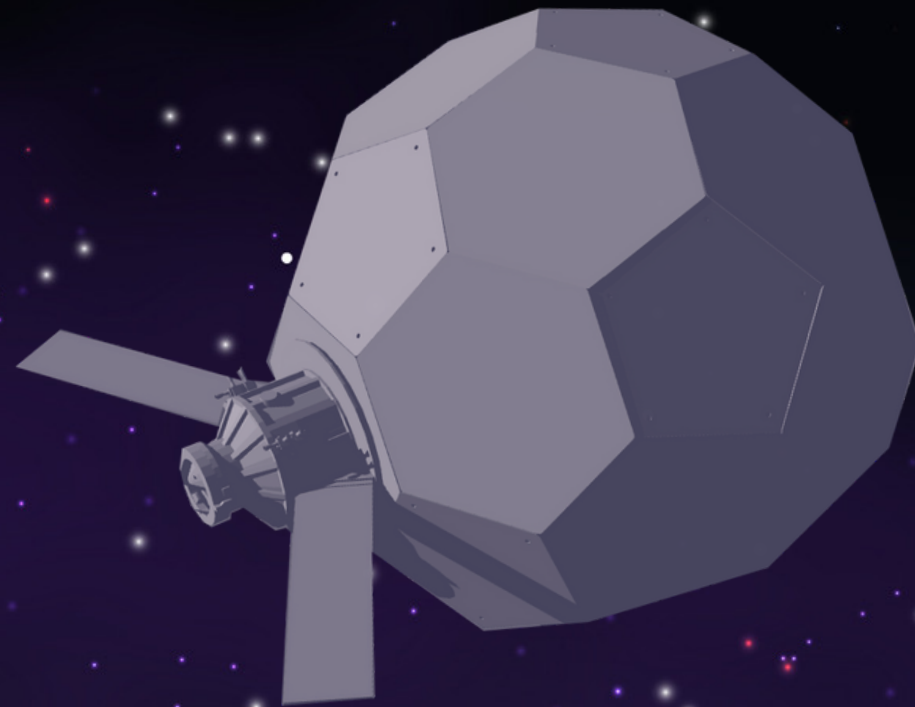


ANASTASIA PROSINA  
NSS NORTH HOUSTON SPACE SOCIETY


# Space Architecture




**+ Space Architecture**

**+ My works**

**+ Mars Analog Habitat**



**Space Architecture** is the theory  
and practice of designing and  
building inhabited  
environments in outer space





# WHY



# SPACE ARCHITECTURE?









- + **ARTIFICIAL LIGHT**
- + **VISUAL DISORDER**
- + **CROWDEDNESS**
- + **NOISE**
- + **SMELLS**
- + **LACK OF COLOR**
- + **NO WALKS OUT**

**- Stress- Anxiety - Discomfort- Aggression**





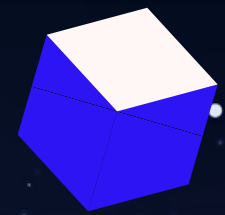


ENVIRONMENTAL  
FACTORS

SIZING: NUMBER OF  
CREW/MISSION  
DURATION

THE INFLUENCE OF THE  
TRANSPORTATION  
SYSTEM

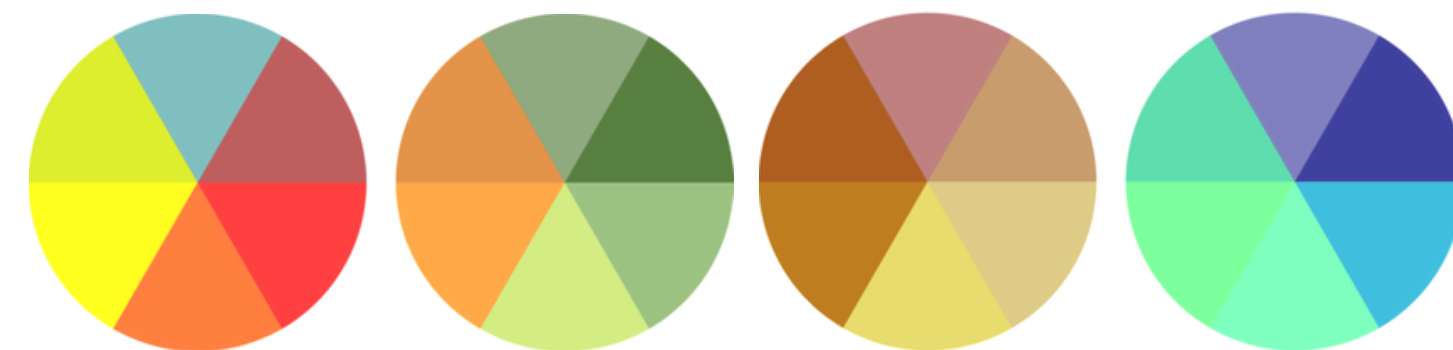
HUMANS IN  
WEIGHTLESSNESS



**What  
influence  
space  
architecture?**



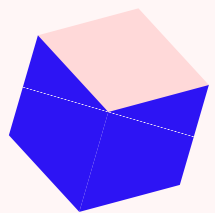
**COLORS  
THAT MAKE  
YOU FEEL  
HOME**



