

June 8, 2023

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

Vienna, Austria



For All Humanity: *Implementing NASA's Artemis Missions*

Catherine Koerner

Deputy Associate Administrator
Exploration Systems Development
Mission Directorate

NASA Headquarters, Washington, D.C.



WE ARE GOING

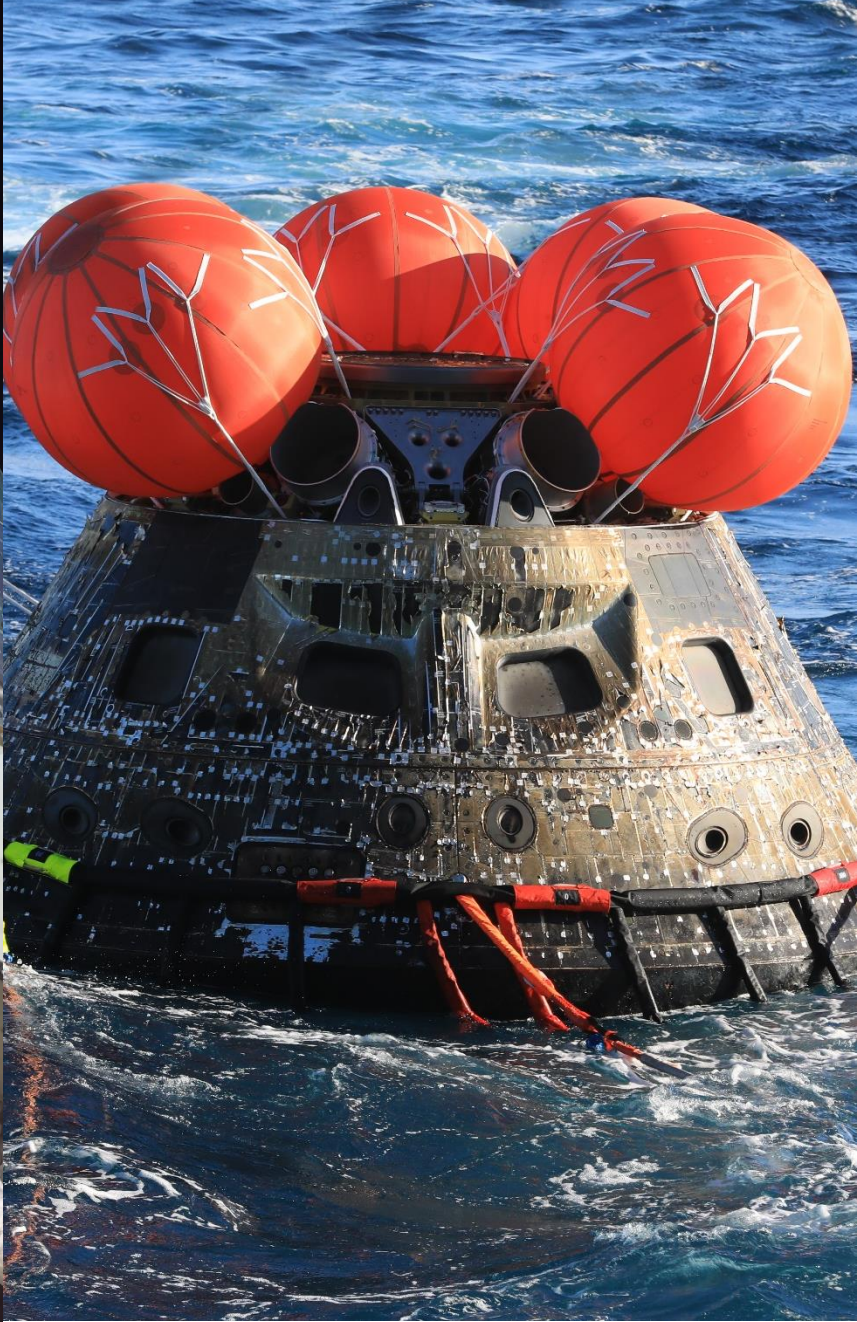
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ARTEMIS I



