



NOOSPHERE
VENTURES
Technology Knowledge Humanity

VENTURE INVESTMENTS IN SPACE MARKET

Q1 2020 REPORT

www.noosphereventures.com

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OUR METHODOLOGY AND DATA SOURCES

Venture Investments in Space Market reports of venture type of investments of all stages and equity investments in space startup companies on a quarterly basis. Our report dataset is sourced from databases, such as PitchBook, Crunchbase, FactSet, NewSpace Hub, CB Insights and other sources. The dataset includes only publicly reported deals, it does not include proprietary investment information.

OUR DEFINITION

A company from a space market is a business entity that provides products or services, including, but not limited to:

- satellite manufacturers constructing space satellite platforms of all sizes for commercial, scientific and military purposes
- providers of payloads, satellite parts or spacecraft components
- launch vehicles manufacturers and launch service providers
- rocket engine manufacturers
- companies related to satellite sector, including satellite operators and satellite service providers, companies with products and services based on GPS and GNSS systems, satellite connectivity and other satellite technologies to provide its services
- companies involved in exploring and commercializing outer space, such as space tourism, space mining and setting up space colonies
- companies manufacturing satellite ground equipment such as antennas, VSAT, SSPAs & BUCs etc. intended primarily for the B2B market
- data analytics companies, actively using satellite imagery and other earth observing methods to create their products and services, remote sensing and geospatial analytic products and services

Q1 2020 VENTURE INVESTMENTS: KEY NUMBERS

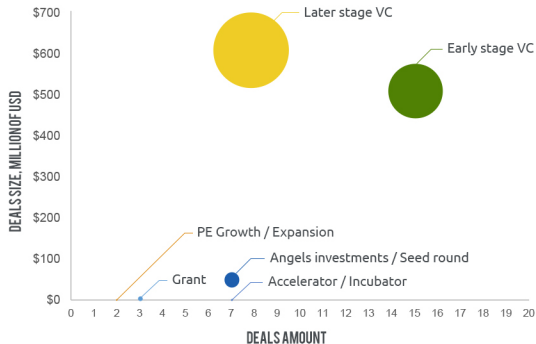
42 Rounds closed

\$1.2B Total investments

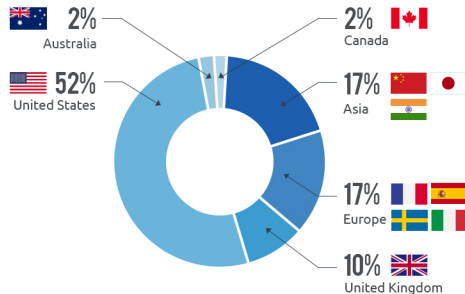
93 Funds participated in funding

60% Share of investments dedicated to space launches

DEAL TYPES



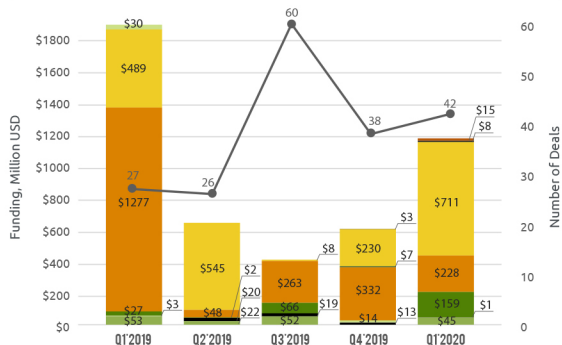
INVESTED COMPANIES BY GEOGRAPHIC AREAS



DEALS AMOUNT, DEFINED BY LOCATION OF COMPANIES HEADQUARTERS

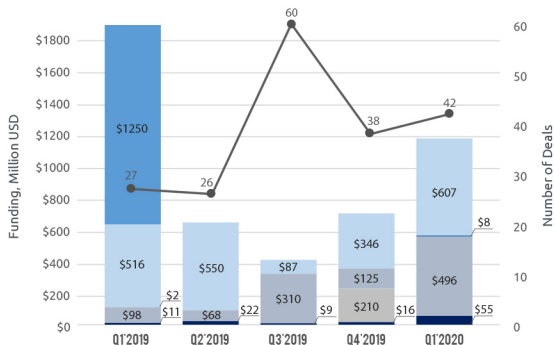
DYNAMICS OF VENTURE INVESTMENTS, Q1 2019–Q2 2020

