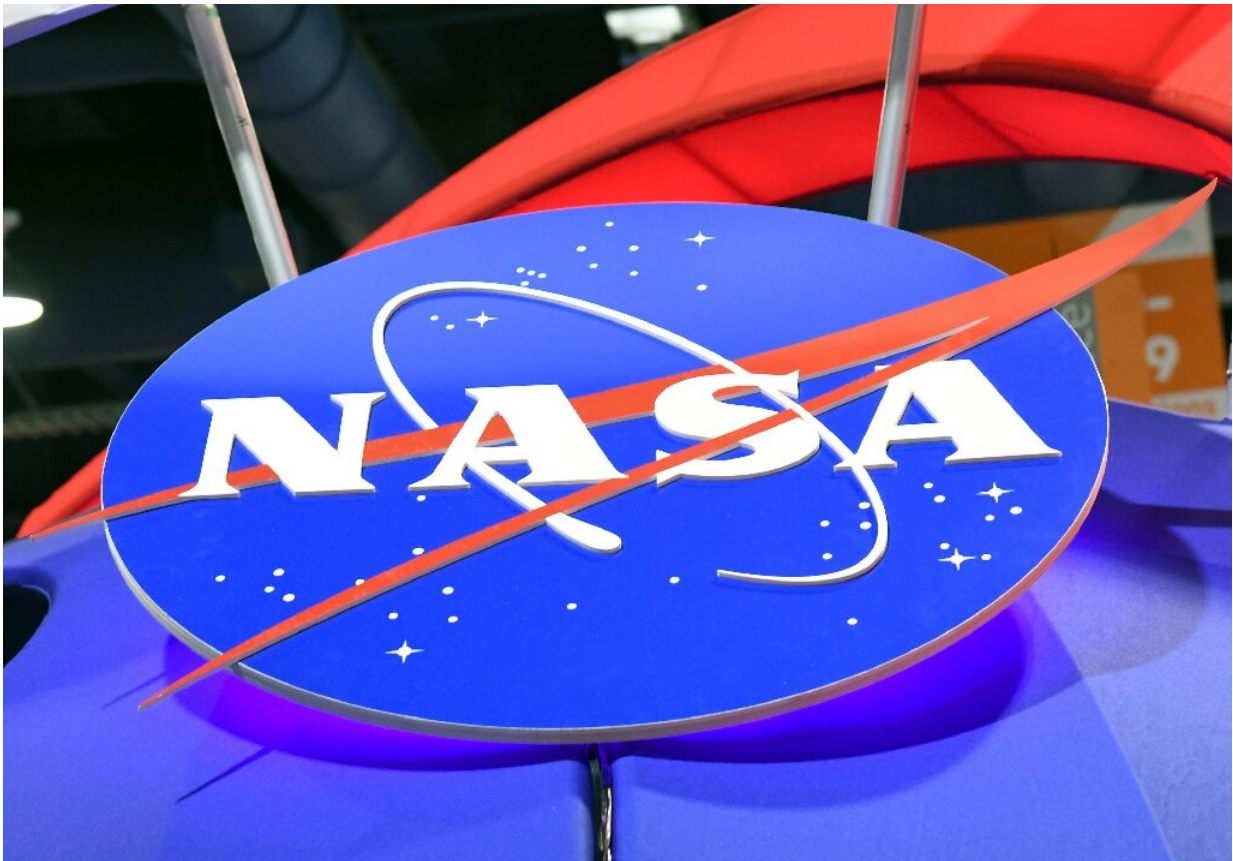


# NASA in megadeal with Lockheed for moon mission

September 24 2019

---



A megadeal between NASA and Lockheed Martin calls for a first phase of three Orion capsules that will take astronauts back to the moon

NASA on Monday earmarked almost \$3 billion to Lockheed Martin to build three Orion capsules, to allow US astronauts to return to the moon

by 2024.

The megadeal calls for a first phase including three capsules for \$2.7 billion, for Artemis missions III to V—to take astronauts back to the [moon](#).

Each [capsule](#) can carry four astronauts.

