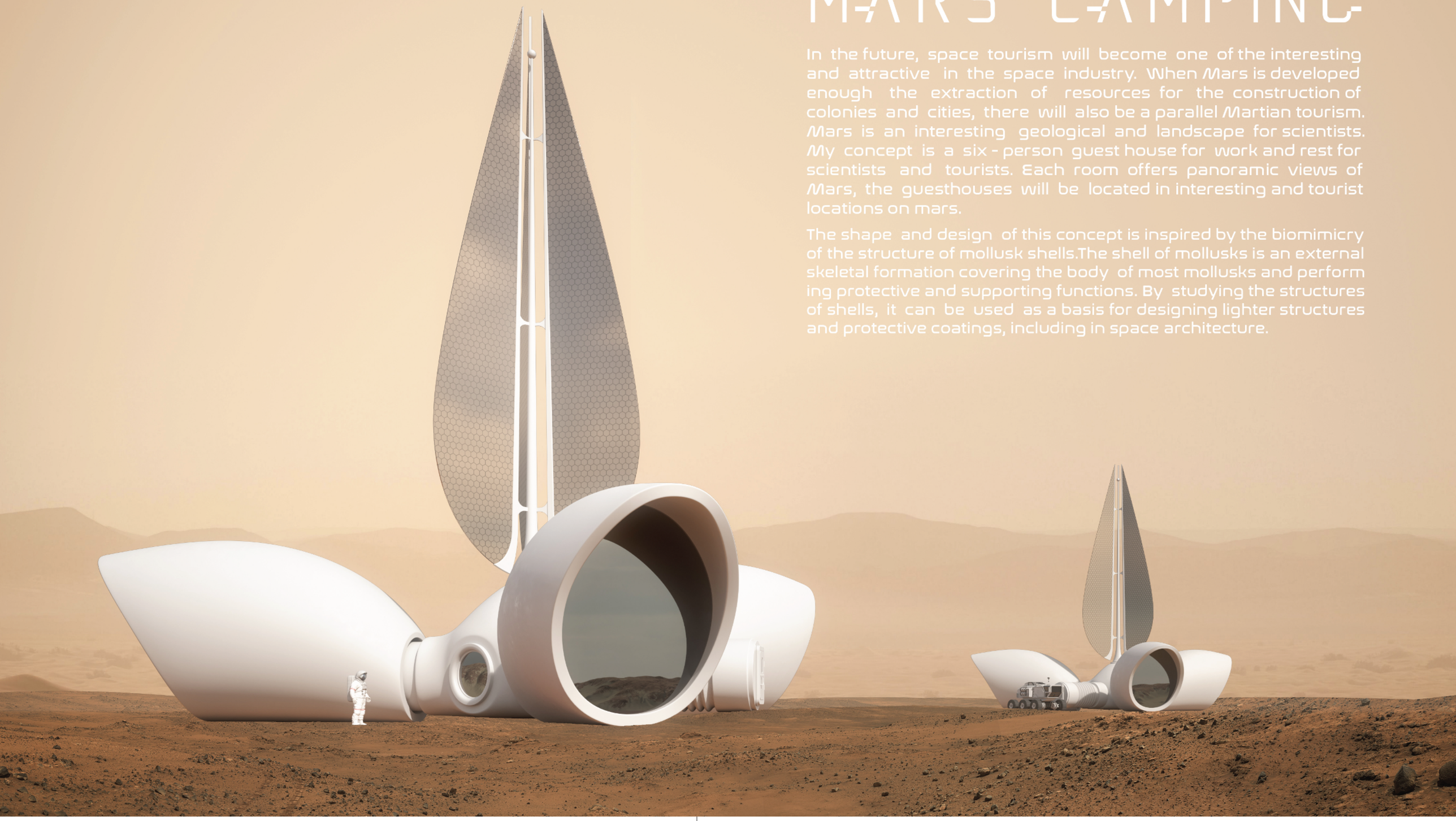
MARS CAMPING

In the future, space tourism will become one of the interesting and attractive in the space industry. When Mars is developed enough the extraction of resources for the construction of colonies and cities, there will also be a parallel Martian tourism. Mars is an interesting geological and landscape for scientists. My concept is a six - person guest house for work and rest for scientists and tourists. Each room offers panoramic views of Mars, the guesthouses will be located in interesting and tourist locations on mars.

The shape and design of this concept is inspired by the biomimicry of the structure of mollusk shells.The shell of mollusks is an external skeletal formation covering the body of most mollusks and perform ing protective and supporting functions. By studying the structures of shells, it can be used as a basis for designing lighter structures and protective coatings, including in space architecture.