DEALS BY INDUSTRIES



- Earth observation & Geospatial Analytics
- Satellite Ground Equipment & Solutions
- Satellite Operators & Service Providers
- Space Launch
- Space Infrastructure & In-orbit Services
- Propulsion systems providers
- Materials & Parts Suppliers
- Satellite Manufacturing & Servicing Companies
- Space Exploration & Commercialization
- Spaceport Operators
- Rocket engines
- Deals

DEALS BY STAGES



- Angel / seed round
- Debt
- Early stage VC
- Later stage vc
- PE growth / expansion
- Grant
- Deals

VENTURE INVESTMENTS Q1 2020: LANDSCAPE OF FUNDED PROJECTS



SPACE LAUNCH



SATELLITE GROUND EQUIPMENT & SOLUTIONS



MATERIALS & PARTS SUPPLIERS



SPACE INFRASTRUCTURE & IN-ORBIT SERVICES



SATELLITE MANUFACTURING & SERVICING



EARTH OBSERVATION & GEOSPATIAL ANALYTICS



PROPULSION SYSTEMS PROVIDERS



SATELLITE OPERATORS AND SERVICE PROVIDERS



LARGEST DEALS OF Q1 2020 VENTURE INVESTMENTS

SPACEX

\$314M | **\$33,4B** Post valuation

SpaceX aims to fund two capital intensive projects: Starlink, a network of thousands of small internet satellites, and Starship, a massive rocket to send people and cargo to Mars

SPACEX

\$221M | **\$35,7B** Post valuation

The steady fundraising comes as SpaceX continues development on three important programs: Crew Dragon, Starlink and Starship

 **kinéis**

\$111M

The capital raised will finance the construction of the constellation of 25 nanosatellites, 20 ground stations, the launch of the satellites and the international expansion of Kinéis

ASTTM

\$110M

The company planning to create a cellular broadband network with a constellation of hundreds of satellites that would link directly to people's smartphones

 **ASTRA**

\$100M

The company aiming to create small, cheap rockets that can be mass-produced to facilitate daily spaceflights, delivering satellites into low-Earth orbit

ASTRANIS

\$90M* | **\$110M** Post valuation

The company intends to use the funding to launch its first commercial satellites, the bedrock of its future internet service offering, aimed at connecting the massive market of underserved populations around the world

abl
space systems

\$47,5M | **\$154M** Post valuation

The company raises capital to fund manufacturing of rockets intended to launch small satellites. ABL is planning a first launch of RS1 in 2020

 **SPINLAUNCH**

\$35M | **\$170M** Post valuation

The funds will be used to scale the SpinLaunch team and technology and continue to build out SpinLaunch's new corporate headquarters in Long Beach, California, and complete the flight test facility at Spaceport America in New Mexico

 **PredaSAR**

\$25M | **\$90M** Post valuation

The company intends to use the funds to continue to expand operations, and to manufacture and launch two SAR satellites through a strategic partnership with Tyvak, a provider of nano- and microsatellites

 **星河动力**
GALACTIC ENERGY
让太空资源融入生活

\$21,5M

The company raise funds for the development and launch of new rockets

* Including \$50M of debt financing

RECENT FAILURES OF SPACE STARTUPS



TOTAL RAISED: \$28,5M

The company entered voluntary administration on April 7, 2020

The company's business was to construct and operate an in-orbit communication infrastructure based on nano-satellite technologies



TOTAL RAISED: (EQUITY AND DEBT) \$3,4B

The company filed for Chapter 11 bankruptcy on March 27, 2020. The company is seeking to sell its spectrum rights

The company was engaged in the development of a mega constellation of satellites to enable internet access



TOTAL RAISED: \$13M

The company reached a definitive agreement to be acquired by EOSDefense Systems for \$7M (10 M AUD) on January 27, 2020

The company planned operations in space connectivity and space infrastructure services areas



TOTAL RAISED: \$103M

The company filed for Chapter 11 bankruptcy on December 13, 2019

The project was dedicated to accessible low-cost micro satellites launches



TOTAL RAISED: UP TO \$20M

Shutting down of the company due to absent investors in November 2019

Was supposed to be a provider of a LEO internet access constellation, with satellites, interconnected using highspeed laser communications

RECENT LAYOFFS OF SPACE STARTUPS



The space stations designer and manufacturer has laid off its entire workforce of 88 employees



Despite announce of raising a \$100 M venture funding from Airbus Ventures, ACME Capital and Innovation Endeavors, the rocket builder trims staff (person familiar told CNBC)



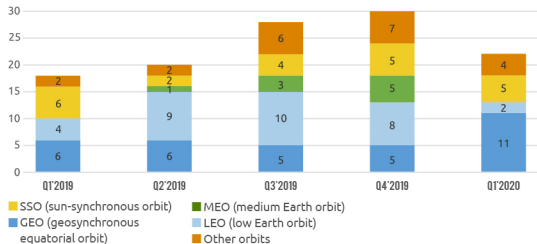
WORLD VIEW.