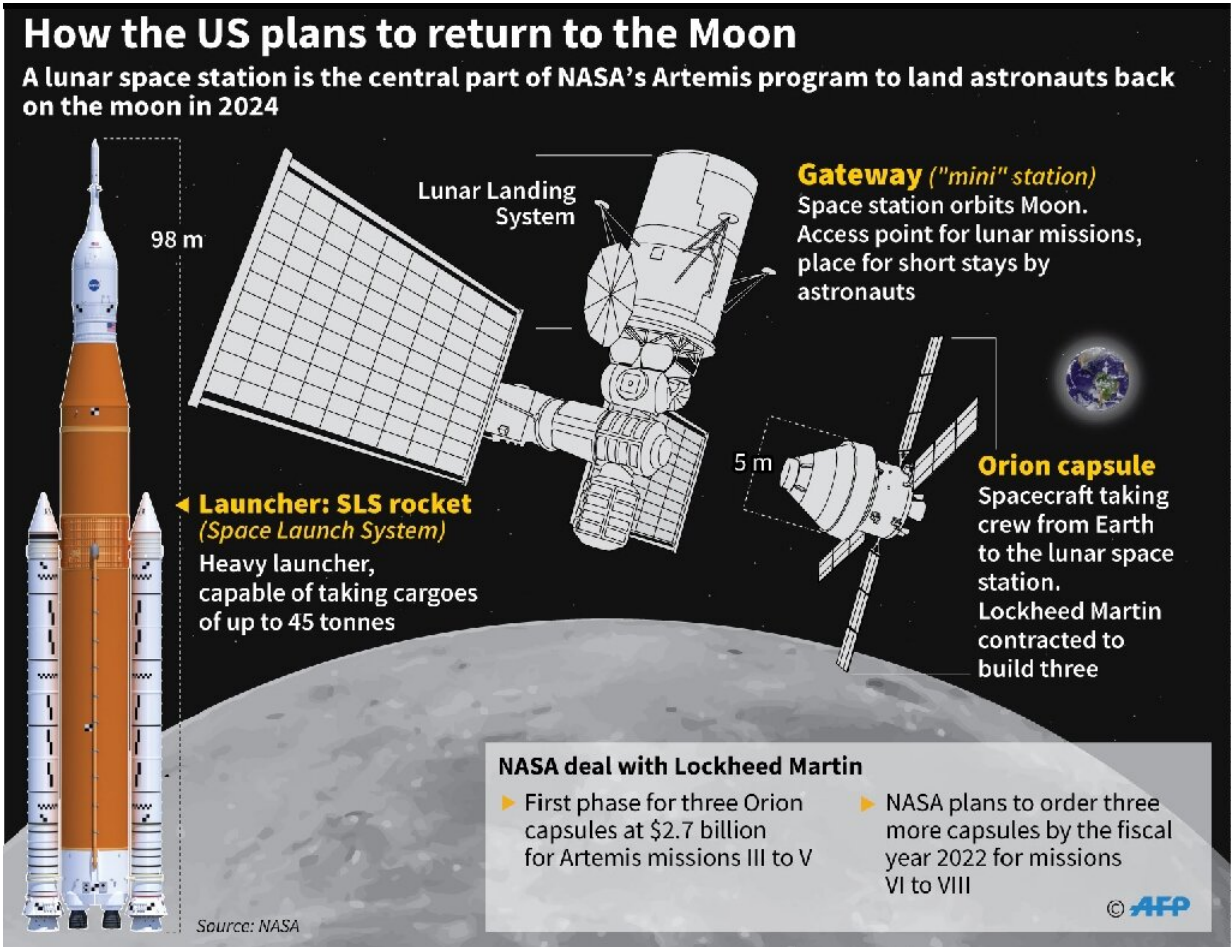
The space agency plans to order three more capsules during [fiscal year](#) 2022 for missions VI to VIII, for a total of \$1.9 billion, said a NASA statement.

Six other capsules can be ordered later.

"This contract secures Orion production through the next decade, demonstrating NASA's commitment to establishing a sustainable presence at the Moon to bring back new knowledge and prepare for sending astronauts to Mars," said NASA Administrator Jim Bridenstine.

The Orion capsule must be able to bring astronauts to the Moon and back, and it must also be capable of traveling to Mars and beyond.

"Orion is a highly capable, state-of-the-art spacecraft, designed specifically for deep space missions with astronauts, and an integral part of NASA's infrastructure for Artemis missions and future exploration of the solar system," Bridenstine added.



Graphic on NASA's Artemis program to establish a mini-space station orbiting the Moon before landing on the surface in 2024

NASA believes that ordering in groups of three capsules—up to a dozen are now envisaged —should help it save money.

The service module—the part of the ship that has the main elements to keep astronauts alive during their flight—is the responsibility of the European Space Agency.

Orion capsules must also be reusable at least once.

In addition to the capsule that will orbit around the Moon attached to a mini-station (the Gateway), NASA asked the aerospace sector at the end of July to propose detailed vehicle projects to land two [astronauts](#) on the Moon by 2024, including the first woman.

For now, the Artemis program is running behind schedule, mainly because of the construction delays of the SLS heavy rocket, piloted by NASA.

The flight of the Artemis I mission—unmanned—is scheduled for 2020. The first manned Artemis II flight is scheduled for 2022.

© 2019 AFP

Citation: NASA in megadeal with Lockheed for moon mission (2019, September 24) retrieved 19 April 2024 from <https://phys.org/news/2019-09-nasa-megadeal-lockheed-moon-mission.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.