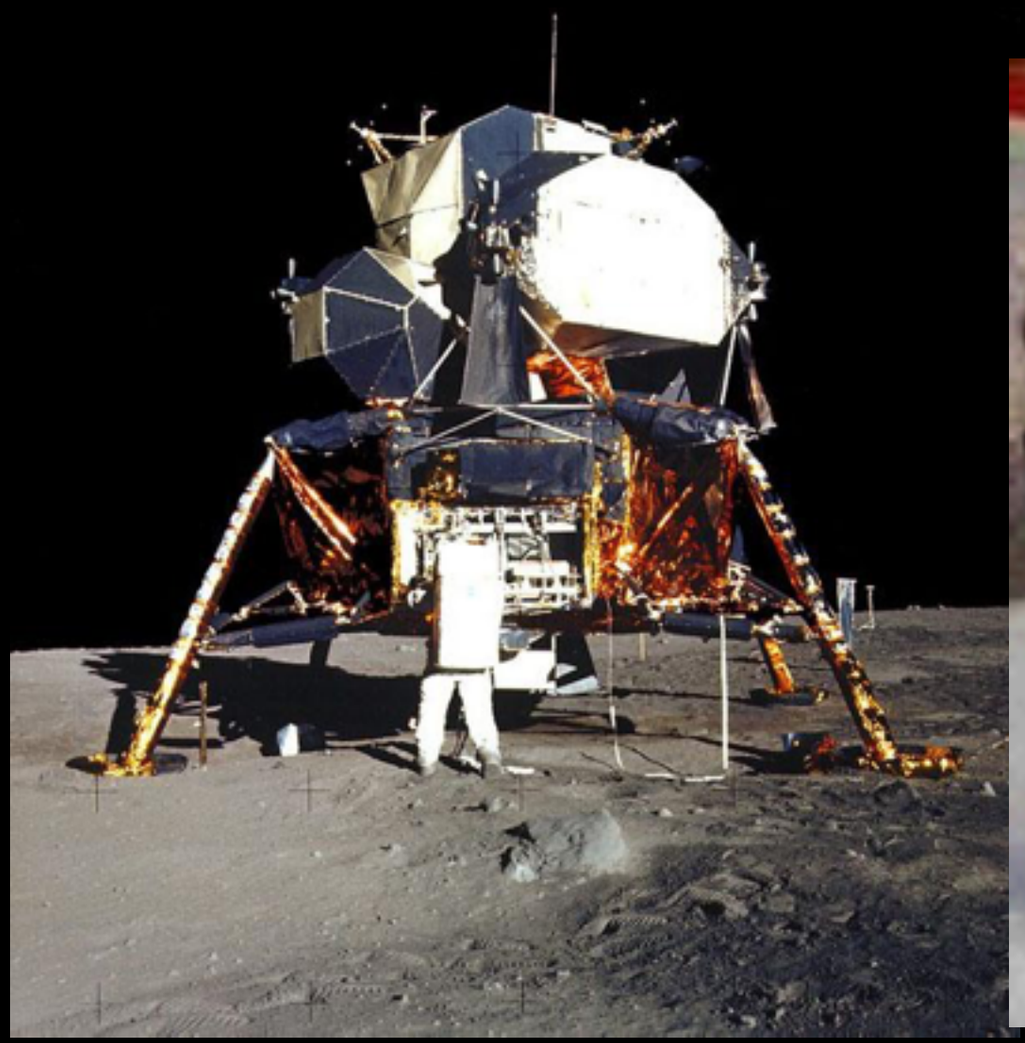
Presentation to the COPUOS Subcommittee on Science and Technology

February 2016

David Dunlop Chair, NSS International Committee
representing
The International Lunar Decade Working Group


