

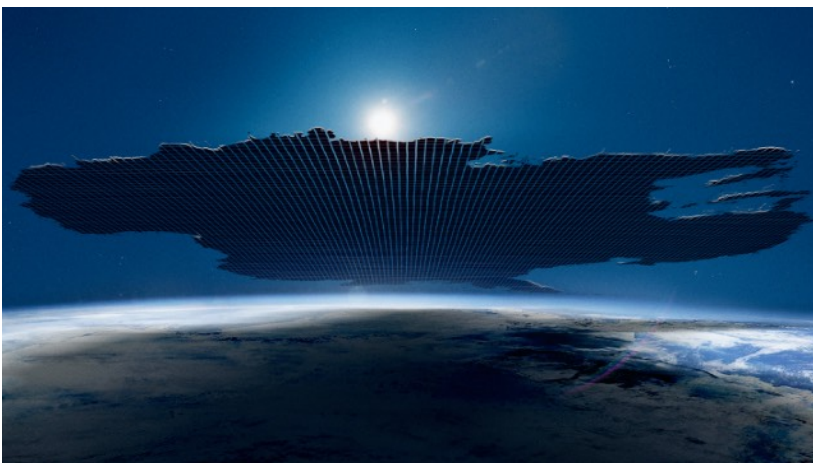
## Description images Space Waste Solutions



1\_ Create the next generation of fireworks with artificial **shooting stars** for international world events. The controlled re-entry of space waste in the atmosphere will serve as both a spectacle and an immersive awareness event and cleans up space; without creating the pollution and waste of traditional fireworks.



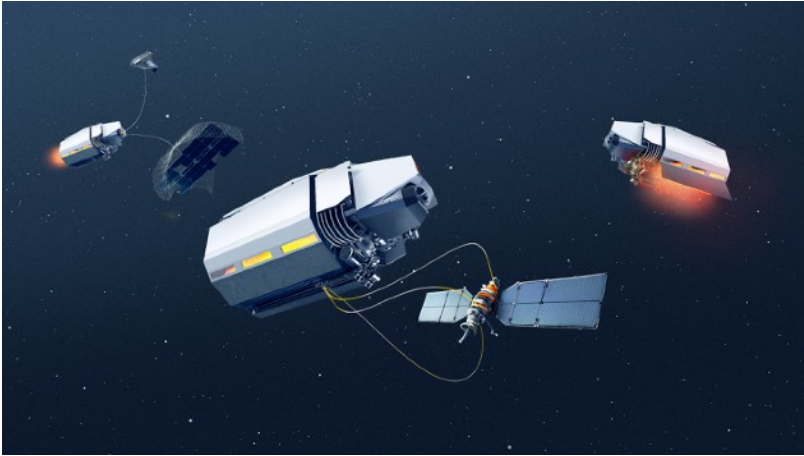
2\_ Recycle and repurpose space waste as the building block for future space societies, turning the existing problem into an opportunity to design and **3D printing** innovative structure both in-orbit and on the Moon.



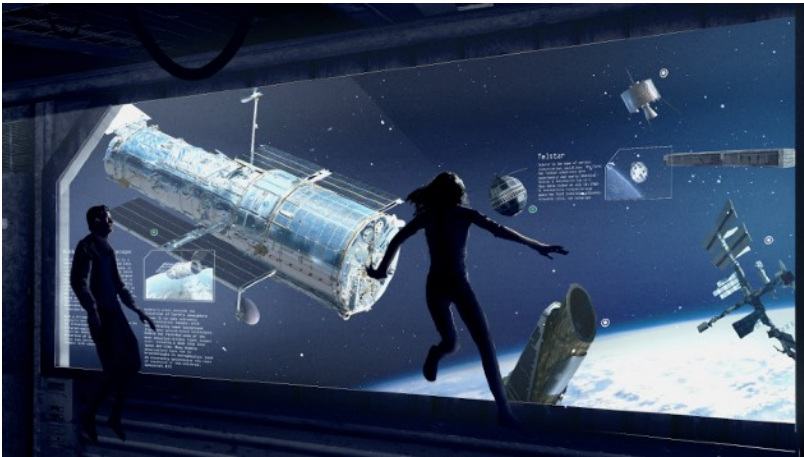
3\_ Space debris is used to form a **giant solar reflector** to lower incoming solar radiation, mitigating the effects of climate change. A constellation crafted from the thousands of pieces of debris placed in geostationary orbit will shield the most vulnerable sections of the Earth, such as the massive ice sheets that cover Antarctica.



4\_ Harvest the kinetic energy resulting from the high velocities impacts of space debris, which can reach 15 km/s. Like giant white blood cells or pac-mans, **floating space waste collectors** will clean and protect the Earth by capturing space waste. Upon impact, this kinetic energy is converted into a potential energy resource for future space endeavours.



5\_Convert the collected space debris into a plasma fuel to create self-perpetuating space cleaning operations. Common materials in debris can be used as a fuel source to power space flight. These roving **space garbage trucks** can also act as mobile charging stations, giving fuel to other spacecrafts to extend their operation lifetime.



6\_A rich history of space travel is circling us, containing important artefacts of mankind's technological achievements. One era's debris can be another era's historic object. By preserving these significant cultural artefacts in a **space museum**, future generations can witness, learn from, and explore our rich history.