Of Defense	77	\$491,876,712
DRS GLOBAL ENTERPRISE SOLUTIONS INC	Department Of Homeland Security	1	\$6,225,330
	Agency For International Development	1	\$2,515,171
VIASAT INC	Department Of Defense	65	\$417,913,023
	Department Of Homeland Security	1	\$5,852,166
	General Services Administration	2	\$4,365,000

# Here are some additional details about the top awarded companies providing these services to the U.S. government:



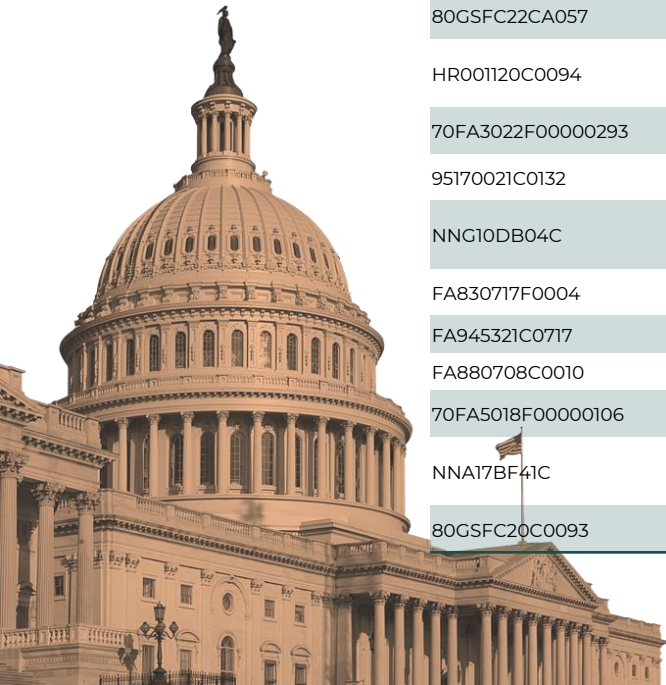
	<u>PERATON INC</u>	<u>LOCKHEED MARTIN CORP</u>	<u>THE BOEING COMPANY</u>	<u>DRS GLOBAL ENTERPRISE SOLUTIONS INC</u>	<u>VIASAT INC</u>
Company Description	Technology company that provides advanced solutions to government and commercial customers. Their expertise spans across the areas of space, intelligence, cyber, defense, homeland security, and communications, and their capabilities include systems engineering, software development, data analytics, and mission operations..	Aerospace and defense company. Its capabilities include aircraft design and production, missile defense systems, space exploration technology, and advanced cybersecurity solutions. Additionally, the company is involved in research and development efforts aimed at creating cutting-edge technologies	Boeing is a multinational corporation that designs, manufactures, and sells airplanes, rotorcraft, rockets, satellites, and missiles. It is also involved in providing leasing and product support services and has a significant presence in the aerospace and defense industries.	Technology company that provides mission-critical solutions to defense, intelligence, and federal civilian customers. Their capabilities include enterprise IT services, cybersecurity, satellite communications, and intelligence, surveillance, and reconnaissance (ISR) solutions.	Global communications company that provides secure, high-speed satellite and wireless internet services for businesses, governments, and consumers. Their capabilities include satellite and wireless network design and operation, cybersecurity, mobility, and commercial aviation..
PSC	<ul style="list-style-type: none"> <li>IT And Telecom - Network: Satellite Communications And Telecom Access Services;</li> <li>Support - Professional: Engineering/Technical</li> </ul>	<ul style="list-style-type: none"> <li>R&amp;D - Defense Other: Other (Advanced Development);</li> <li>Space Vehicles;</li> <li>National Defense R&amp;D Services; Atomic Energy Defense Activities; Experimental Development</li> </ul>	<ul style="list-style-type: none"> <li>Support - Professional: Engineering/Technical;</li> <li>National Defense R&amp;D Services; Atomic Energy Defense Activities; Experimental Development</li> </ul>	<ul style="list-style-type: none"> <li>IT And Telecom - Telecommunications And Transmission;</li> <li>IT And Telecom - Network: Satellite Communications And Telecom Access Services</li> </ul>	<ul style="list-style-type: none"> <li>IT And Telecom - Network: Satellite Communications And Telecom Access Services;</li> <li>IT And Telecom - Other IT And Telecommunications</li> <li>Support- Professional: Communications</li> </ul>
Award Descriptions (example)	<ul style="list-style-type: none"> <li>Low-earth Orbit (LEO) Ground Sustainment Services (LGSS);</li> <li>Integrated Satellite Control Systems (ISCS) Software Services (ISS);</li> <li>Satellite Control Systems, Satellite Telemetry, Tracking &amp; Commanding, And Ancillary Supporting Systems.</li> </ul>	<ul style="list-style-type: none"> <li>Blackjack Satellite Integration;</li> <li>Global Positioning System (GPS) IIIA;</li> <li>Evolved Strategic Satellite Communication Prototype</li> </ul>	<ul style="list-style-type: none"> <li>Wideband Global Satellite-communications Orbital Operations, Logistics, And Resiliency;</li> <li>Evolved Strategic Satellite Communication Prototype;</li> <li>UFO Satellite Technical Support</li> </ul>	<ul style="list-style-type: none"> <li>Space Segment – Transition;</li> <li>SATCOM AFRICOM - East And West (L52 And L51);</li> <li>Transponded Capacity (KU-BAND)</li> </ul>	<ul style="list-style-type: none"> <li>Global Network Services;</li> <li>Viasat Commercial Satellite Communication Services;</li> <li>Satellite Coverage.</li> </ul>
Place of Performance	CA, MD, VA	CA, CO, PA, VA	CA, CO, WA	FL, VA	CA, DC, MD
Number of Contracts Total Federal Obligation	10 \$662.705959	19 \$596.830405	24 \$502.094815	81 \$500.617213	71 \$428.291721