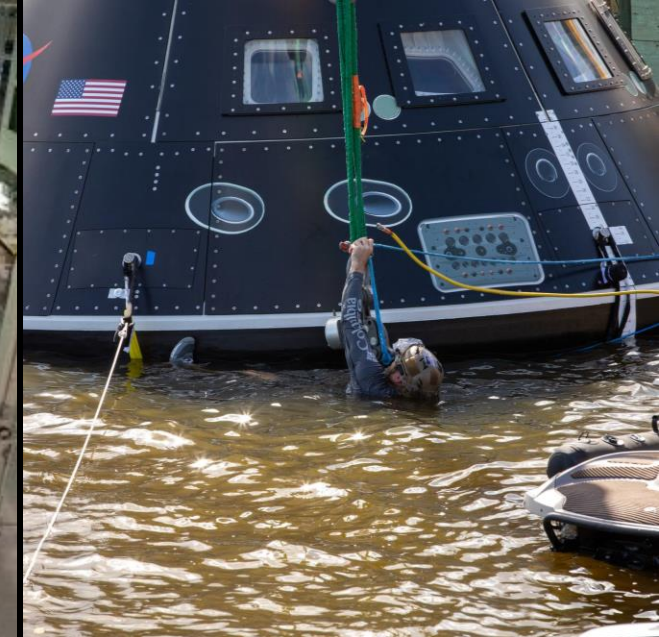
ARTEMIS II



ARTEMIS II CREW MODULE
KENNEDY SPACE CENTER



ARTEMIS II BOOSTER MOTOR
SEGMENTS COMPLETE



ARTEMIS II CMTA RECOVERY TESTING



ARTEMIS II SERVICE MODULE
KENNEDY SPACE CENTER



ARTEMIS II CORE STAGE ASSEMBLED

THE ARTEMIS II CREW

The Artemis II crew represents thousands of people working tirelessly to bring us to the stars. This is their crew. This is our crew. This is humanity's crew.