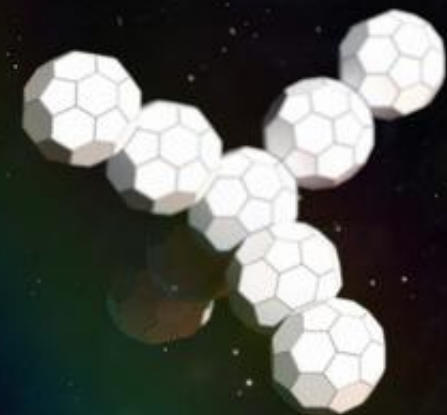




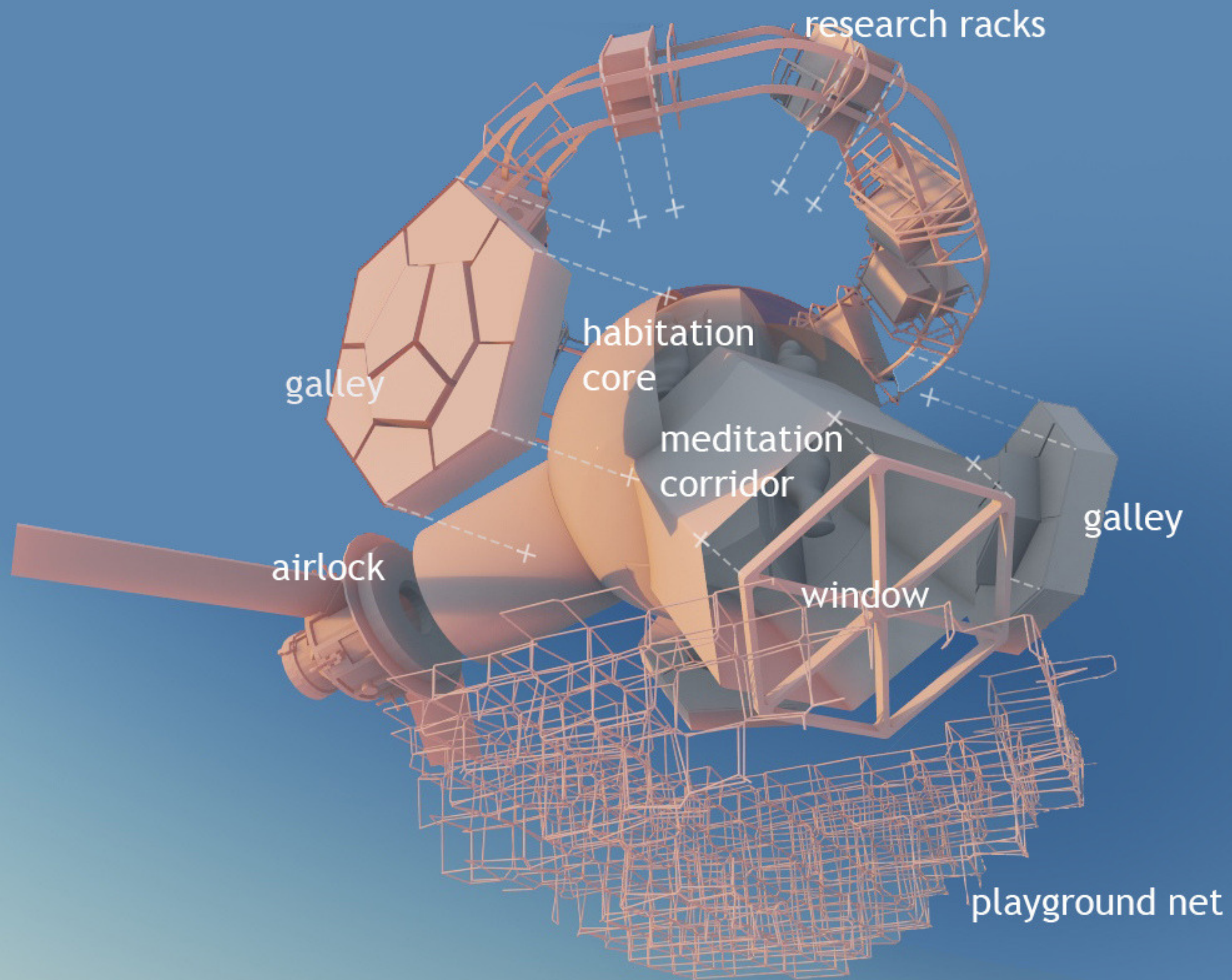




# An Interior for the Self-Assembling Space Station









## STOWED

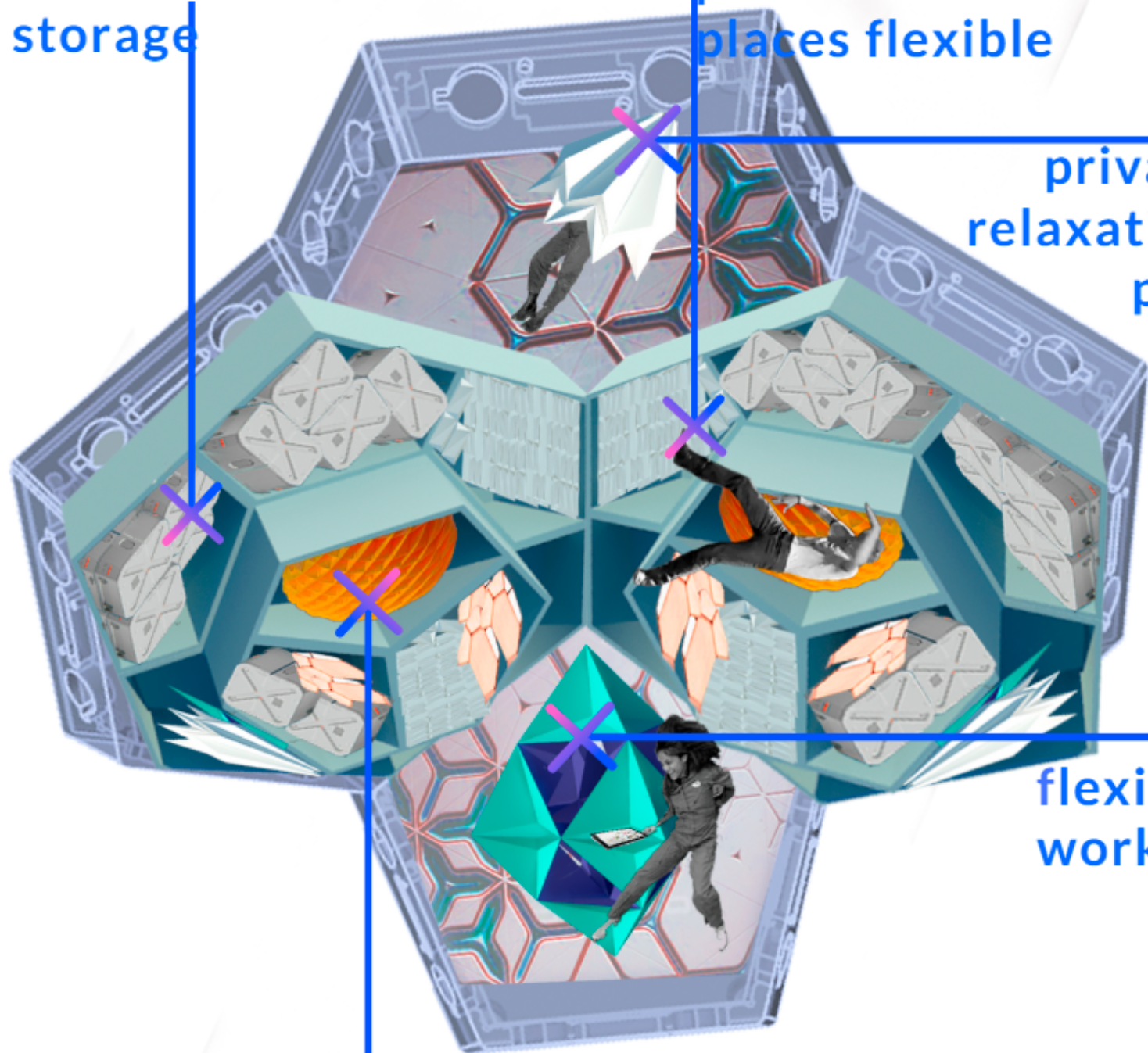
food storage

origami-made  
partition to make  
places flexible

private  
relaxation  
pod

flexible  
workstation

ellipsoidal  
origami-made  
"table" to keep  
food and devices  
static



