Milbank

Space Business Review

Special Edition - Top Ten Space Business Stories of 2020

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#1 - COVID-19 Pandemic: Scourge and Silver Linings

The pandemic rattles the space industry, creating challenges—with in-flight connectivity in a holding pattern, leisure industry connectivity on a prolonged siesta and launch providers and satellite manufacturers suffering shut-downs and delays—yet causing an explosion in demand for remote connectivity. Along the way, industry leaders aid the fight against the virus, with Virgin Orbit building ventilators, DISH Network contributing spectrum, and Airbus, ULA and Virgin Galactic making PPE.

#2 - Financial Markets Prove Resilient and Responsive

Capital markets recover and private equity and venture investments abound, with significant fundraising activity by Astranis, Astroscale, ICEYE, Kymeta, Ligado, Relativity, SpaceX, Spire Global, DISH Network and Viasat. Momentus and AST SpaceMobile become the latest space companies to go public via SPACs.

#3 - Bankruptcies and Restructurings Abound

OneWeb files for Chapter 11 bankruptcy and emerges eight months later under new owners Bharti Global and the UK government; other U.S. bankruptcies include Global Eagle Entertainment, Intelsat and Speedcast International; non-U.S. bankruptcies include Sky and Space Global in Australia, UrtheCast in Canada and Phasor Solutions in the UK.

#4 – M&A in Space: Vertical Integration Takes Hold

Rocket Lab acquires Sinclair Interplanetary; Astroscale purchases IP assets of Effective Space Solutions; Maxar takes over full ownership of Vricon JV from Saab; Intelsat acquires Gogo commercial aviation division; AAC Clyde Space purchases Hyperion Technologies and SpaceQuest; Raytheon acquires Blue Canyon; Viasat takes sole ownership of Euro Broadband Infrastructure JV from Eutelsat and agrees to acquire RigNet; secured creditors receive bankruptcy court approval to buy Global Eagle Entertainment; Telesat and Loral Space & Communications announce they will combine to form a new Canadian public company; and Lockheed Martin agrees to acquire Aerojet Rocketdyne.

#5 - C-Band Spectrum Repurposing Cornucopia

The FCC approves \$9.7b in incentives for C-band spectrum clearing and schedule for accelerated action; 13 new GEO procurements boost U.S. satellite manufacturing and global launch services sectors; auction interest surges, with bids approaching \$70b in gross proceeds as of yearend.

#6 - SpaceX Reaches New Heights

SpaceX in 2020: achieves 100-launch milestone for Falcon 9 and sets new high marks for first stage reusability; debuts the manned Crew Dragon capsule, with two successful missions to the ISS; nears 1,000 satellites on-orbit for Starlink, with public beta testing underway; receives a contract from NASA to transport cargo to and from the lunar Gateway; raises almost \$2b in new equity funding; and scores \$885.5m from the FCC's Rural Digital Opportunity Fund to bridge the digital divide.

#7 - LEO Constellation Shakeout

The clouds continue to disperse in 2020, with the finalist track for LEO broadband constellations shaping up: SpaceX's Starlink, Amazon's Kuiper, Telesat LEO and restructured OneWeb lead the field.

#8 - Launch Services Sector Continues to Grow

Newer companies, including Blue Origin, Exolaunch, Firefly, Relativity, Rocket Lab and Virgin Orbit, and start-ups ABL Space Systems, Aevum, Generation Orbit, Gilmour, Isar, Landspace, OneSpace, Orbex, Skyrora, SpinLaunch and PLD Space, make strides in an increasingly populous sector, with forecasts of a launch market exceeding \$32b by 2027.

#9 - Notable 2020 Commercial Satellite Orders

Airbus: BADR-8, Optus 11 and Thuraya 4-NGS; Boeing: SES-20, SES-21 and four O3b mPower satellites; Northrop Grumman: SES-18, SES-19 and two C-band satellites for Intelsat; Maxar: Galaxy 37, Intelsat 40e and four C-band satellites for Intelsat; Thales Alenia: Amazonas Nexus, SES-22, SES-23 and two prototype satellites for Omnispace.

#10 - Key Commercial Launch Missions in Record Year

Highlights from among 85 orbital launch missions: Arianespace Ariane 5: BSAT-4b, EUTELSAT KONNECT, Galaxy-30, GSAT-30, JCSAT-17 and MEV-2; Arianespace Soyuz: 104 OneWeb satellites; Arianespace Vega: 12 SpaceBee cubesats and 26 SuperDove satellites; ExPace: Yinhe-1; ISRO PSLV: four Lemur cubesats and four Scouting Mission satellites; Long March 3B: Apstar-6D; Long March 6: 10 ÑuSat satellites; Russian Proton: Express-80 and Express-103; Russian Soyuz: two satellites for Kepler and four Lemur cubesats; Rocket Lab Electron: Sequoia and 24 SpaceBee cubesats; SpaceX Falcon 9: Global 7, Global 8, SXM-7, six SkySat satellites and 14 missions for Starlink.

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