UNITED NATIONS COMMITTEE ON THE PEACEFUL USES OF OUTER SPACE (UNCOPUOS)

Vienna, Austria

June 2, 2022



Jim Free

Associate Administrator Exploration Systems Development Mission Directorate

NASA Headquarters, Washington, D.C.







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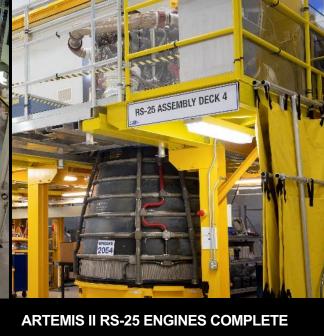








ARTEMIS II BOOSTER MOTOR SEGMENTS COMPLETE





ARTEMIS II SERVICE MODULE KENNEDY SPACE CENTER



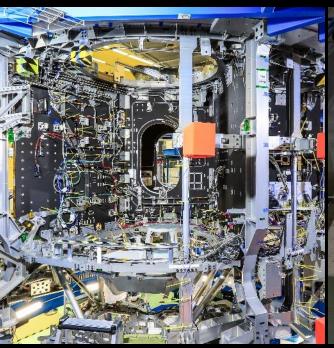
ARTEMIS III CREW MODULE KENNEDY SPACE CENTER



ARTEMIS III RS-25 FLIGHT SET PROCESSING



ARTEMIS III CORE STAGE LH2 TANK

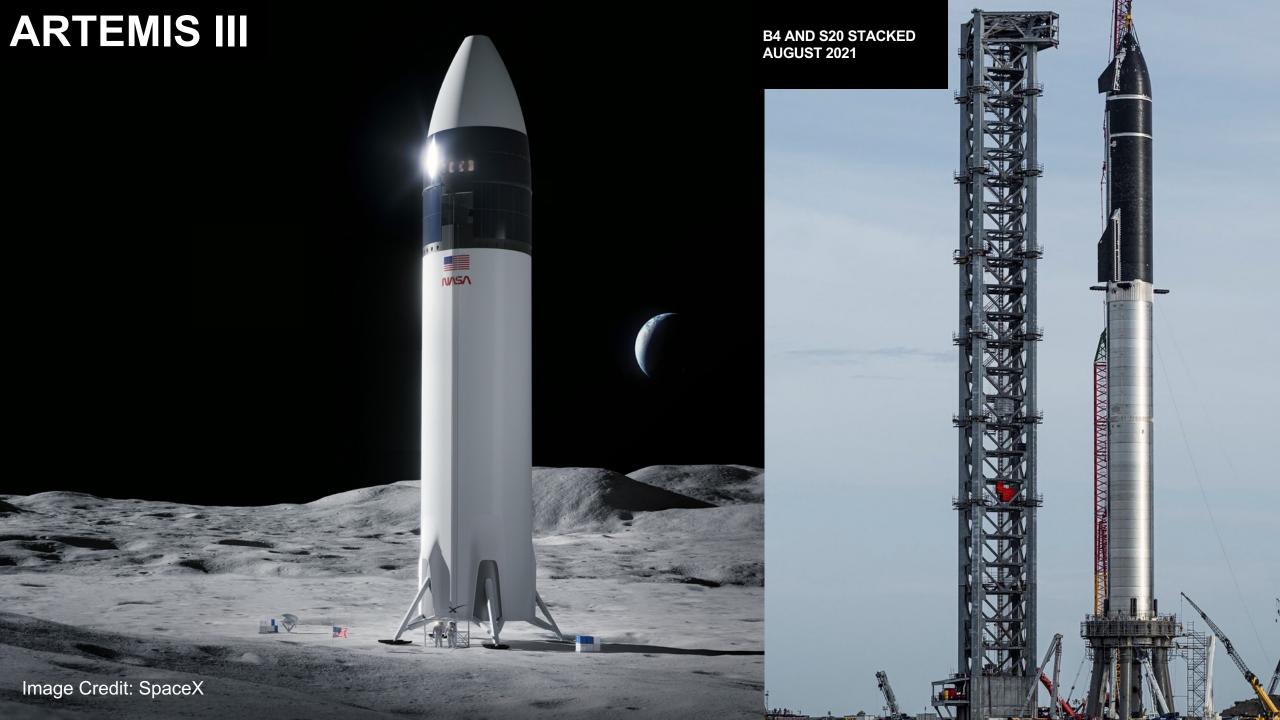


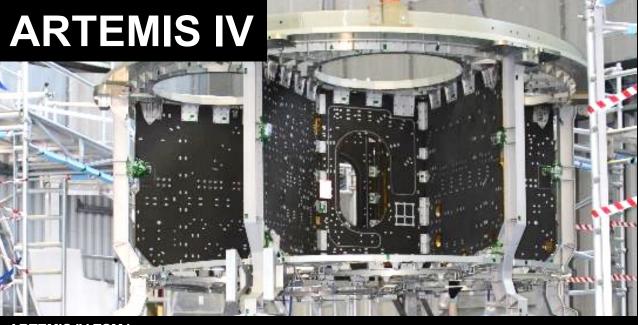
ARTEMIS III BOOSTER SEGMENTS



ARTEMIS III ESM3 BREMEN, GERMANY

ARTEMIS III ICPS





ARTEMIS IV ESM4 TURIN, ITALY



ARTEMIS IV / B1B EUS INTERSTAGE



A Park Systems Technology

ARTEMIS IV CREW MODULE PRIMARY STRUCTURE

RS-25 "RESTART" ENGINE NOZZLE JACKET

NASA's Moon to Mars Objectives

A blueprint for future human exploration

TRANSPORTATION AND HABITATION

Develop and demonstrate an integrated system to conduct human missions. Live and work at deep space destinations and safely return to Earth.

LUNAR AND MARS INFRASTRUCTURE

Maintain continuous robotic and human presence on the Moon with multiple international and industry users to develop a robust lunar economy.

Create the infrastructure to support initial human Mars demonstration.

OPERATIONS

Conduct human missions on and around the Moon followed by missions to Mars

Use a gradual approach to build, demonstrate, and operate new technologies to live and work on other planetary bodies

