

SPACE LAUNCH SYSTEM DELIVERS HUMANS TO THE MOON AND MARS

NO OTHER ROCKET CAN LIFT ORION MUCH BEYOND LOW EARTH ORBIT

SPACE LAUNCH SYSTEM (SLS)

Delivers more payload in much less time to Mars.

ORION

APPROXIMATELY 27 METRIC TONS

Crew transportation vehicle that carries humans from Earth to in-space habitats and back. Note: Apollo - 30 mt

SPACE LAUNCH SYSTEM (SLS)

is capable of launching Orion plus 10 mt of additional payload to lunar orbit.

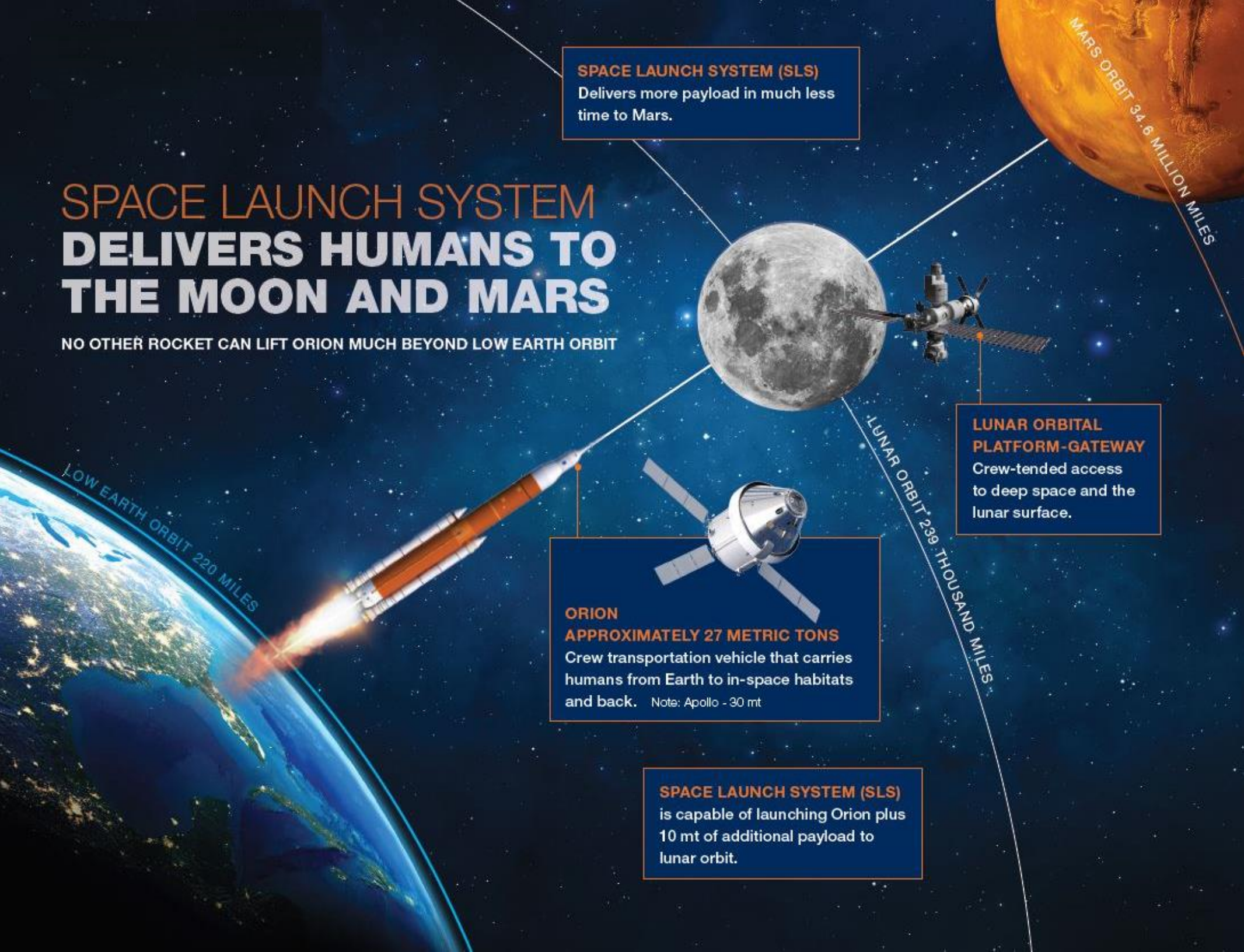
LUNAR ORBITAL PLATFORM-GATEWAY

Crew-tended access to deep space and the lunar surface.

LOW EARTH ORBIT 220 MILES

LUNAR ORBIT 239 THOUSAND MILES

MARS ORBIT 34.6 MILLION MILES



NASA'S SPACE LAUNCH SYSTEM

SLS is the only rocket that can deliver Orion to the moon and beyond

ORION IS NASA'S CREW VEHICLE DESIGNED FOR DEEP SPACE EXPLORATION.

- Orion weighs 27 mt with crew and deep space supplies
- SLS delivers co-manifested cargo (up to 10 mt) on every Orion flight to lunar orbit (crew habitats, power and logistics modules, science equipment)
- SLS delivers the heavy elements for Lunar Orbital Platform - Gateway
- 8.4 m fairing provides ability to launch larger, heavier exploration elements, greatly improving mission efficiency and simplifying on-orbit assembly
- Orion has 21 days capability with 4 crew, providing safe haven on the journey
- Orion is tug for gateway elements, avoiding the weight and cost of an extra propulsion element

Metric Tons

