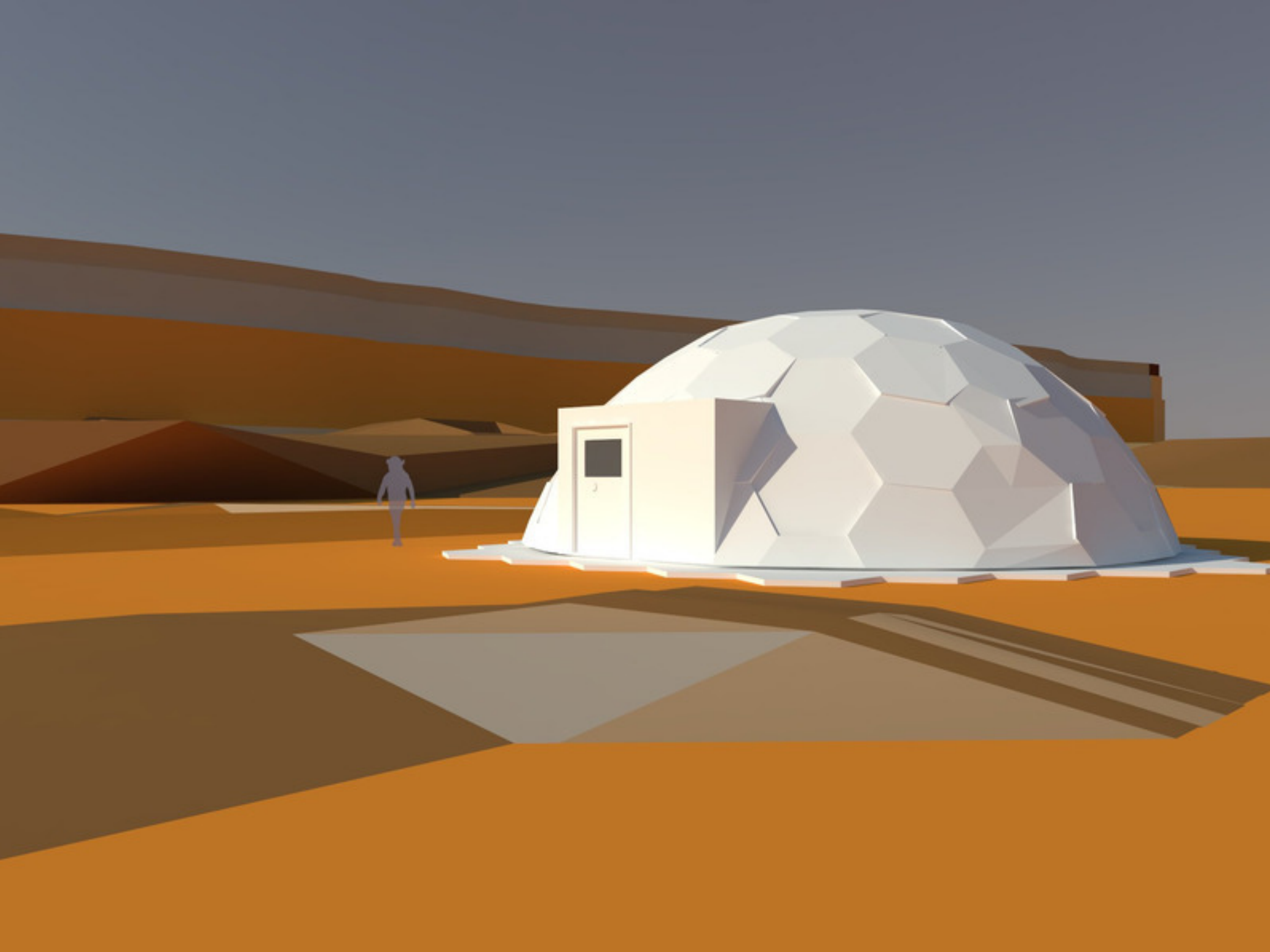
