

ORION

Mankind on the way to the Moon and beyond

ORION EUROPEAN SERVICE MODULE

For the first time, NASA will use a European built system as a critical element to power a human spaceflight mission.

1st European supply of critical functions for an American space mission:



Spacecraft propulsion



Electrical power supply



Consumable storage (water and air)



Thermal control

As prime contractor to ESA Airbus provides:



Program and subcontractor management



The propulsion subsystem



Systems engineering



Solar arrays

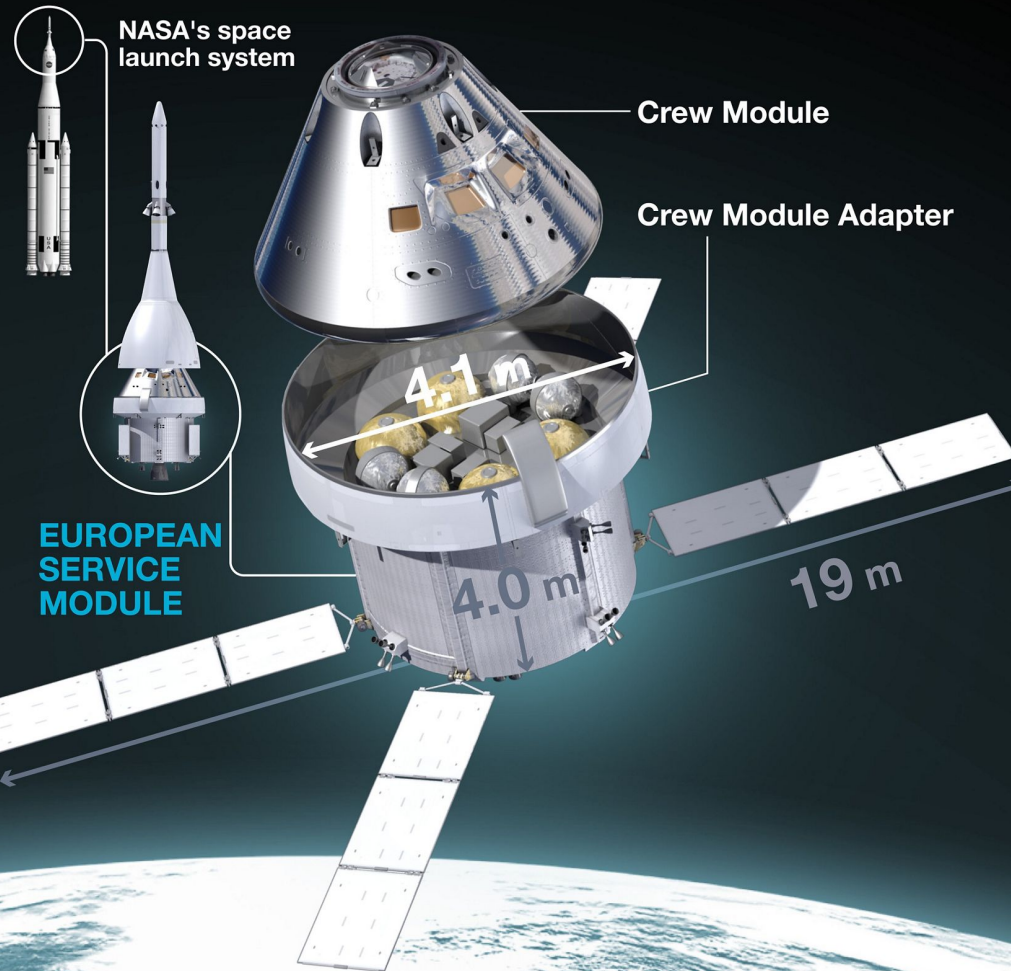


Assembly, integration & test of the ESM



Operations support

© Airbus - 2018



The Orion programme 

For the first time in history, NASA and ESA are joining forces to launch the first of a series of missions to send astronauts beyond the moon.

The Airbus experience 

The Orion European Service Module is testimony to the excellent technologies and expertise of the Airbus team demonstrated by designing and building the highly successful **Automated Transfer Vehicle, the largest supply carrier to the International Space Station**, that was used as the design base.

Airbus built up a significant heritage in human spaceflight with ESA/NASA, coming from projects like the **Columbus laboratory and International Space Station operations**.

AIRBUS