

MOON 2020-2030

A new era of human and robotic exploration

3D PRINTING TECHNOLOGIES TOWARD ESTABLISHING HUMAN SETTLEMENT ON THE MOON: THE VIEWPOINT OF ESA MATERIALS SCIENTISTS

Dr Laurent Pambaguian ⁽¹⁾

TEC-QTM

With Dr Advenit Makaya ⁽¹⁾, Dr Ugo Lafond ⁽¹⁾, Dr Aidan Cowley ⁽²⁾, Dr Matthias Maurer ⁽²⁾,

⁽¹⁾ ESTEC, ⁽²⁾ EAC

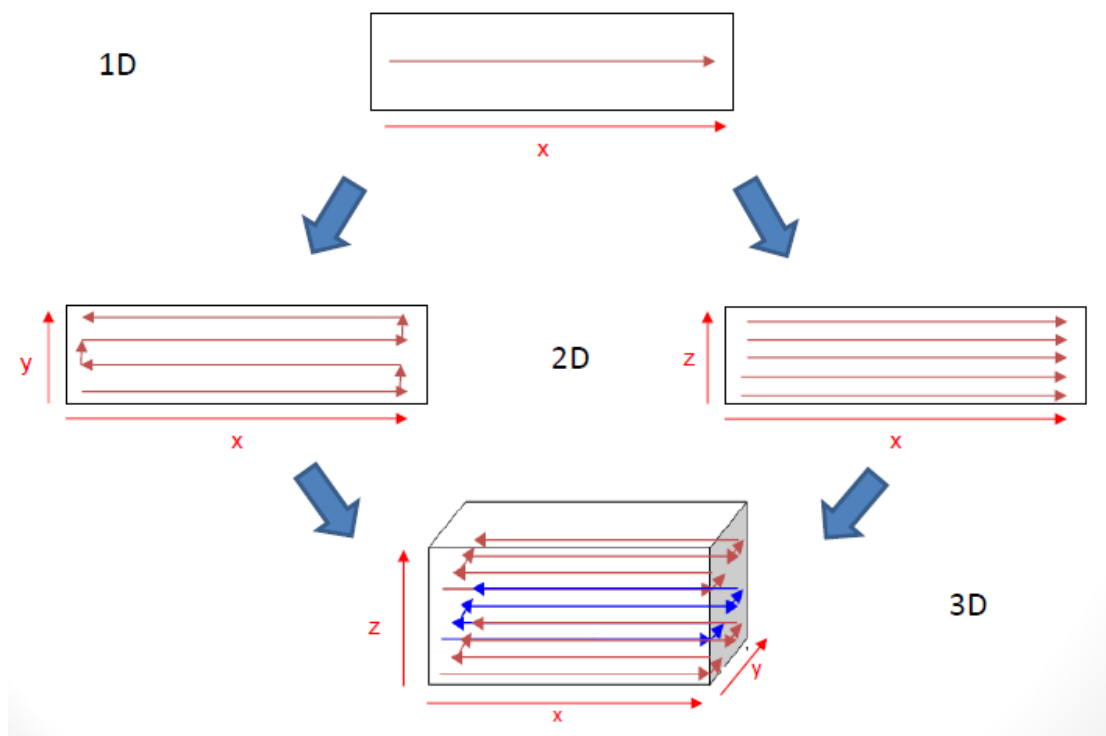
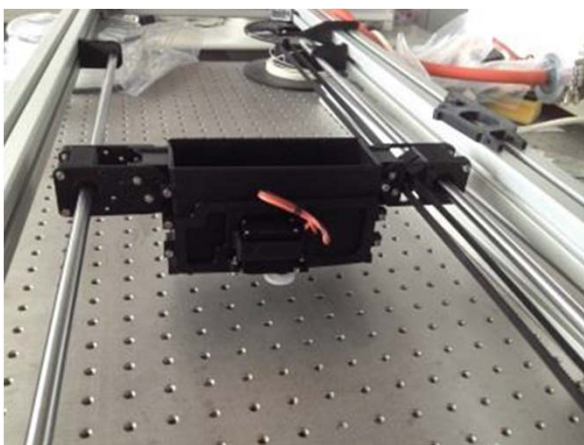
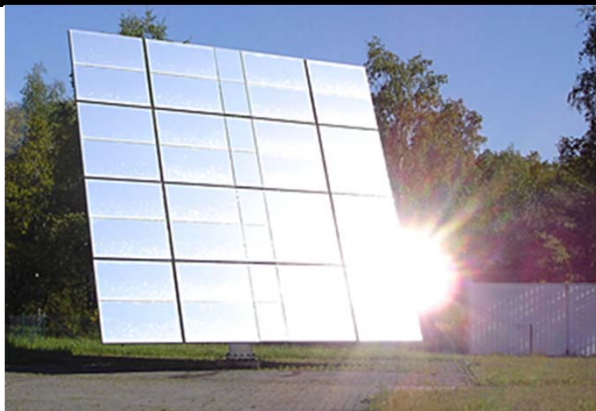
ESA/ESTEC Noordwijk