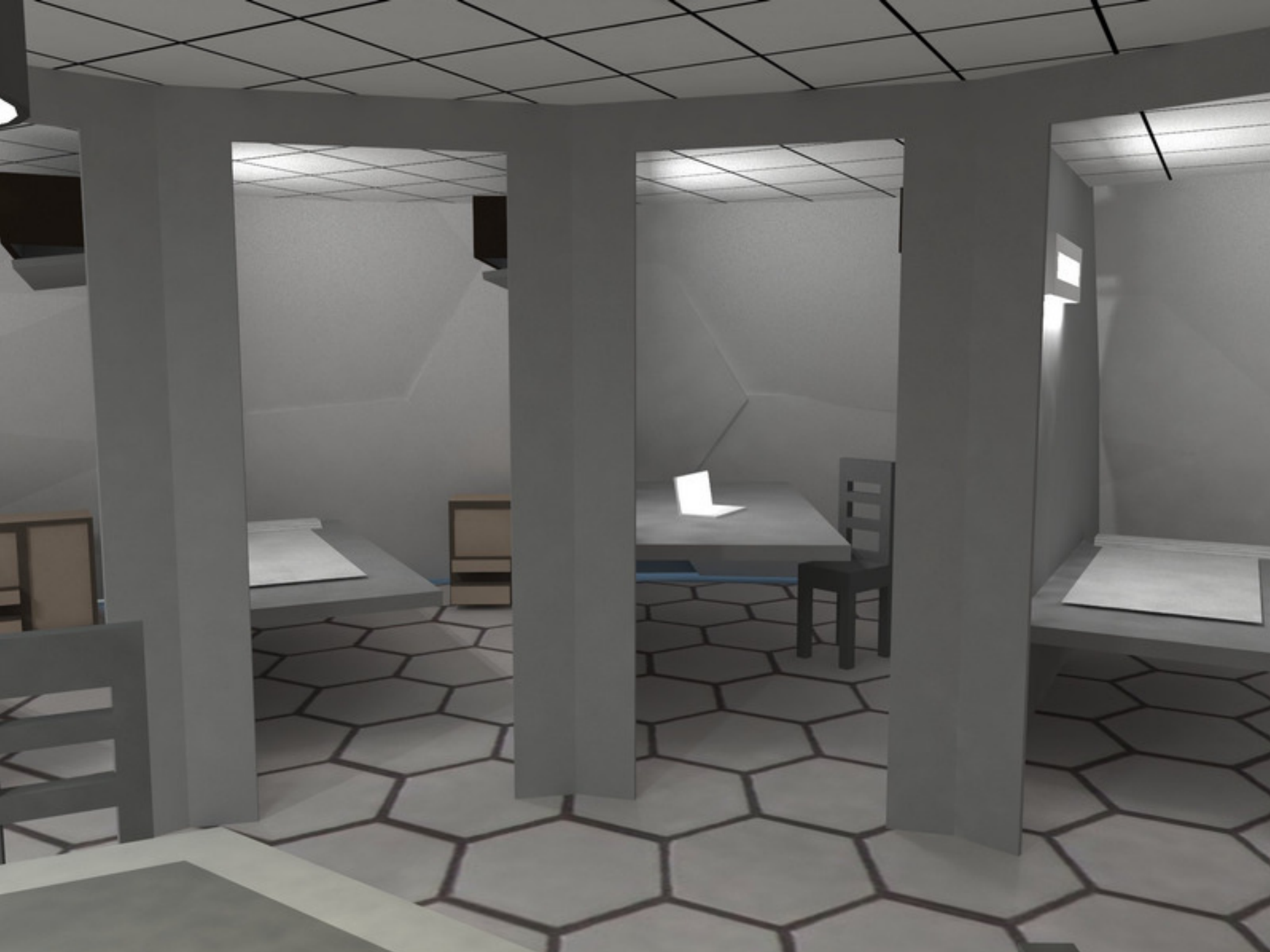
NASA SpaceApps Challenge 2017

