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Start-Up Space 2019

Carissa Bryce Christensen
CEO of Bryce Space and Technology, LLC

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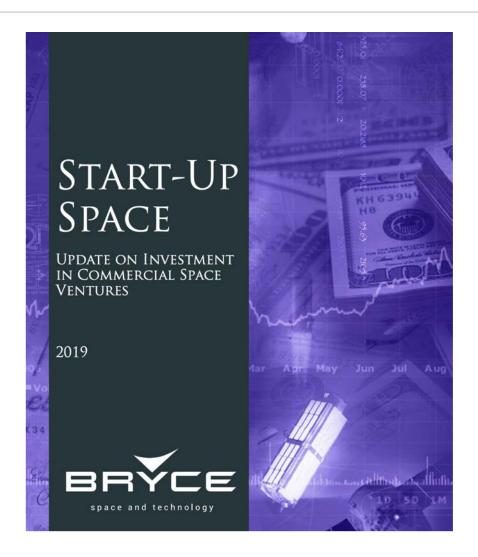
space and technology

Start-Up Space 2019

Start-Up Space 2019



- ✓ Analyzes 21st century investment trends
- Focus: investors, investment in new companies with private financing
- Bryce produced the original of this report in 2016 with funding from a grant program of the NASA Ames Emerging Space Office
- ▼ The report was so well received that Bryce has updated it every year since 2016 and intends to continue in 2020.



21st Century Investments in Start-Up Space



- ✓ \$21.8 billion of investment since 2000 includes:
 - \$8.4 billion in early and late stage venture capital
 - \$3.1 billion in seed financing
 - \$4.7 billion in debt financing
- 220+ new angel- and venture-backed space companies
- → 700+ investors in start-up space



Investment by Type (2016-2018)



Investment Type	2016 (millions)	Change	2017 (millions)	Change	2018 (millions)
Seed/Prize/Grant	\$447.7	22%	\$548.3	44%	\$791.7
Venture Capital	\$1,617.8	2%	\$1,642.8	22%	\$2,002.4
Private Equity	\$0	0%	\$0.0		\$85.0
Acquisition	\$962.5	-63%	\$360.0	-72%	\$100.0
Public Offering	\$0	0%	\$0.0	0%	\$0.0
Total Investment	\$3,028.0	-16%	\$2,551.0	17%	\$2,979.1
Debt Financing	\$1.9	159%	\$5.0	5010%	\$254.0
Total with Debt	\$3,030.0	-16%	\$2,556.0	26%	\$3,233.1

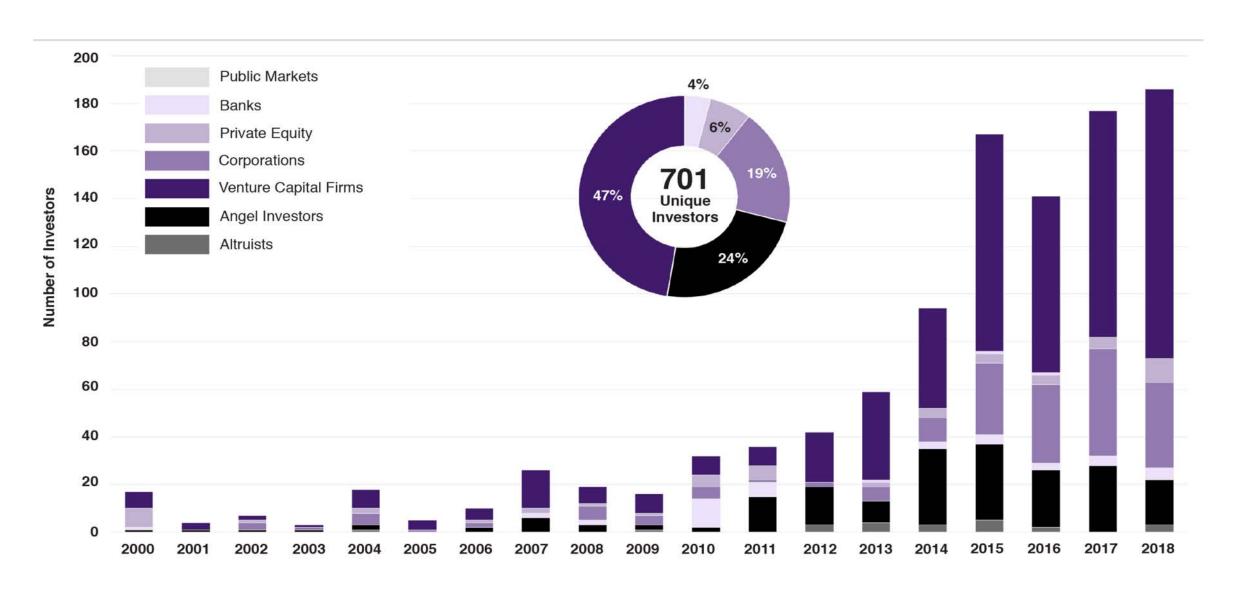
21st Century Investments in Space Ventures