corbis

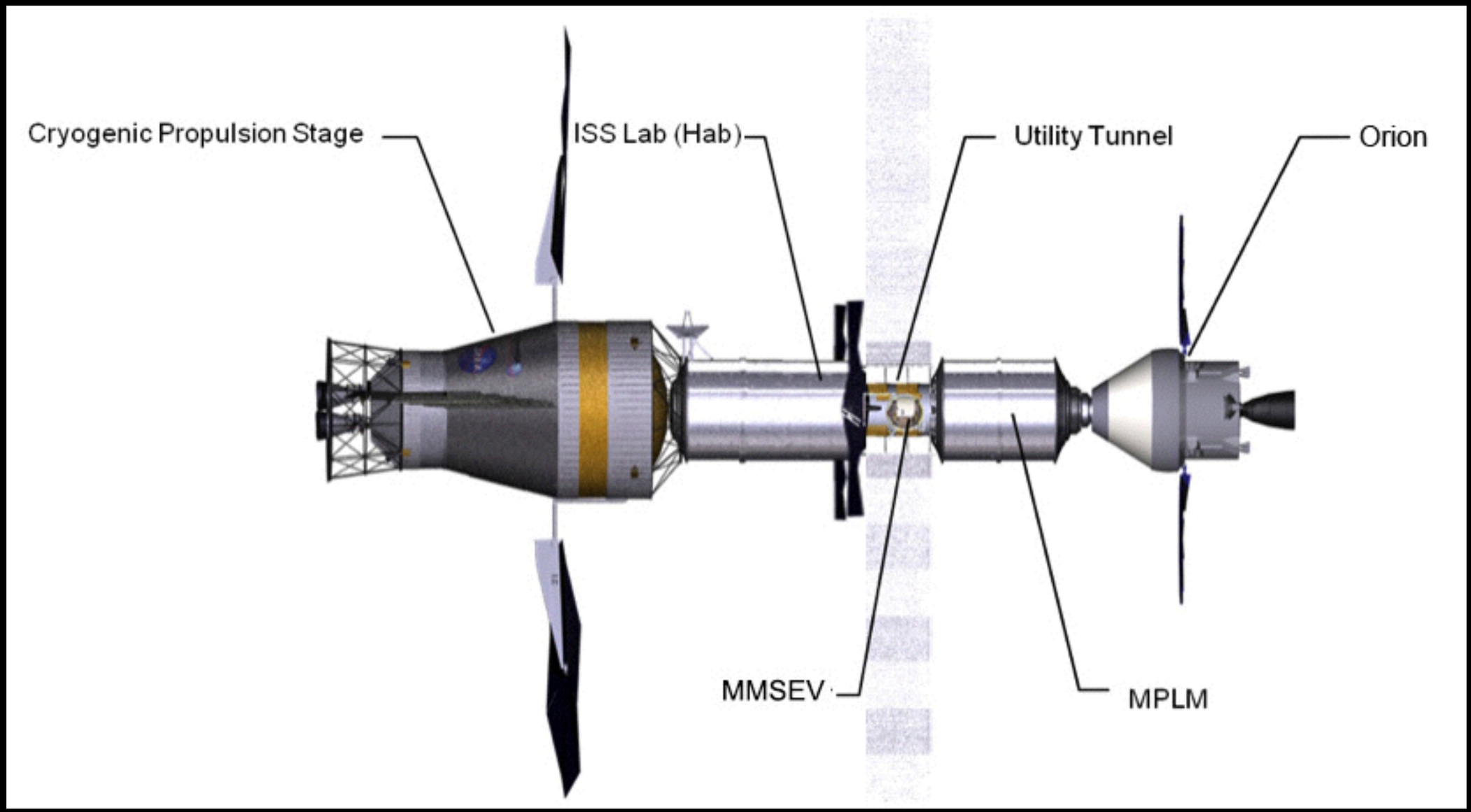



HERE MEN FROM THE PLANET EARTH
FIRST SET FOOT UPON THE MOON
JULY 1969, A. D.
WE CAME IN PEACE FOR ALL MANKIND

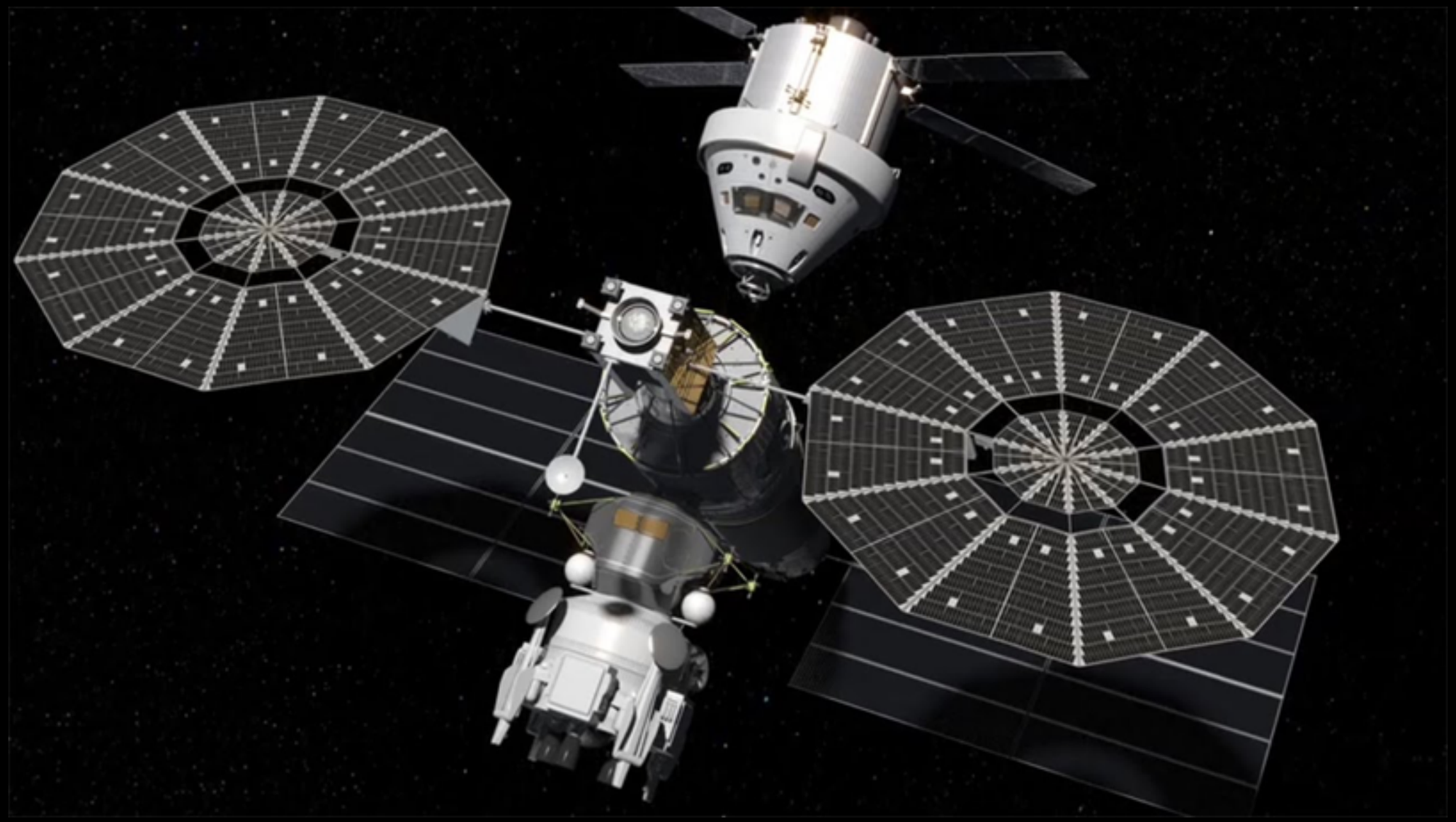
We Return to the Moon in Peace With All Mankind

The International Lunar Decade Campaign for a new sustainable path using cislunar space resources

