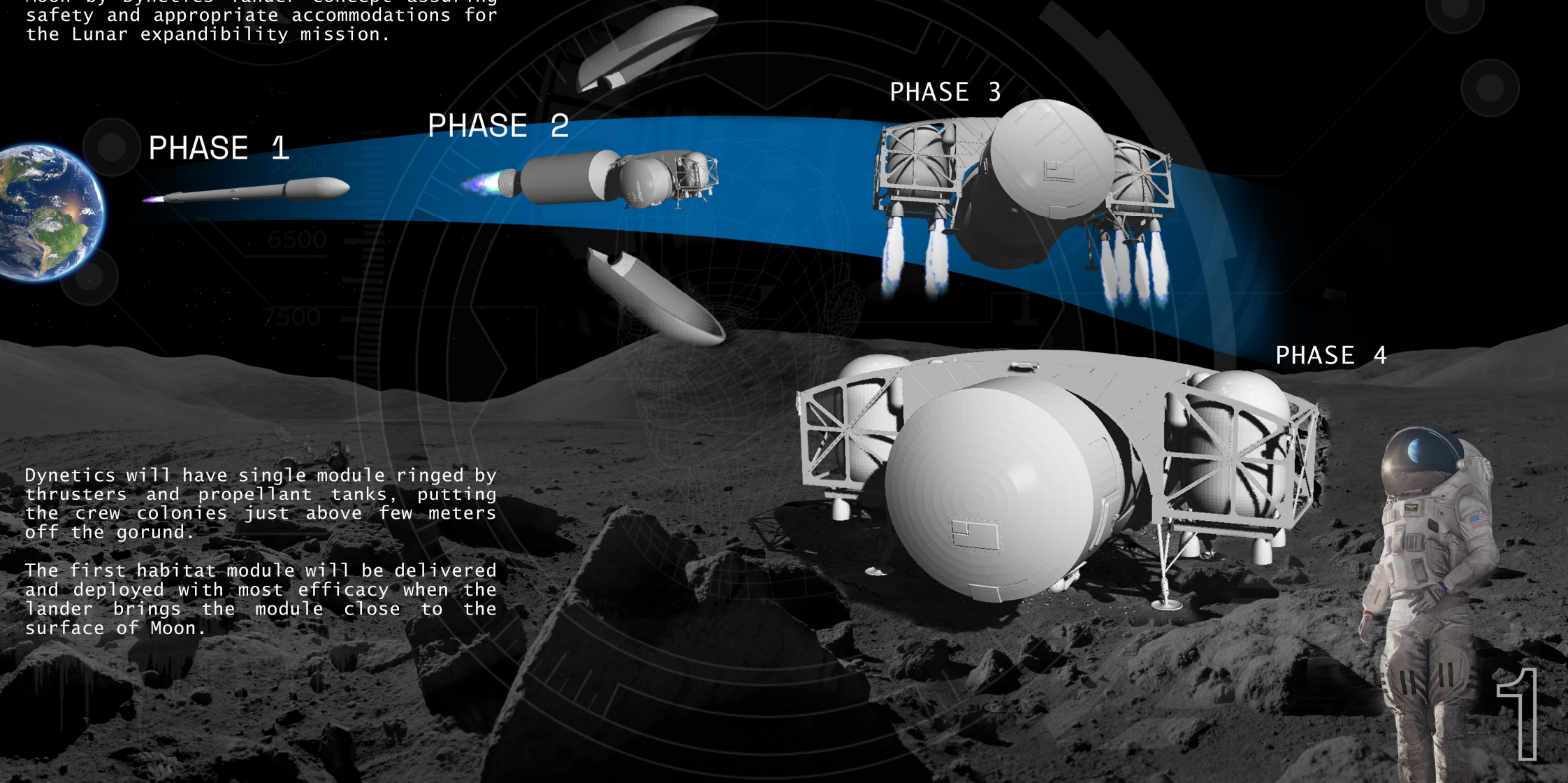


Mission Architecture approach for design and planning of short duration mission derived from Lunar Expandable Astronaut Port (LEAP). The habitat is designed for Phase II of Artemis mission to support a crew of 2 astronauts by 2028.

