

Global Orbital Space Launches

Q4 2021

Orbital Launches by Launch Provider

Last quarter, CASC had the most orbital launches, followed by SpaceX

15
LAUNCHES



8
LAUNCHES



7
LAUNCHES



6
LAUNCHES



3
LAUNCHES



2
LAUNCHES

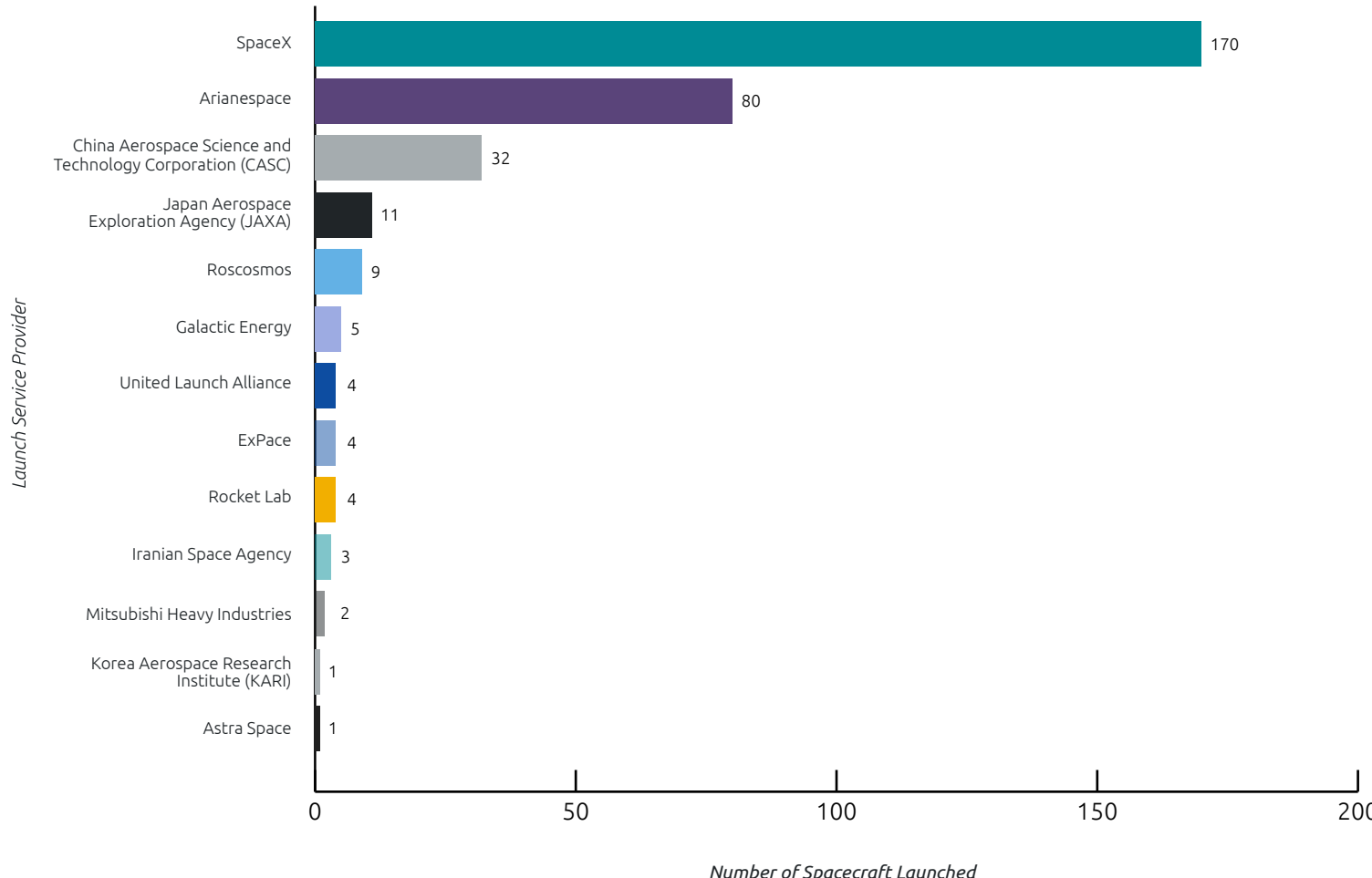


1
LAUNCH



Spacecraft Launched by Provider

