

# Global Orbital Space Launches

## Q3 2021

### Orbital Launches by Launch Provider

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

**15**  
LAUNCHES



**5**  
LAUNCHES



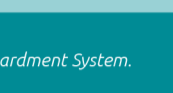
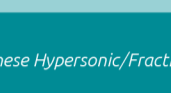
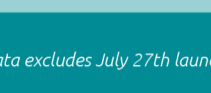
**3**  
LAUNCHES



**2**  
LAUNCHES



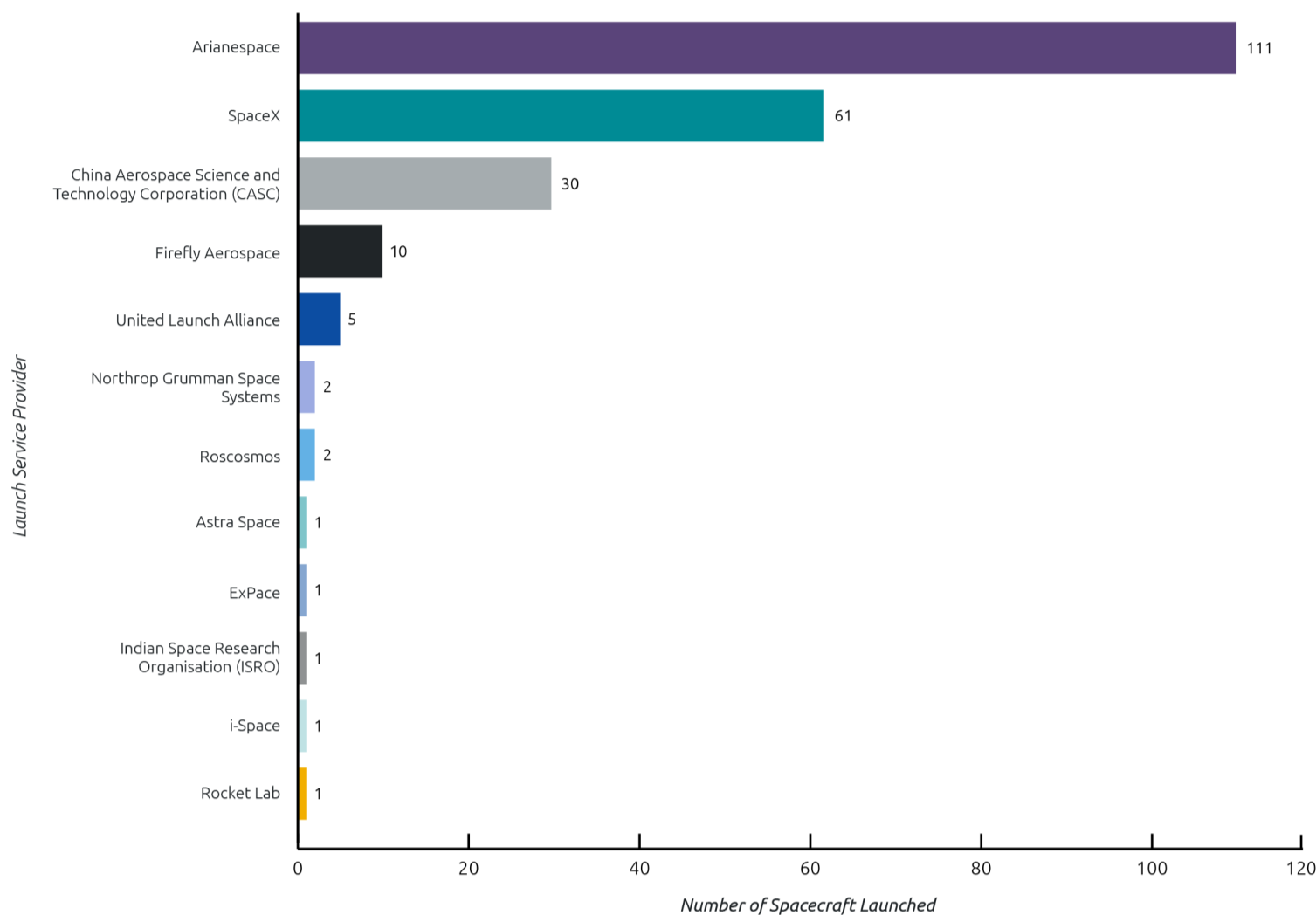
**1**  
LAUNCH



Counts include unsuccessful launches. Data excludes July 27th launch of Chinese Hypersonic/Fractional Orbital Bombardment System.