Jeremy Hansen

Mission Specialist
Canadian Space Agency Astronaut

Reid Wiseman

Commander
NASA Astronaut

Victor Glover

Pilot
NASA Astronaut

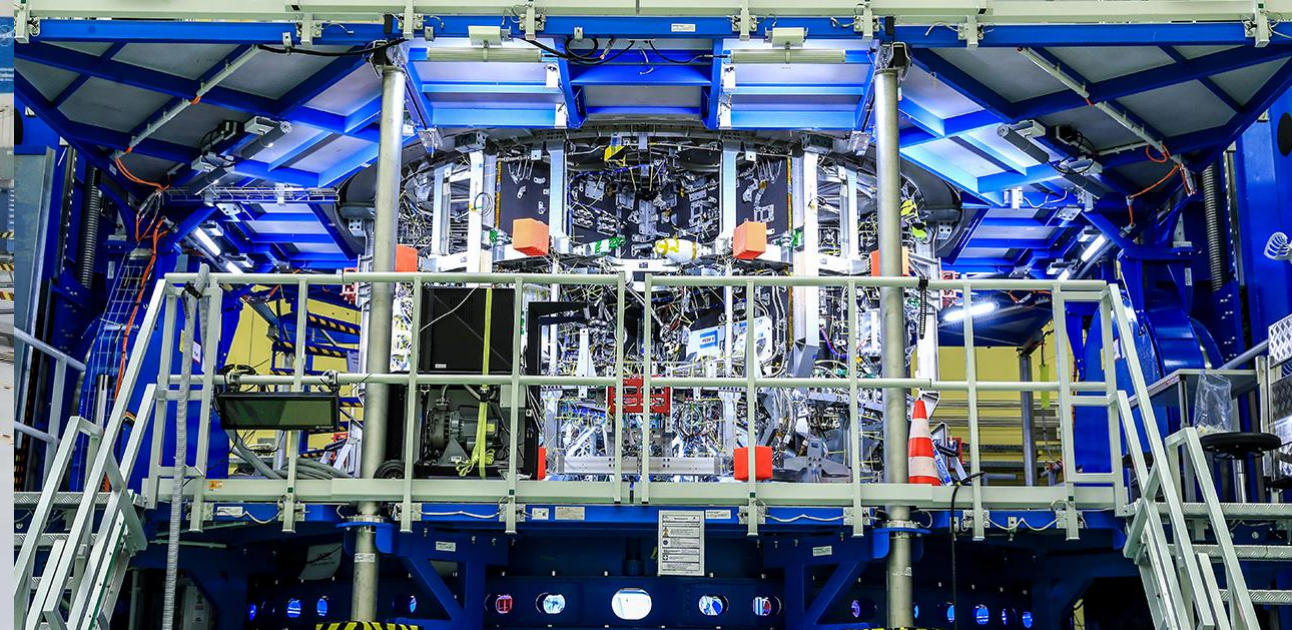
Christina Hammock Koch

Mission Specialist
NASA Astronaut

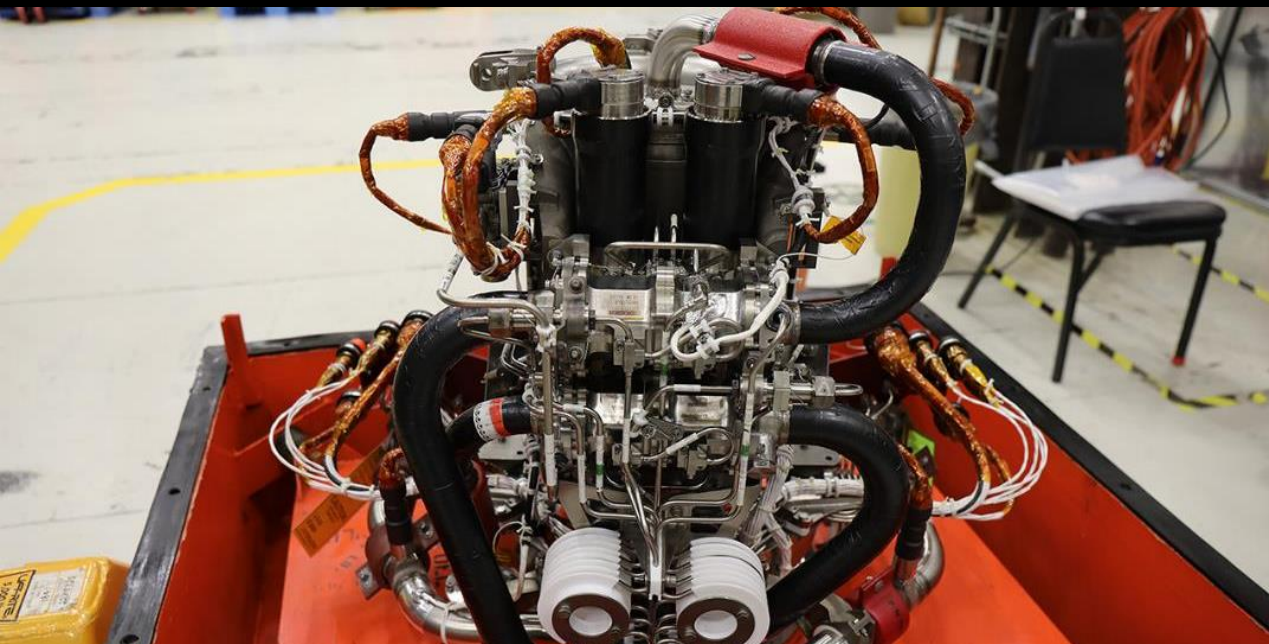
ARTEMIS III



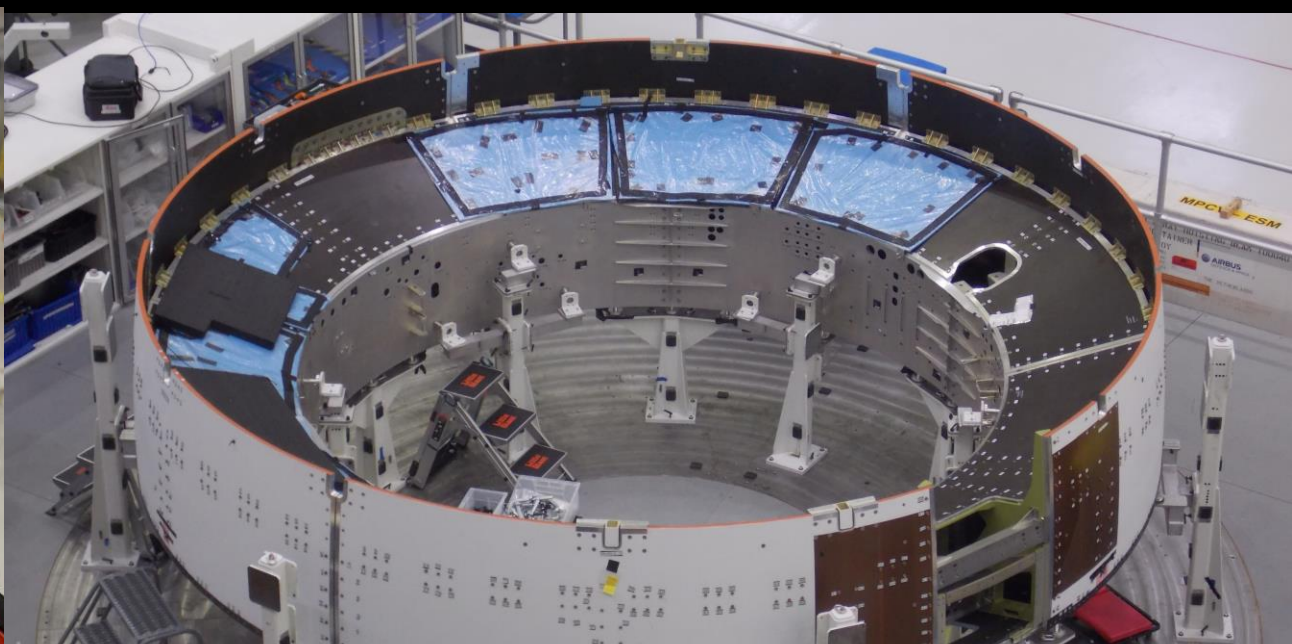
ARTEMIS III ORION HEAT SHIELD KENNEDY SPACE CENTER



ARTEMIS III ORION SERVICE MODULE INTEGRATION IN BREMEN (Image: Airbus)



ARTEMIS III OMS-E AT JOHNSON SPACE CENTER



ARTEMIS III CREW MODULE ADAPTER

ARTEMIS III



STARSHIP FIRST INTEGRATED FLIGHT TEST (Image: SpaceX)



STARSHIP TEST FLIGHT SN15 LANDING (Image: SpaceX)



THE ARTEMIS III SPACESUIT PROTOTYPE, THE AXEMU

ARTEMIS IV



EXPLORATION UPPER STAGE UMBILICAL (EUSU)



EXPLORATION UPPER STAGE STRUCTURAL TEST ARTICLE



ARTEMIS IV SPACE LAUNCH SYSTEM ENGINE SECTION



IGNITION OVERPRESSURE / SOUND SUPPRESSION (IOPSS) SYSTEM FOR MOBILE LAUNCHER 2 (ML2)

