

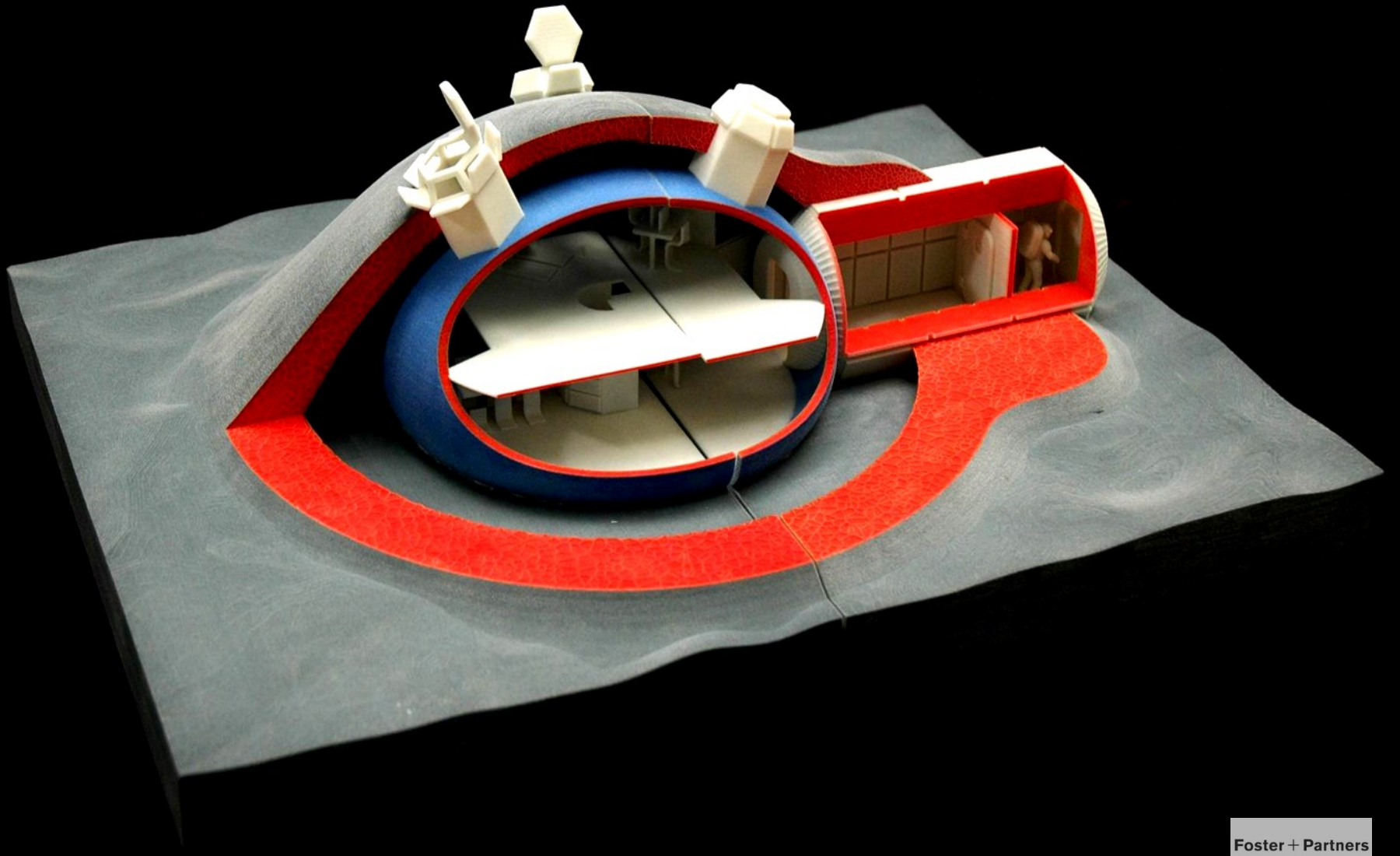


# ELEMENTI DI ARREDO LUNARE

