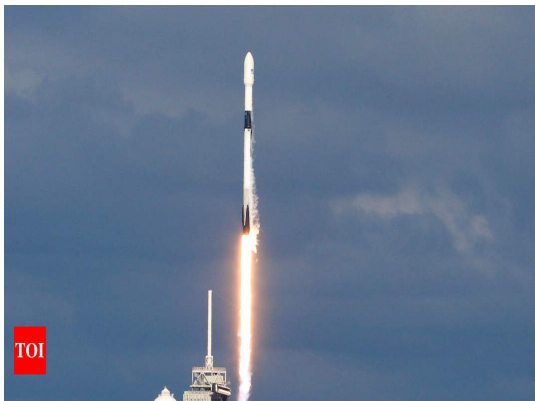


## ExseedSAT 1, India's 1st private satellite 5<sup>th</sup> December, 2018



### **What to study?**

- **For Prelims: About ExseedSAT 1, significance of Falcon 9 recent launch.**
- **For Mains: Applications and significance of ExseedSAT 1, Private participation in India's space program- challenges and potential.**

**Context:** With the launch of ExseedSAT 1, Exseed Space has become the first Indian privately-funded startup to successfully send a satellite into space.

- ExseedSAT 1 was launched into space by Space X along with 63 other satellites from 17 countries.

### **About ExseedSAT 1 and its applications:**

- The mini communication satellite weighing just a kg with double the size of a Rubik's cube (10 cm x 10 cm x 10 cm) is made up of aluminium alloy.
- The satellite looks to serve the amateur radio community.
- The satellite with a lifespan of five years will allow people to receive signals on 145.9 Mhz frequency with the help of a TV tuner.
- The satellite would provide a big boost to private radio operators and help in coordinating messages among them and help the country in time of disaster.

### **Significance of recent Falcon 9 launch:**

With this Falcon 9 launch, SpaceX broke **two records**. **This was the US private space agency's 19th launch of the year topping its previous annual record of 18**, which was set last year. Second, **the Falcon 9 rocket managed to deliver 64 satellites into orbit breaking the US record** (India holds the world record for launching 104 satellites in one go on February 15, 2017).

### **To be looked in UPSC Paper 3 Topic :**

1. Achievements of Indians in science & technology; indigenization of technology and developing new technology.
2. Indigenization of technology and developing new technology.
3. Awareness in space.