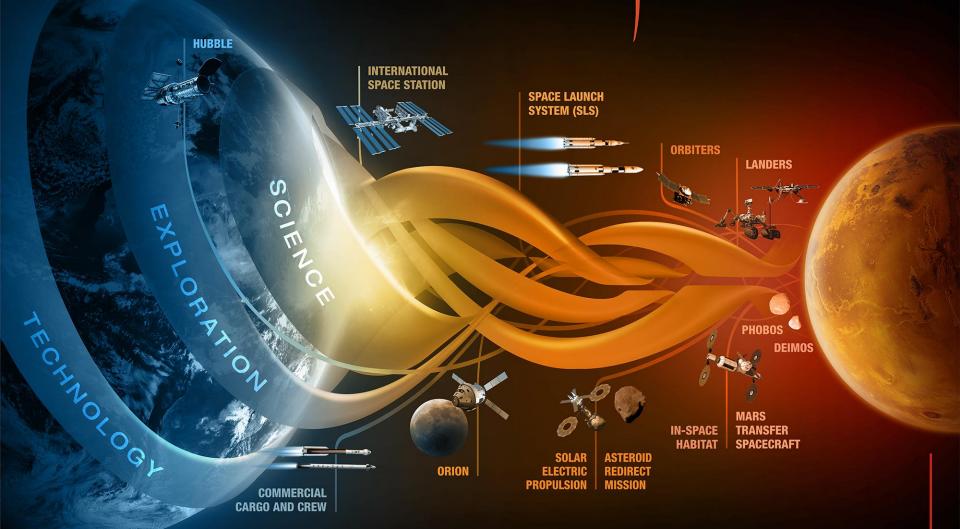


JOURNEY TO MARS





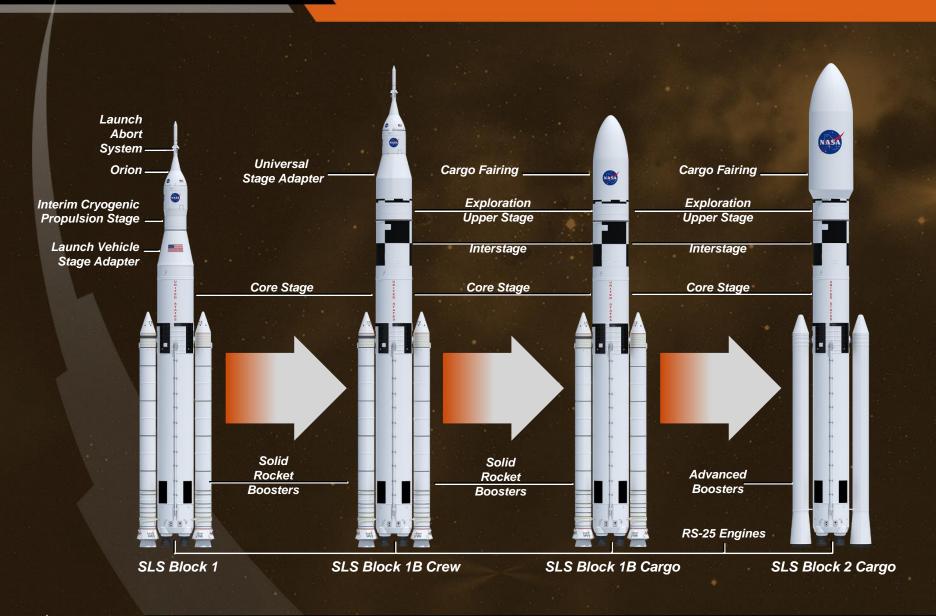
MISSIONS: 6-12 MONTHS
RETURN: HOURS
EARTH RELIANT

MISSIONS: 1 TO 12 MONTHS RETURN: DAYS MISSIONS: 2 TO 3 YEARS RETURN: MONTHS

PROVING GROUND

EARTH INDEPENDENT

SLS Evolution Overview





SLS Block 1B & Mission Element Concepts Under Study

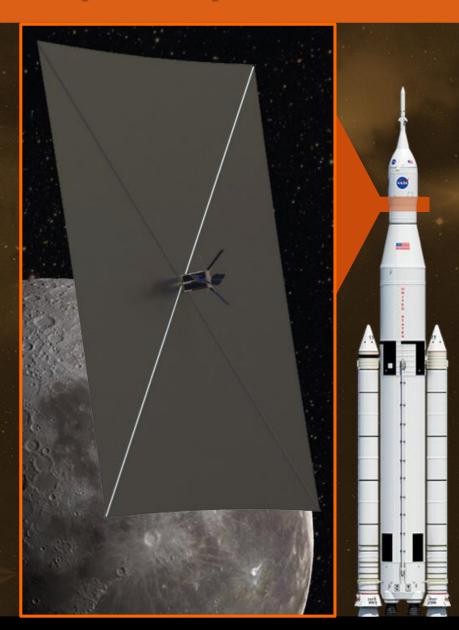


Secondary Payload Capability

 Thirteen small-sat secondary payloads of 6U volume/mass (14 kg payload mass) will fly on the first flight of Space Launch System.

Among the potential payloads are these three candidates identified by NASA's Advanced Exploration Systems:

- BioSentinel: Study radiation-induced DNA damage of live organisms in cislunar space; correlate with measurements on ISS and Earth.
- Lunar Flashlight: Locate ice deposits in the moon' permanently shadowed craters
- Near Earth Asteroid (NEA) Scout:
 Flyby/rendezvous and characterize one
 NEA that is a candidate for a human mission.



STATE OF THE ROCKET