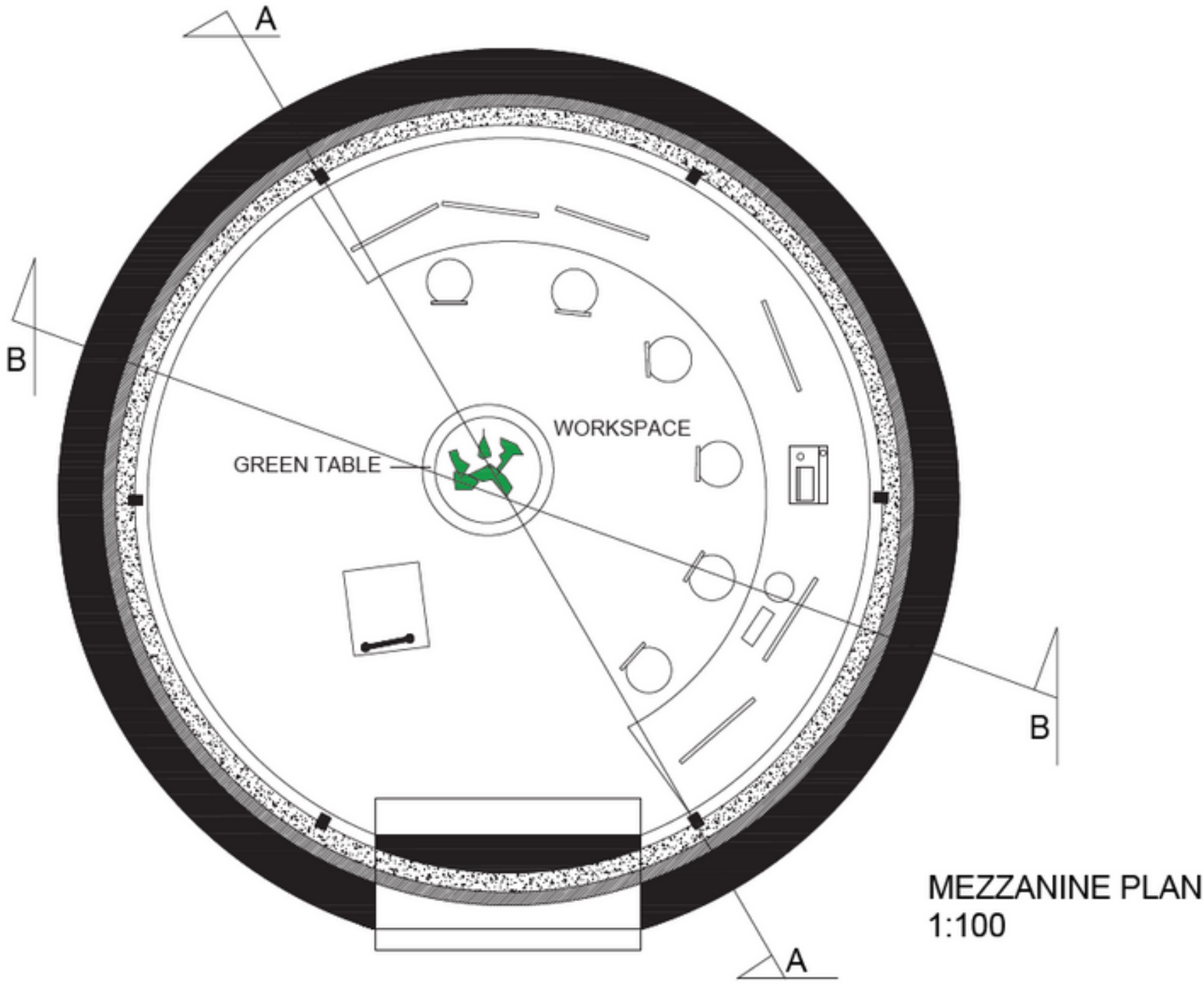

Capri Mensa
Valles Marineris
14°30'26"S
52°49'12"W
Nectaris Montes
Aurorae Sinus
Saravan
Eos Chaos
53 km
Position: -45.33°, -17.27°
3D

How to survive on Mars?