A stratospheric satellites operator had to furlough some employees due to coronavirus pandemic



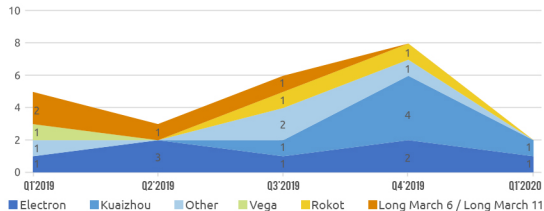
SUCCESSFUL SPACE LAUNCHES, Q1 2019-Q1 2020

SPACE LAUNCHES BY ORBITS



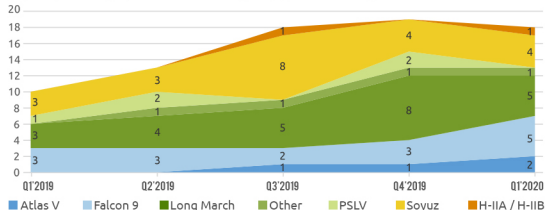
LAUNCHES OF SMALL-LIFT VEHICLES

(capacity of lifting up to 2,000 kg of payload into LEO)



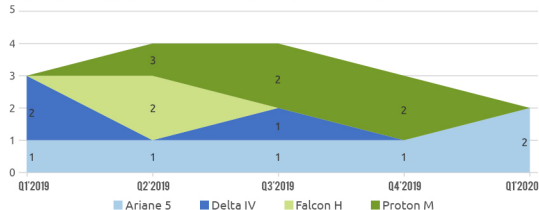
LAUNCHES OF MEDIUM-LIFT VEHICLES

(capacity of lifting up 2,000 to 20,000 kg of payload into LEO)



LAUNCHES OF HEAVY-LIFT VEHICLES

(capacity of lifting up 20,000 to 50,000 kg of payload into LEO)



VENTURE FUNDS TARGETED IN SPACE MARKET



FUND



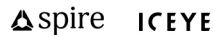
FOUNDED

2014

2007

2006

ICONIC INVESTMENT



CURRENT FOCUS

Current investment plans are to add to our portfolio various companies from different segments of the space ecosystem:

- Component suppliers for small satellites
- Small satellite manufacturers
- Space tugs and debris removal systems
- Ground and communication services
- Earth observation and data analysis
- Moon projects and commercial deep space exploration missions

Singular focus on early-stage space ventures puts it in the position to weed out unqualified opportunities (only less than 5% applications satisfied investment criteria)

The fund invests in both downstream (software), and upstream (hardware) NewSpace opportunities, along with technologies which rely on satellite data such as drones and the Internet of Things, or which have potential space applications such as artificial intelligence, robotics and nanomaterials

ABOUT NOOSPHERE VENTURES

NOOSPHERE VENTURES

is a team of professionals who believe in New Space and are building a streamlined space business ecosystem. We invest in world class teams, technologies and business systems that can change the world.

CONTACTS

If you have a relevant business that is looking for venture capital funding, submit your business plan for review pitchdeck@noosphereventures.com

Our professional team has excellent investment and technical background, and our expertise helps to assess the prospects of projects and pursue it for many years to come.

For questions & feedback about the report industry@noosphereventures.com



OUR SPACE PORTFOLIO



ABOUT NOOSPHERE VENTURES

We are engaged in the strategic development and expansion of the space sector.

We invest in teams and companies from seed to emerging growth stages and provide a powerful combination of capital and alternative resources for space companies. We are happy to lead deals or syndicate with other quality investors.

So far, we have invested over \$100M in launch vehicles provider Firefly Aerospace, and lesser amounts in other projects.

“Noosphere is focusing on everything in between, which is constellations and other systems.

We are open to cooperation and are currently looking for bus providers and a constellation owner to deploy and monetize the constellation. The constellation (EOS SAR) will be part of a fully US owned and operated commercial remote sensing enterprise.

– Dr. Max Polyakov

www.spaceintelreport.com/noosphere-ventures-firefly-launch-vehicle-then-data-analytics-then-satellite-production-then

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DR. MAX POLYAKOV

Managing Partner of Noosphere Ventures