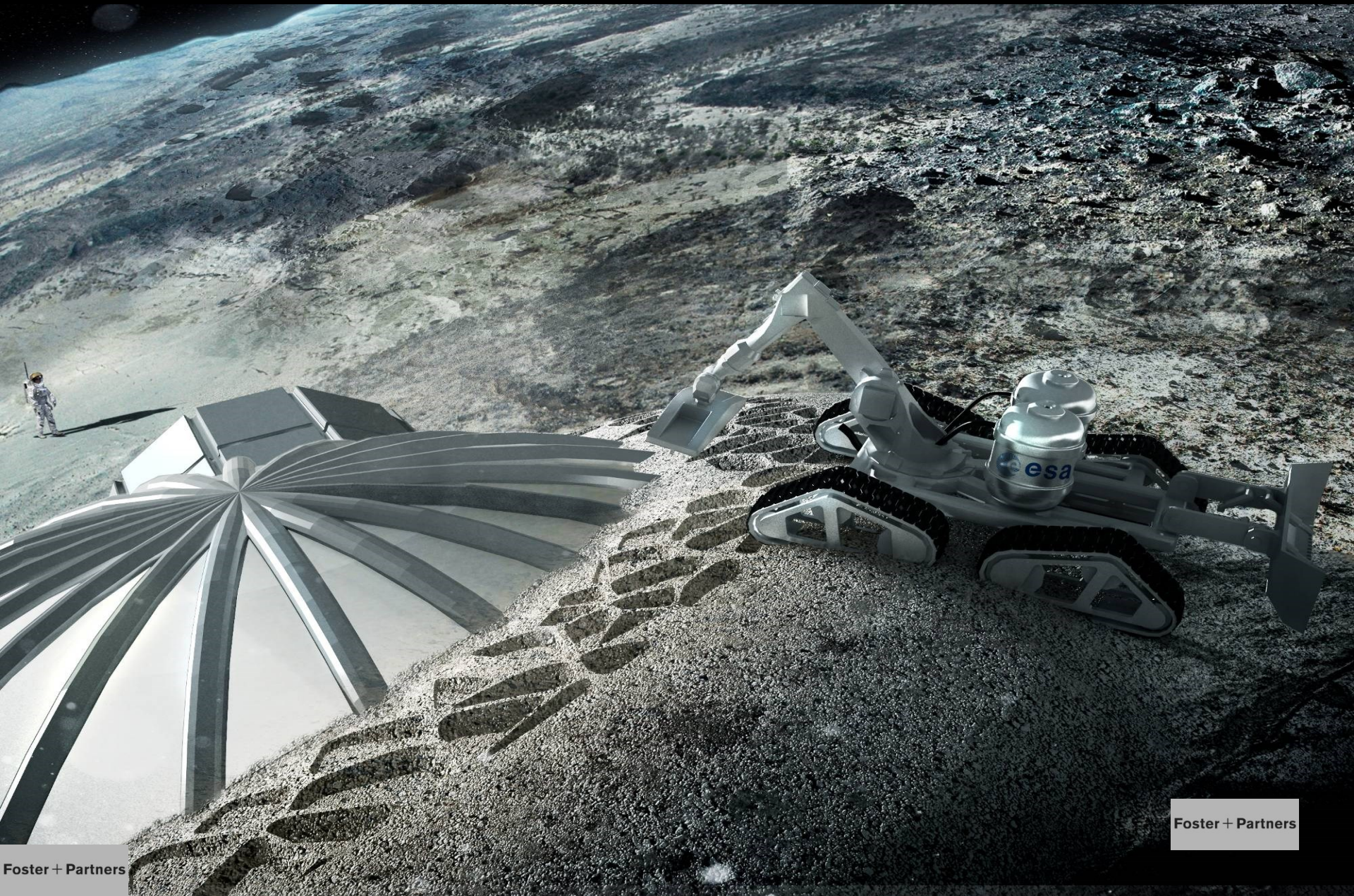
*SRITAC 2 2018@INAF, Bologna 18 Maggio 2018*