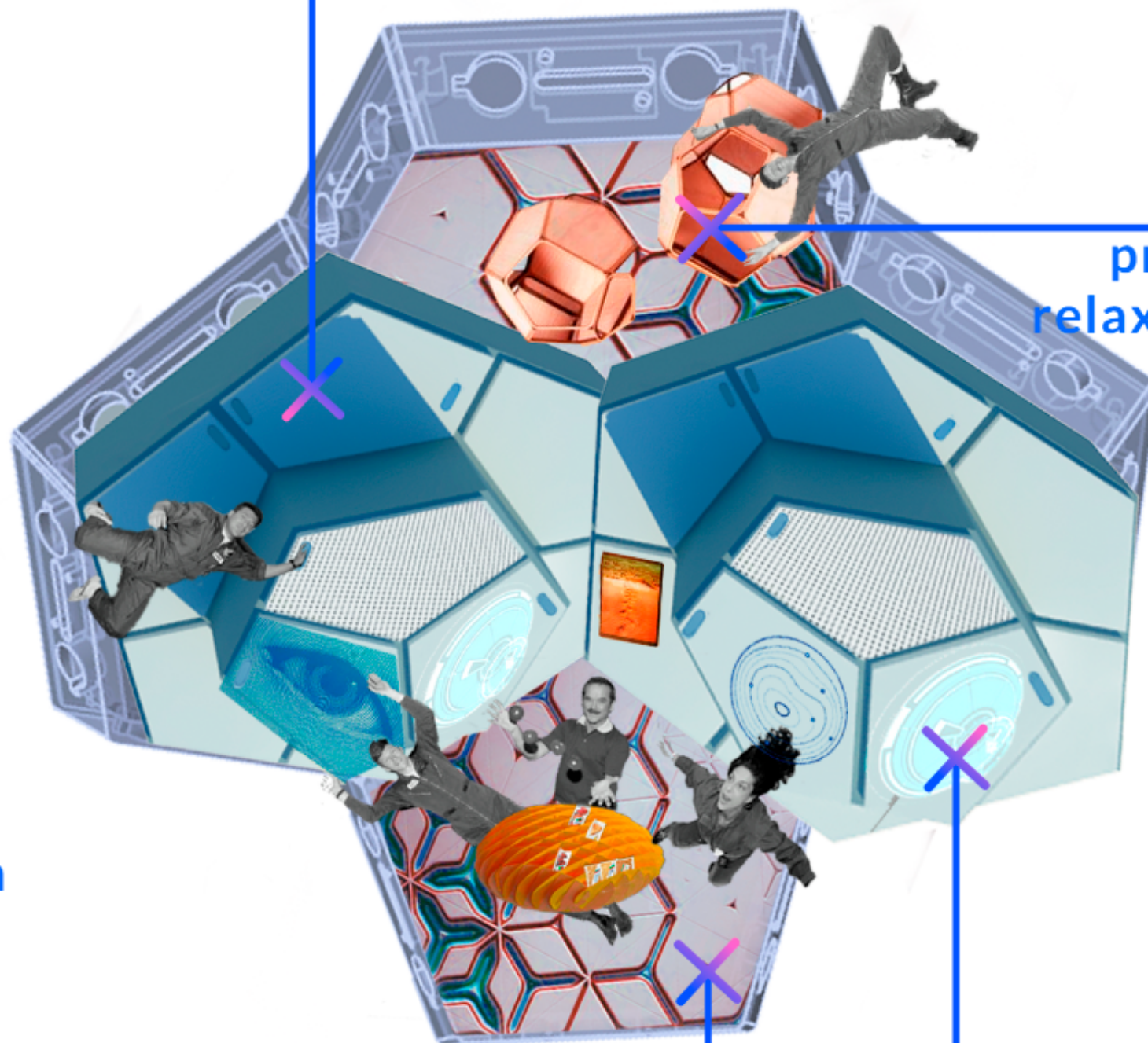
collapsible fabric  
lid

## DEPLOYED

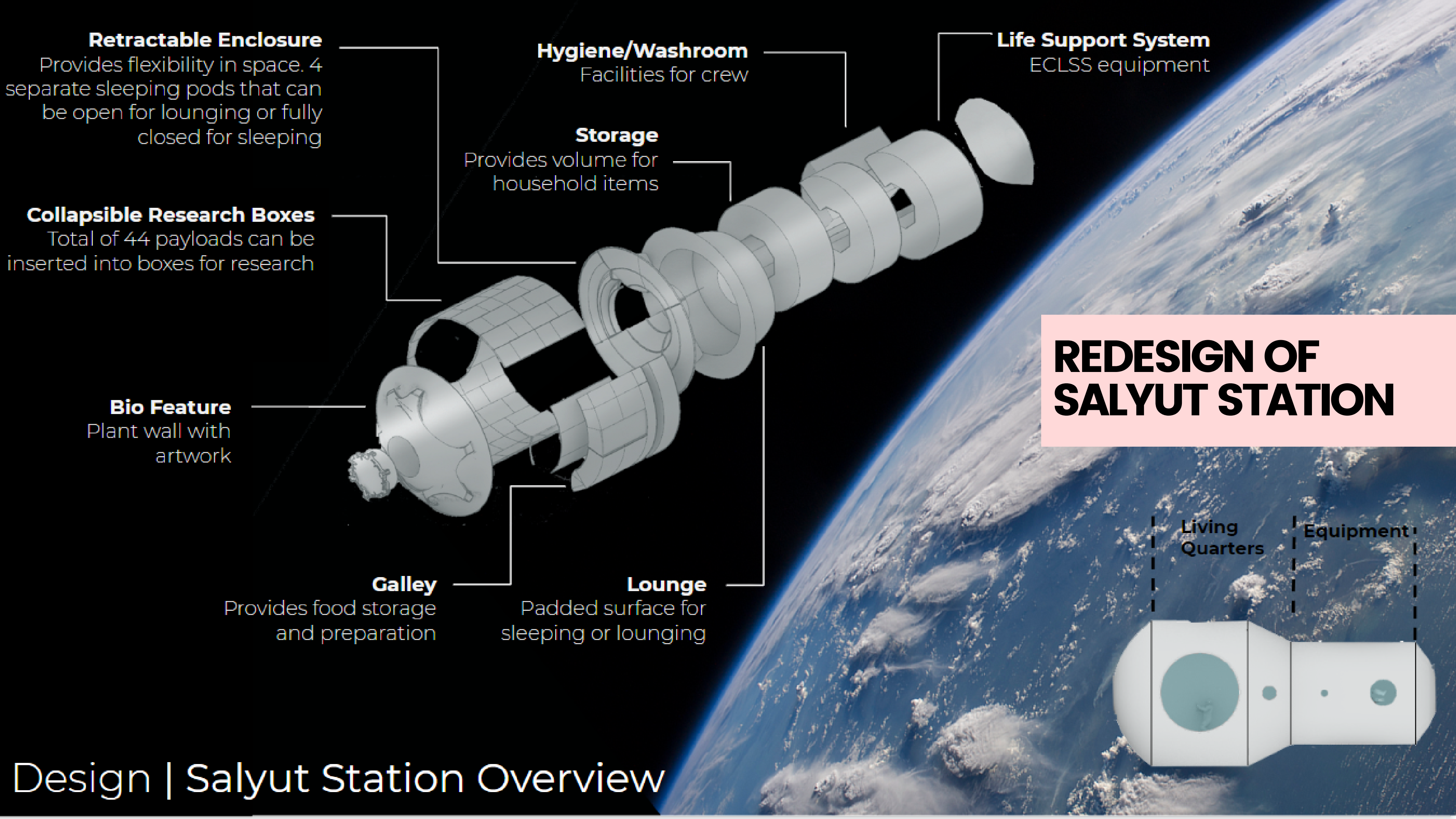
private  
relaxation  
pod

projection

tactual texture







**Retractable Enclosure**

Provides flexibility in space. 4 separate sleeping pods that can be open for lounging or fully closed for sleeping

**Collapsible Research Boxes**

Total of 44 payloads can be inserted into boxes for research