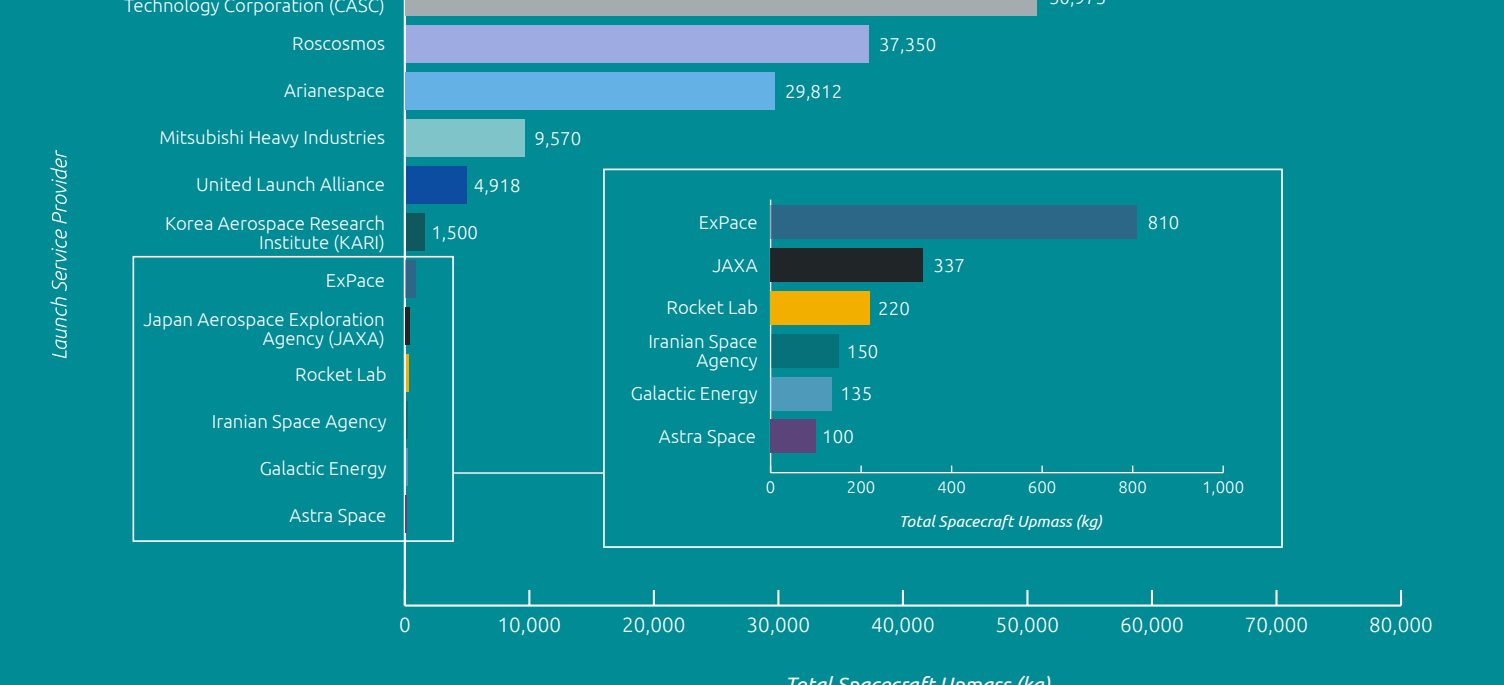
In Q4, SpaceX launched 170 spacecraft, the most of any launch provider



Includes spacecraft launched regardless of operational status

Spacecraft Upmass Carried by Launch Provider

SpaceX launched about 63,400 kg of spacecraft upmass in Q4, followed by CASC with about 51,000 kg