### Spacecraft Launched by Provider

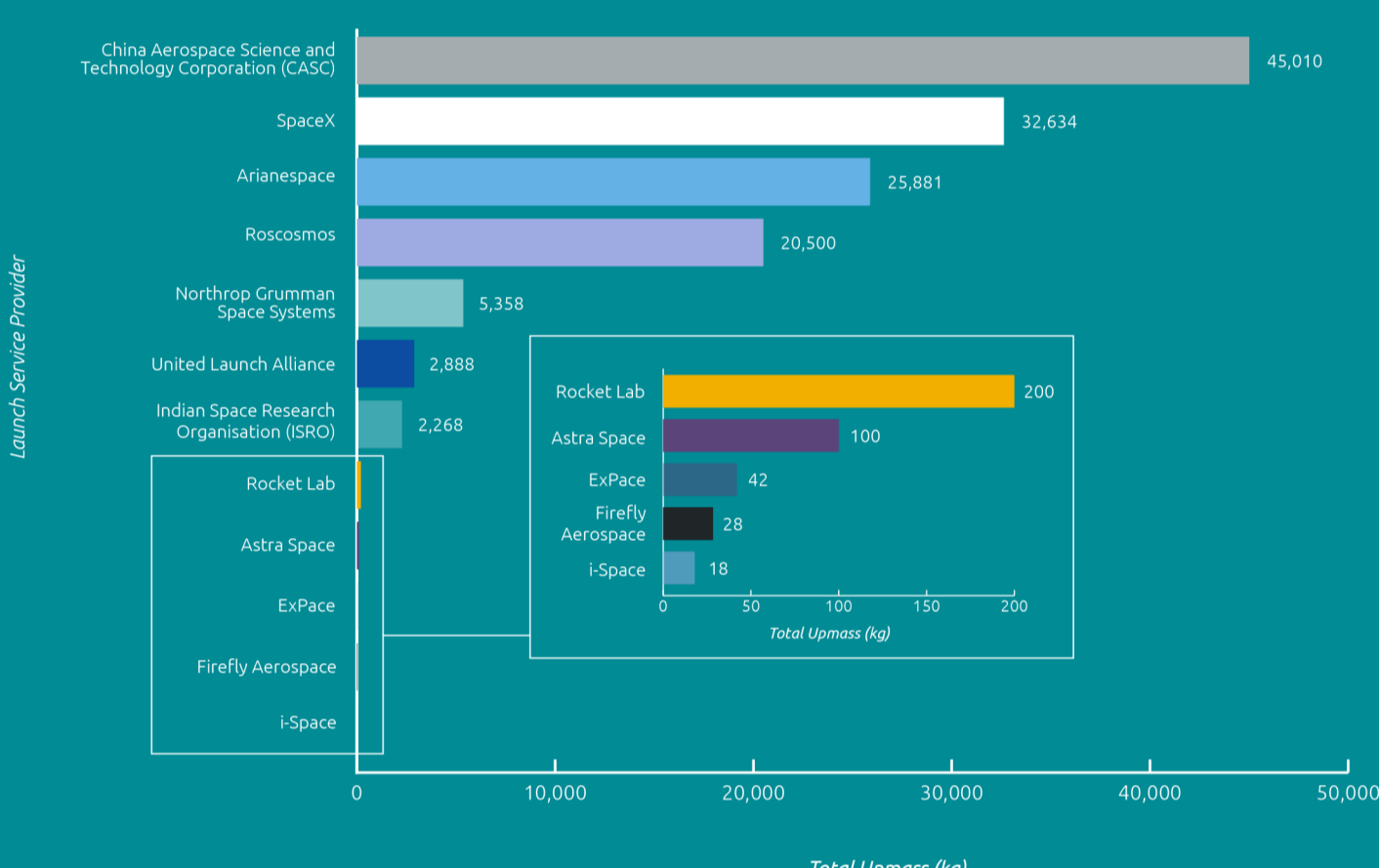
In Q3, Arianespace launched 111 spacecraft, the most of any launch provider



Includes spacecraft launched regardless of operational status

### Upmass Carried by Launch Provider

CASC launched about 45,000 kg of upmass in Q3, followed by SpaceX with about 32,600 kg