*Relatore: ing.Enrico Dini – D-Shape*

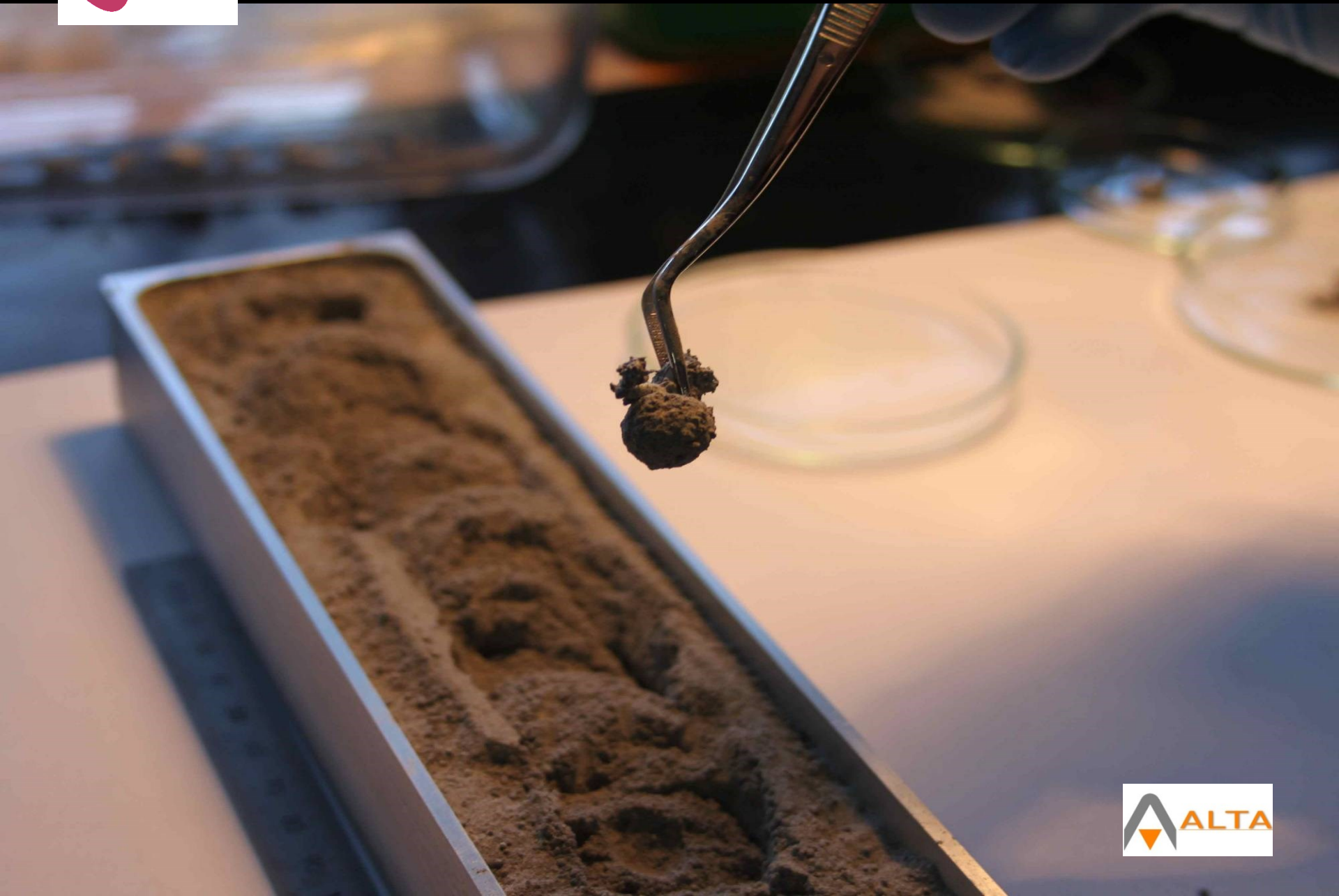


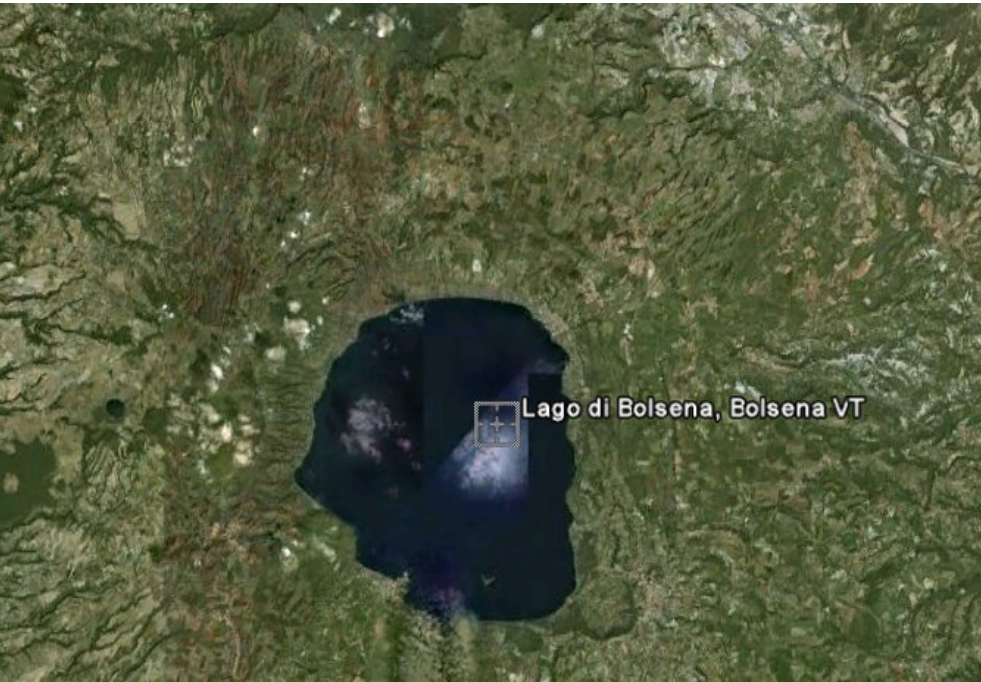










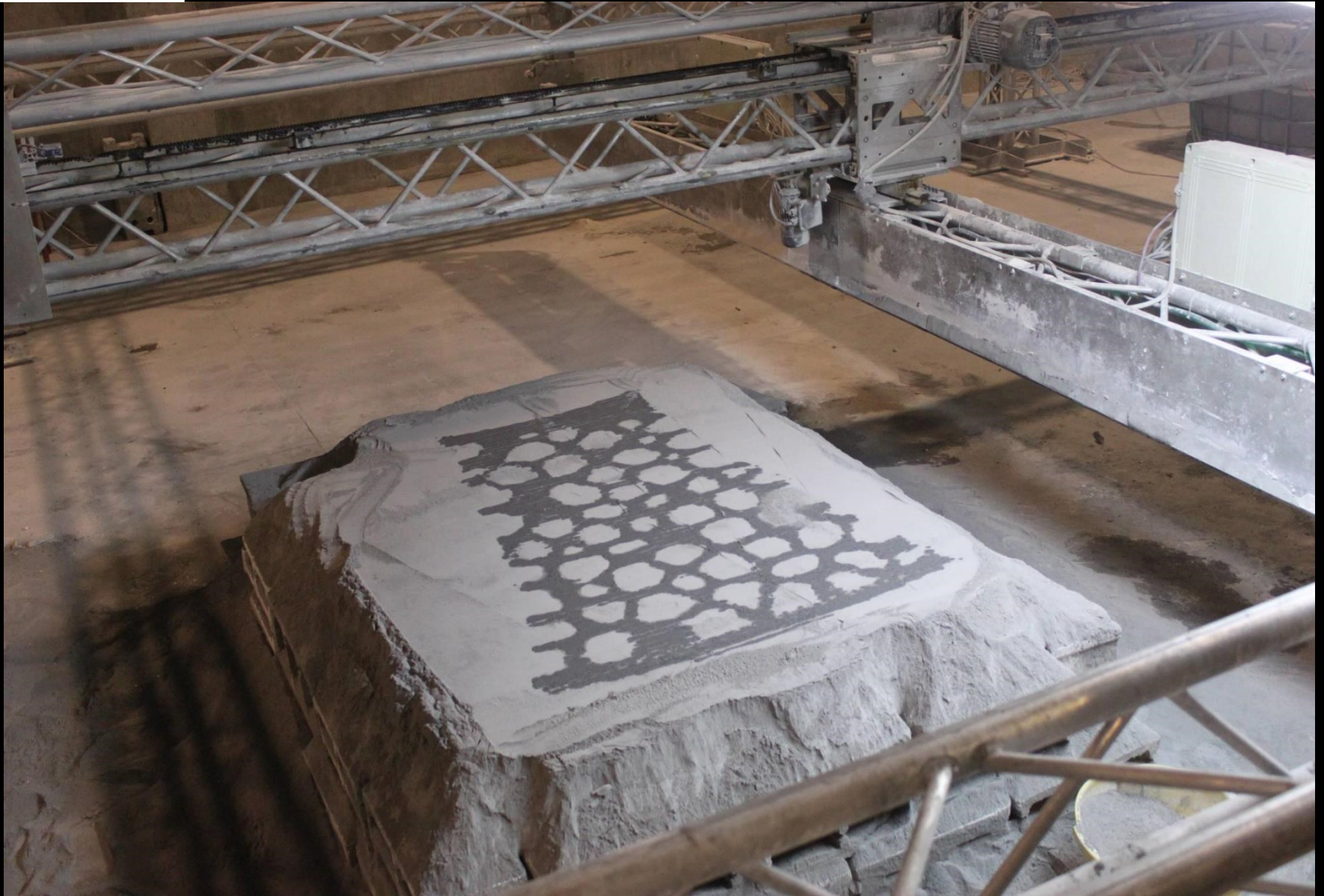


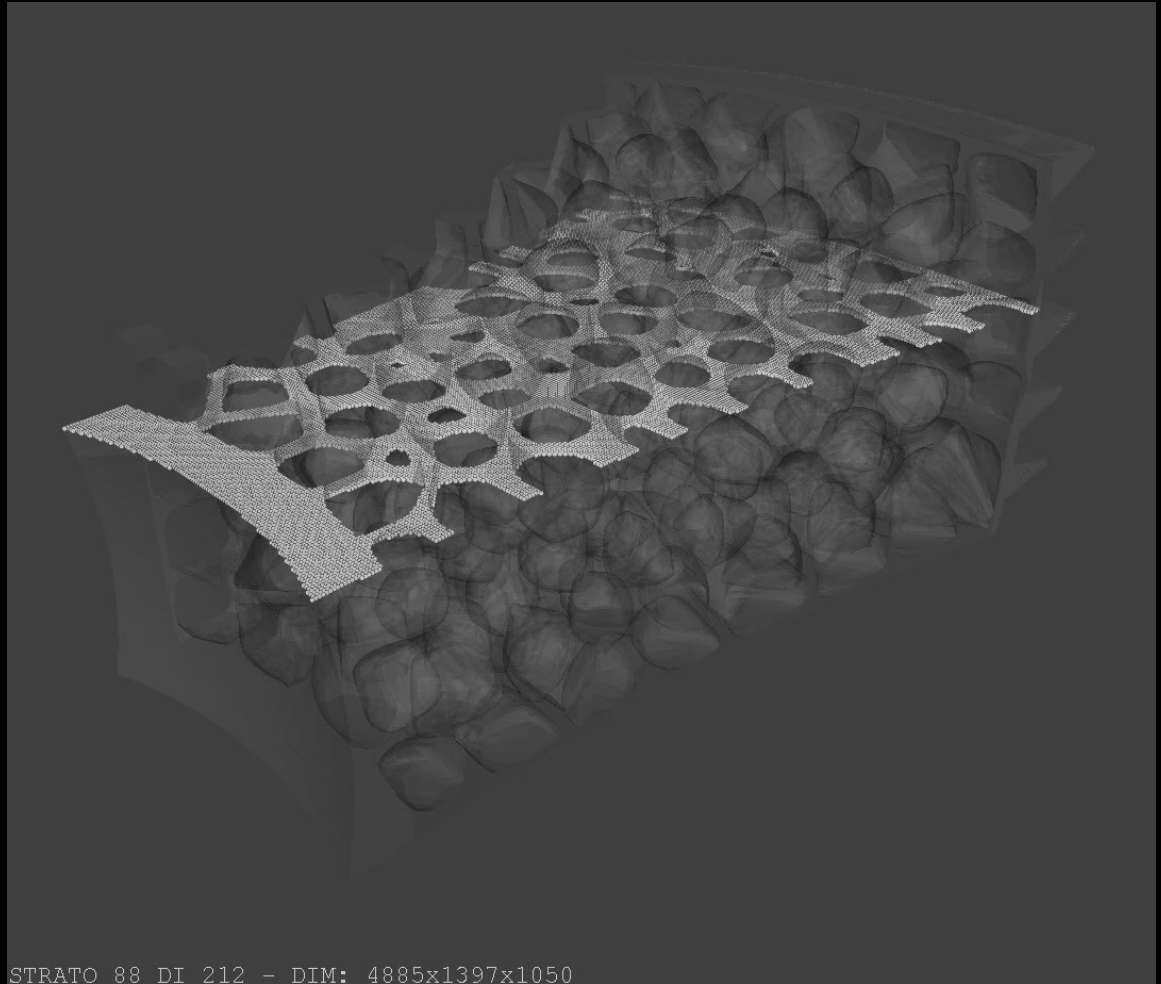
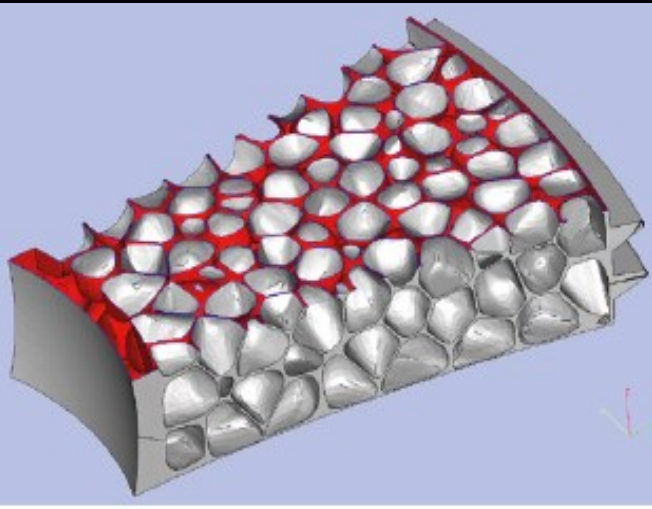