Investment Type	2000-2006 (millions)	2006-2012 (millions)	2012-2018 (millions)	Total 2000-2018 (millions)
Seed/Prize/Grant	\$742.0	\$201.9	\$2,170.3	\$3,114.2
Venture Capital	\$327.9	\$519.6	\$7,543.5	\$8,390.9
Private Equity	\$234.2	\$1,300.8	\$301.0	\$1,835.9
Acquisition	\$0.0	\$584.0	\$3,098.3	\$3,682.3
Public Offering	\$0.0	\$0.0	\$23.4	\$23.4
Total Investment	\$1,304.1	\$2,606.3	\$13,136.4	\$17,046.8
Debt Financing	\$710.0	\$3,388.4	\$637.8	\$4,736.2
Total with Debt	\$2,014.1	\$5,994.6	\$13,774.2	\$21,782.9

Number of Investors by Type (2000-2018)





Multiple VCs Investing in Start-Up Space

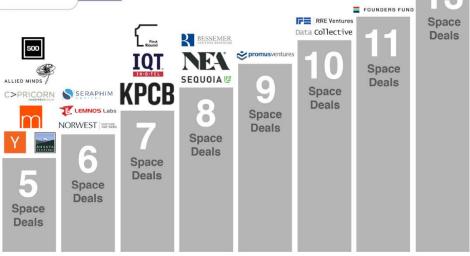










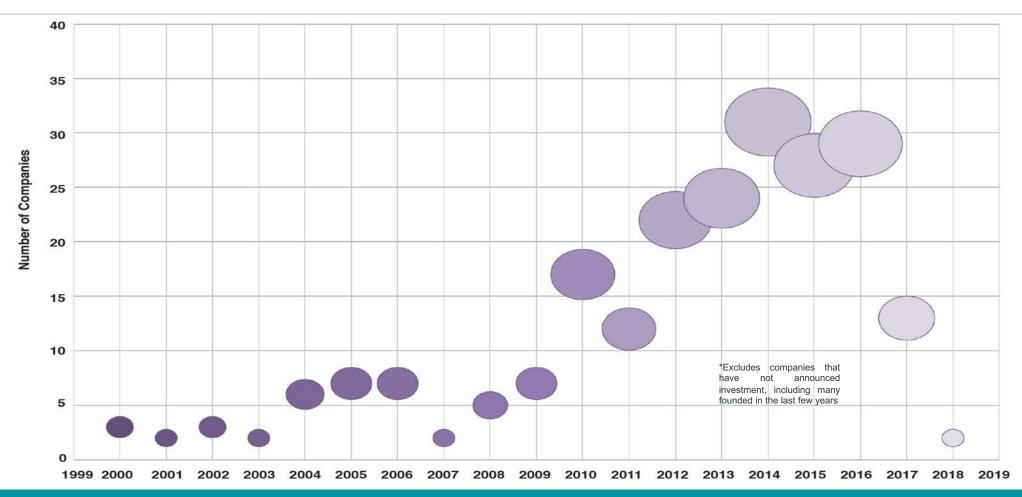


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khosla ventures

Number of Funded Start-Up Space Ventures by Year Founded*

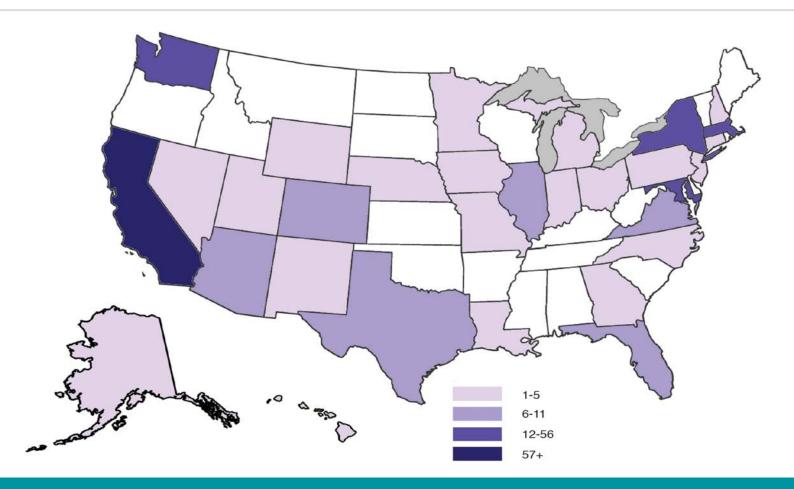




Bryce anticipates that the number of reported start-up space companies founded in 2018 (2) will likely increase in the future