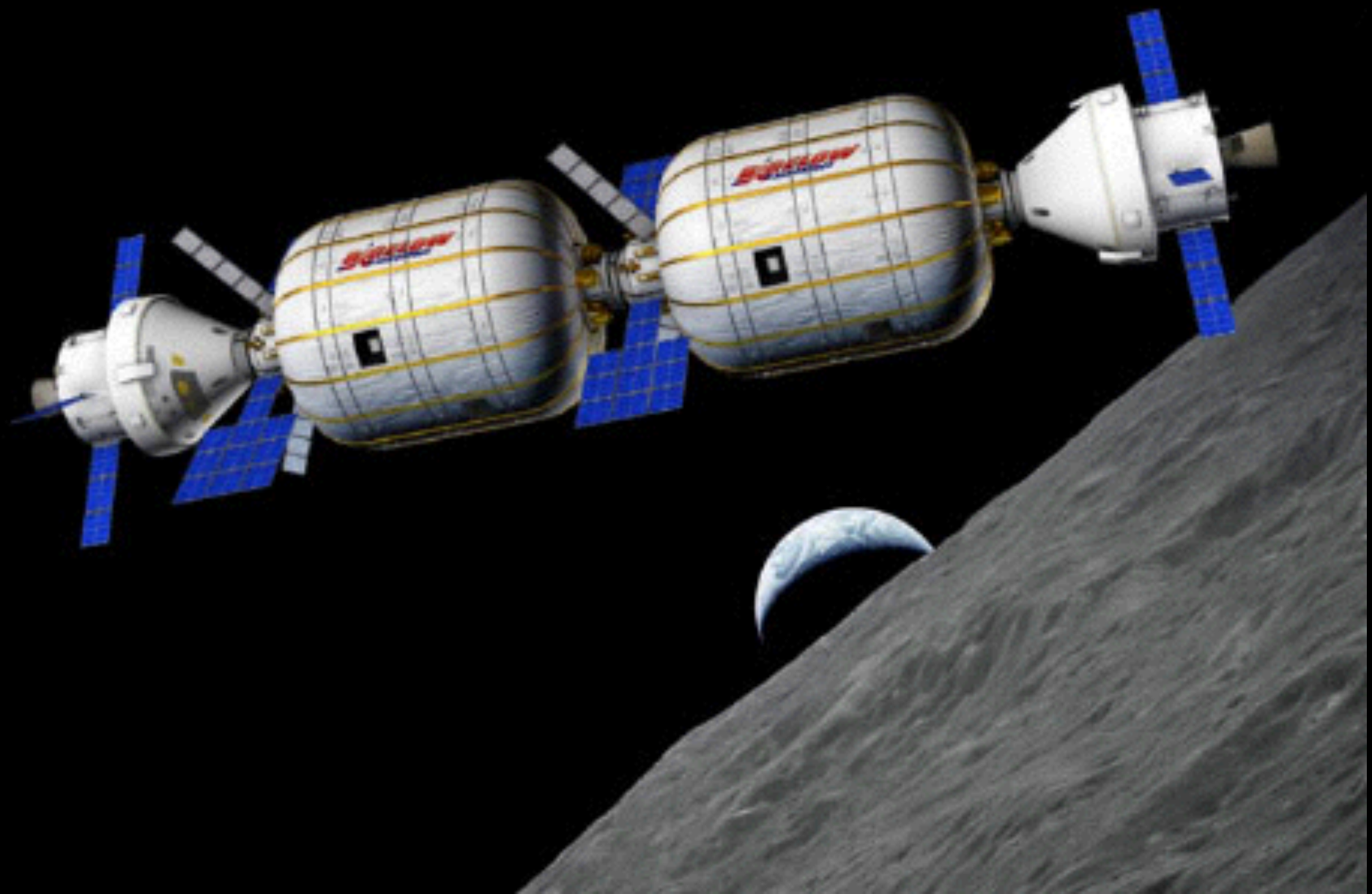
Deep Space Habitation Facility



Orion Arriving at Deep Space Habitat

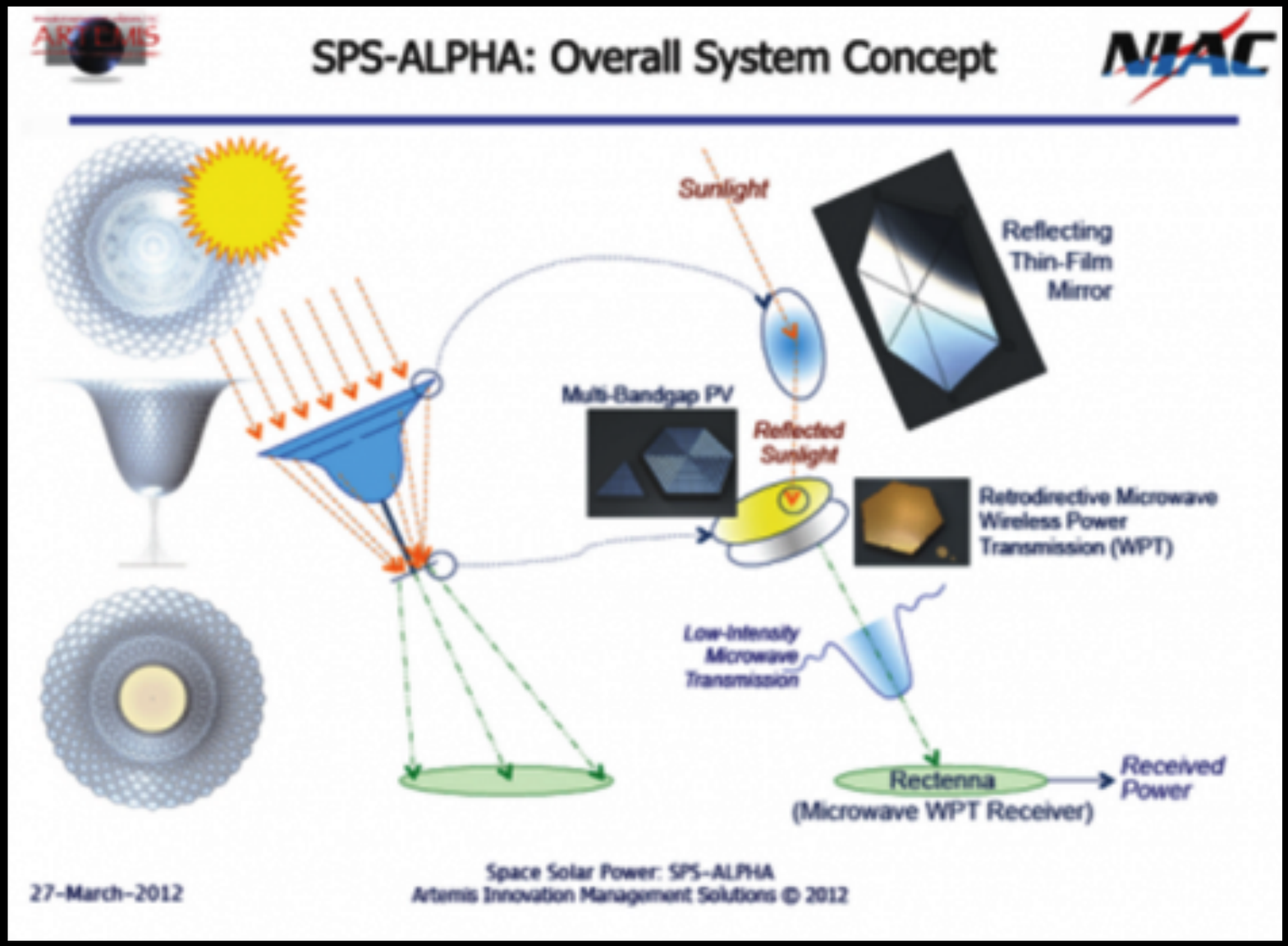


Bigelow Deep Space Habitat



COPUOS Members have the Economic and Technical Resources to Begin the ILD Campaign