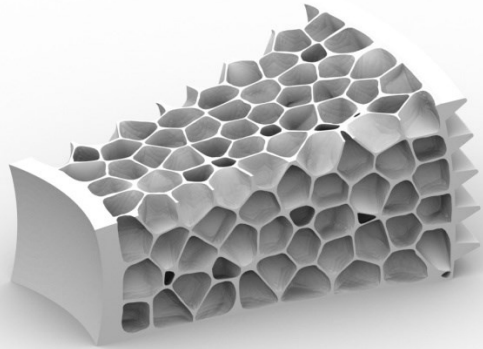
Oxide	DNA-1	JSC-1A	Lunar Soil 14163
	% Weight	% Weight	% Weight
SiO <sub>2</sub>	41,9	41	47,3
TiO <sub>2</sub>	1,31	1,6	1,6
Al <sub>2</sub> O <sub>3</sub>	16,02	15,9	17,8
Fe <sub>2</sub> O <sub>3</sub>	14,6	18,1	0,0
FeO	0,00	0,00	10,5
MgO	6,34	4,73	9,6
CaO	12,9	13,2	11,4
Na <sub>2</sub> O	2,66	2,5	0,7
K <sub>2</sub> O	2,53	1,05	0,6
MnO	0,213	0,24	0,1
Cr <sub>2</sub> O <sub>3</sub>	0,00	0,03	0,2
P <sub>2</sub> O <sub>5</sub>	0,341	0,63	0,00
LOI	0	0,00	0,00
<b>Total</b>	<b>98,9</b>	<b>99,0</b>	<b>99,8</b>