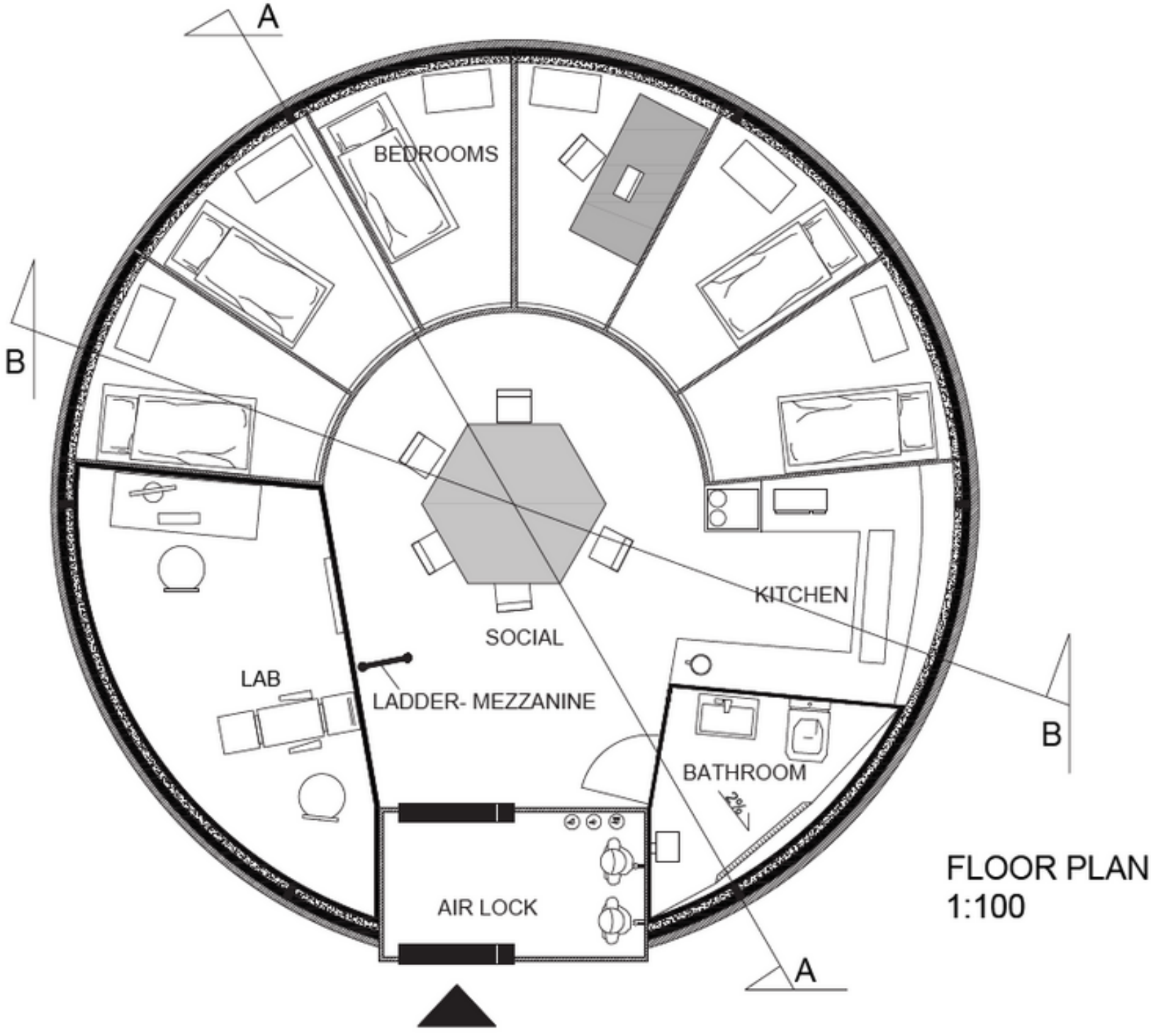
Conditions	Earth	Mars
Surface gravity (m/s2)	9.80	3.71
Average tempreature (K)	287	218
Radiation protection	atmosphere (eletromagnetic shield)	none
Main atmospheric composition	N2	CO2