Proposed Space Solar Power Satellite



Air Pollution in Mexico City, Beijing, Dehli, Los Angeles

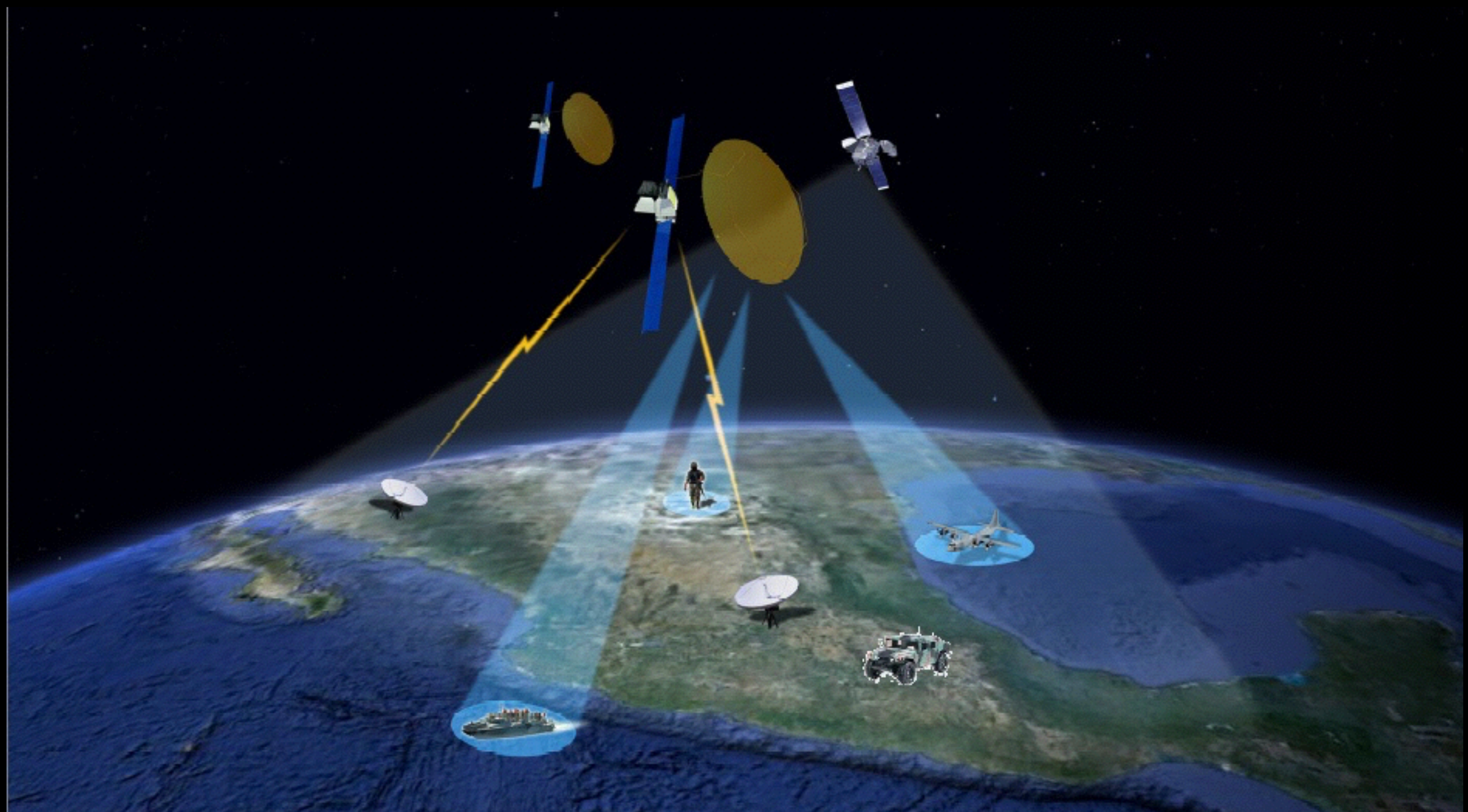
Species Imperiled by Climate Change

Lunar Icecube Will Search for Lunar Water

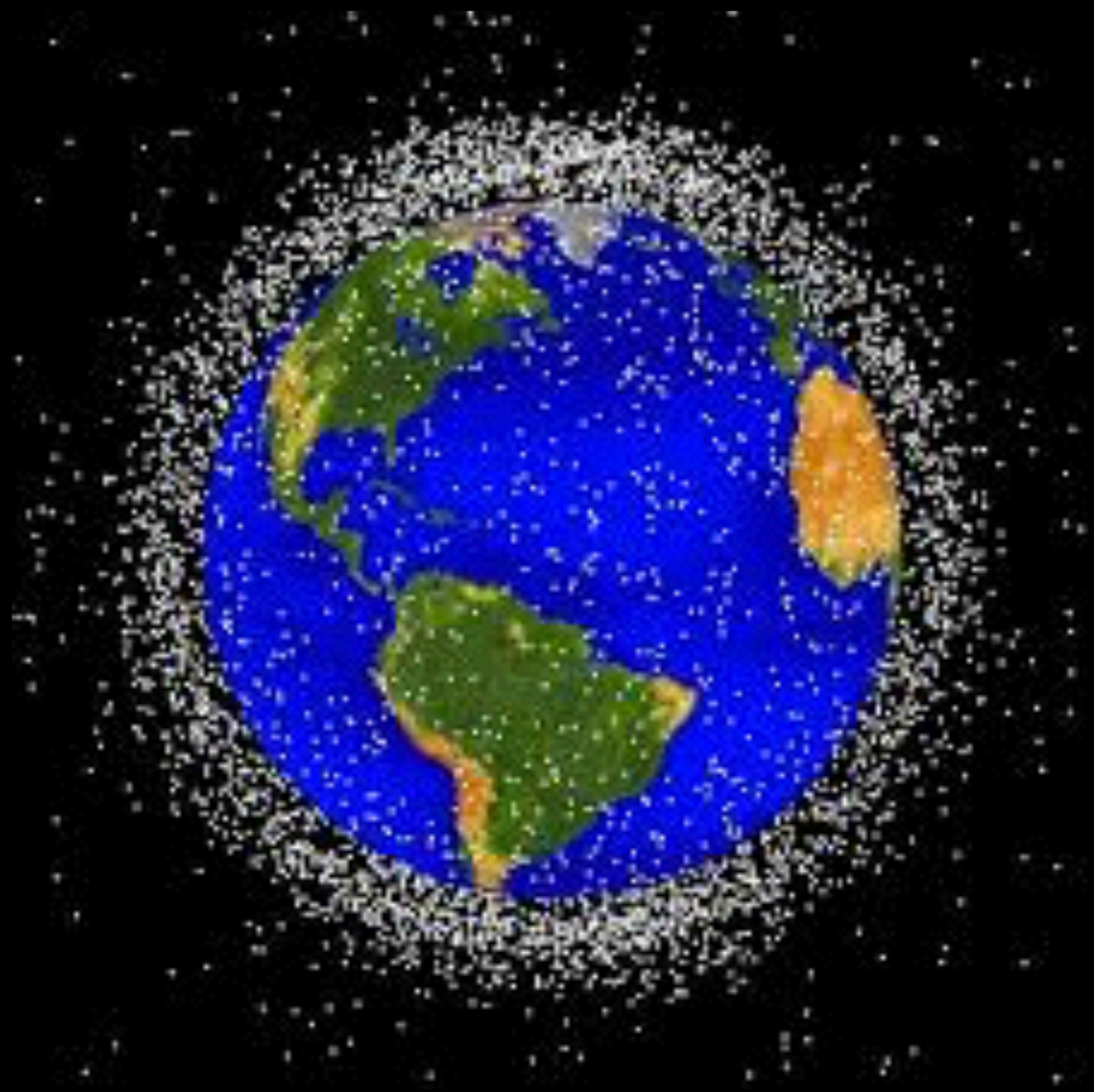
Young Engineers Showing Affordable CubeSats Are Now Mainstream