2023 JACQUES ROUGERIE FOUNDATION AWARDS

Award's category : Space Focus award - Mars Village

Project's Name MARS CAMPING

Description The future belongs to space tourism

FONDATION JACQUES ROUGERIE GÉNÉRATION ESPACE MER ACADÉMIE DES BEAUX-ARTS

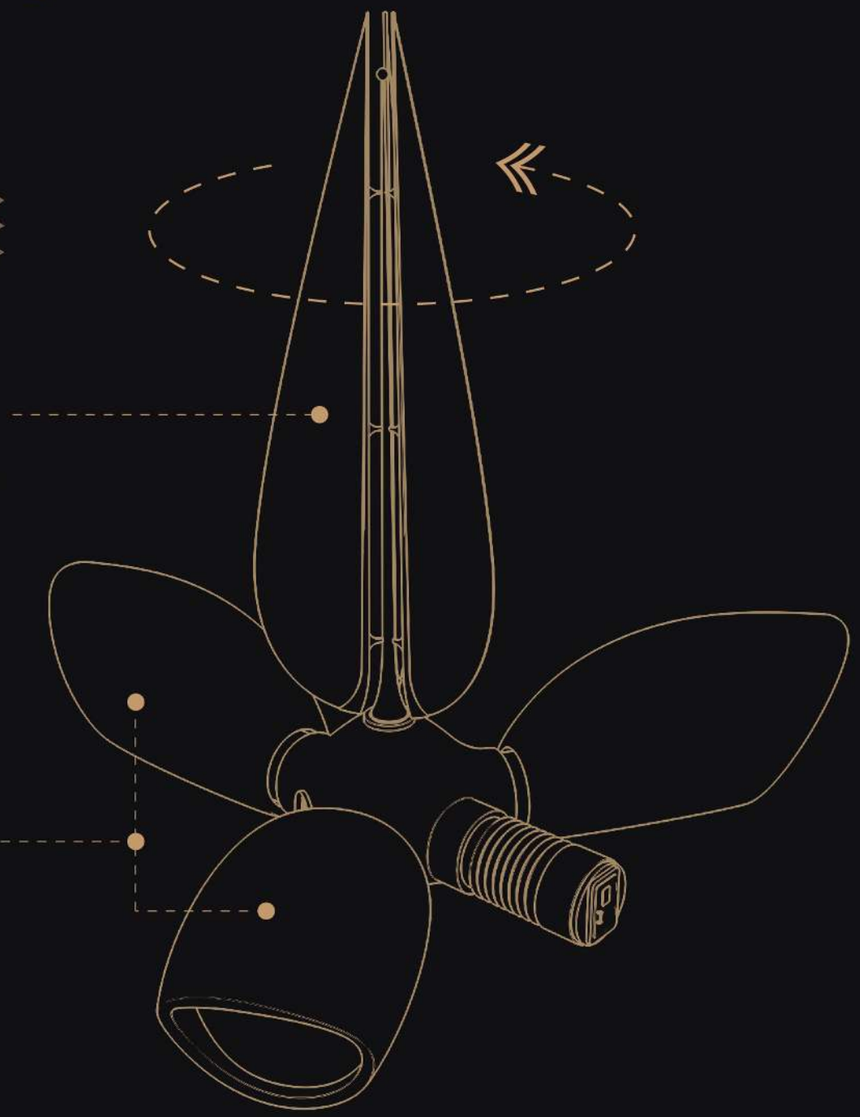
CONCEPT AND DESIGN

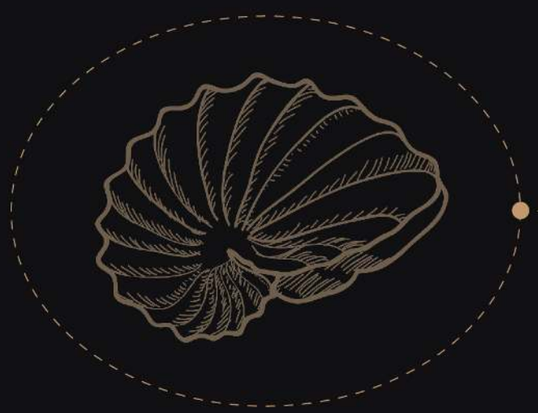
BIOMIMICRY OF INSPIRATION : DRAGONFY AND SEA SHELL

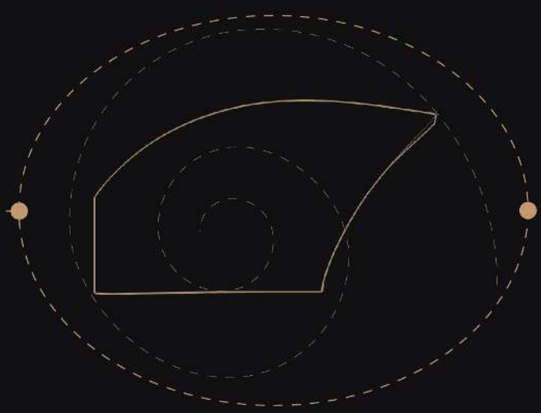
The shape and design of the protective shell of the Martian habitation module repeats the smooth, and and rounded shapes of the real mollusk shell. This gives a fairly sturdy construction, also an aerodynamic streamlined pleasing shape. The base of the shell structure will be printed from iron, there is a lot of iron oxide ore on the surface of mars. Then will be by spraying regolith of lightweight concrete volcanic rock pumice like foam fill between the mesh which gives strength to the structure.