**Bio Feature**

Plant wall with artwork

**Galley**

Provides food storage and preparation

**Lounge**

Padded surface for sleeping or lounging

**Hygiene/Washroom**

Facilities for crew

**Storage**

Provides volume for household items

**Life Support System**

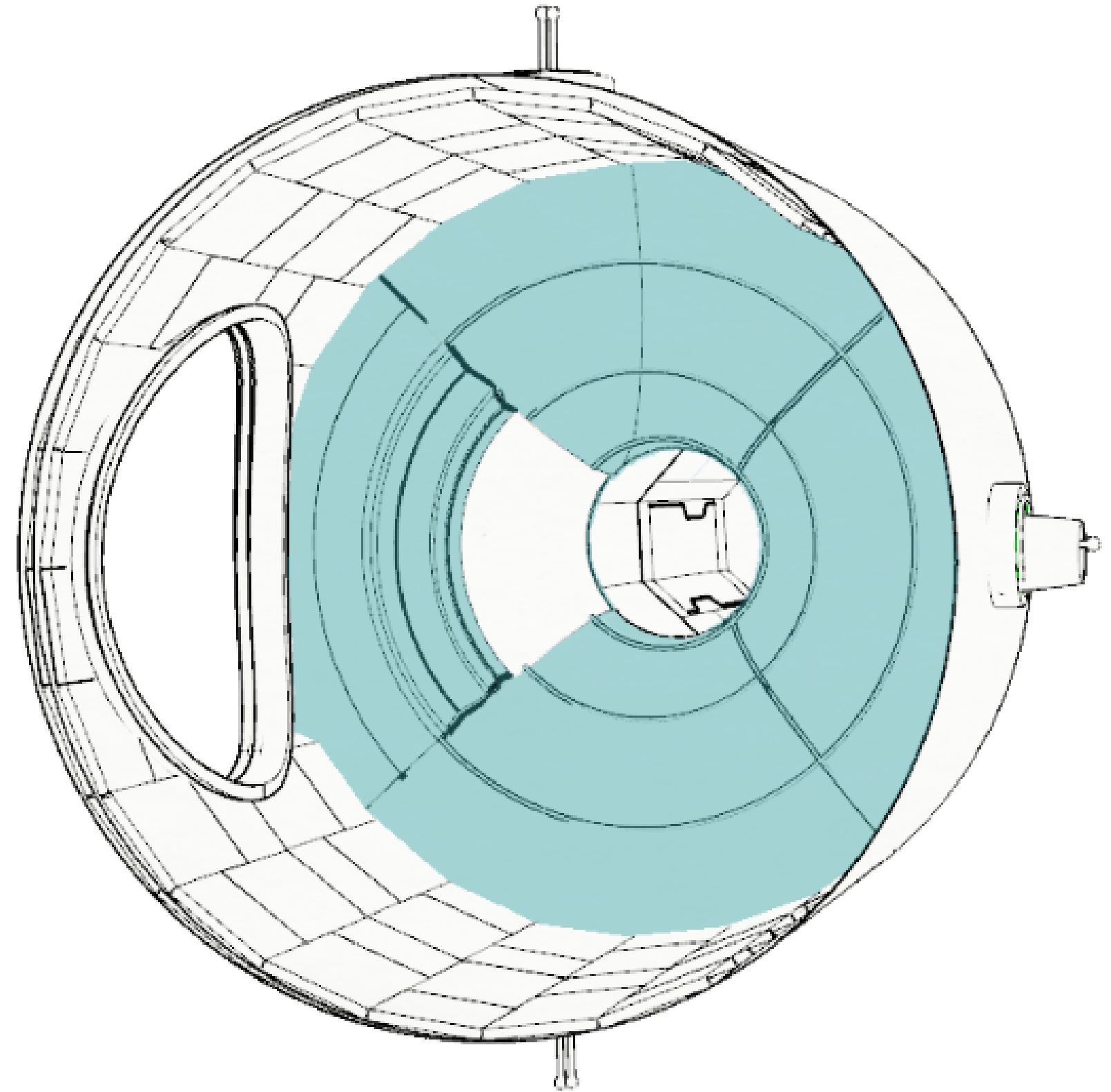
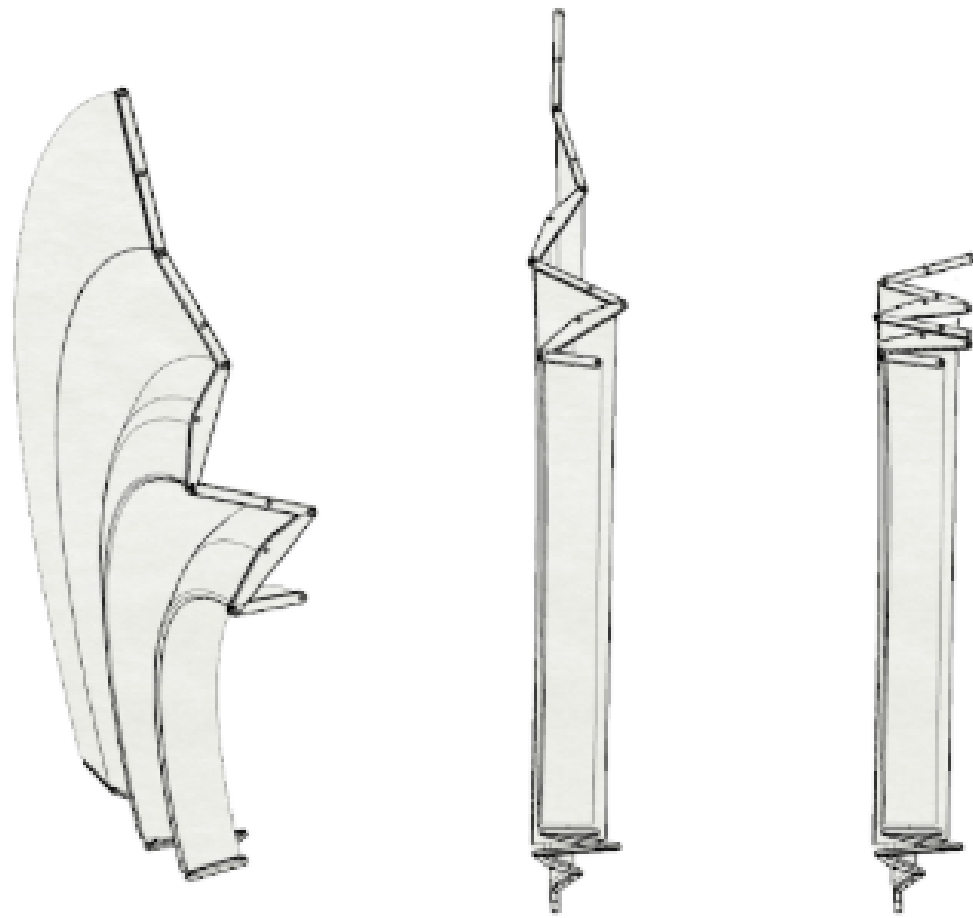
ECLSS equipment