The self-deployable habitat and its modules will be delivered to the South Pole of the Moon by Dynetics lander concept assuring safety and appropriate accommodations for the Lunar expandability mission.



Dynetics will have single module ringed by thrusters and propellant tanks, putting the crew colonies just above few meters off the ground.

The first habitat module will be delivered and deployed with most efficacy when the lander brings the module close to the surface of Moon.

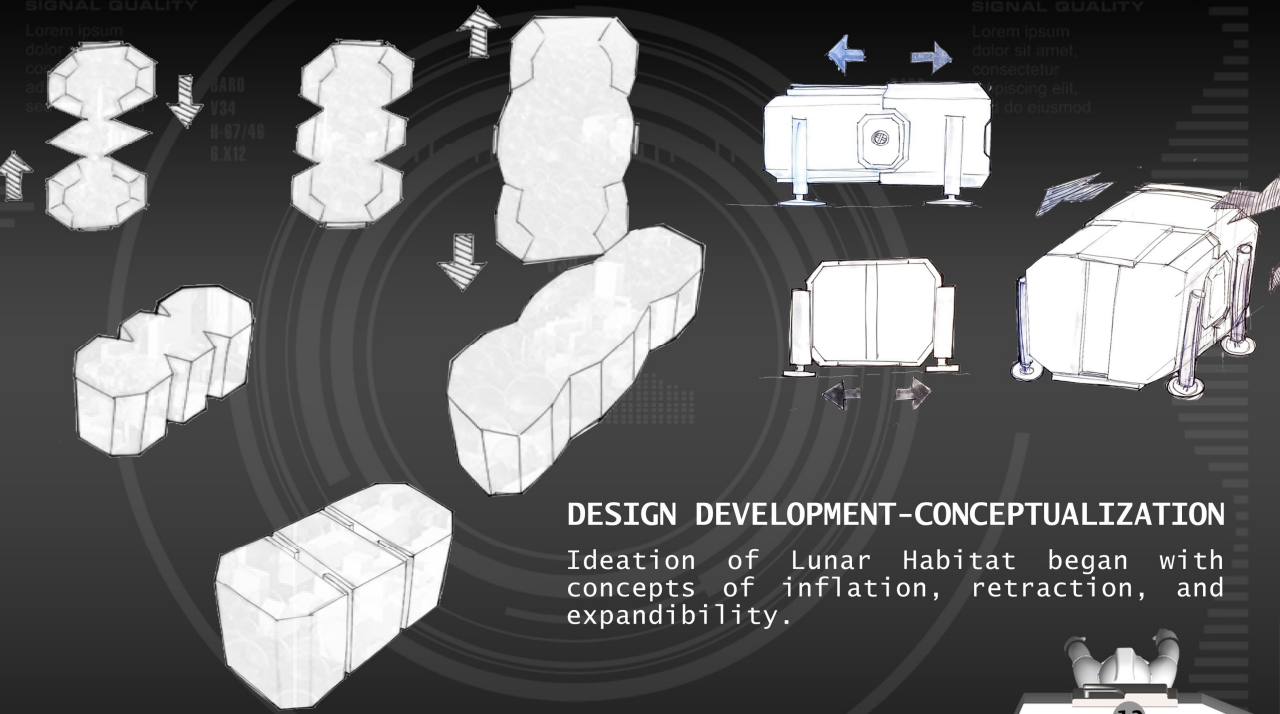
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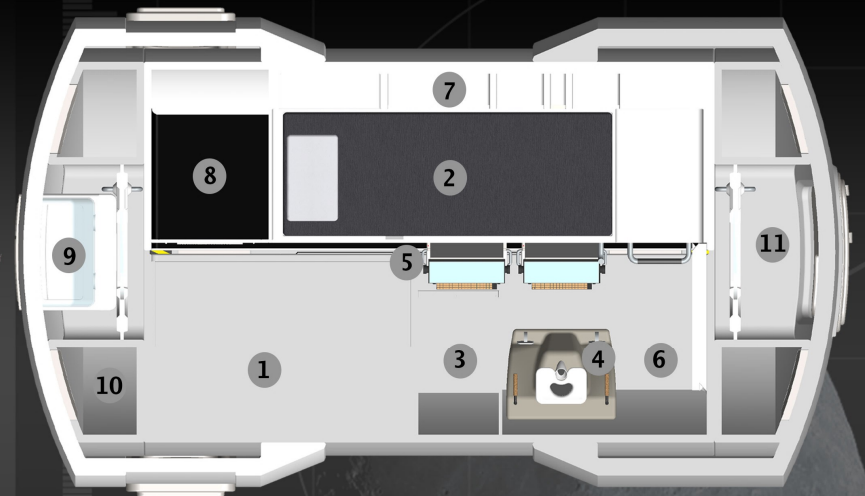
### DESIGN DEVELOPMENT-CONCEPTUALIZATION