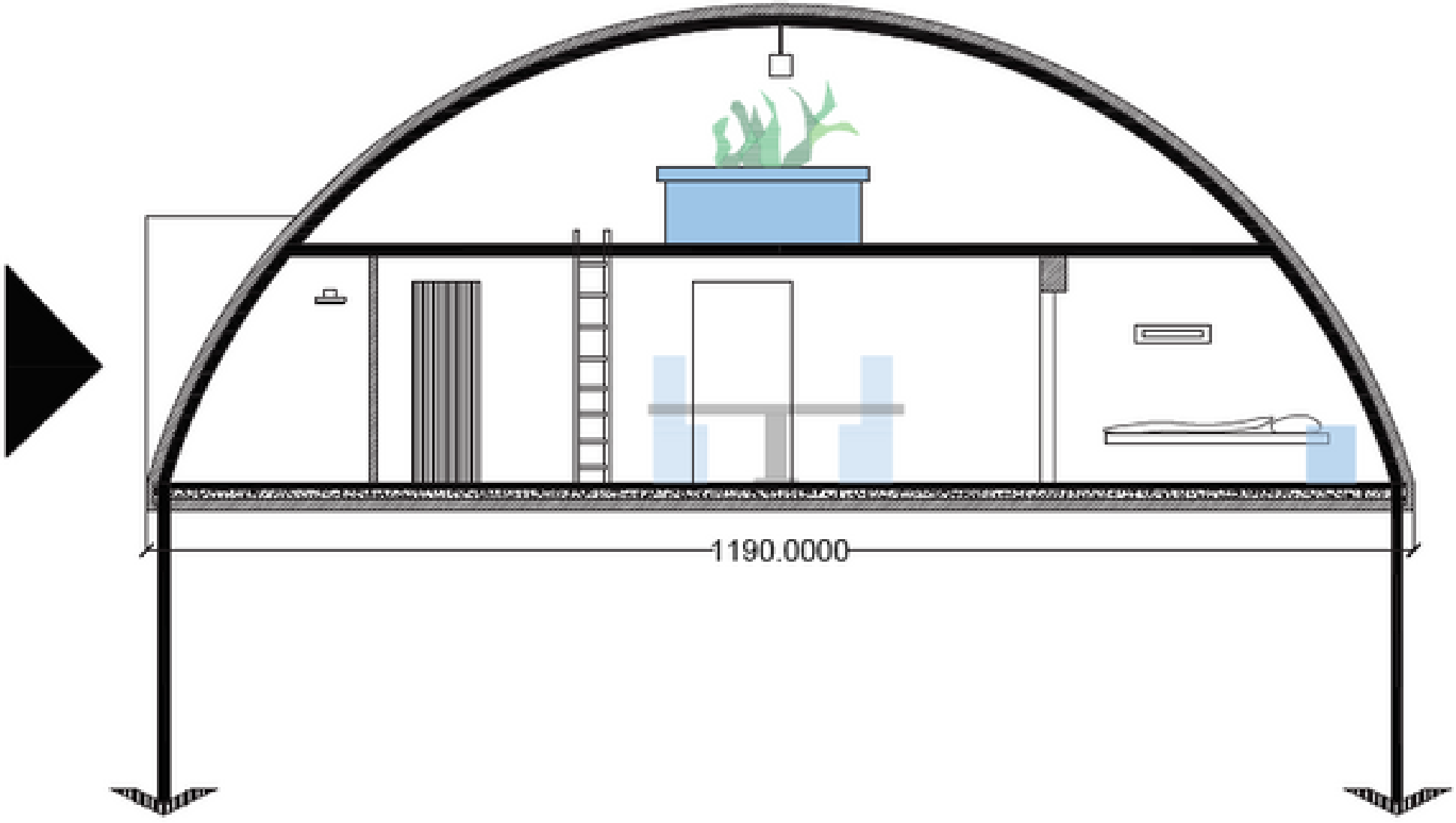




MEZZANINE PLAN
1:100



FLOOR PLAN