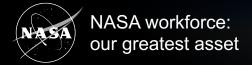
SCIENCE

Conduct science on and around the Moon, using humans and robots to address scientific priorities about the Moon.

Demonstrate future science methods astronauts can use beyond Low Earth Orbit:

- Lunar/Planetary
- Heliophysics
- Biological/Physical
- Astrophysics

Requested feedback on these objectives in May 2022 from the following key stakeholders:



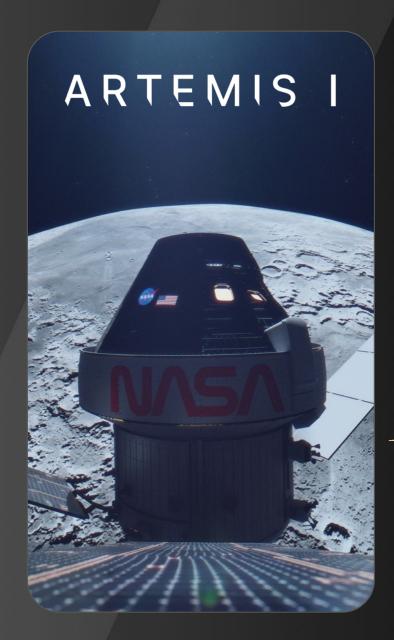


International partners: our key current and future, anticipated collaborators



U.S. industry, academia, etc.: our national leaders in space research and capabilities

International Collaboration for Artemis Missions

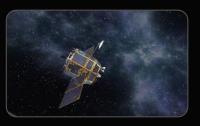




European Service Module Led by ESA with suppliers across Europe



Artemis Accords



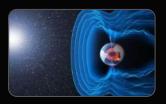
Korea Pathfinder Lunar Orbiter

Korea Aerospace Research Institute (KARI)

Early Gateway Science Payloads



ERSA Radiation Instrument Package European Space Agency



Internal Dosimeter Array
European Space Agency (ESA)
with instruments provided by Japan
Aerospace Exploration Agency
(JAXA)

Artemis I International Secondary Payloads



ESA Active Dosimeters
European Space Agency (ESA)



MARE
Israeli Space Agency (ISA) &
German Space Agency (DLR)



ArgoMoonItalian Space Agency (ASI)



EQUULEUSJapan Aerospace Exploration Agency (JAXA) & University of Tokyo



OMOTENASHI
Japan Aerospace Exploration Agency
(JAXA) & University of Tokyo



Artemis Gateway



ARTEMIS ACCORDS



United for Peaceful Exploration of Deep Space

We came in peace.

We return for all humanity.