Ideation of Lunar Habitat began with concepts of inflation, retraction, and expandability.

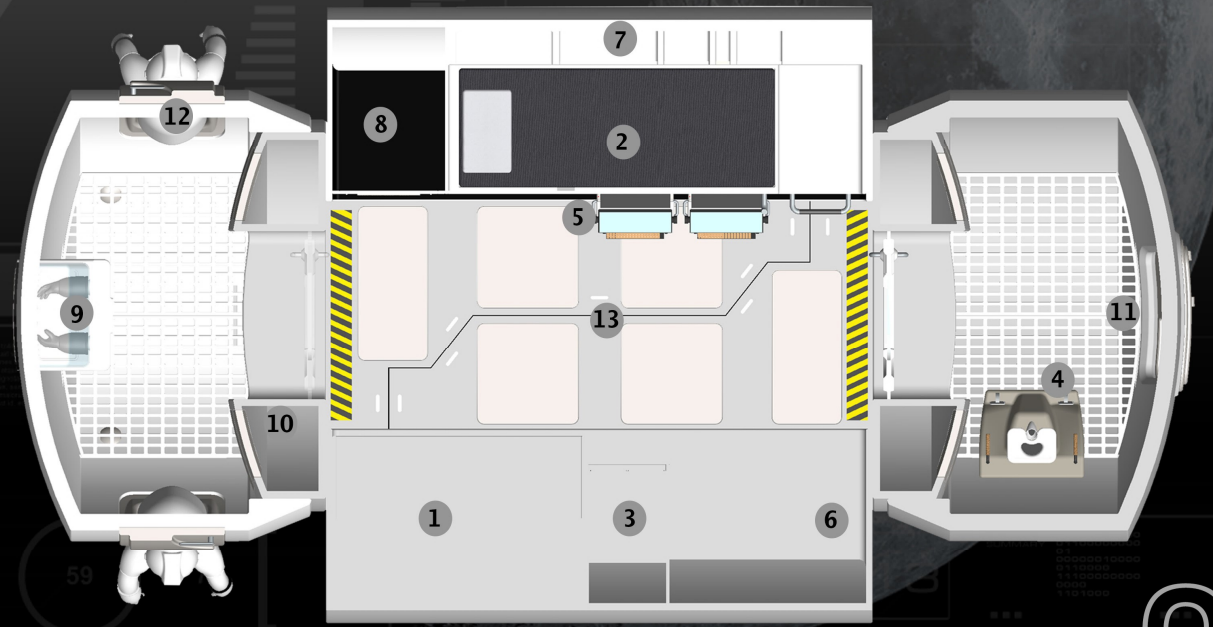
#### Habitat Considerations:

1. Crew Safety
2. Habitable Volume & Modularity
3. Expandability
4. Placement & Orientation of Components
5. IVAs & EVAs
6. Mental & Physical Health

- |                        |                 |
|------------------------|-----------------|
| 1. Galley              | 8. ECLSS        |
| 2. Crew Quarters       | 9. Glove Box    |
| 3. Work Space          | 10. Water       |
| 4. Movable Hygiene Pod | 11. Access Door |
| 5. Work Station        | 12. Suit Ports  |
| 6. Pre-flight Storage  | 13. Common Area |
| 7. Crew Stowage        |                 |

