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<b>Symposium</b>	1 SYMPOSIUM ON SOCIO-ECONOMIC & GLOBAL COLLABORATION
<b>Theme</b>	1.1 The immense social benefits of expanding Civilization into Outer Space
<b>Abstract Title</b>	Grab Bag - Off the cuff
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### Abstract

A steady program to fund boots-in-space for establishing a self sustaining permanent human habitation in space will inspire kids to become scientists and engineers so they can live and work in space. It will remove a huge amount of environmental damage done here on earth by mining, refining, and heavy industry. It will allow for space based solar energy and possible future shading of our planet as well. It will allow for planetary protection from asteroids. The multi-crisis here on Earth is climate change, economic dislocation and the prospect of more people fighting over fewer resources. The upfront investment required to make space pay and attract private equity is large and needs to be done by governments. Once that is in place the ability to make money will be much easier. Much as ports, railroads, highways, and electricity determine where companies spring up here on earth, such infrastructure off planet will allow companies to grow off planet. An initial lunar base that produces food air fuel and metals will go a long way to enabling space industry. Establish Off-Planet-Inc or OP-inc as I call it. Something like a non-profit employee owned company that invests in promising off planet companies for a stock shares. Encourage people to will their estates to such a charity. Space debris removal. The USA identifies the most hazardous large space debris and issues RFP's for their removal. Contractors then could submit design bid build solutions. The USA is in a good position to eventually recover the costs of these contracts from the party that put the junk in space. I am personally fond of the concept of a bola where the weights are 'spiders' that wrap and attach the tow string to the 'space junk'. The third end of the tow string is then used to tow, at low thrust, the space junk to a better orbit or down into atmosphere.

### A short bio

Lifelong space & science fan. Civil Engineer, Project Manager on a wide Varsity of construction contracts from a few K to over 100M.  
Admin for FB group Colonize The Moon.