1:100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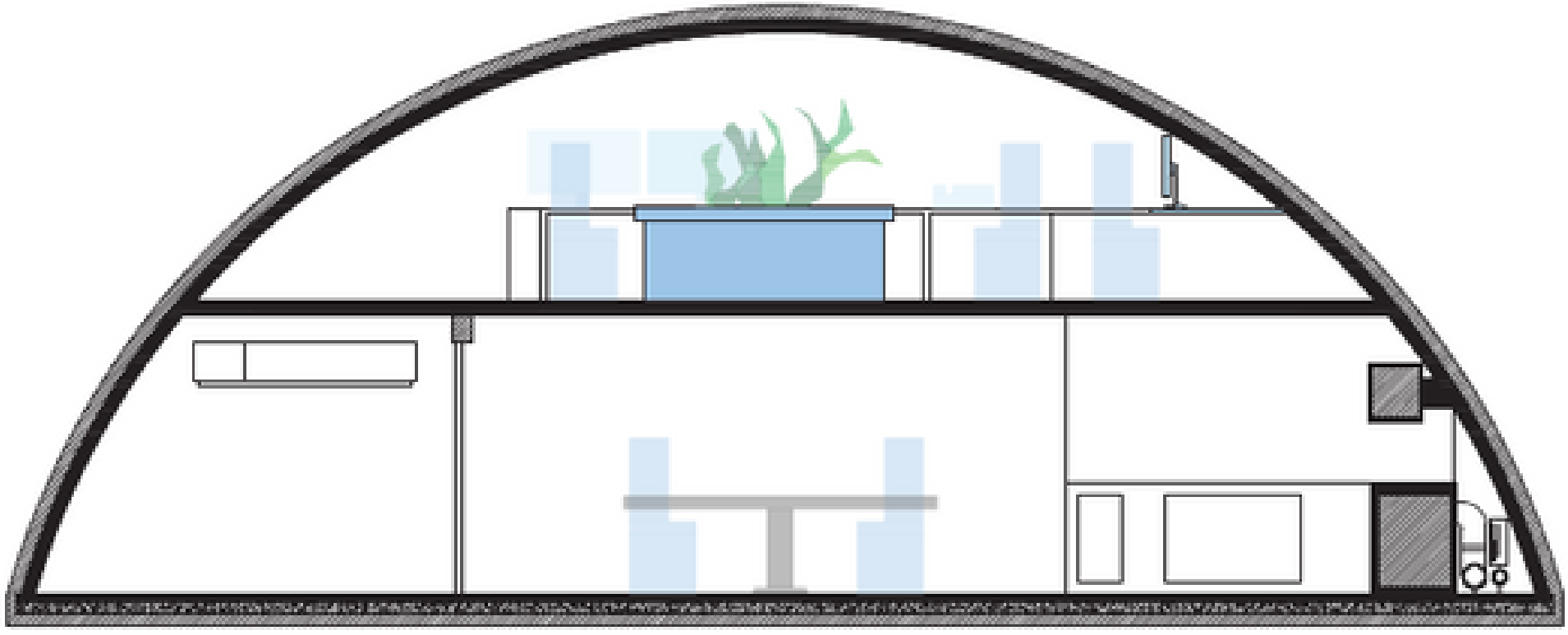