The Dragonfly is a symbol of lightness, grace, and speed. His wings are very light, his prototype inspired the crea tion of ultralight solar panels on the surface of the module. Strong winds are raging on Mars, which allows you to use the energy of the wind and the sun at the same time.

Solar panels, with wind turbine function and hexagon structure.







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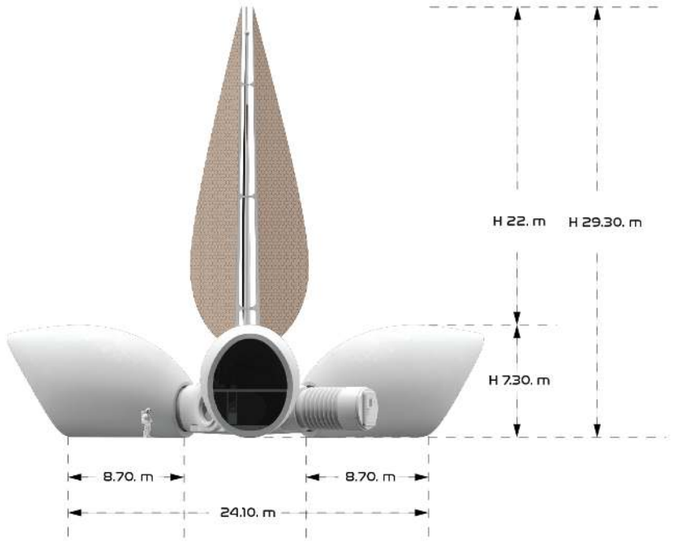
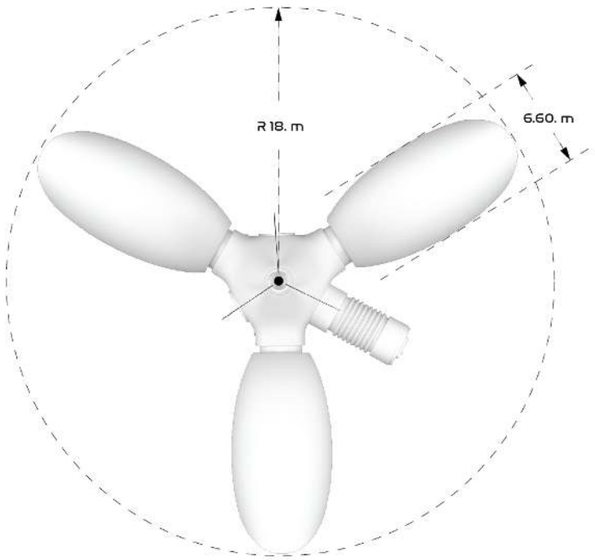
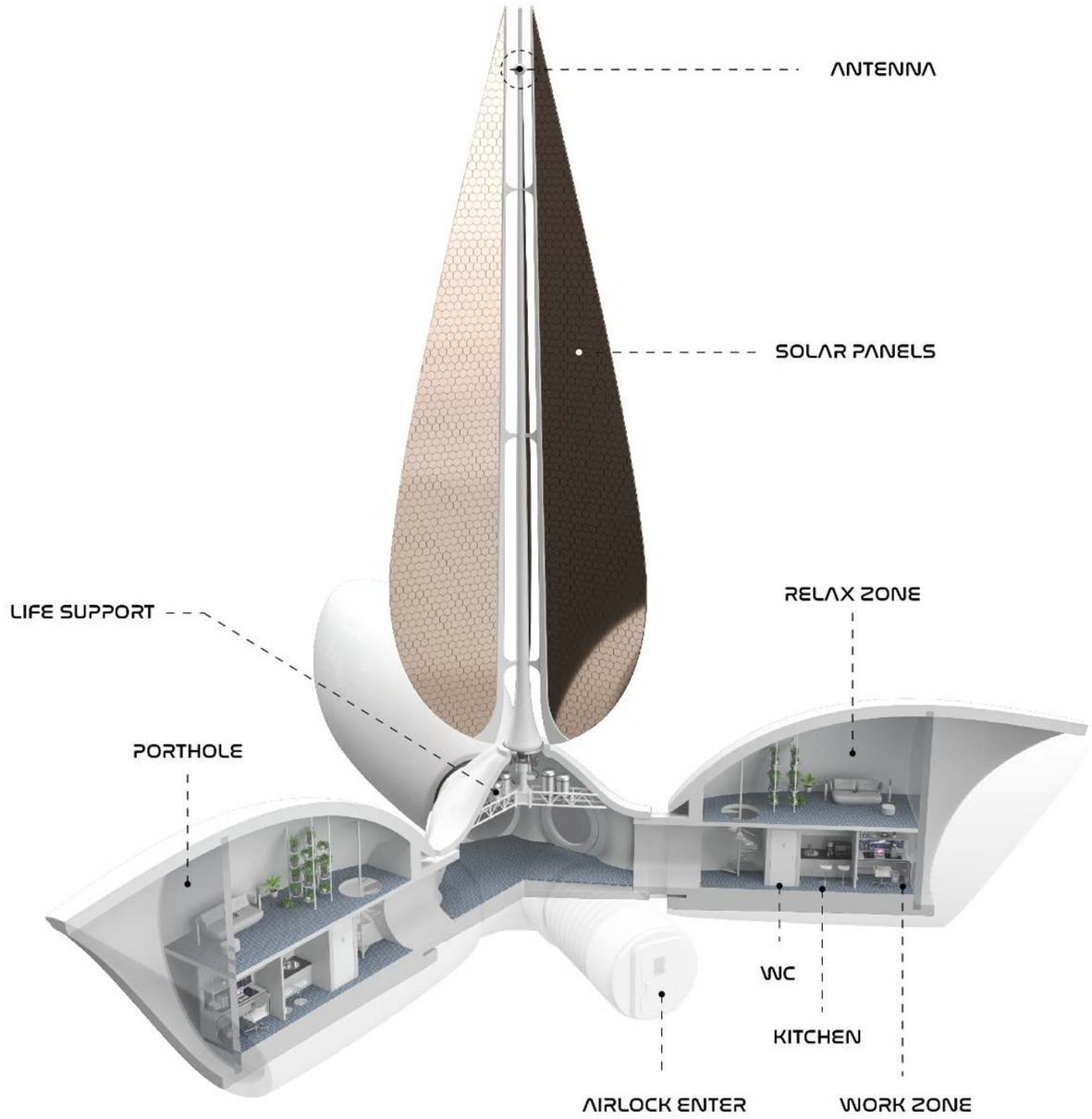
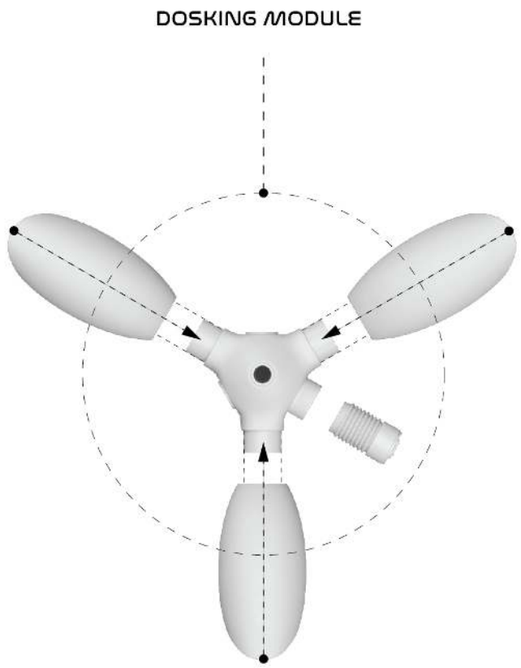
Proportions and dimensions