Includes estimates of spacecraft mass when not publicly disclosed

Orbital Launches by Country

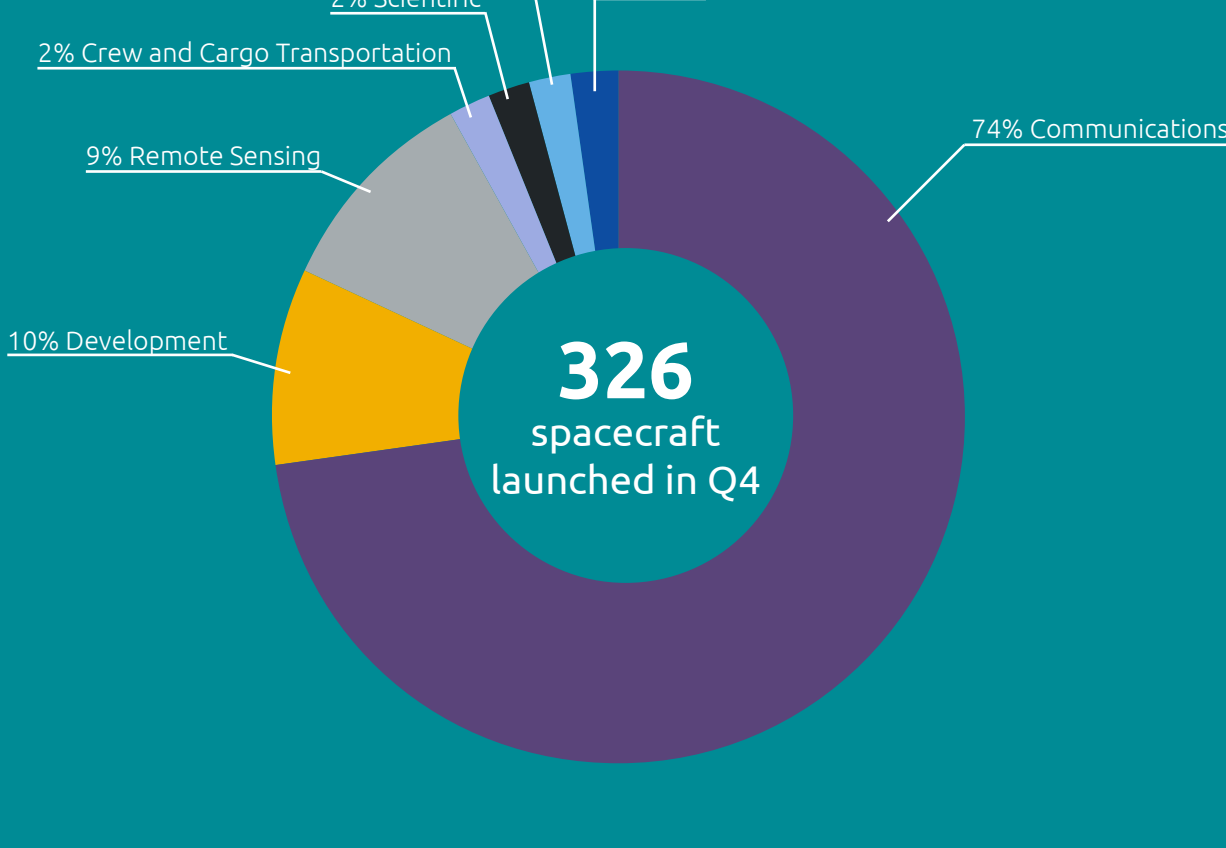
19 launches were conducted by Chinese providers, while U.S.-based providers conducted 13 orbital launches



*Rocket Lab is headquartered in the U.S. with a subsidiary in New Zealand. It is counted here as a U.S. company

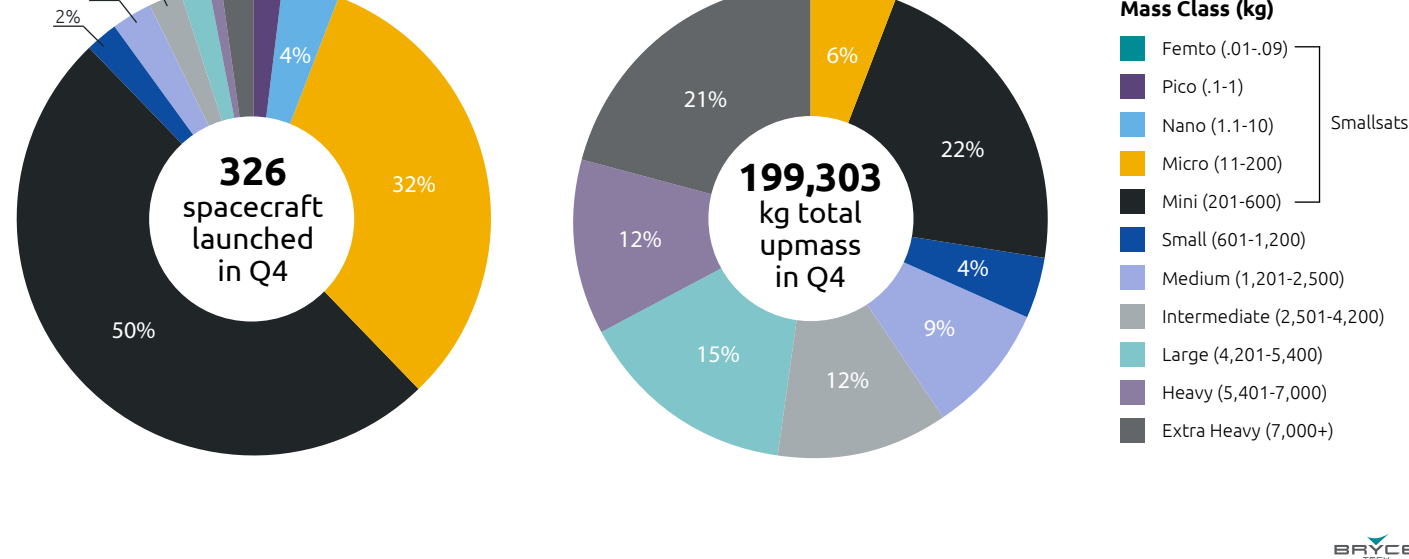
Spacecraft by Service Type

Driven by continued deployment of the OneWeb and Starlink constellations, most spacecraft launched in Q4 were communications satellites



Spacecraft Launched and Total Upmass by Mass Class

Smallsats represented 88% of spacecraft launched in Q4, 28% of total upmass



Spacecraft by Operator Type

Most spacecraft launched in Q4 are operated by commercial companies