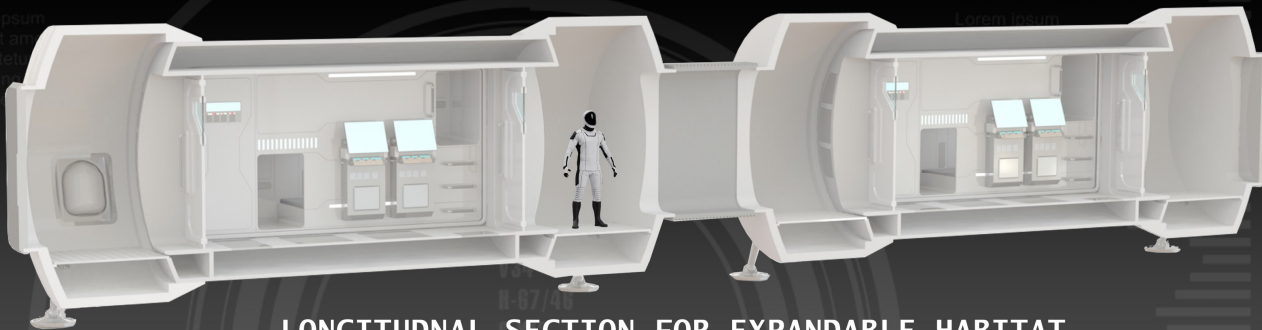


PLAN VIEW - PREFLIGHT

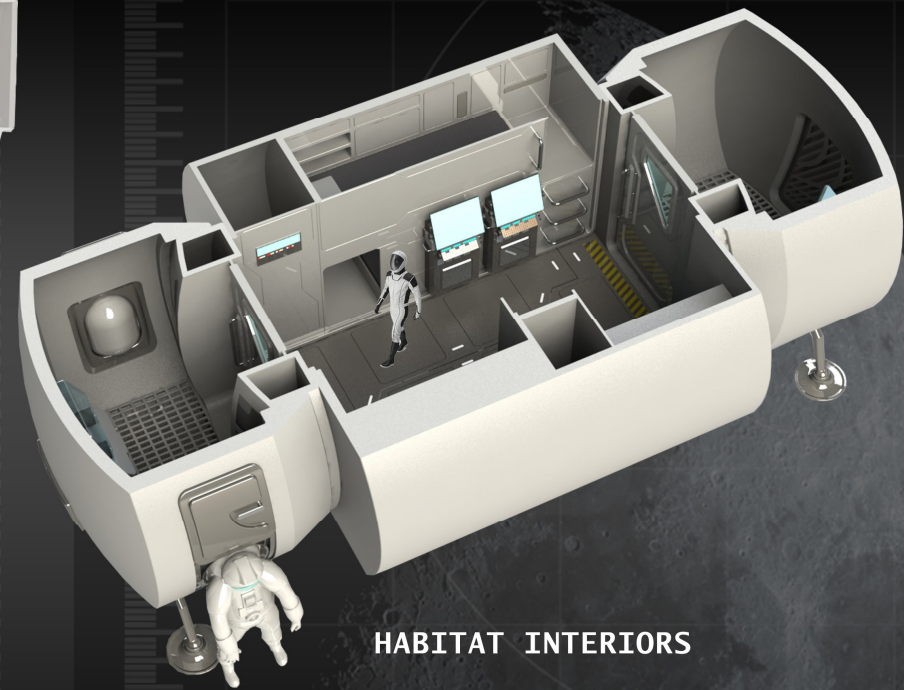


PLAN VIEW - DEPLOYED





LONGITUDINAL SECTION FOR EXPANDABLE HABITAT



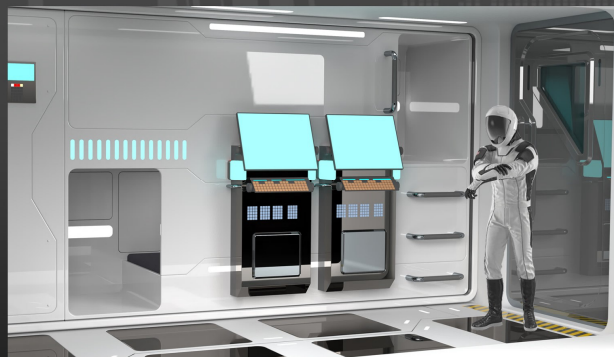
HABITAT INTERIORS

The Lunar module is adaptable according to the user, and is designed to expand. The expandability will determine the potential colonization first on Moon, then on Mars.