# Moonbeam Exchange identified the following expiring opportunities and potential partners for *The Company* to collaborate.



## Expiring Contracts in the next 3-12 months:

Award ID	Recipient Name	Recipient UEI	Award Description	Date	Awarding Agency	Potential Value
HC101320F0132	Ritenet CORP.	JNMNNA51QJQ4	KU Band 40 MHZ Space Segment	2023-06-27	Defense Information Systems Agency (DISA)	\$5,794,841
FA251822F0034	Apogee-saic Capabilities Integrator, LLC	EMX1P81U9GG5	Loading Integration Analysis And Tactical Solutions For Satellite Enterprise Networks - 2 (LITEN-2)	2023-06-28	Dept Of The Air Force	\$3,720,056
36C10A20C0003	Strategic Approach Solutions LLC	Q9GAHRLCG5G8	Satellite Communication Management Services	2023-06-30	Veterans Affairs	\$40,288,923
70FA3022F00000281	Inmarsat Government, INC.		Satellite Communications Equipment And Airtime Services	2023-06-30	Federal Emergency Management Agency	\$19,686
80GSFC22CA057	Massachusetts Institute Of Technology	E2NYLCDML6V1	Small Satellite Operations Services	2023-06-30	National Aeronautics And Space Administration	\$555,237
HR001120C0094	Blue Canyon Technologies LLC	NTGEJRVEFK99	BLACKJACK Phases 2 And 3, Which Is An Architecture Demonstration Intending To Show The Military Utility Of Global LEO Constellations And Mesh Networks Of Lower Size, Weight, And Spacecraft Node.	2023-06-30	Defense Advanced Research Projects Agency (DARPA)	\$99,362,797
70FA3022F00000293	Inmarsat Government, Inc.		Satellite Communications Equipment And Airtime Services	2023-06-30	Federal Emergency Management Agency	\$11,315
95170021C0132	Encompass Digital Media Services Limited	VSR7MT51M7G3	Satellite Capacity Services	2023-06-30	United States Agency For Global Media, BBG	\$942,912
NNG10DB04C	General Dynamics Mission Systems, INC	MWDRZJ2ZVPV7	The Purpose Of The SGSS Project Is To Implement A Modern Ground Segment That Will Enable The Sn To Continue To Deliver High Quality Services To The SN Community.	2023-06-30	National Aeronautics And Space Administration	\$1,316,867,501
FA830717F0004	General Dynamics Information Technology, INC.	SMNWM6HN79X5	Space Modular Common Crypto (SMCC) Medium Large Satellite Common Solution (MLSC) For Next Generation Overrun	2023-07-01	Dept Of The Air Force	\$151,601,038
FA945321C0717	Microlink Devices, INC.	DHJPU2QYVQK7	Smart Satellite AGC Loop For Frequency Hopping System	2023-07-17	Dept Of The Air Force	\$750,000
FA880708C0010	Lockheed Martin Corporation	FYHNA5WC8XD7	Global Positioning System III A Satellite Vehicles	2023-07-23	Dept Of The Air Force	\$4,863,960,109
70FA5018F00000106	DRS Global Enterprise Solutions, INC.	RL2UXQCGBMD9	Disaster Contingency Satellite Network Support	2023-07-31	Federal Emergency Management Agency	\$14,924,993
NNA17BF41C	TYVAK Nano-satellite Systems INC.	L7JDBS43D7C3	The Purpose Of The Pathfinder Technology Demonstrator (PTD) Mission Is To Demonstrate Novel Satellite Technologies In Low Earth Orbit (LEO).	2023-12-31	National Aeronautics And Space Administration	\$9,048,775
80GSFC20C0093	General Atomics	TVRYQ3N3B8H5	To Provide Spacecraft Development & Test Observatory I&T	2024-03-14	National Aeronautics And Space Administration	\$39,986,532



For further details  
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