Senior Managers from ISECG Agencies Meet at ESA in Oct 2015

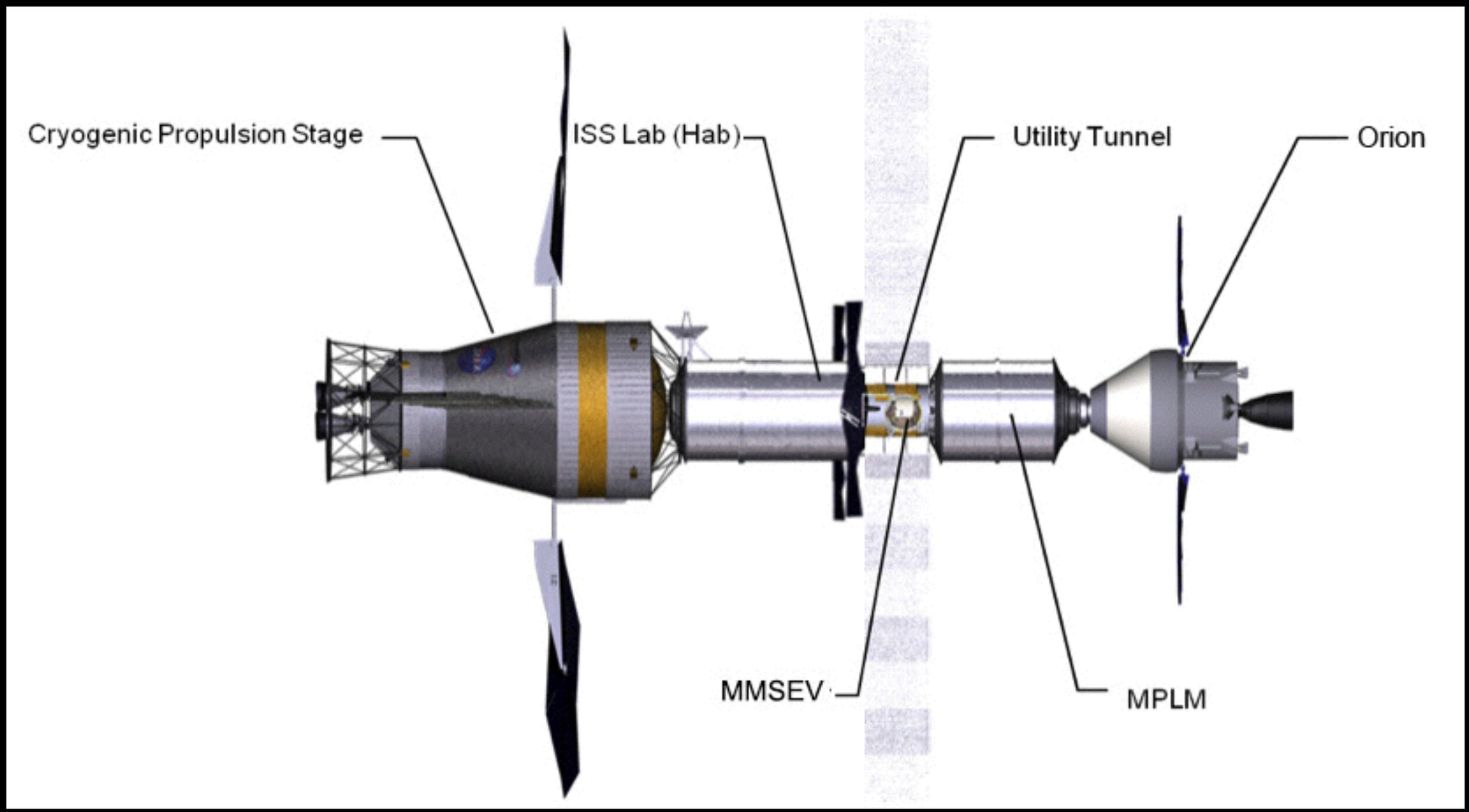
Communications Satellite



More than 500,000 Objects Space Debris Cloud



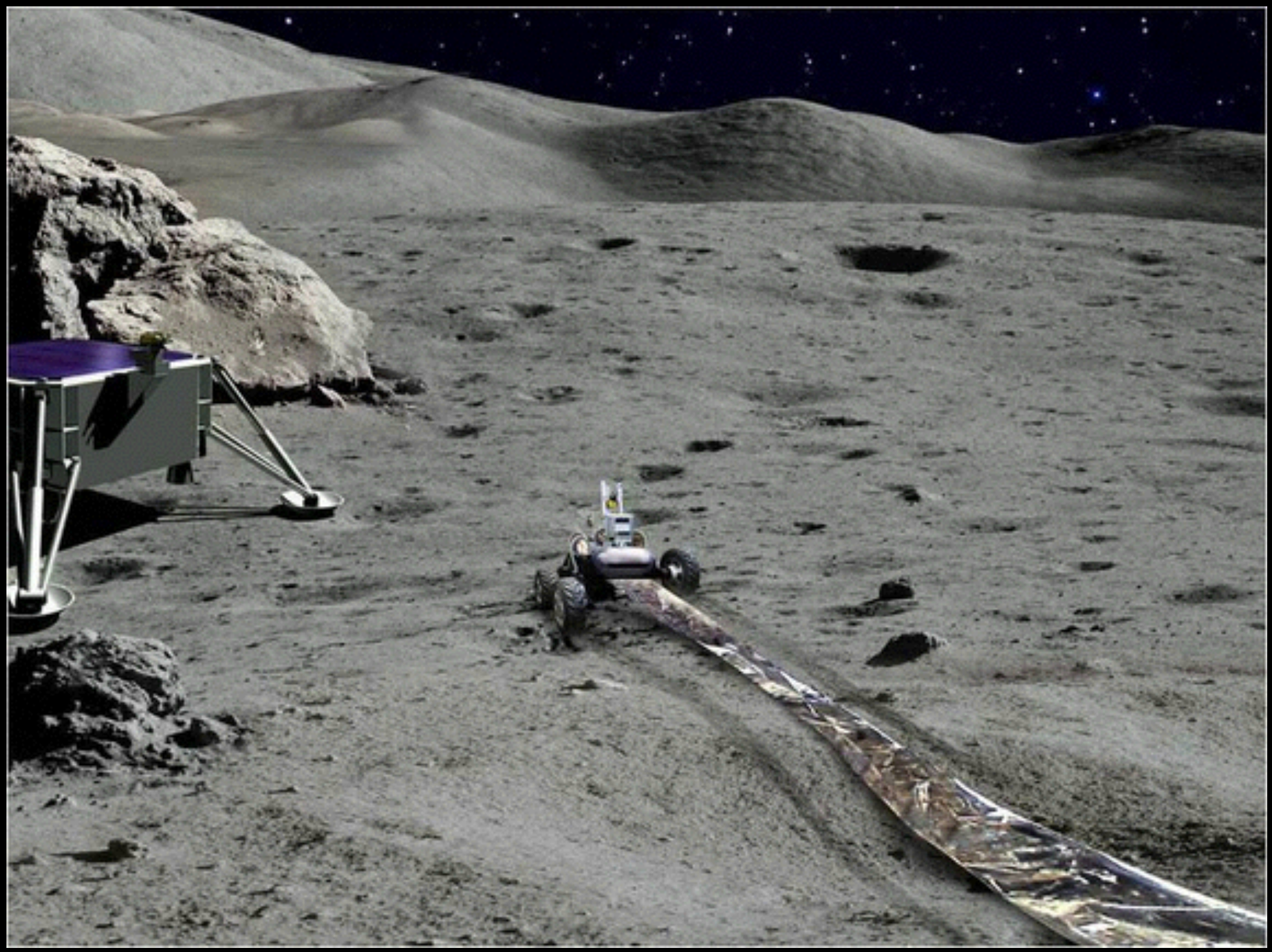