**REDESIGN OF  
SALYUT STATION**

Living  
Quarters

Equipment

- Retractable sleeping quarter reduces volume to create universal space
- Properties
  - Automated and/or manual operations
  - Stowable
  - Sleeping bag momento
  - Lounge during nonuse

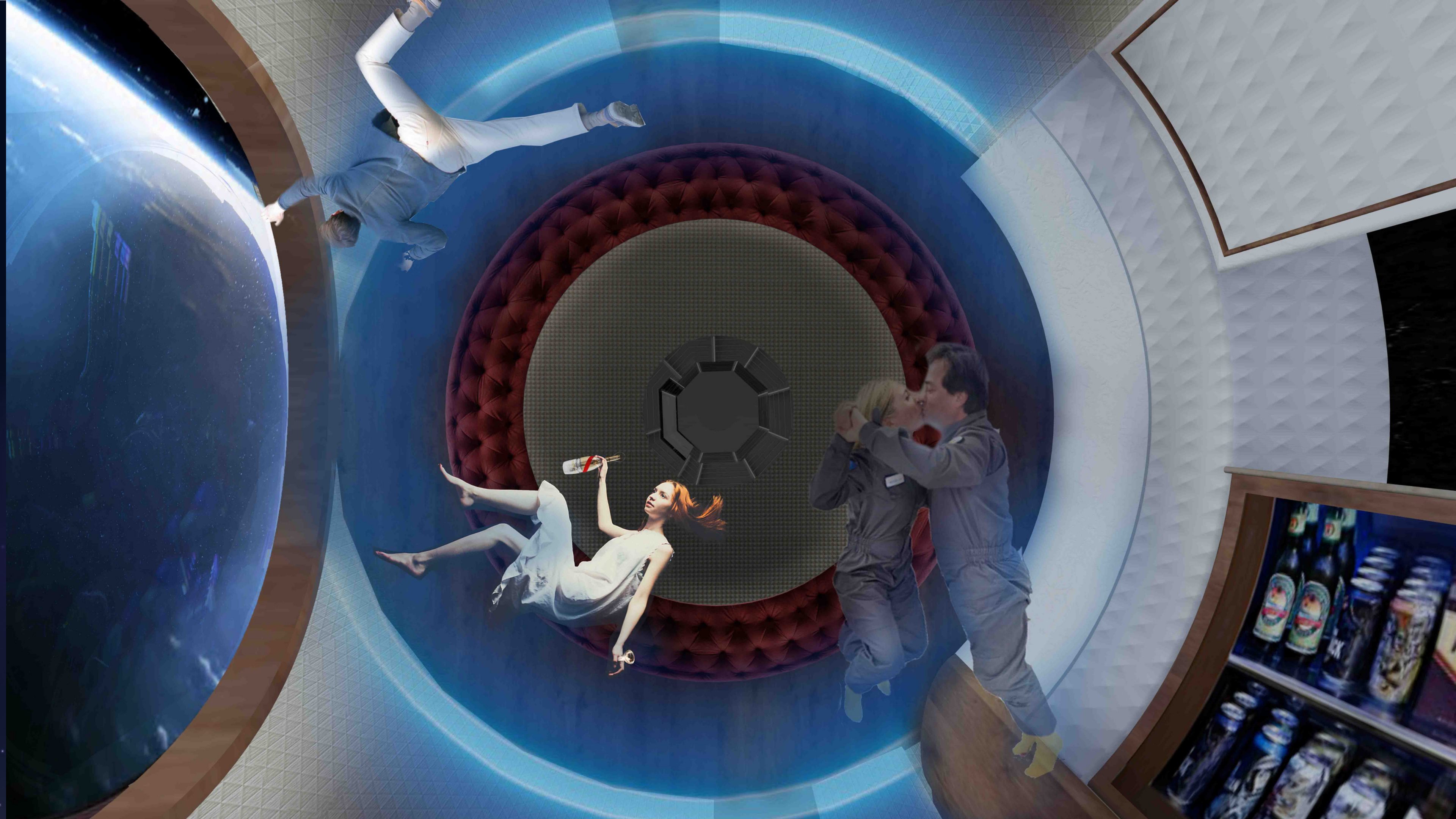