Different configurations installed & docked together will determine the importance of longevity to sustain on lunar surface.

Habitat Systems/ Sub-systems:

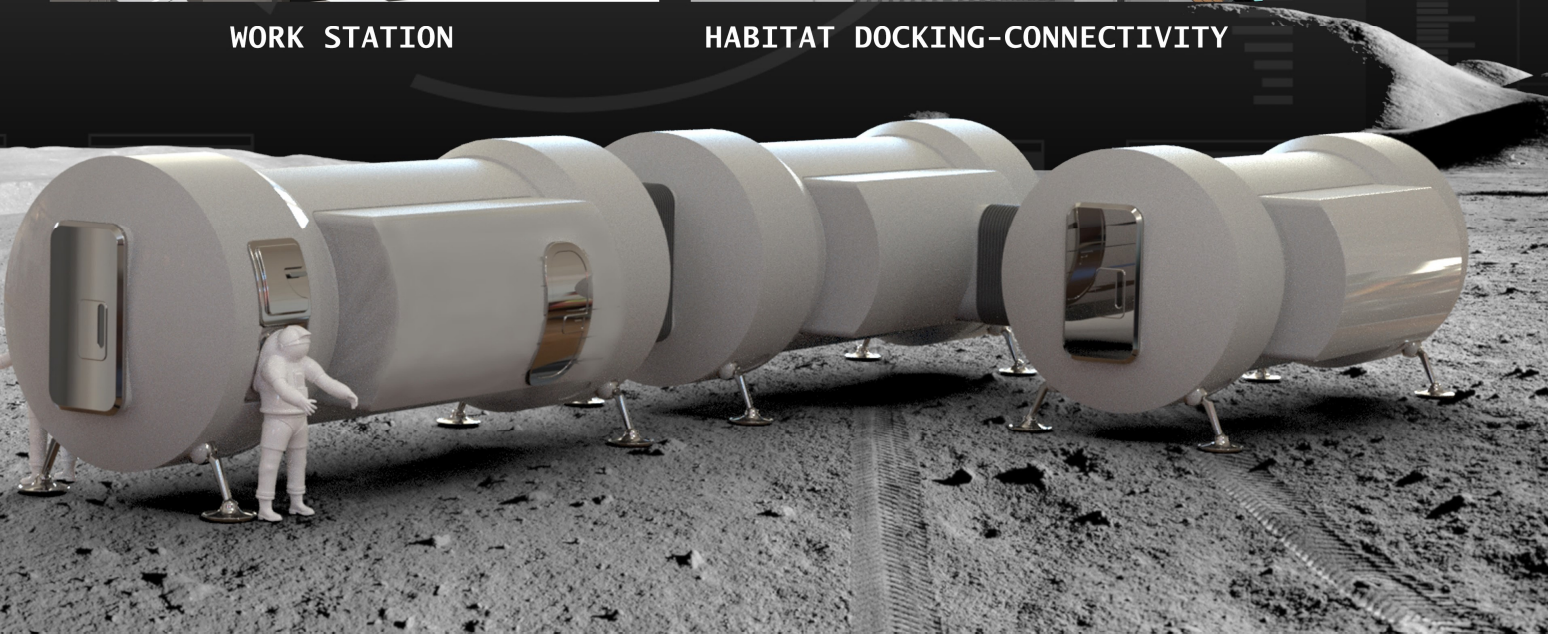
1. Health & Hygiene
2. Communications
3. General Environment
4. Recreation
5. Exercise, Work, Sleep