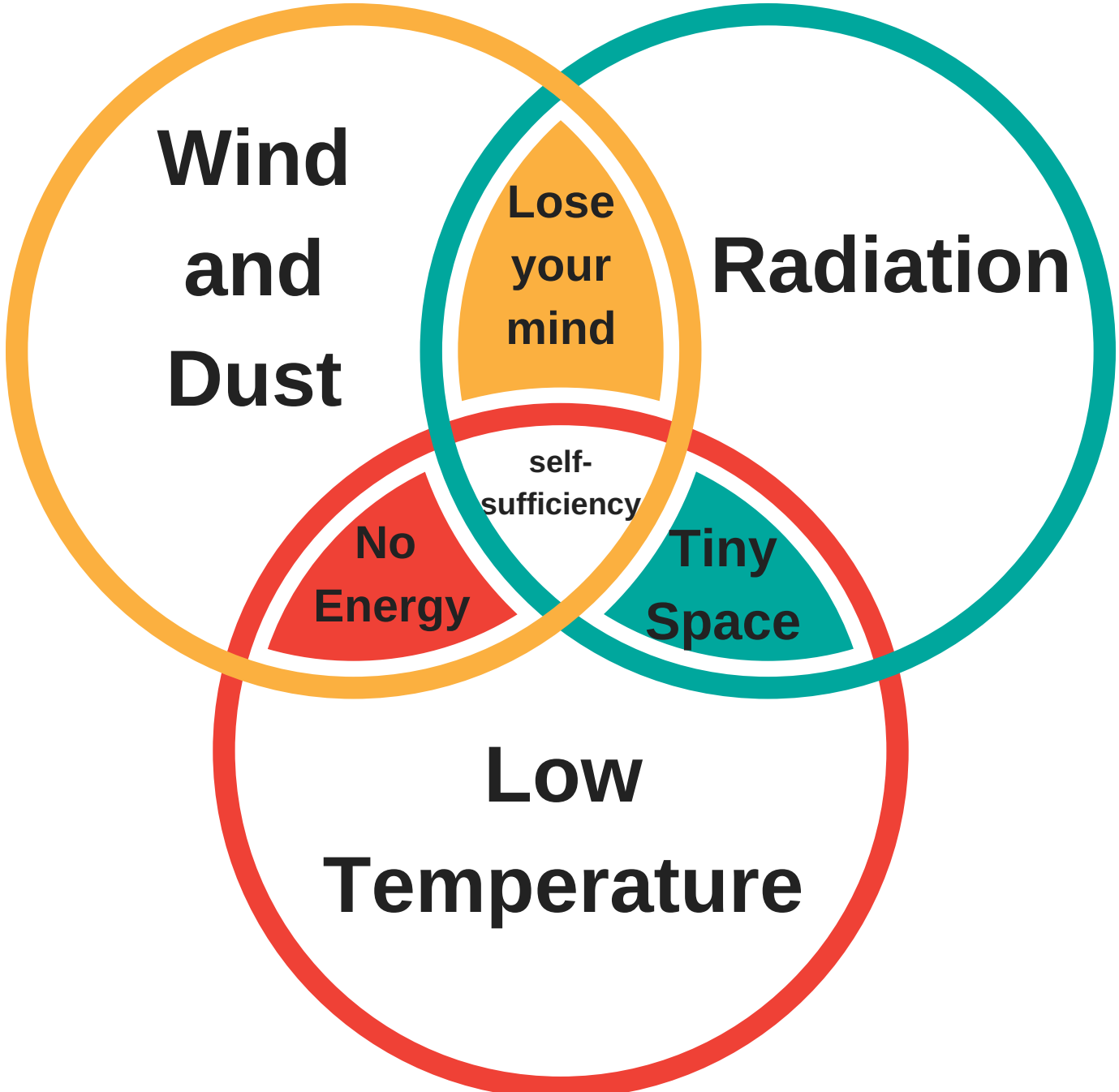
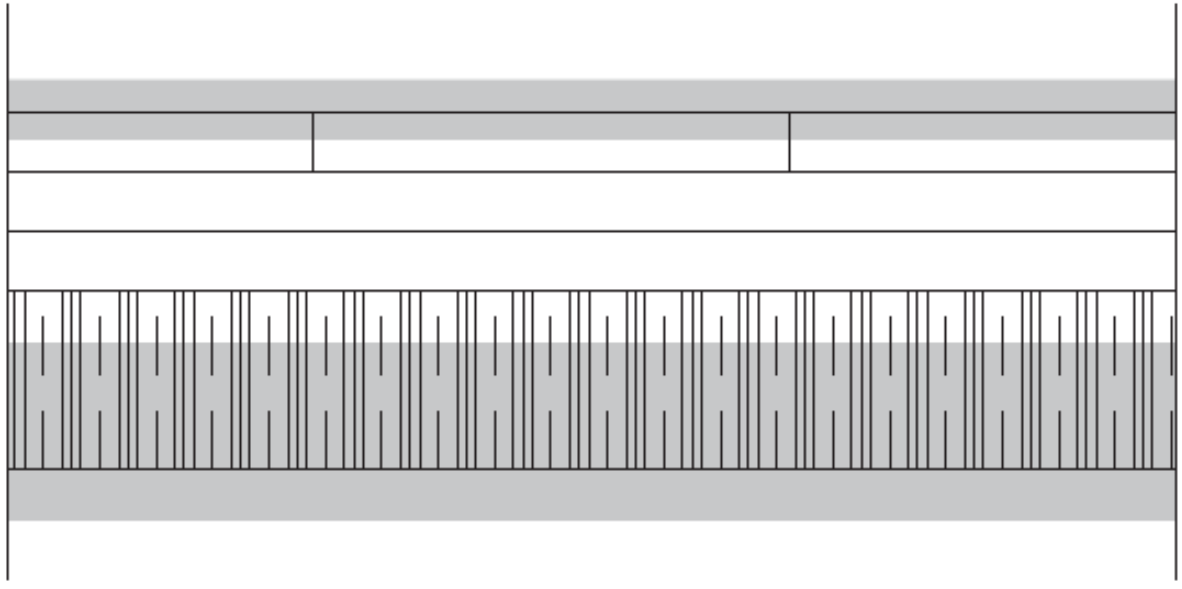