Deep Space Habitation Facility



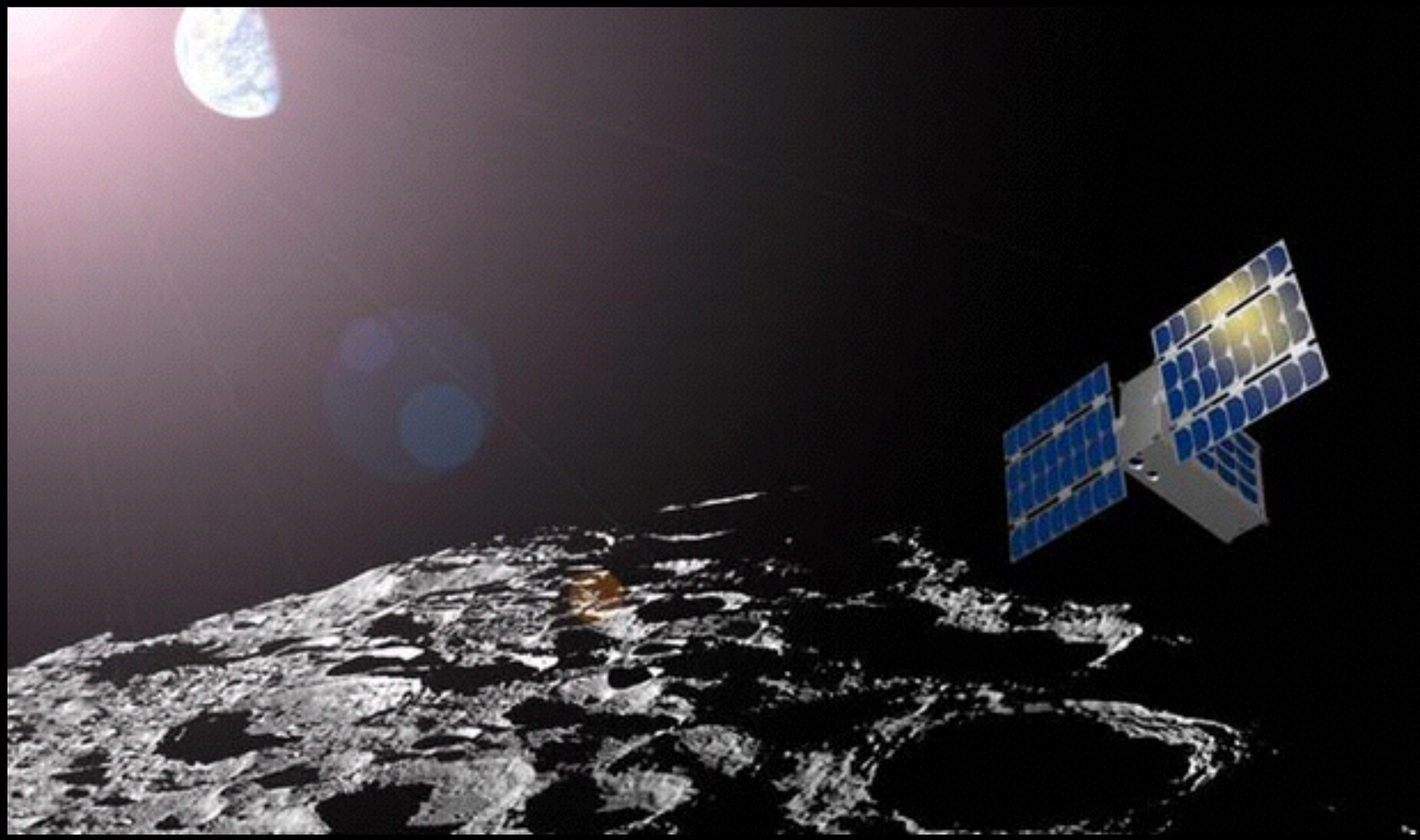
Proposed Moon Village

Golden Spike Proposed Lunar Facility

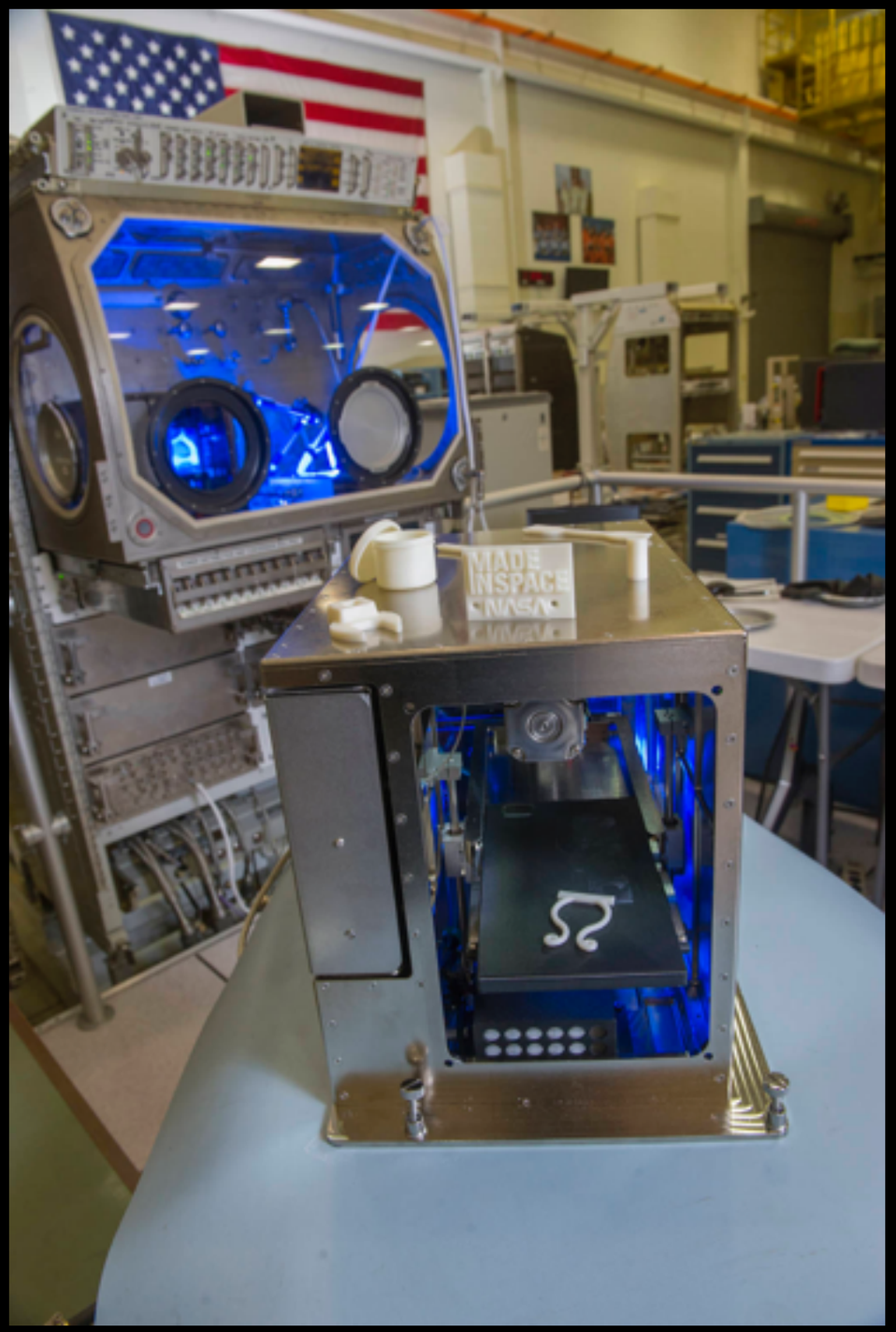
A Proposed Radio Telescope Deploying on the Lunar Farside