U.S. Start-up Space Investors

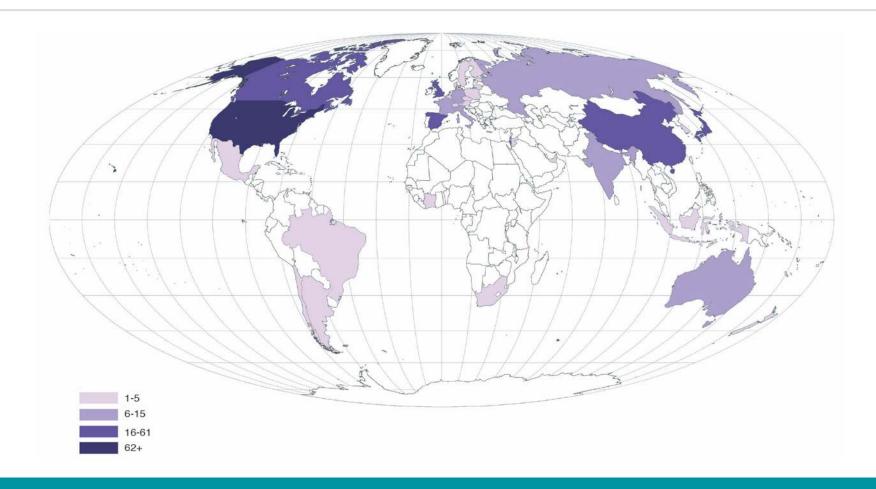




Since 2000, investors in space companies are primarily headquartered in the United States (382), representing about 54% of the total; California is home to nearly half of these investors

Start-up Space Investors Globally





Since 2000, there have been 315 non-U.S. investors in start-up space companies, based in 37 countries. The United Kingdom is home to 15 percent of non-U.S. investors (60), followed by Japan (50) and China (39)

Commercial Human Spaceflight: Billionaires and Buzz



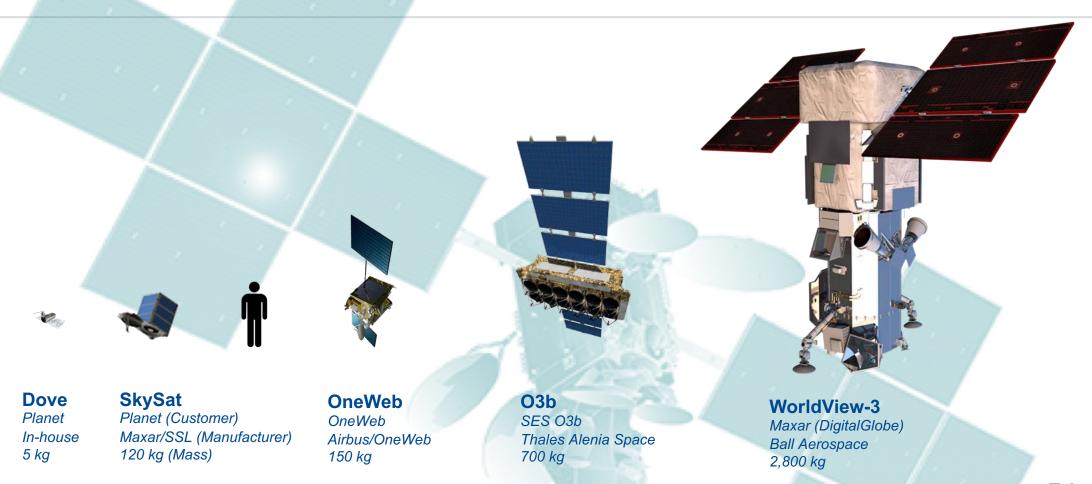






Smallsats Reduce Required Investment





Telstar 19V *Telesat Maxar SSL 7,070 kg*



- SpaceX is the only undisputed space unicorn, a private company with a valuation of \$1 billion or more
 - SpaceX now valued at \$30.5b
 - Within the top ten most valuable privately held companies in the United States
- OneWeb, Planet, and Rocket Lab have been reported by some sources to be unicorns
- Mapbox and Kymeta may be on the path

























Contact



Bryce Space and Technology

Corporate Offices

1199 North Fairfax Street, Suite 501 Alexandria, VA 22314 (703) 647-8078 Voice (703) 647-8250 Fax

- twitter.com/BryceSpaceTech
- brycetech.com
- in linkedin.com/company/bryce-space-tech