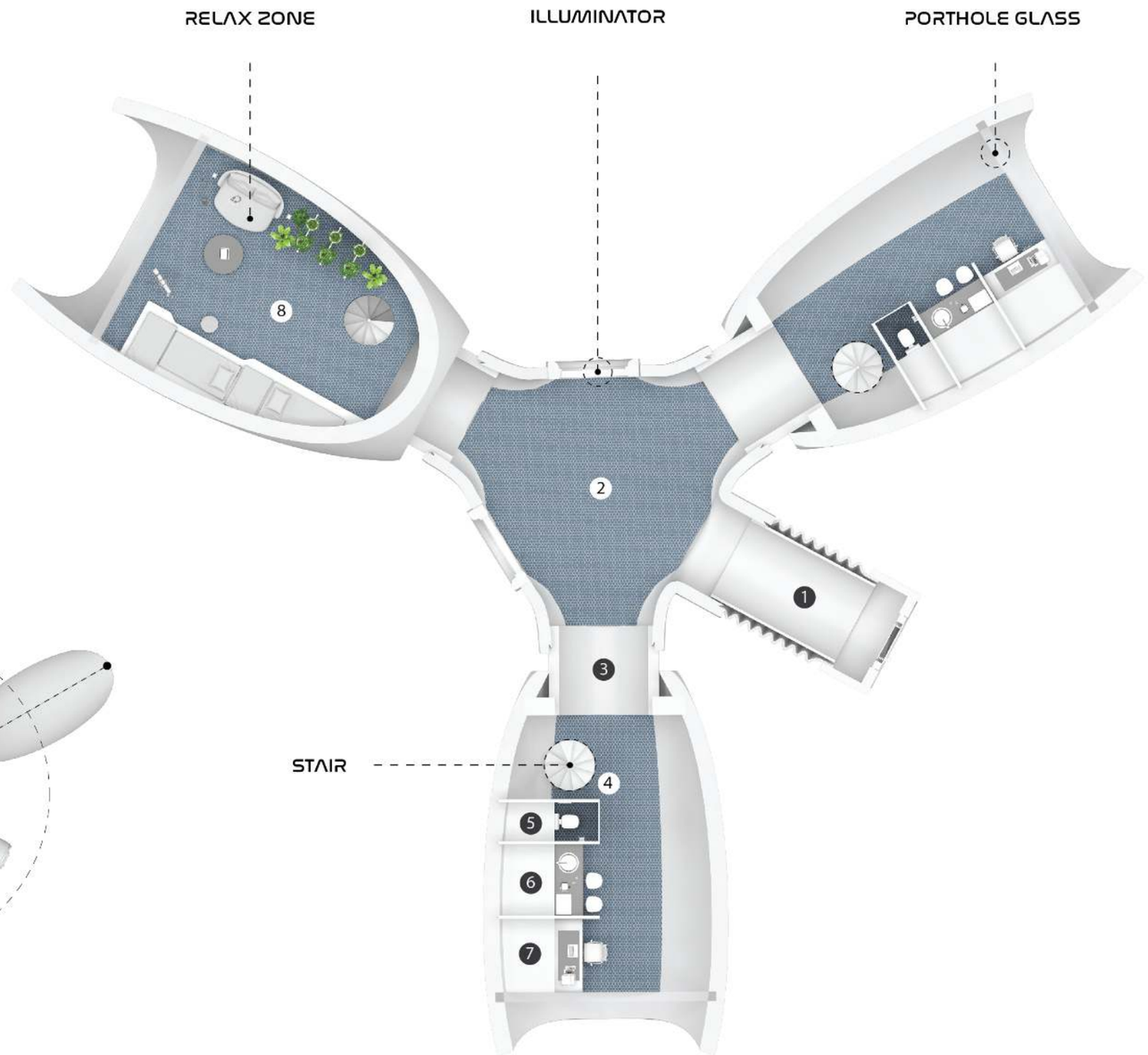






INTERIOR

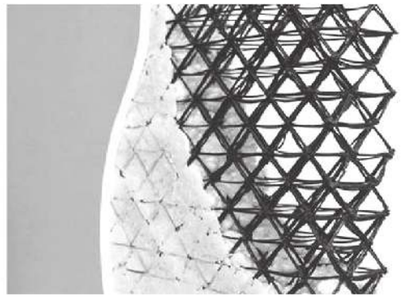




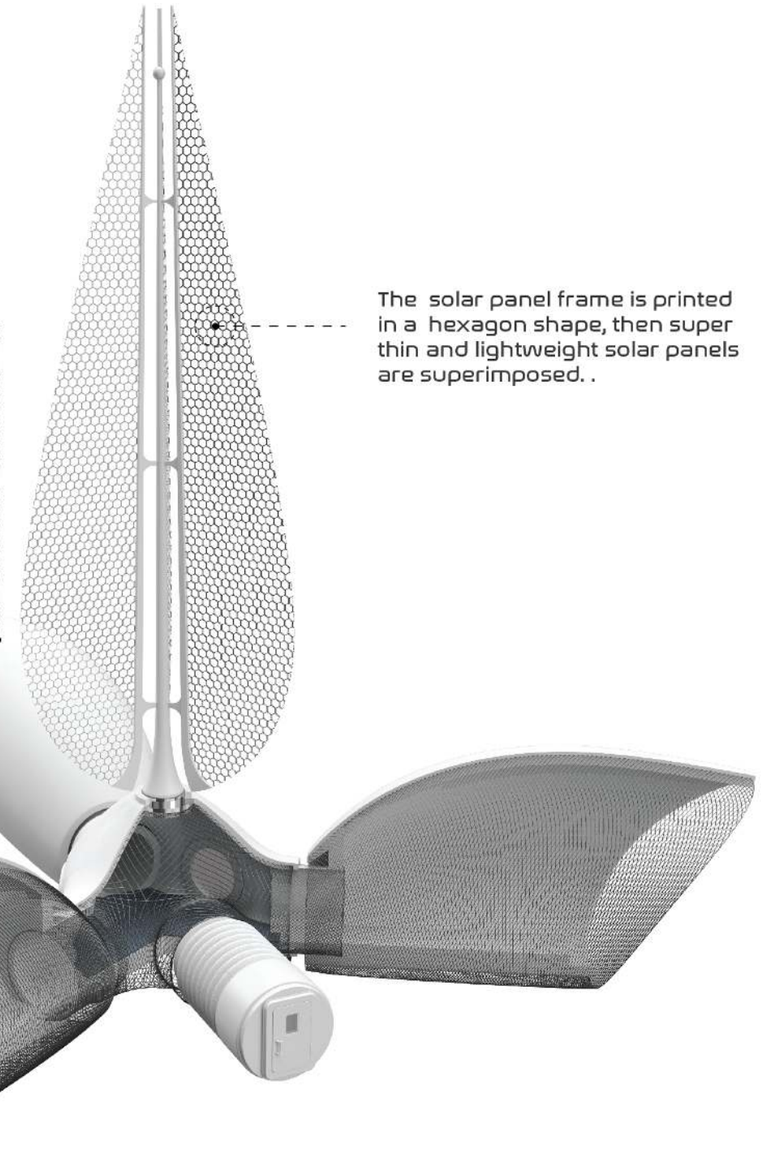
1 AIRLOCK ENTER
2 HALLWAY
3 DOSKING GATEWAY
4 FIRST FLOOR
5 TOILET
6 KITCHEN
7 WORK ZONE
8 SECOND FLOOR

CONSTRUCTION METHOD

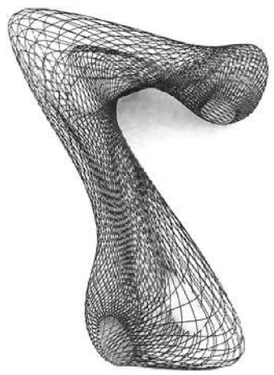
The base of the frame structure will be printed from iron, on the surface of mars there is a lot of iron oxide ore. Then will be by spraying regolith of lightweight concrete volcanic rock pumice like foam fill between the mesh, which gives strength to the structure.

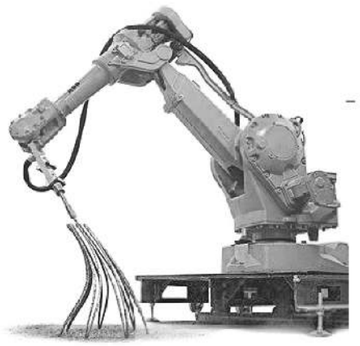


Filling the framework with calcium carbonate, or lightweightconcretemade from volcanic pumice rock.

