



Architecture Segments





Human Lunar Return

Initial capabilities, systems, and operations necessary to re-establish human presence and initial utilization on and around the Moon.



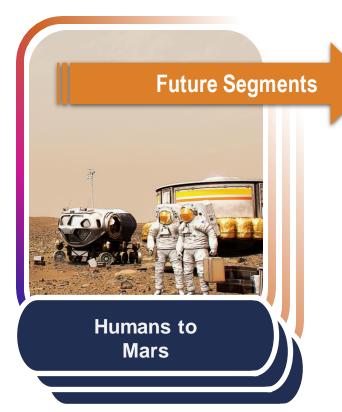
Foundational Exploration

Expansion of lunar capabilities, systems, and operations supporting complex orbital and surface missions to conduct utilization and Mars forward precursor missions.



Sustained Lunar Evolution

Enabling capabilities, systems, and operations to support regional and global utilization, economic opportunity, and a steady cadence of human presence on and around the Moon.



Initial capabilities, systems, and operations necessary to establish human presence and initial utilization on Mars and continued exploration.

Priorities for Foundational Exploration





Mission Duration



Surface Crew Size & Duration



Science and Utilization



Mobility



Logistics



CPNT Architecture
Communications, Position, Navigation, and Timing

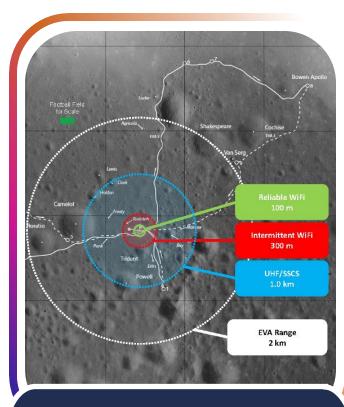


Lunar Infrastructure





Surface Power



Surface CPNT



Orbital Elements

Technical Advancements





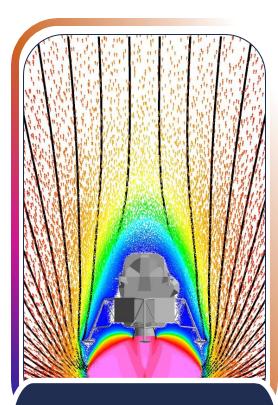
Conditioned Sample Return



Increase Down-Mass to Surface



Maintaining Asset Health During Uncrewed Periods



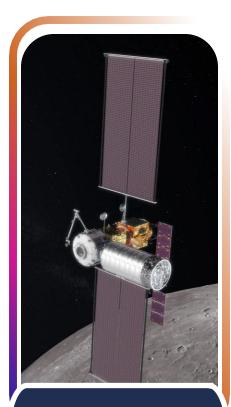
Dust (Regolith)
Mitigation

Technical Advancements

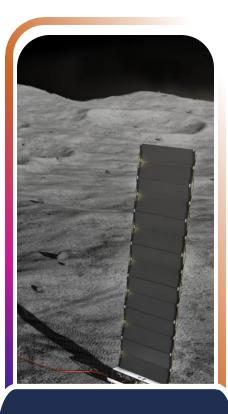




Logistics Services



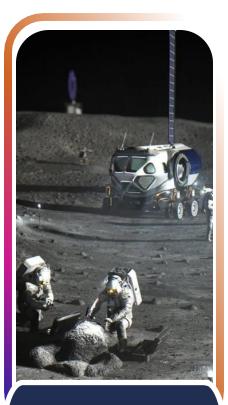
Cargo Return Services



Surface Power Services



Data Services



Cooperative Extensibility

Key Questions





- What gaps are of interest?
- What challenges do you see going into the Foundational Exploration segment?
- What emerging technologies should get more attention?