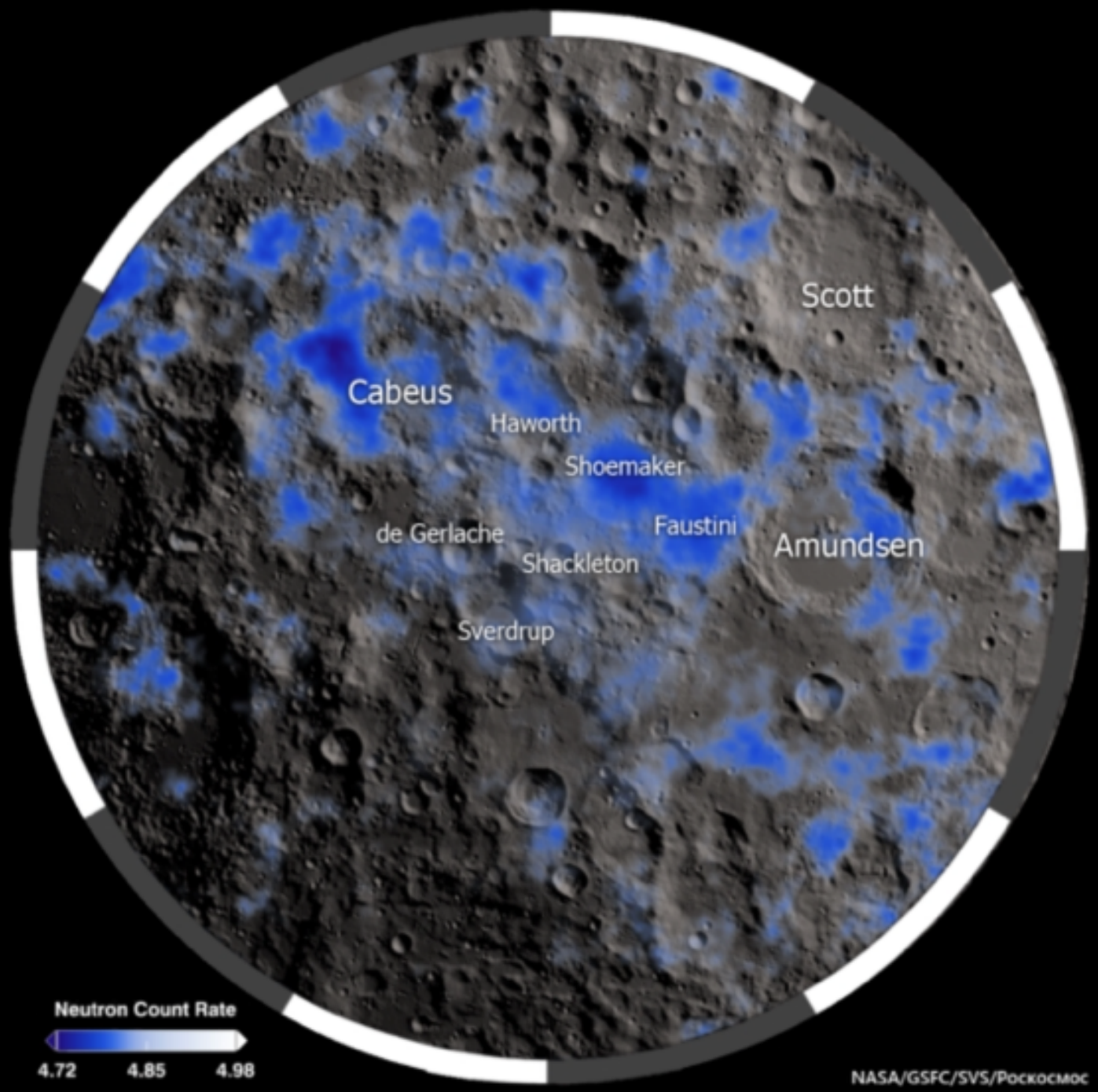
ASU LunarH-Map Cube Satellite Looking For Ice



3 D Printed Objects Made in The ISS by “Made in Space”



Investigating the origin and location of the Moon's water



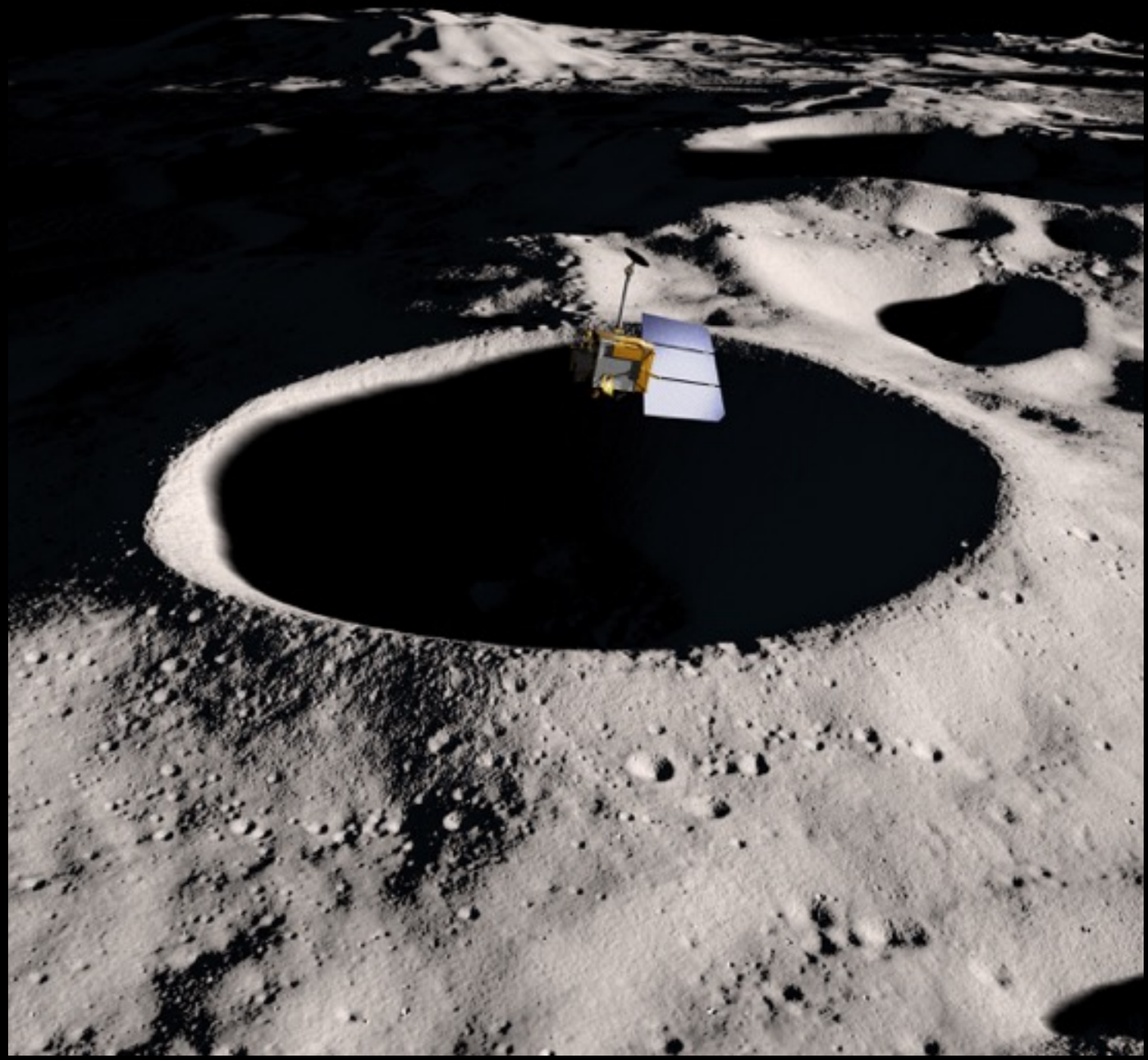
Map of energetic neutron absorption centered on the lunar South Pole on the rim of Shackleton crater and prepared by NASA (GSFC) using neutron absorption data collected by the Russian LEND experiment aboard LRO. The map shows areas where water ice is most