Key Features | Retractable Enclosure











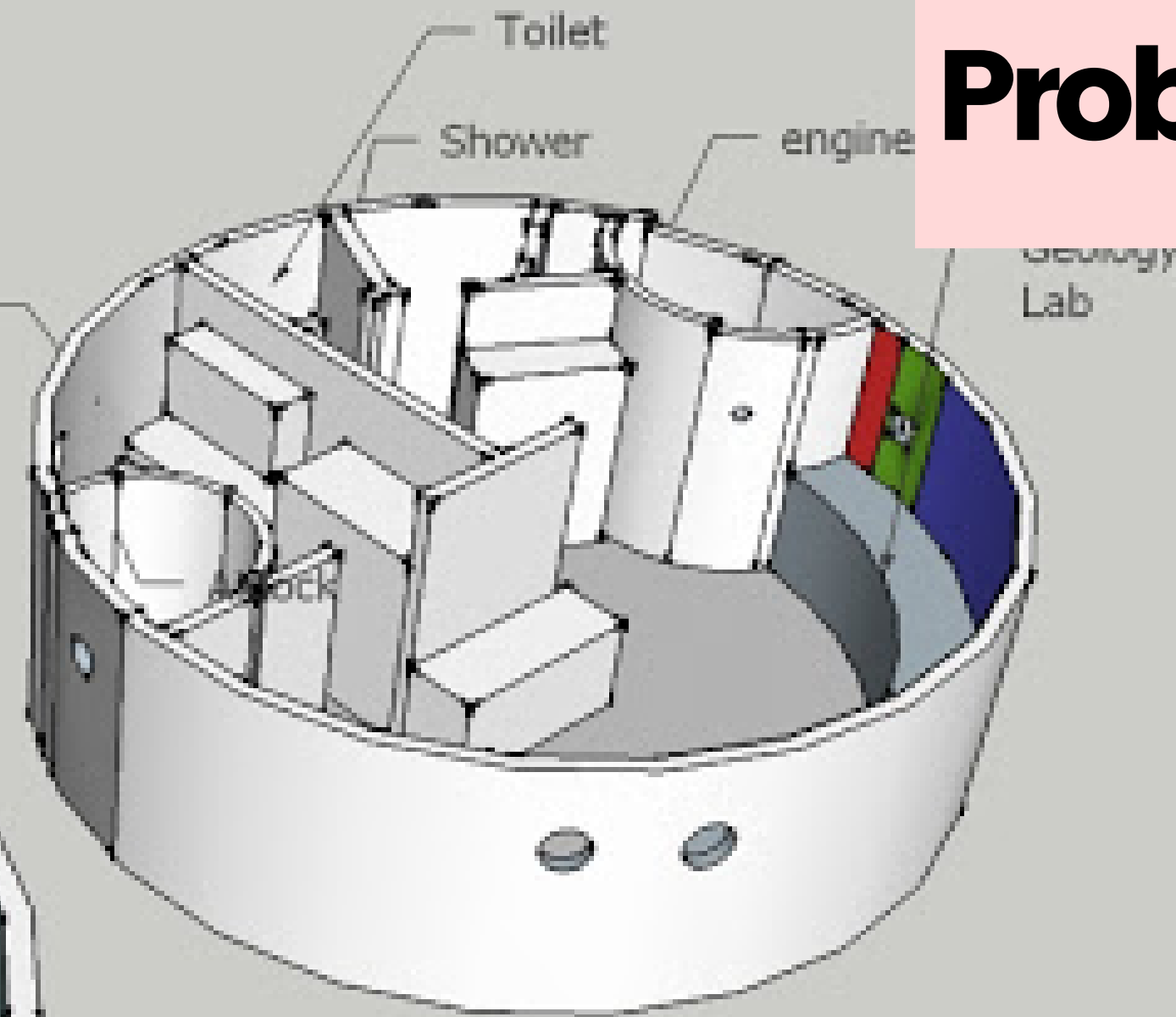


# Mars Analog Habitat

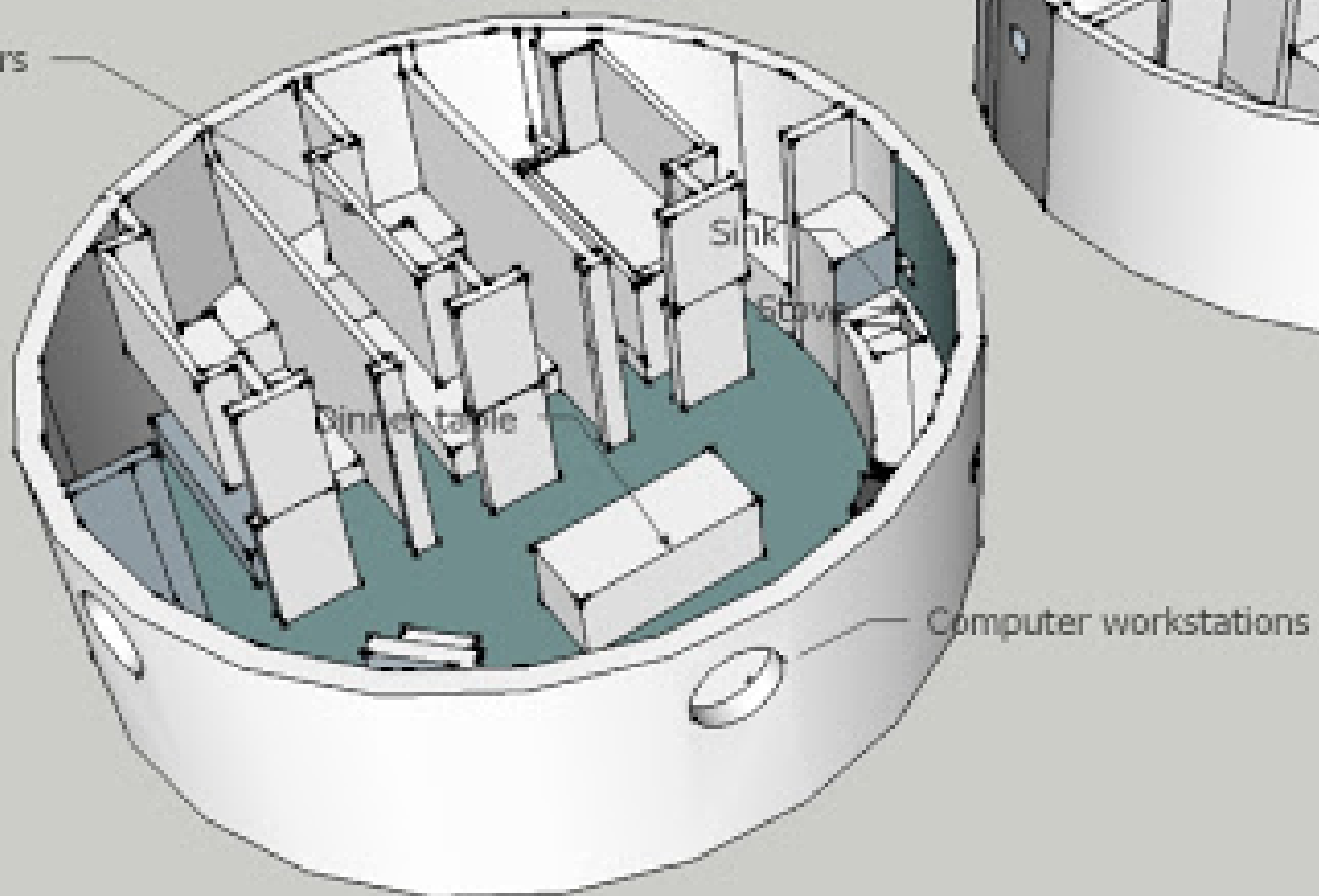
# Problem



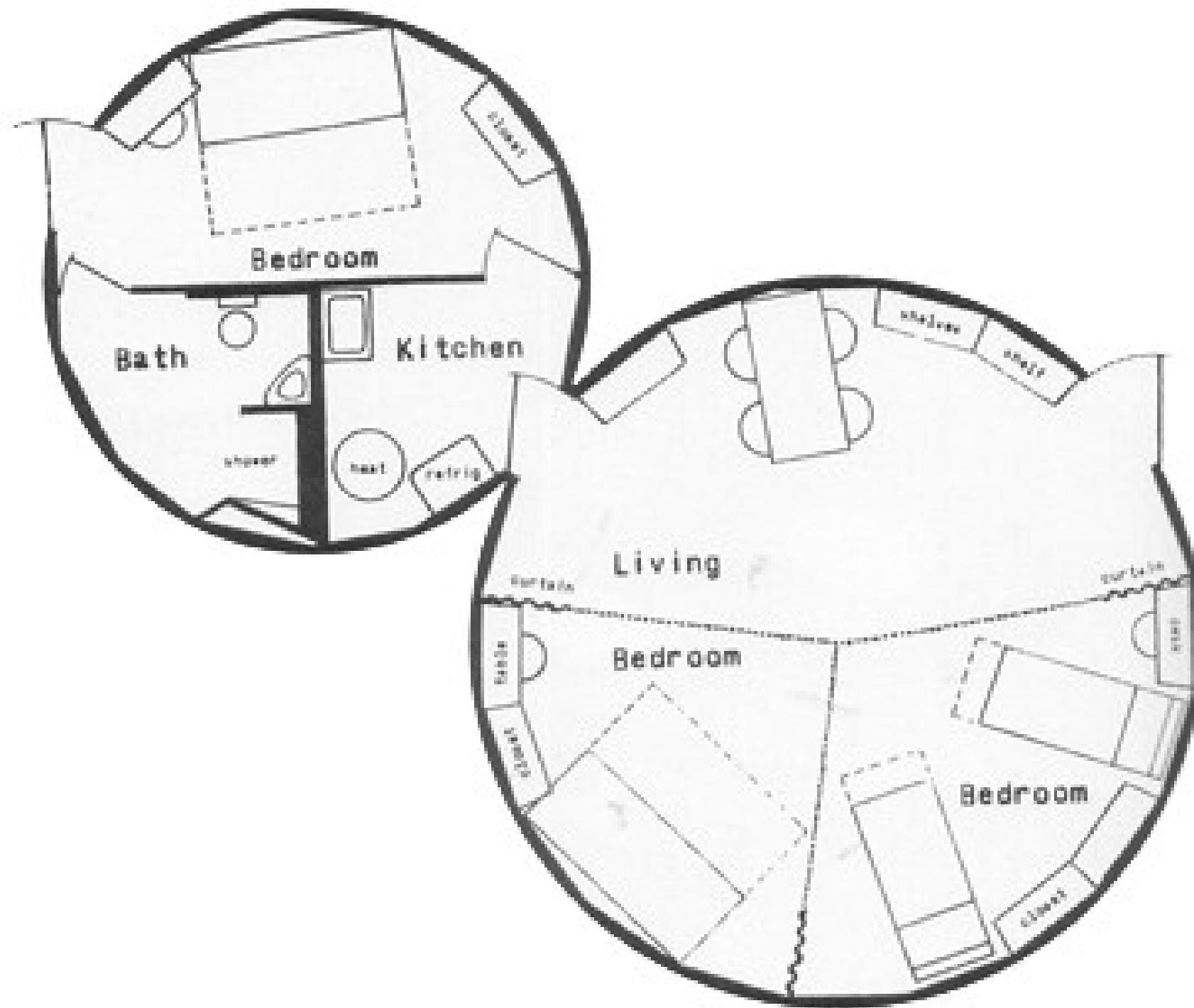
EVA prep room



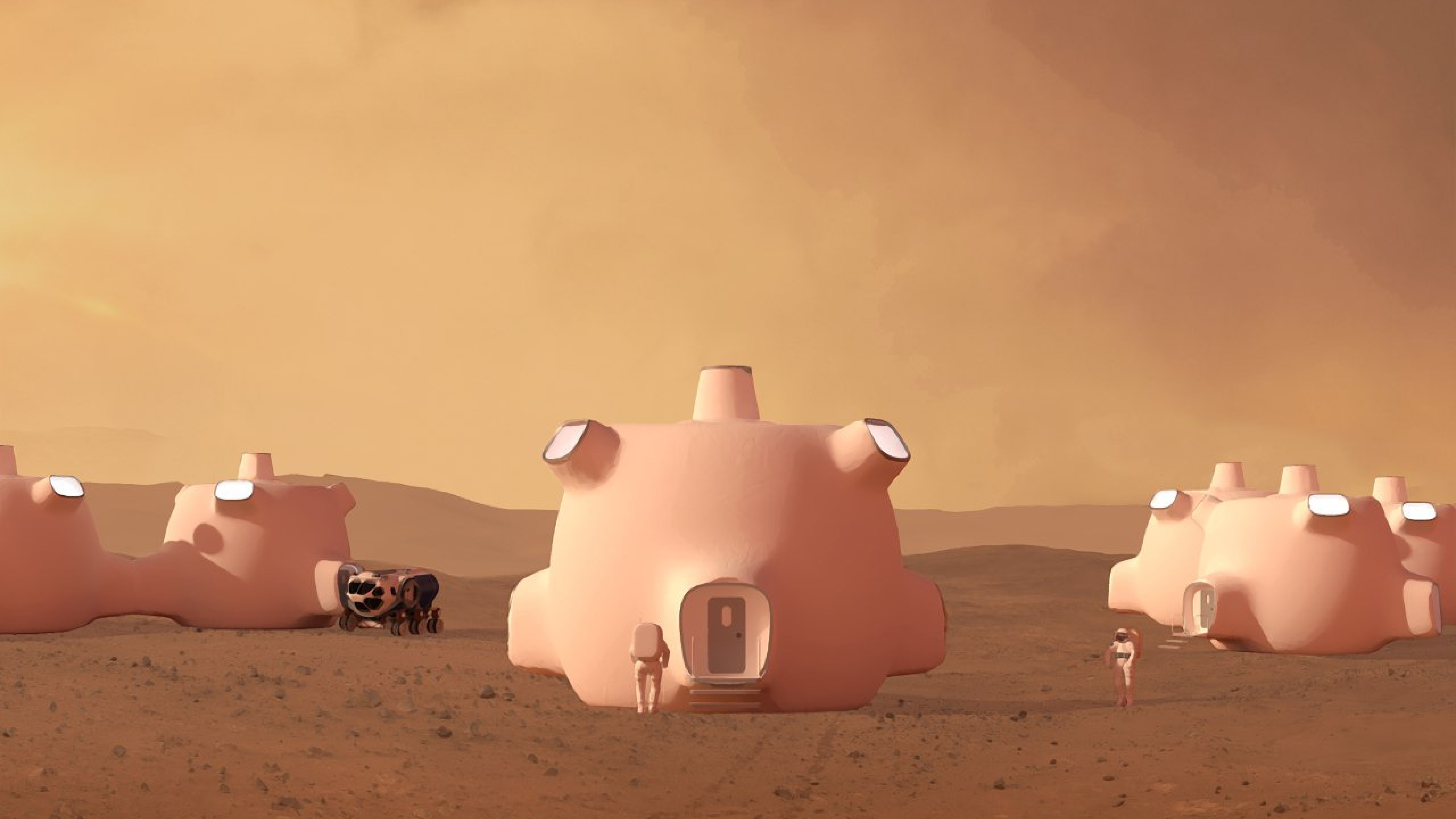