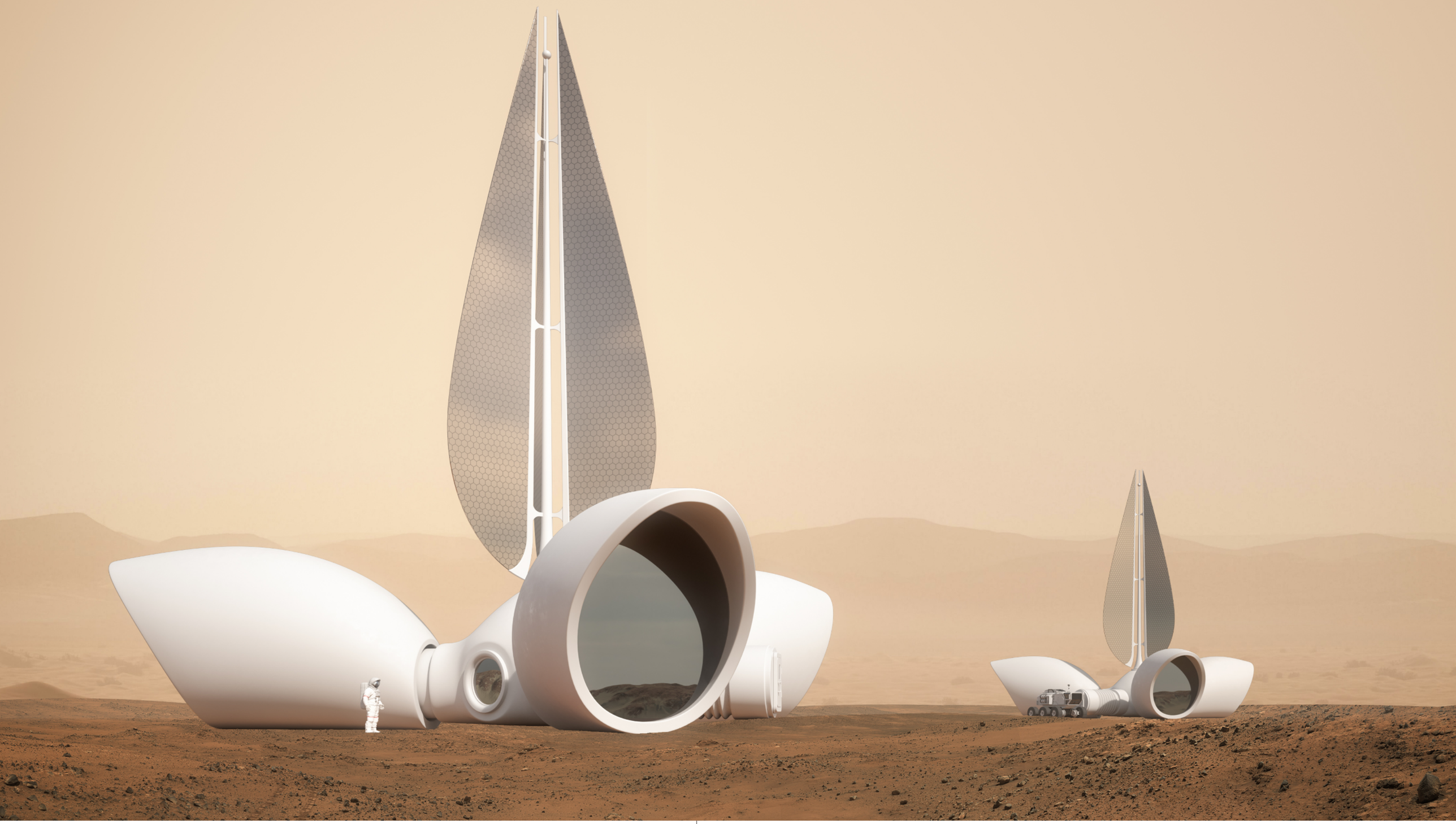


The solar panel frame is printed in a hexagon shape, then super thin and lightweight solar panels are superimposed. .





3D PRINTING THE FRAME



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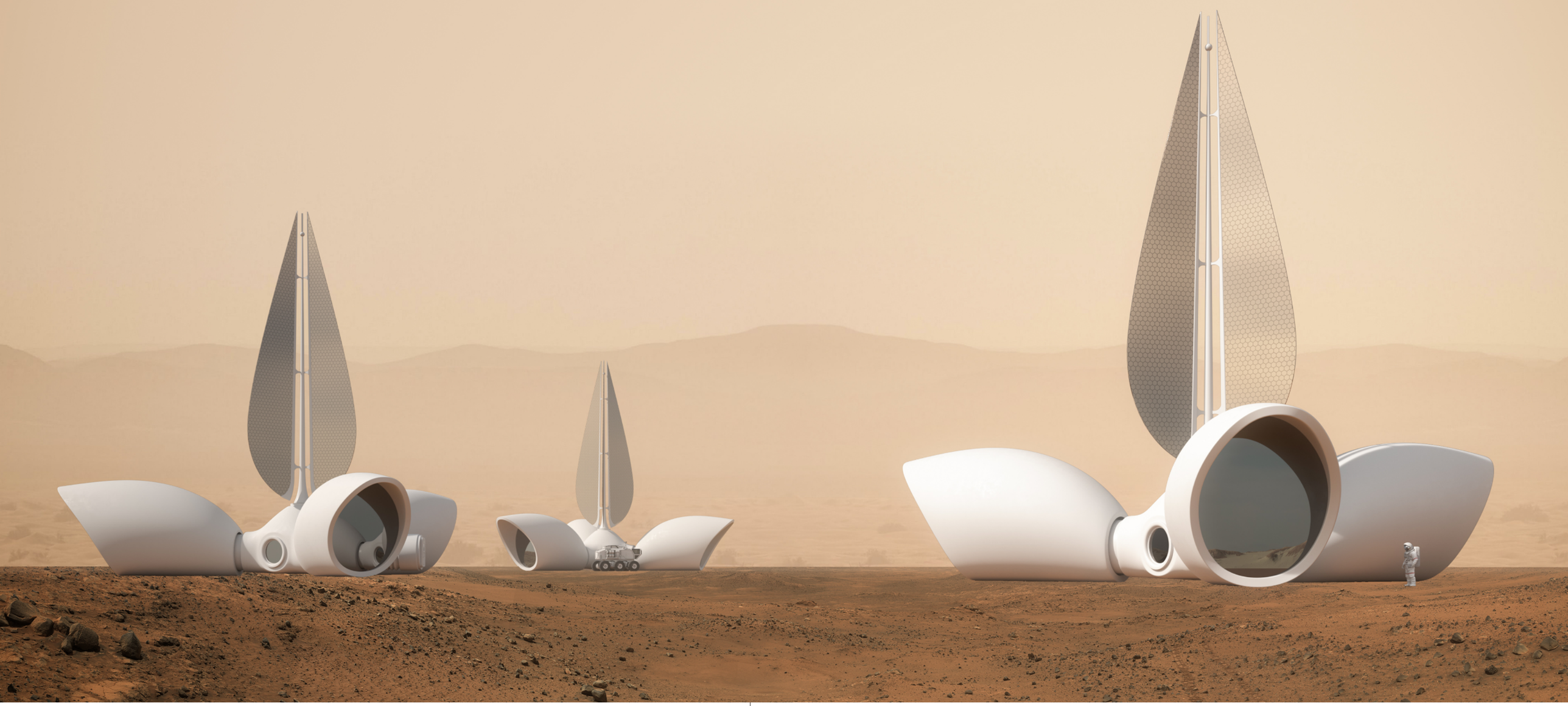