Resources Prospector Ground Test Unit

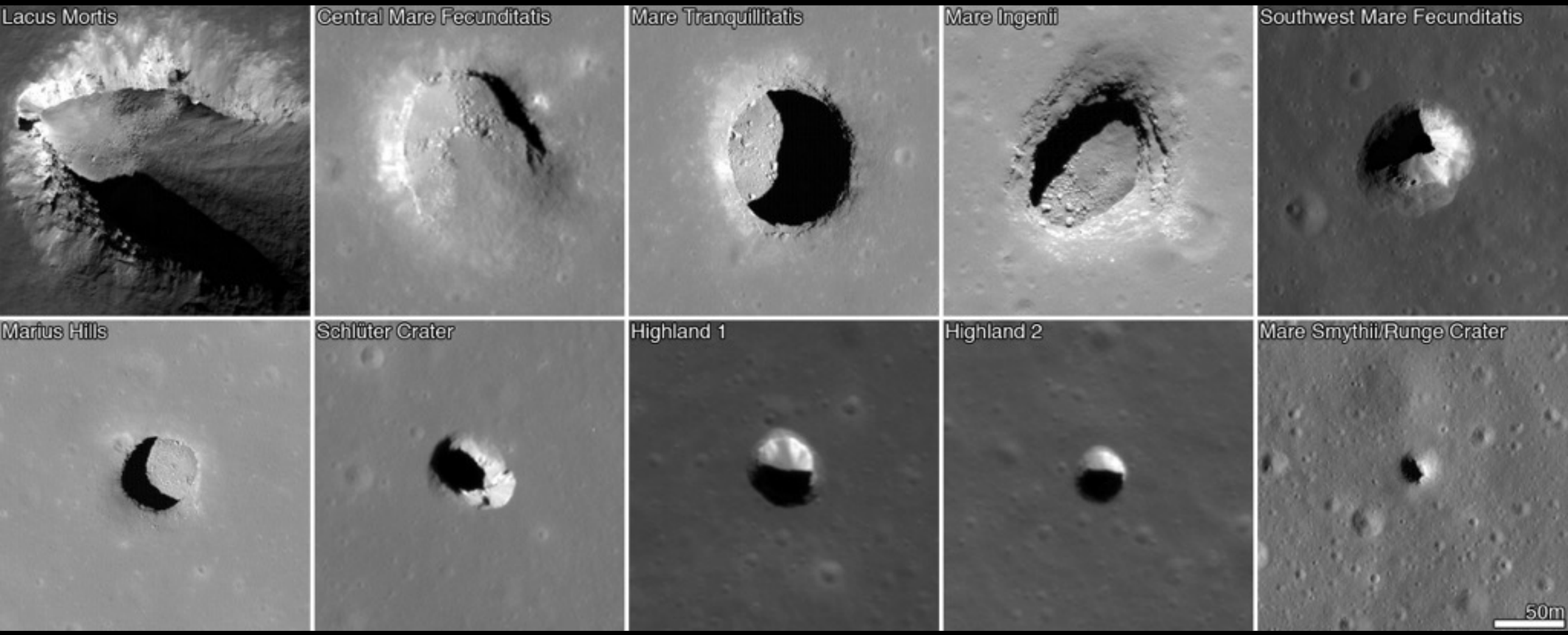
American, French-Italian,Indian, and Chinese Antarctic Bases

International Lunar Decade Areas for Collaborative Policy Development

Lunar Reconnaissance Orbiter over peaks of extended illumination



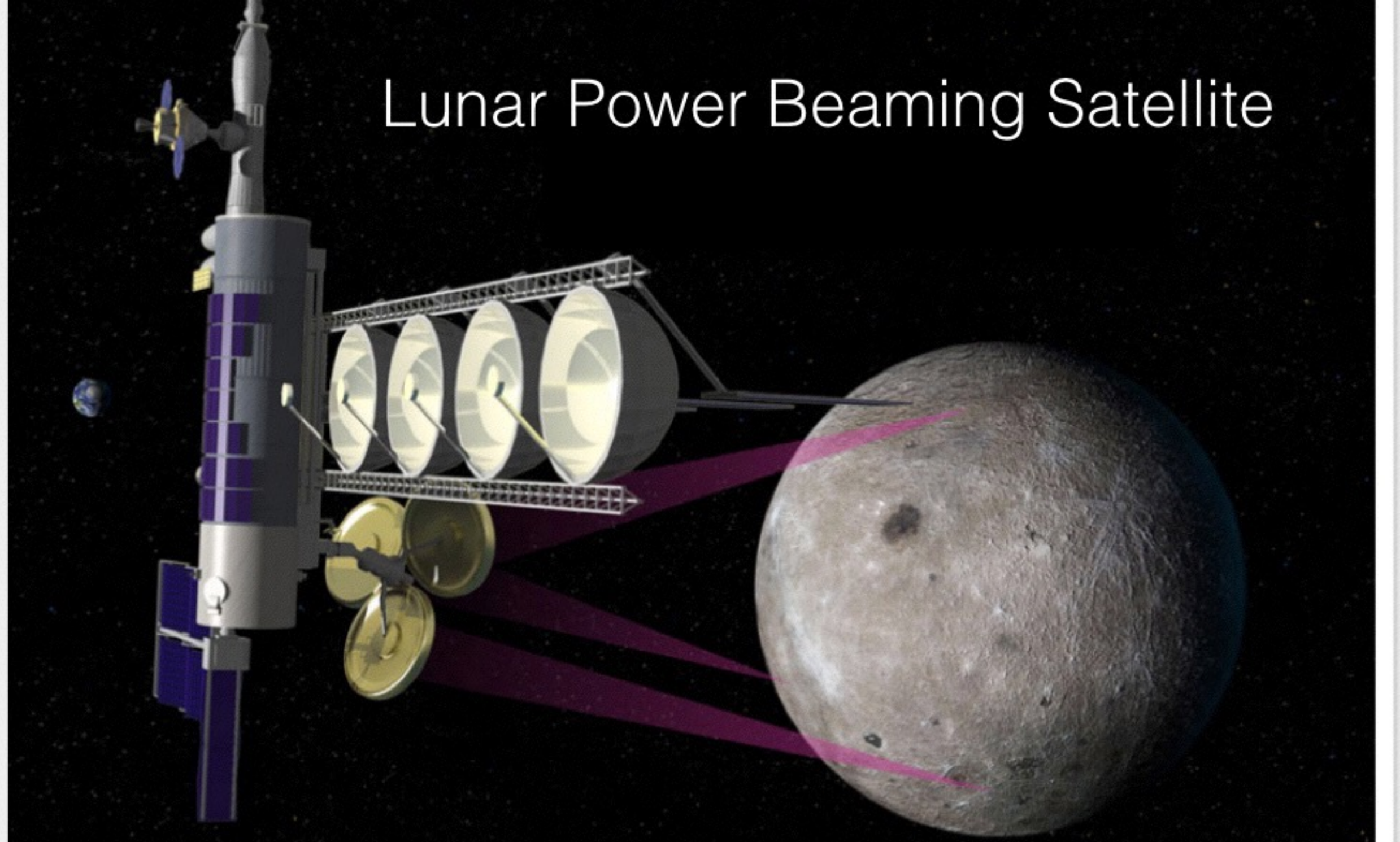
Lunar Lava Pits Exploration Targets



Zaartari Refugee Camp Jordan,Dadaab Refugee Camp in Kenya, and Jalozi Refugee Camp Peshawar

The UN Platform for Space-based Information for Disaster Management and Emergency Response (UN SPIDER):

Lunar Power Beaming Satellite



Lunar surface energy and material resources can further address human requirements.

ISECG
International Space Exploration Coordination Group

ICSU
International Council for Science

COSPAR Z

AN ILD CAMPAIGN WORKING TOGETHER

ilewg
SCIENCE & TECHNOLOGY ILEWG
esa

G20 2016 CHINA

INTERNATIONAL LUNAR DECADE CAMPAIGN
THANK YOU

Note additional members of the International Lunar Decade Working Group:

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Dr. Pamela Clark,	Jet Propulsion Lab & Catholic University
Russell Cox,	The Lunar Initiatives and Flexure Engineering
Jim Crisafulli,	Hawaii Aerospace Office, Hawaii Dept of Economic Development &Transportation
Dave Dunlop,	National Space Society & Space Development Foundation
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Bruce Pittman,	Space Portal at NASA AMES and NSS
Chip Proser,	Celestial Mechanics
Dan Rasky	Space Portal at NASA AMES
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