Includes estimates of spacecraft mass when not publicly disclosed

### Orbital Launches by Country

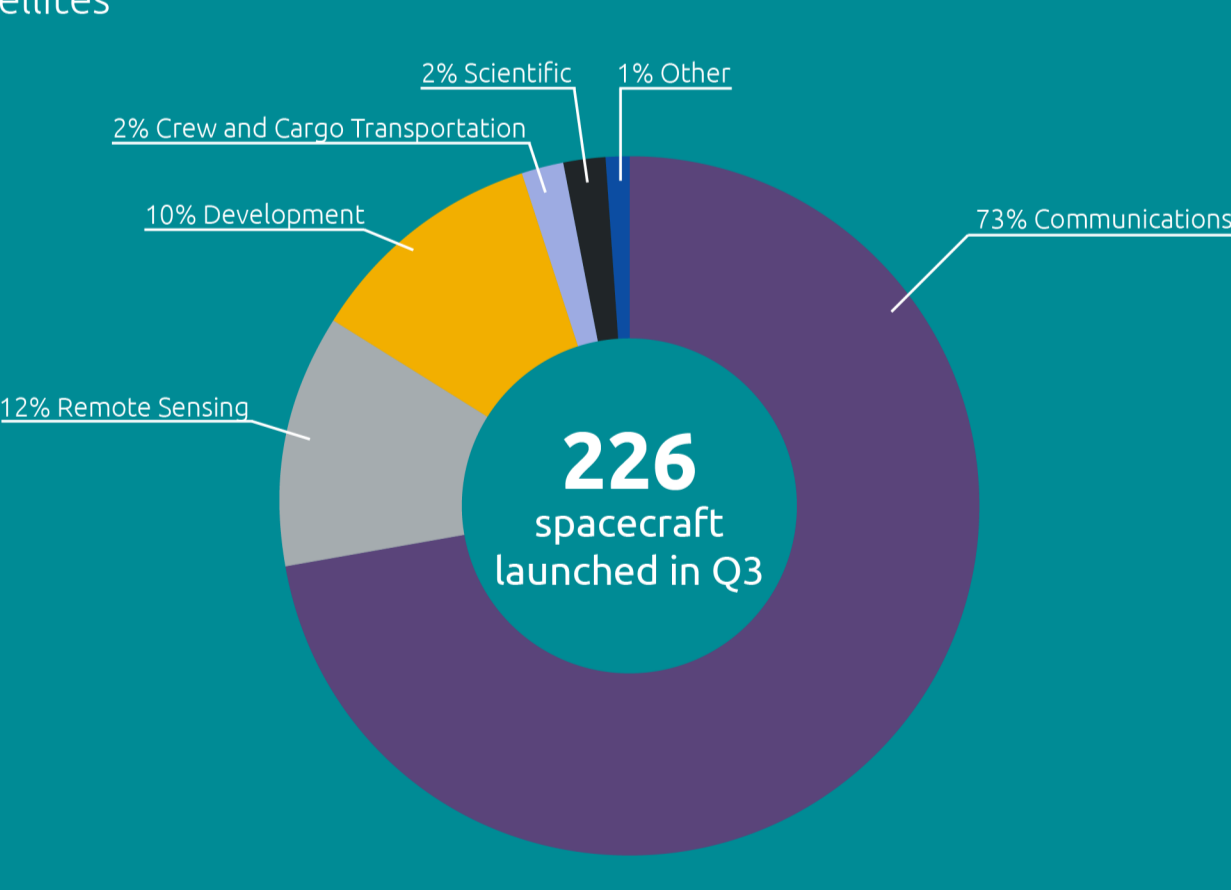
17 launches were conducted by Chinese providers, while U.S.-based providers conducted 8 orbital launches



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

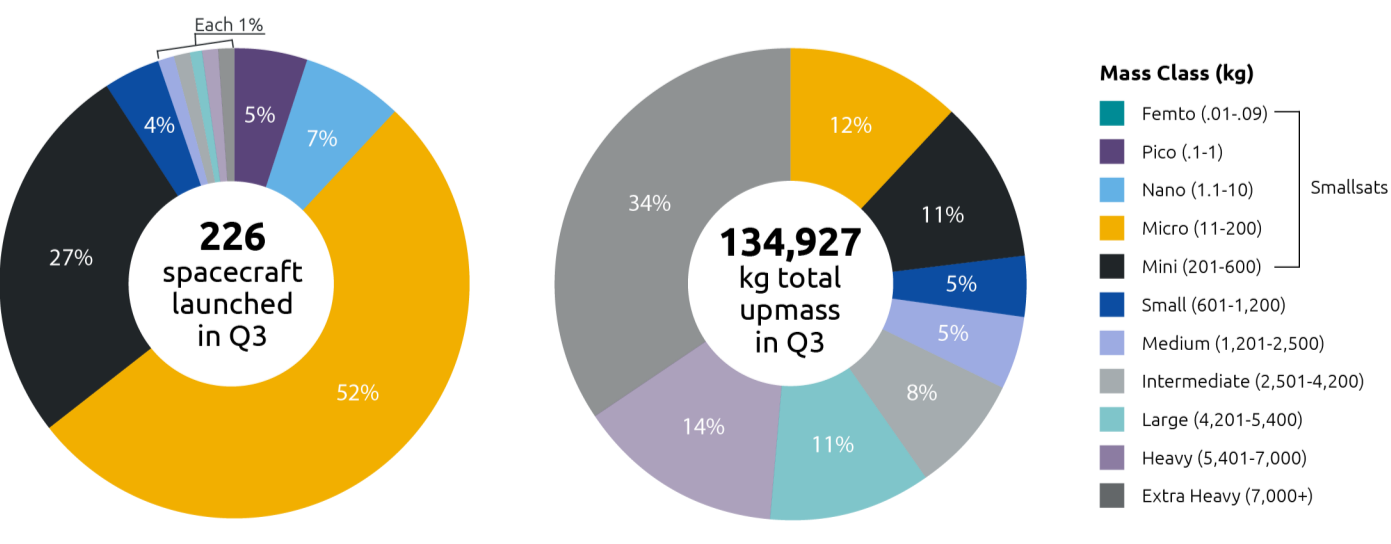
### Spacecraft by Service Type

Driven by continued deployment of the OneWeb and Starlink constellations, most spacecraft launched in Q3 were communications satellites



### Spacecraft Launched and Total Upmass by Mass Class

Smallsats represented 90% of spacecraft launched in Q3, 24% of total upmass



### Spacecraft by Operator Type

Most spacecraft launched in Q3 are operated by commercial companies

