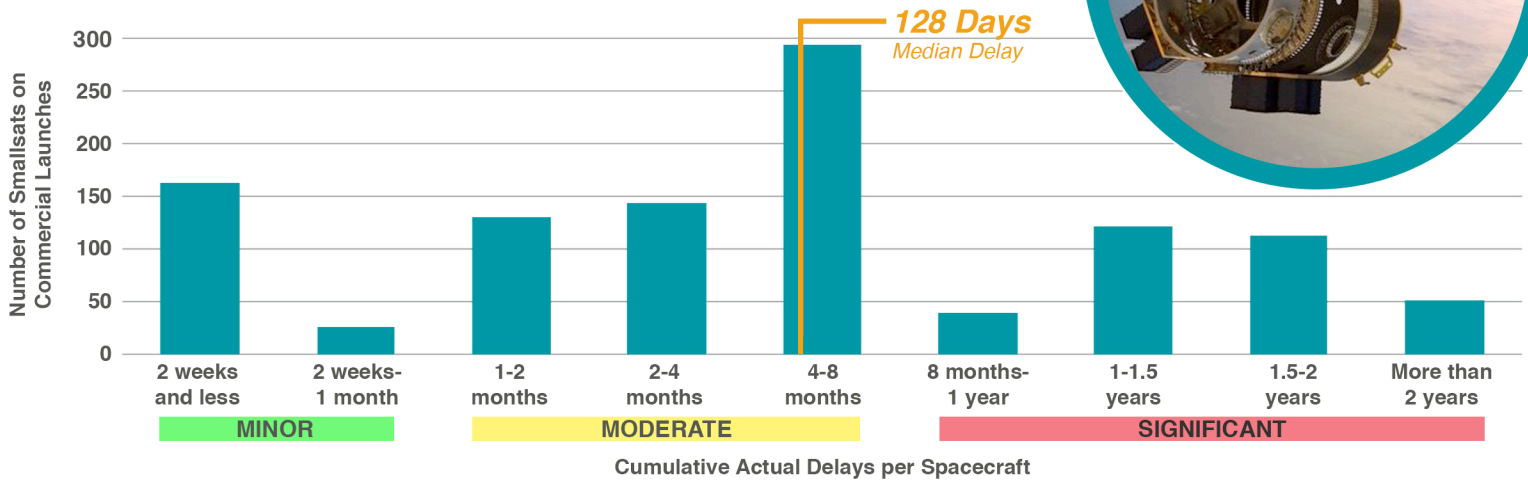


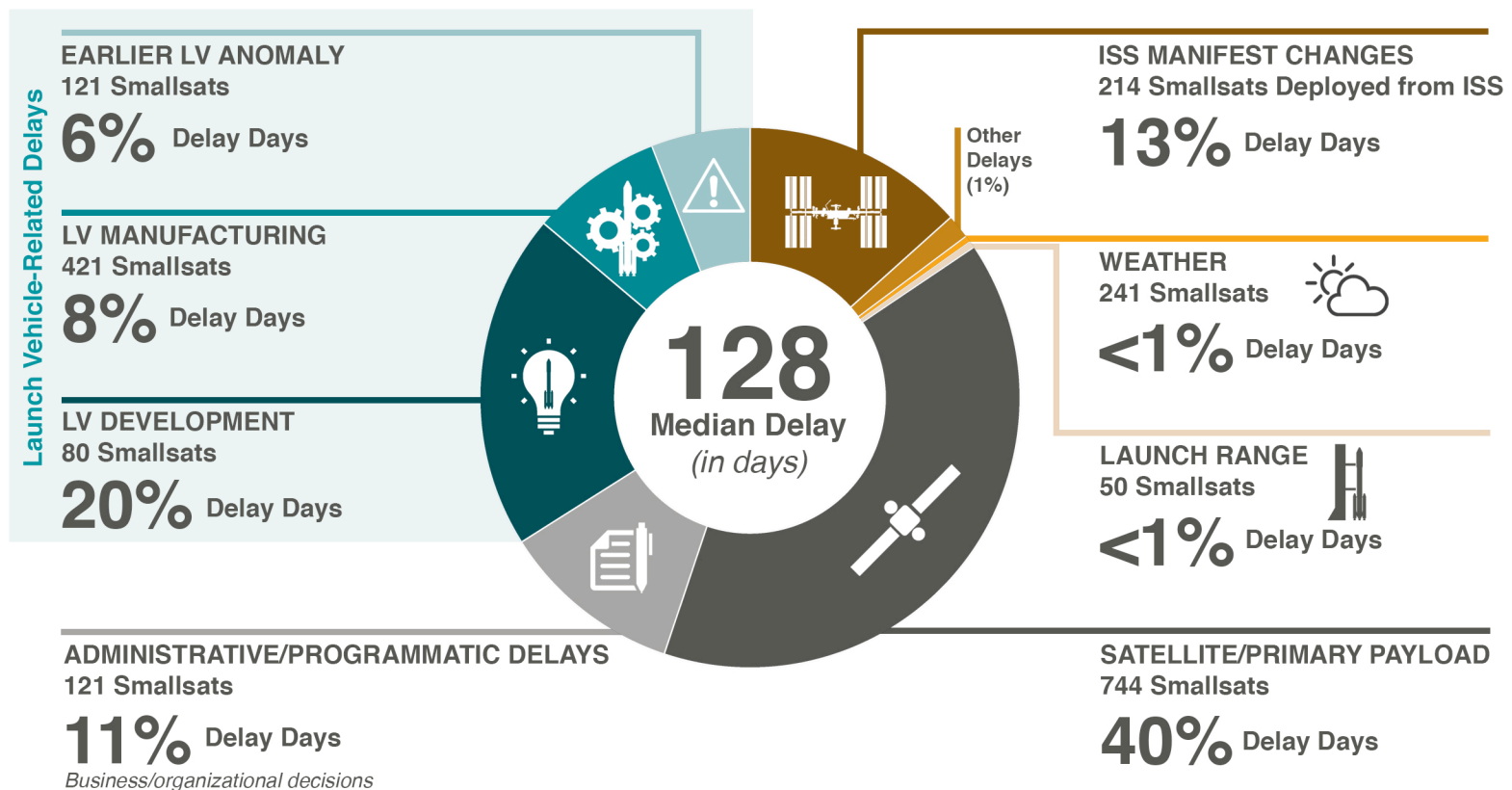
Smallsat Launch Delays

All 1,078 smallsats on commercial launches in the last 5 years experienced delays.



Causes of Smallsat Launch Delays

Most missions experience multiple types of delays. Estimated delay days attributable to each cause shown below.