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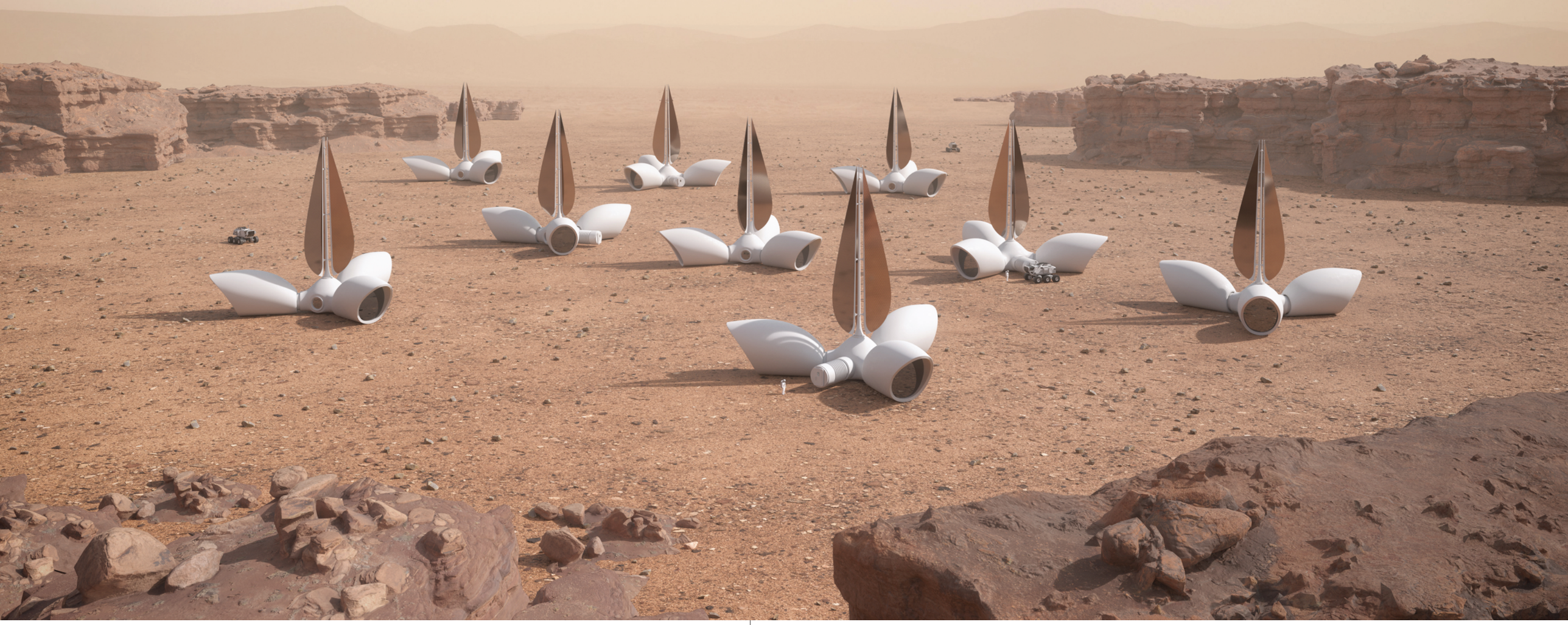
EPILOGUE

With great hopes, humanity will enter a new era of colonization of Mars,
and space tourism will become a reality in the future.



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