What can kill me?





FROM THE TOP

1. SHIELD WITH NANOTUBES DAMPERS	12cm
-TiO_2 + Polymers	
2. AEROGEL	10cm
3. AIRTIGHT FOIL	1cm
4. RADIATION STOPPER	10cm
-Boron Nitride nanotubes powder in 1000cm^3 plastic bags	
5. STRUCTURE+RADIATION STOPPER	10cm
6. STRUCTURE MESH	1cm
7. AIRTIGHT FOIL	1cm

Consider planet rotation before placing, and that star from given solar system may heat one side of the Habitat more then the other

Innovation and New Technologies

Mind Care

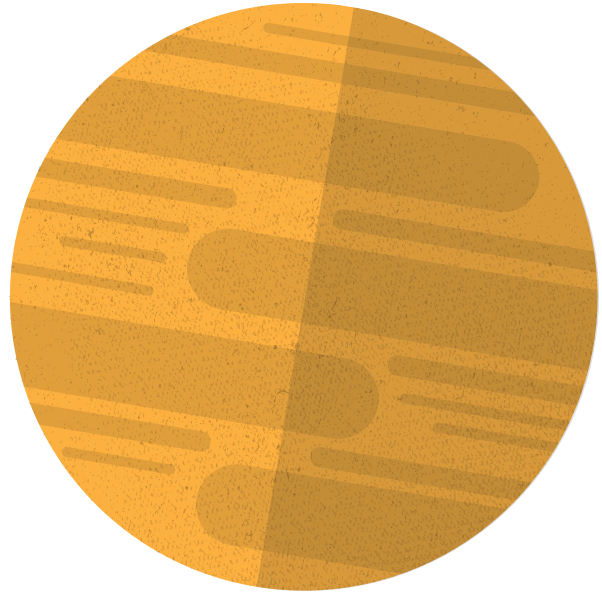
Aerogel layer

Graphene super-capacitors

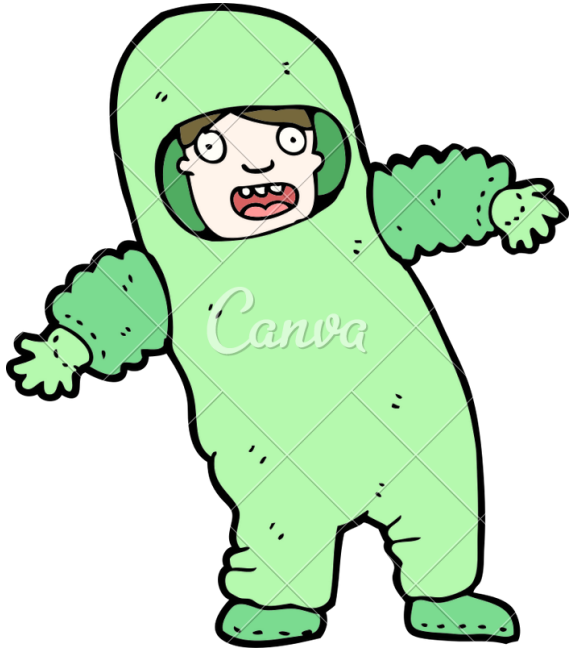
Titanium dioxide on perovskite

What's More?

Mars



SOON



Us

THANK YOU!

Good ♥ Luck

Have ♥ Fun

The Inhabitants