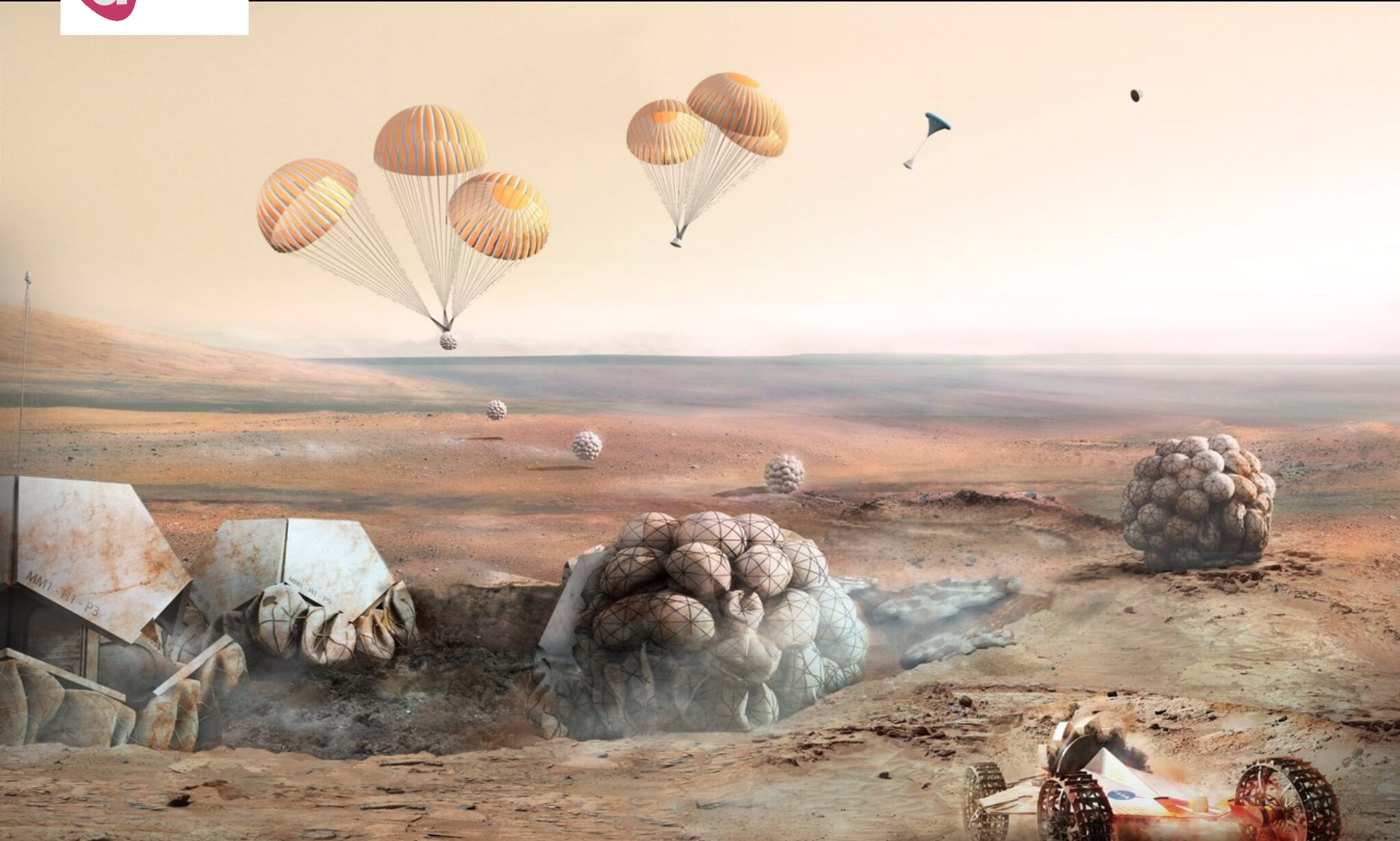








STRATO 88 DI 212 - DIM: 4885x1397x1050





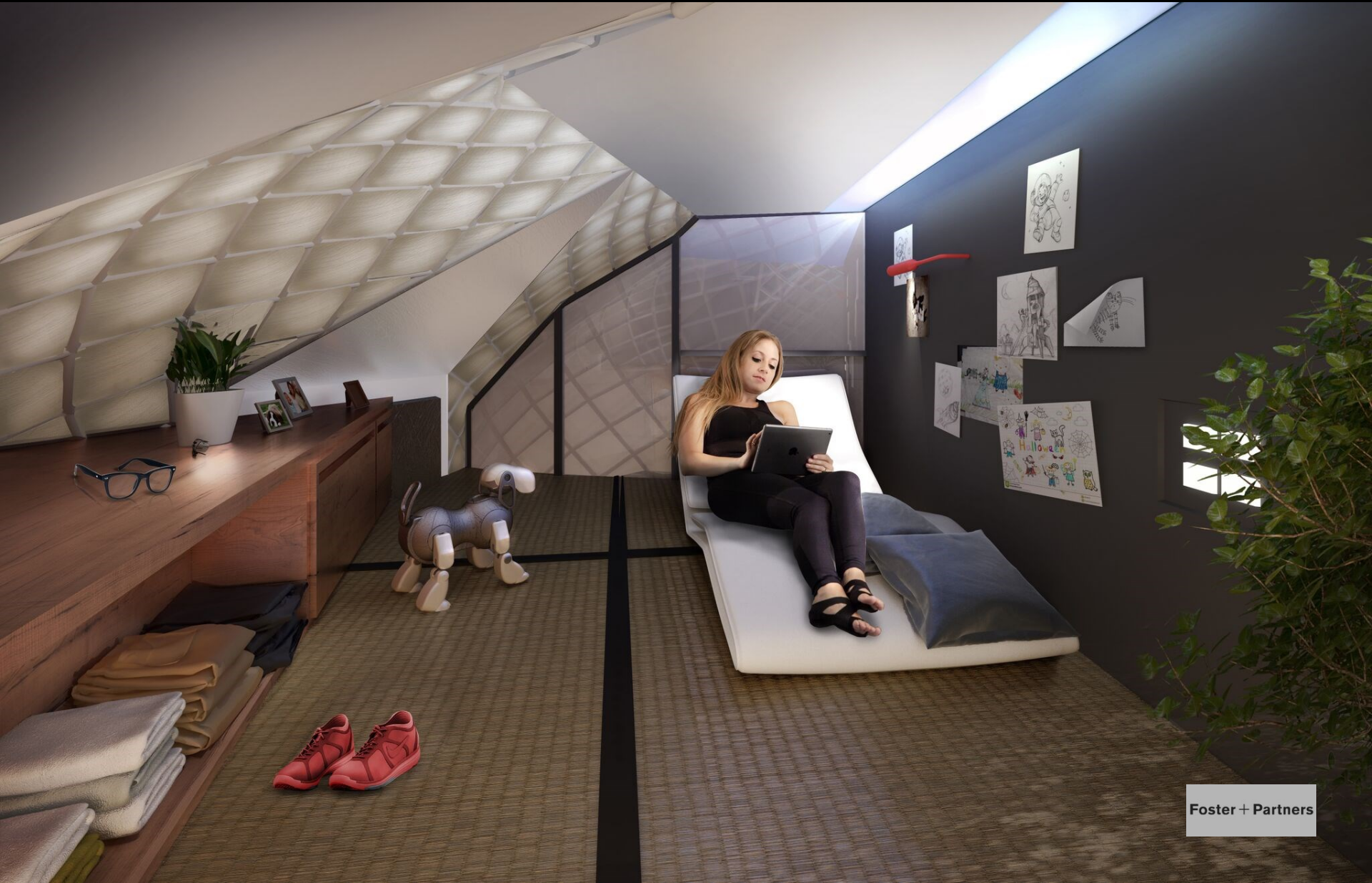






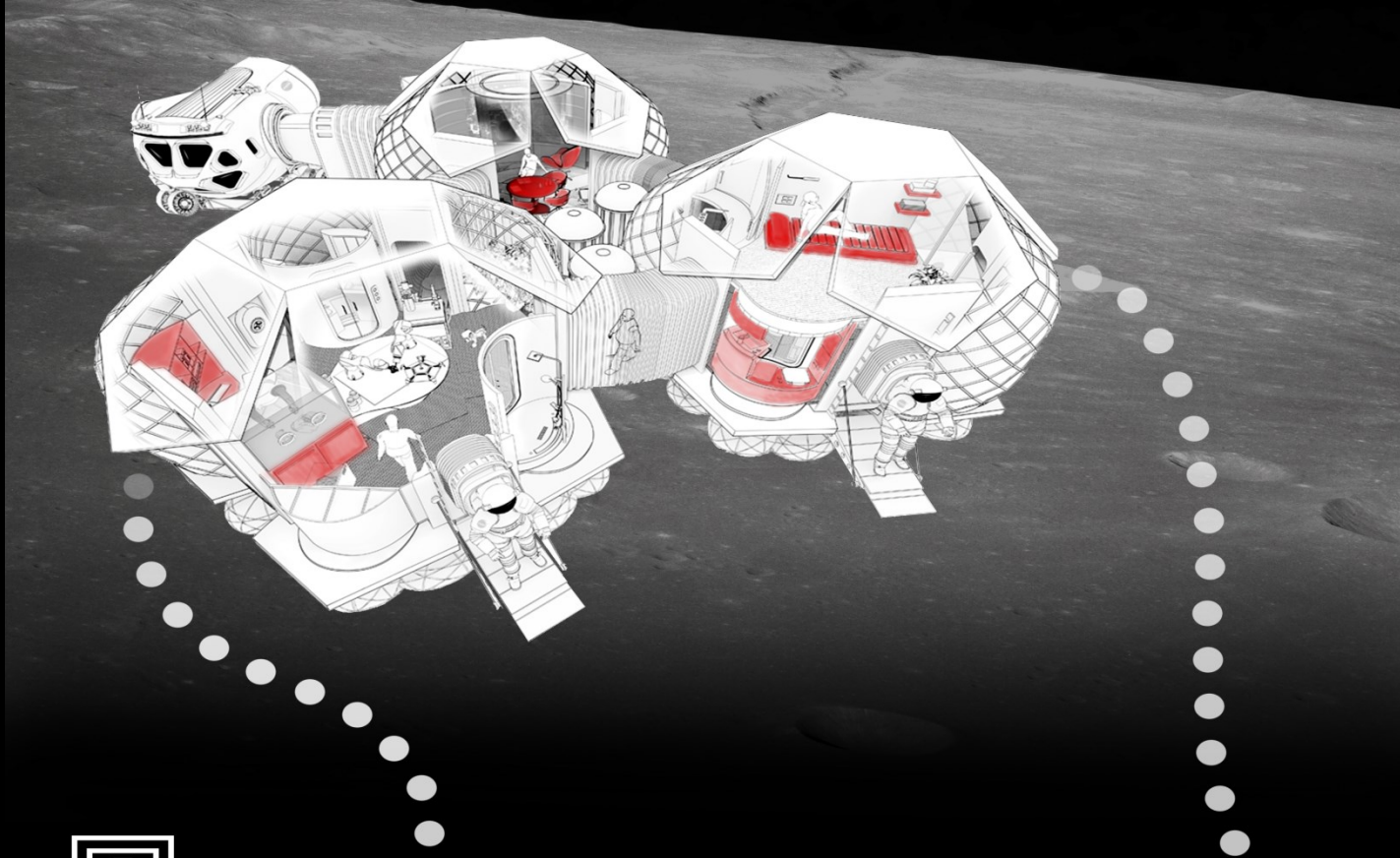






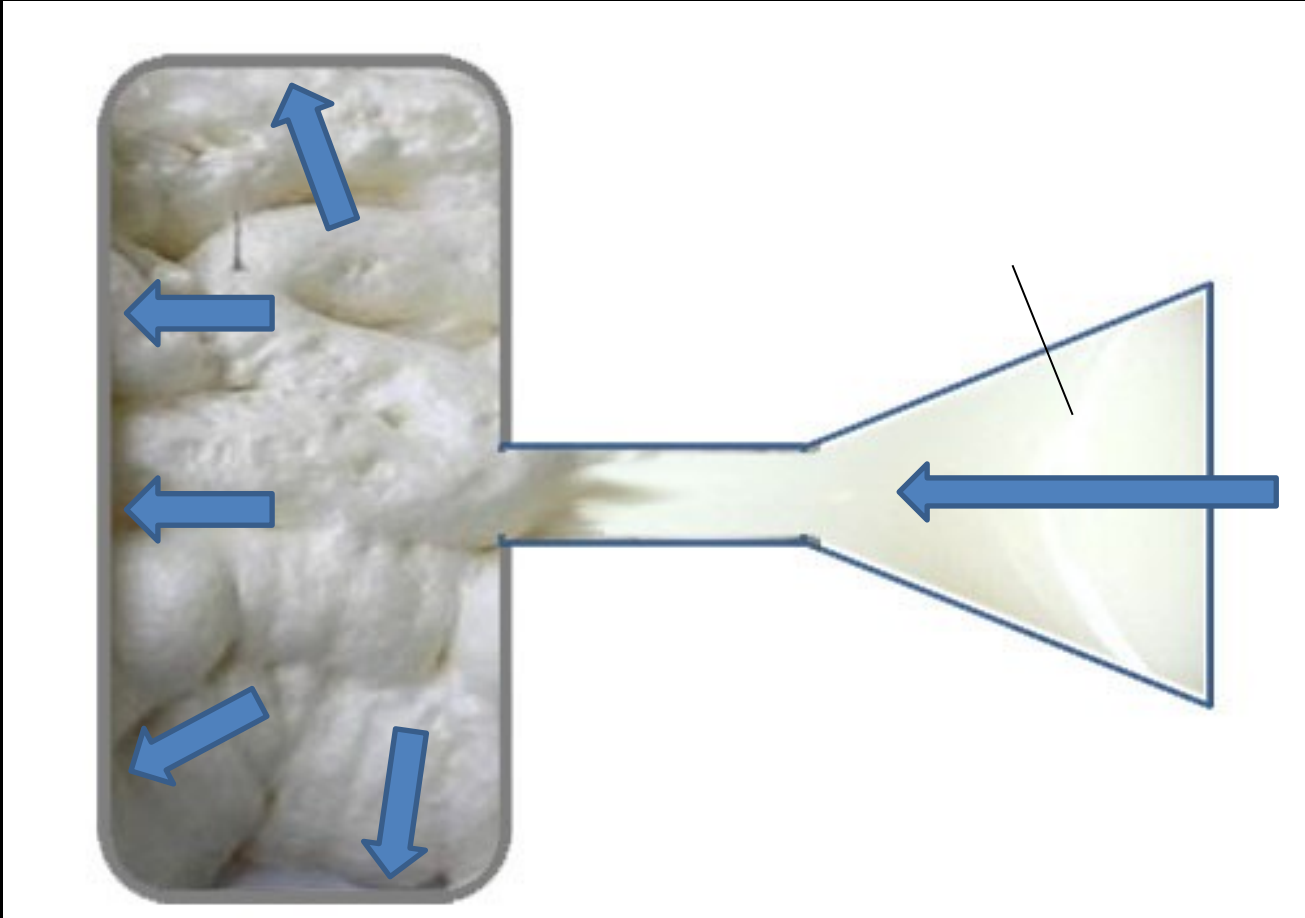








Adriano Autino –Dini engineering











## 1 MC DI SPAZIO NECESSARIO PER IL TRASPORTO

①



150 L liquido A  
+  
150 L liquido B

③



Membrane  
gonfiabili



②



Turbo  
mescolatore

④



Stampo 3D  
modulare per  
creare  
qualsiasi  
arredo

Il rover raccoglie la regolite dal suolo lunare

L'astronauta fa partire il processo di insufflaggio

La regolite e i due liquidi A+B vengono miscelati nel turbo mescolatore

La miscela di stampa viene iniettata nella membrana appositamente gonfiandosi e riempiendo lo stampo modulare





8 ASTRONAUTI

- ④ x pensile
- ② x tavolo
- ⑧ x sedia
- ③ x divano
- ⑧ x comodino
- ⑧ x letto



- 300 litri:
  - 150 litri A
  - 150 litri B
- 700 litri:
  - turbo mescolatore
  - stampo
  - membrane gonfiabili

= 1 mc di  
materiale



30 mc  
di arredo  
stampati



Ing. Enrico Dini

mob. : + 39 348 6004369

e-mail: [enrico.dini@d-shape.com](mailto:enrico.dini@d-shape.com)

Skype: [enrico.dini](https://www.skype.com/en/contacts/enrico.dini)

Diniengineering s.r.l. , Via Spagna,23 - Cascine di Buti (Pisa) (IT)