14 December 2015

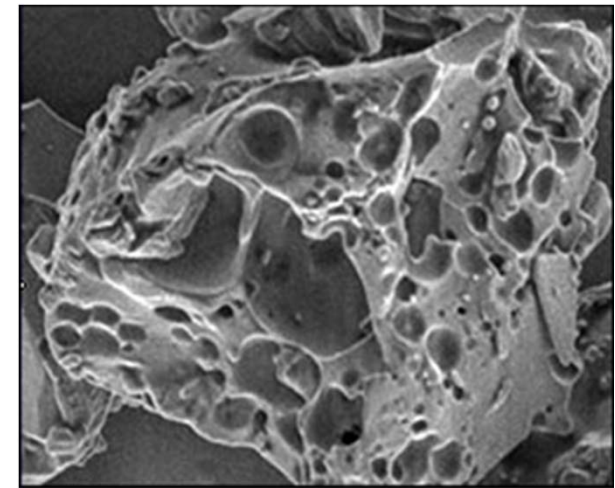
WHERE WE STAND TODAY.



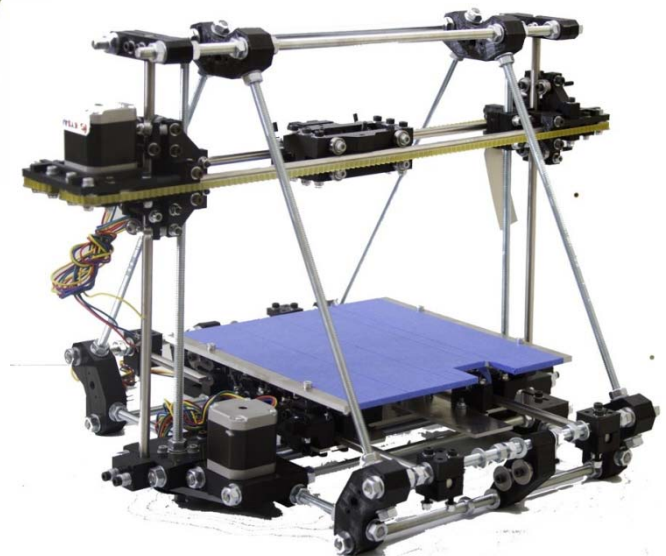
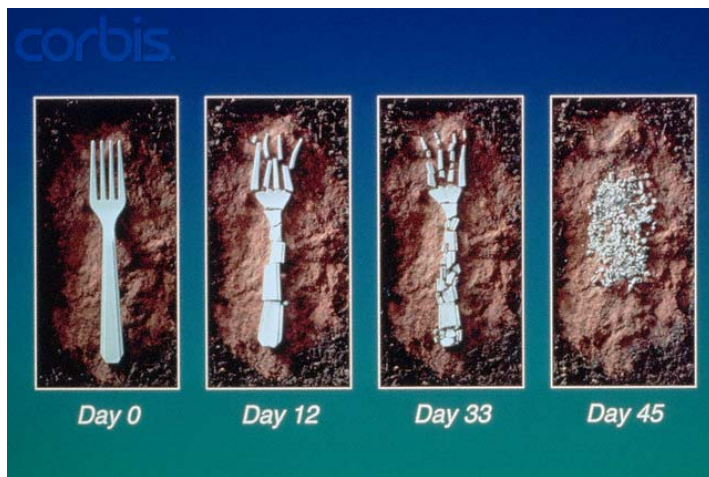
ALTERNATIVE CONSOLIDATION PROCESS: DLR (DE)



SYSTEM ASPECTS 1ST MISSION: FOTEC (A)



CONCEIVING A LUNAR BASE USING 3D PRINTING TECHNOLOGIES: Q2/2016





THANK YOU

European Space Agency