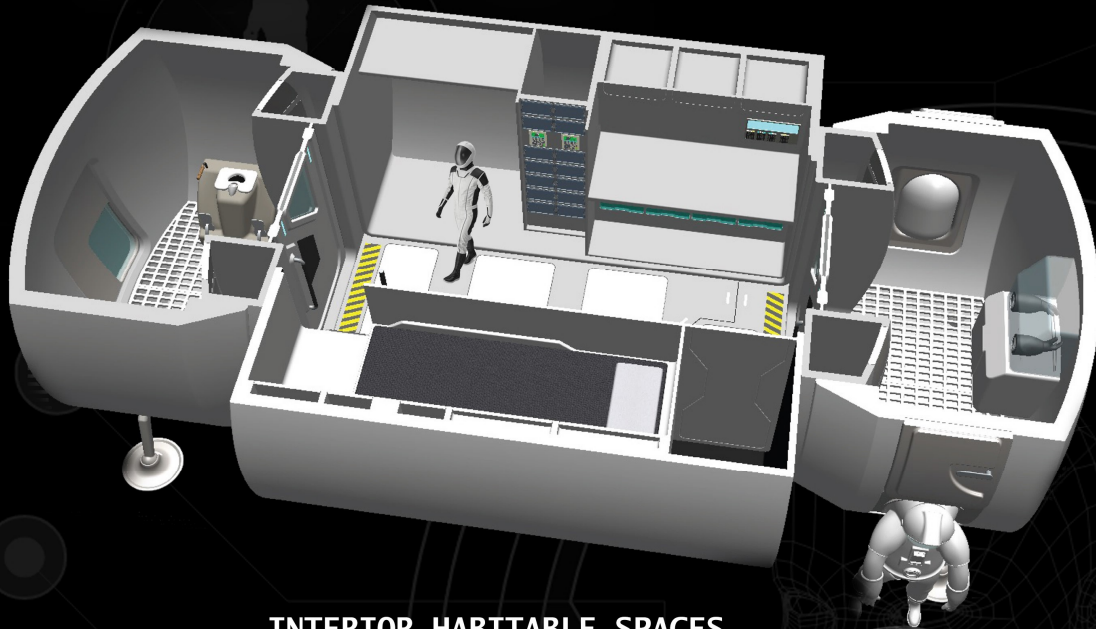
WORK STATION



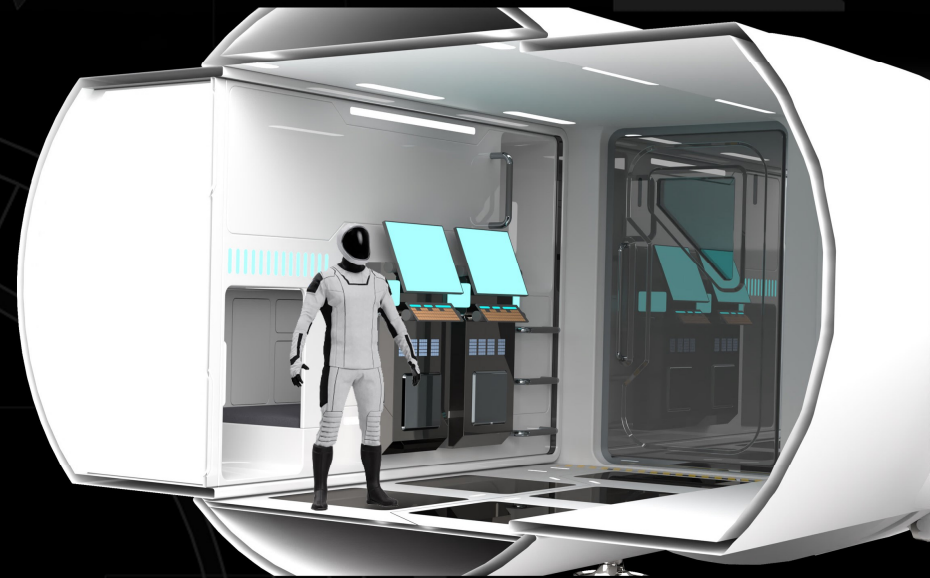
HABITAT DOCKING-CONNECTIVITY







INTERIOR HABITABLE SPACES



INTERIOR GALLEY AREA