ARTEMIS IV



ARTEMIS IV SPACE LAUNCH SYSTEM ENGINE SECTION



ARTEMIS IV CREW MODULE PRESSURE VESSEL AT KENNEDY SPACE CENTER



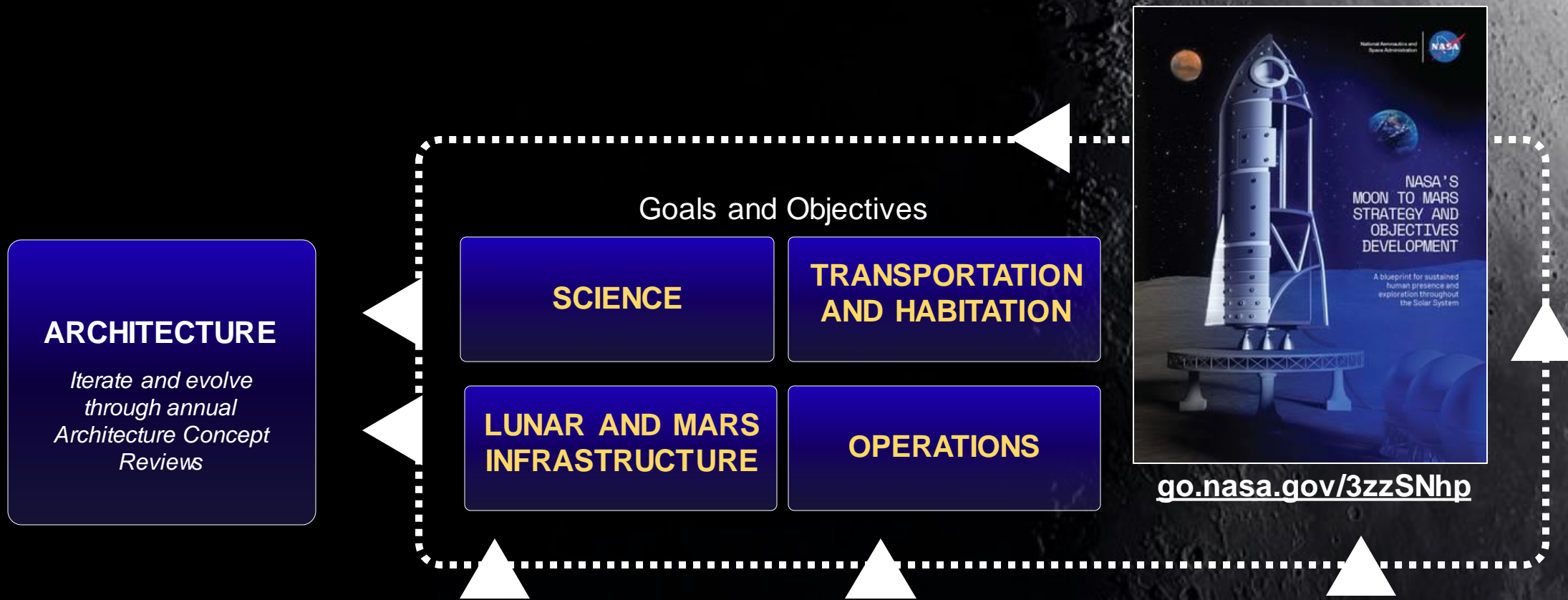
ARTEMIS IV EUROPEAN SERVICE MODULE IN BREMEN, GERMANY



HABITATION AND LOGISTICS OUTPOST MOCKUP

NASA's Moon to Mars Strategy and Objectives

A blueprint for future human exploration (Architecting from the Right)



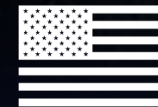
Requested feedback on these objectives in summer 2022 from the following key stakeholders:



NASA workforce: our greatest asset

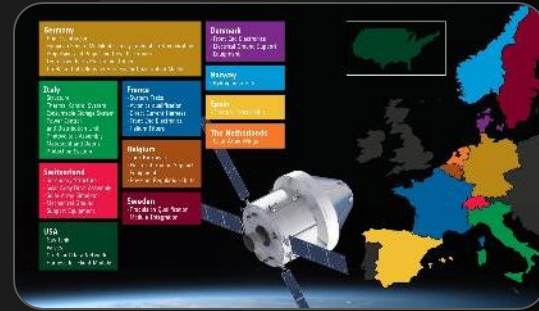


International partners: our key current and future, anticipated collaborators



U.S. industry, academia, DOE, NIH, NSF, 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 I International Science and Technology Payloads



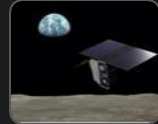
ESA Active Dosimeters

European Space Agency (ESA)



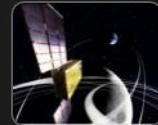
MARE

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



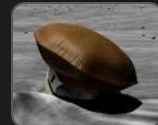
ArgoMoon

Italian Space Agency (ASI)



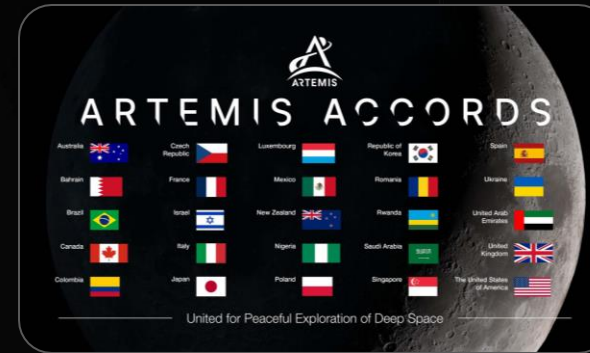
EQUULEUS

Japan Aerospace Exploration Agency (JAXA) & University of Tokyo



OMOTENASHI

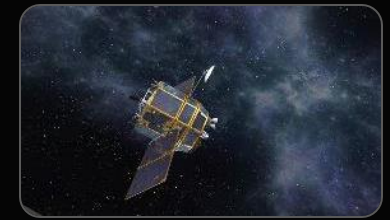
Japan Aerospace Exploration Agency (JAXA) & University of Tokyo



Artemis Accords



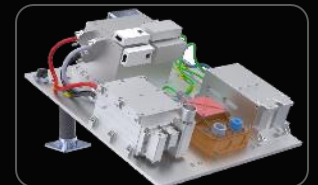
Artemis Gateway



Korea Pathfinder Lunar Orbiter

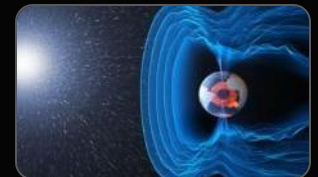
Korea Aerospace Research Institute (KARI)

Early Gateway Science Payloads



ERSA Radiation Instrument Package

European Space Agency (ESA)



Internal Dosimeter Array

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



ARTEMIS ACCORDS

Australia



Czech Republic



Luxembourg



Republic of Korea



Spain



Bahrain



France



Mexico



Romania



Ukraine



Brazil



Israel



New Zealand



Rwanda



United Arab Emirates



Canada



Italy



Nigeria



Saudi Arabia



United Kingdom



Colombia



Japan



Poland



Singapore



The United States of America



United for Peaceful Exploration of Deep Space

We came in peace.

We return for all humanity.