Crew quarters



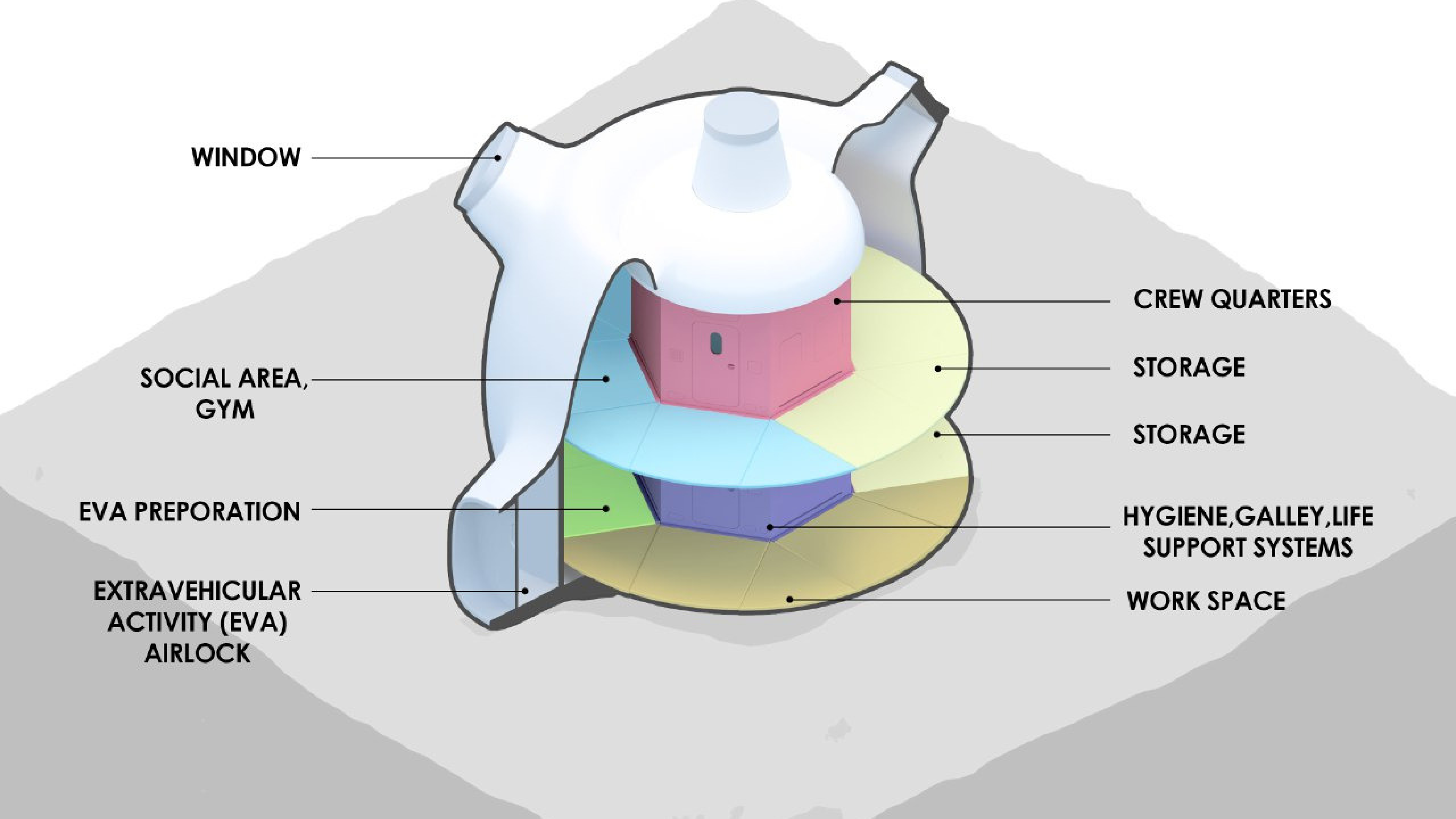




**Even Fuller could not complement his rounded houses with efficient interior solutions**







**WINDOW**

**SOCIAL AREA,  
GYM**

**EVA PREPORATION**

**EXTRAVEHICULAR  
ACTIVITY (EVA)  
AIRLOCK**

**CREW QUARTERS**

**STORAGE**

**STORAGE**

**HYGIENE,GALLEY,LIFE  
SUPPORT SYSTEMS**

**WORK SPACE**

# HUMATURE.XYZ

HELPING AEROSPACE COMPANIES  
MAKING SPACESHIPS SECOND  
HOMES





**FOR MORE  
PROJECTS  
VISIT**

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# Q&A