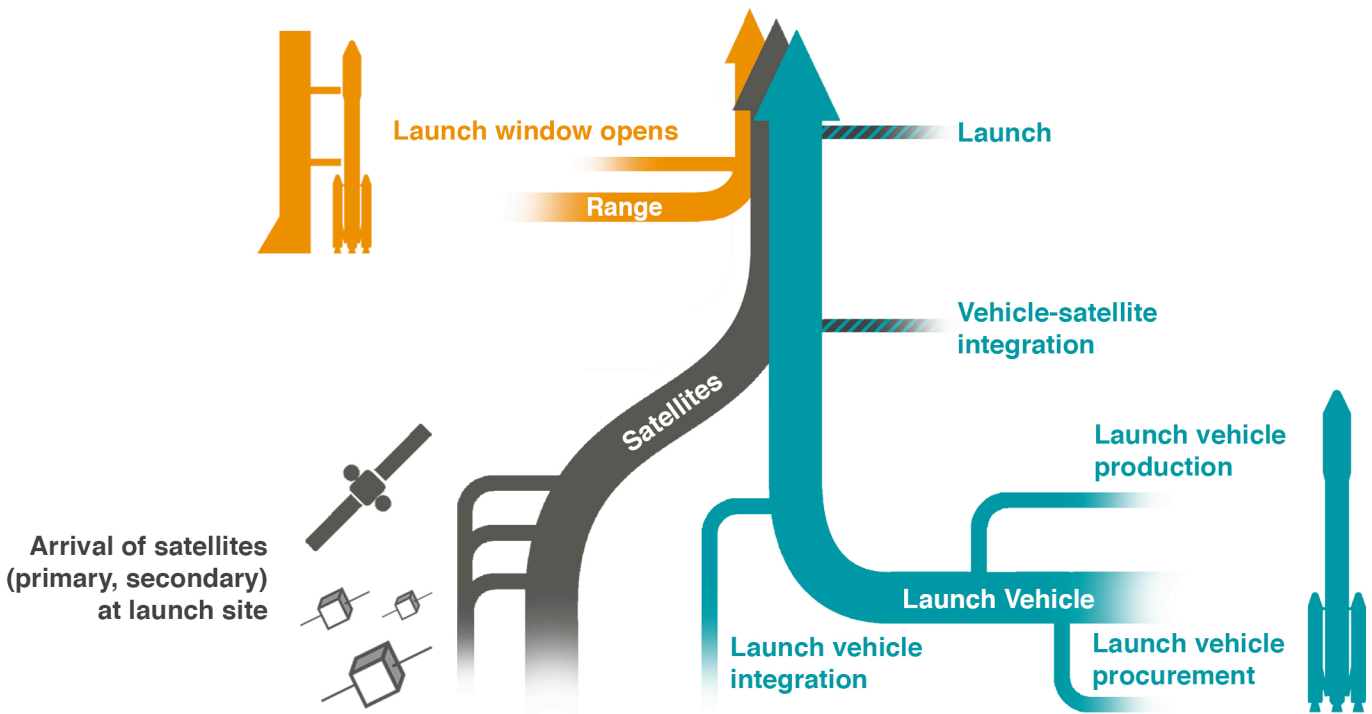
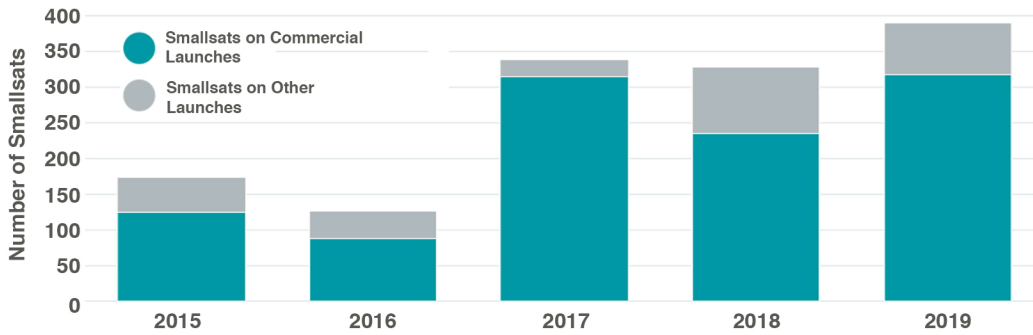


This study examines delays of smallsats (less than 600 kg) on commercial launches. Commercial launches are those licensed by the FAA, internationally competed, and/or with a commercial satellite onboard and exclude launches from China, Iran, and North Korea. Length of delay is number of days between the initial publicly announced launch date and the actual launch date. Bryce applied delay data to all smallsats on a launch. Bryce conducted analysis based on published sources and interviews.

Smallsat Launches

Smallsat launches generally require coordinating multiple satellites as well as launch vehicle and range operations.

Number of Smallsats Launched (2015-2019)



Mitigating Delays



Understand Delays

Know what to track



Assess Potential Costs

Direct & indirect



Plan Appropriately
Maintain margin & flexibility

Independent study commissioned by: