



COPUOS

**Private Sector Partnerships Powering the Future:**  
*A Review of the Gateway's Power Propulsion Element  
and U.S. Human Spaceflight Commercialization Plans in low Earth orbit*

Committee on the Peaceful Uses of Outer Space  
62nd Session - June X, 2019

by

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Maxar Technologies



MDA

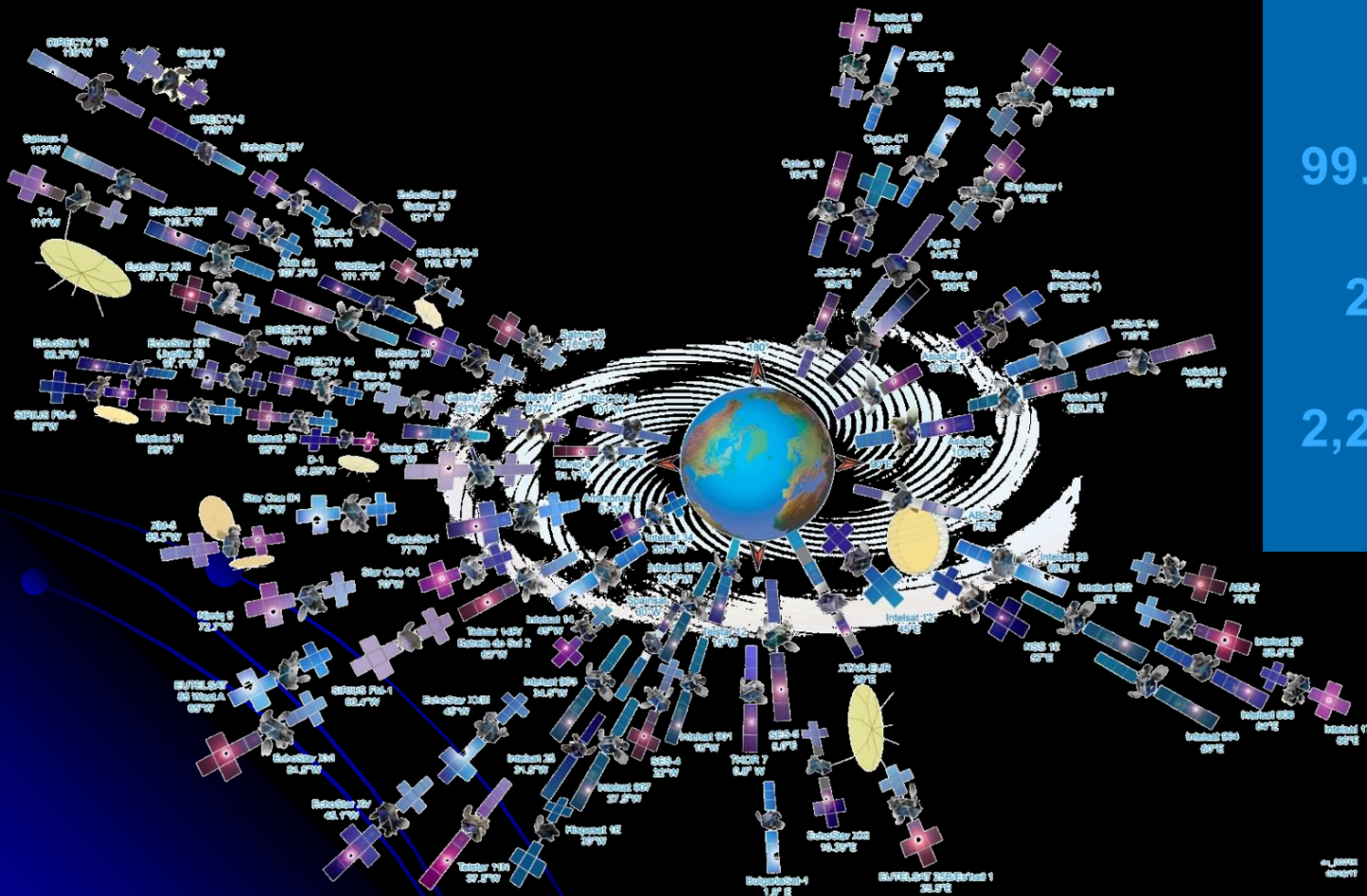
SSL

MAXAR  
TECHNOLOGIES



Radiant  
SOLUTIONS

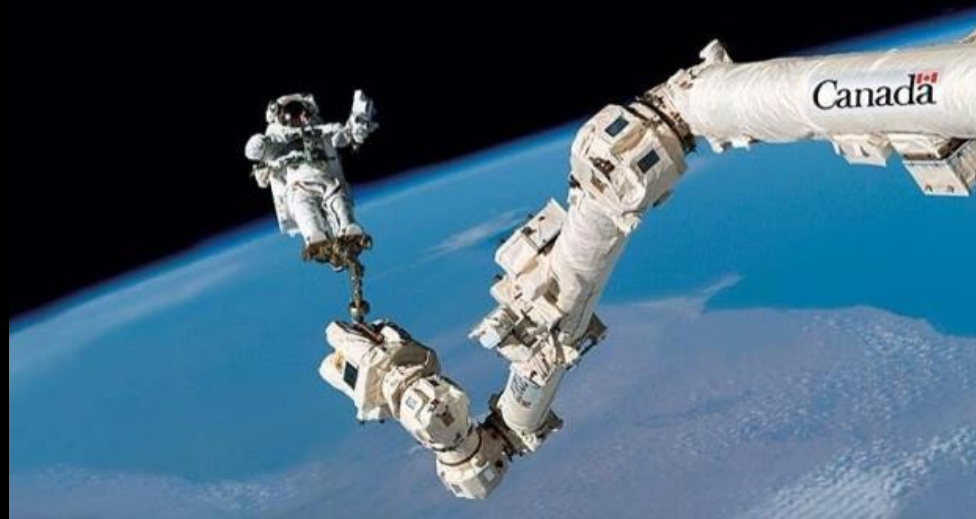
# Commercial Capabilities for the World to Leverage



- 90 GEO satellites on orbit
- 99.99 Percent on-orbit availability
- 280 Satellites built & launched
- 2,200 Years of on-orbit experience

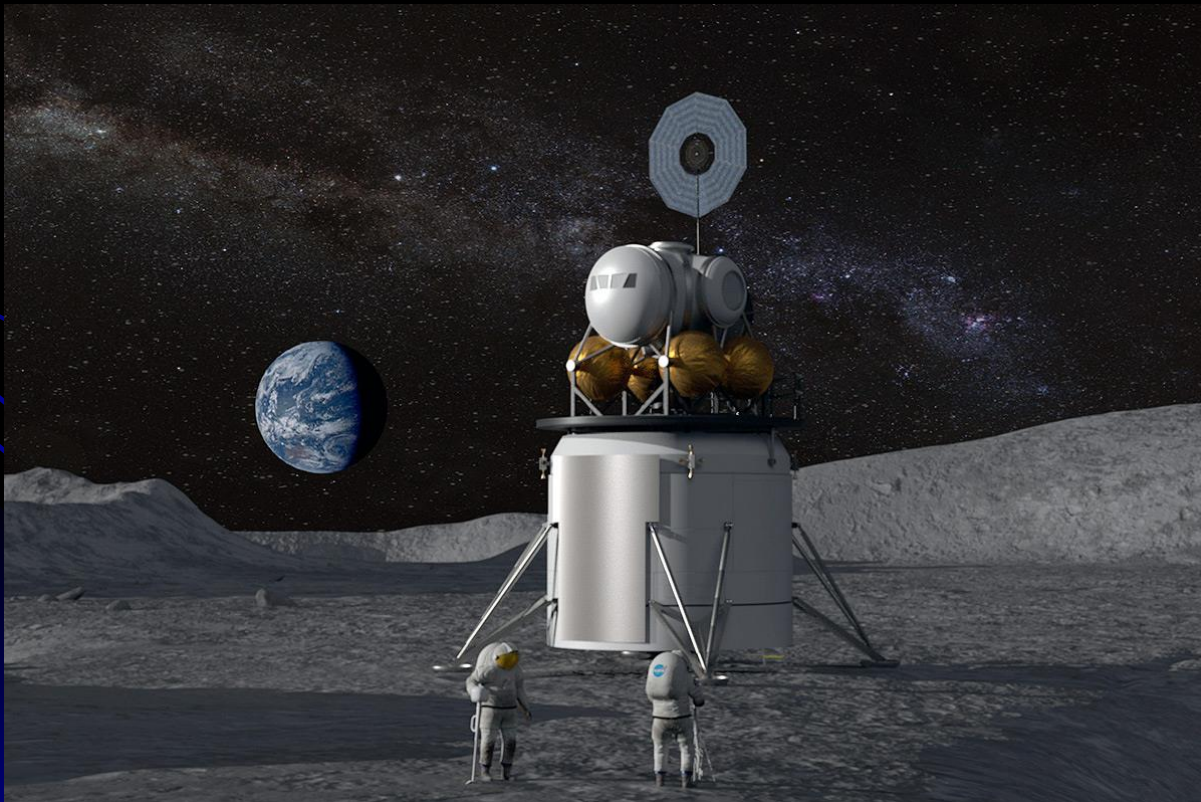


# Canadian Contributions



# Artemis

Artemis is the twin sister of Apollo and goddess of the Moon in Greek mythology. Now, she personifies our path to the Moon as the name of NASA's program to return astronauts to the lunar surface by 2024. When they land, Artemis astronauts will step foot where no one has gone before, the Moon's South Pole. With the horizon goal of sending humans to Mars, Artemis begins a new era of exploration.





# Gateway

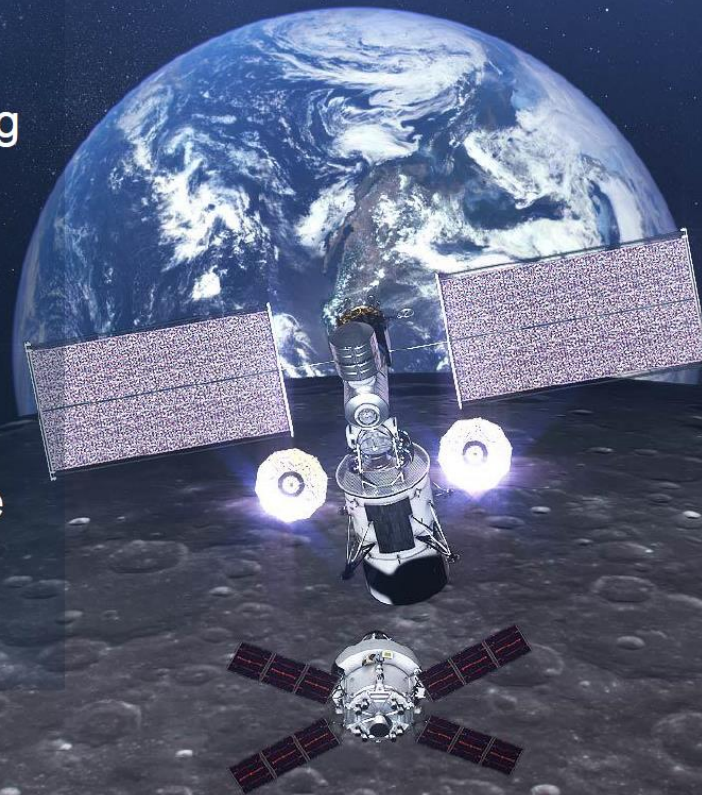
## Phase 1 & Phase 2 Definitions

### Phase 1: Today – 2024 Human surface landing

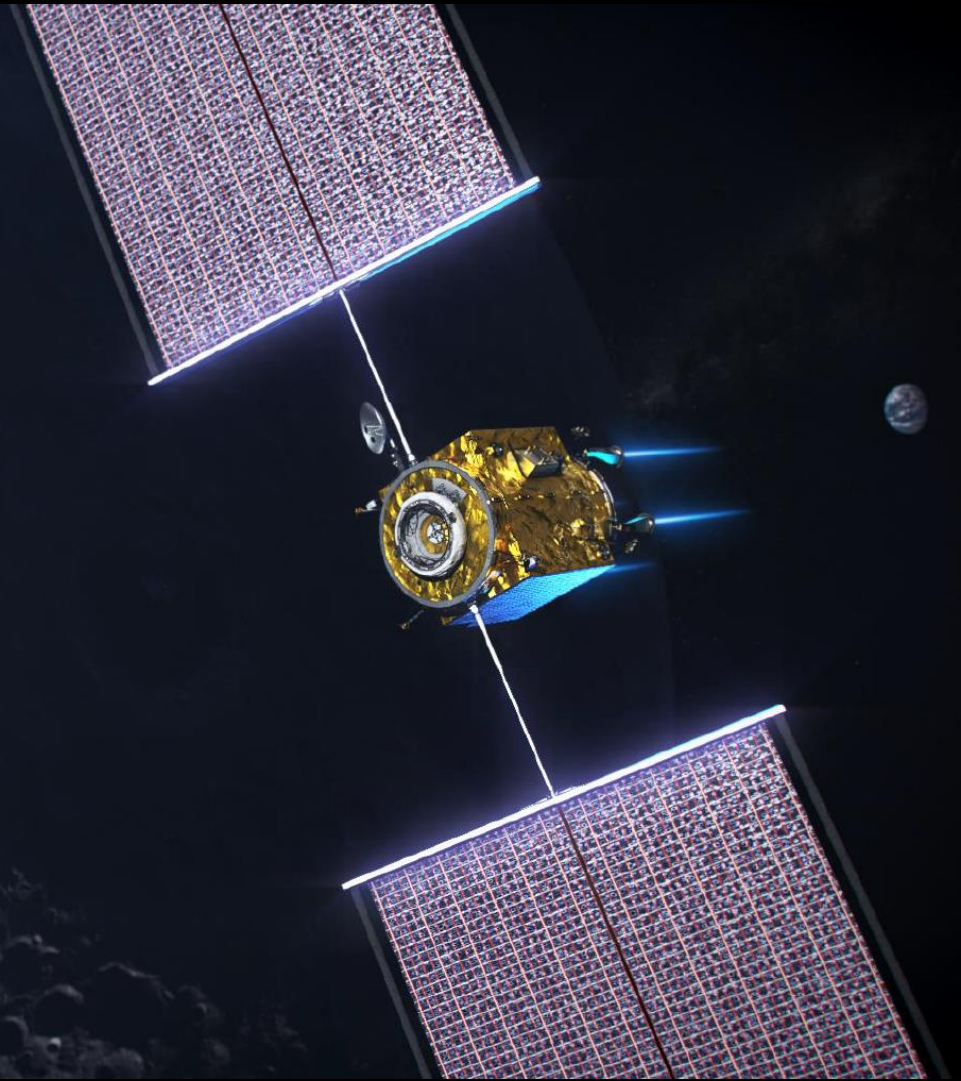
Missions and systems required to achieve landing humans on the surface of the Moon in 2024

### Phase 2: 2024

Establish a sustainable long-term presence on the lunar surface



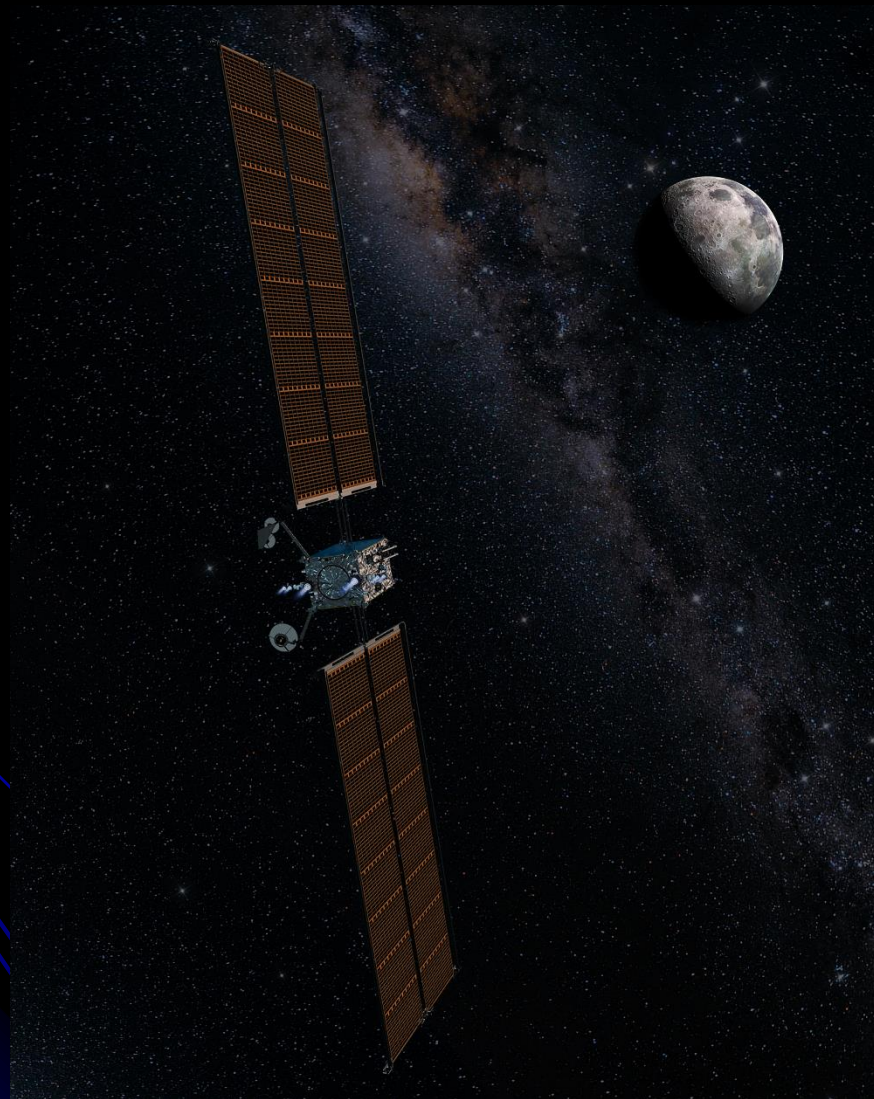
# Power and Propulsion Element



# We Are Going to the Moon

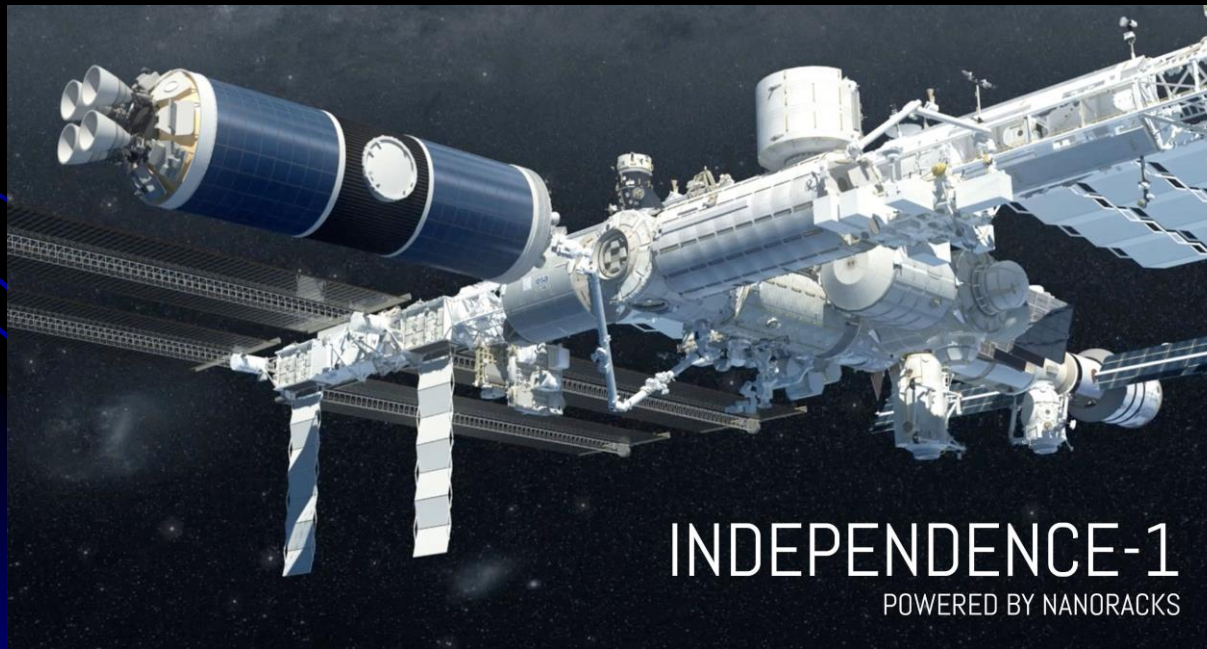


# Powering the World to the Moon



# International Space Station Commercial Habitat

- Commercial habitat attached to the ISS
- Free-Flying Space Station
- Enable Beyond LEO Exploration



# Why We Go





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