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Space Mining is Almost Here!

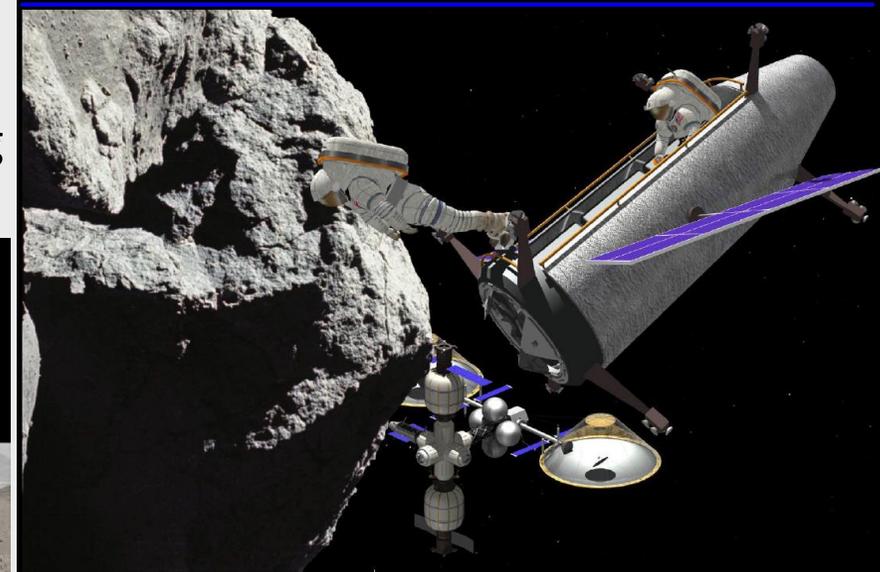
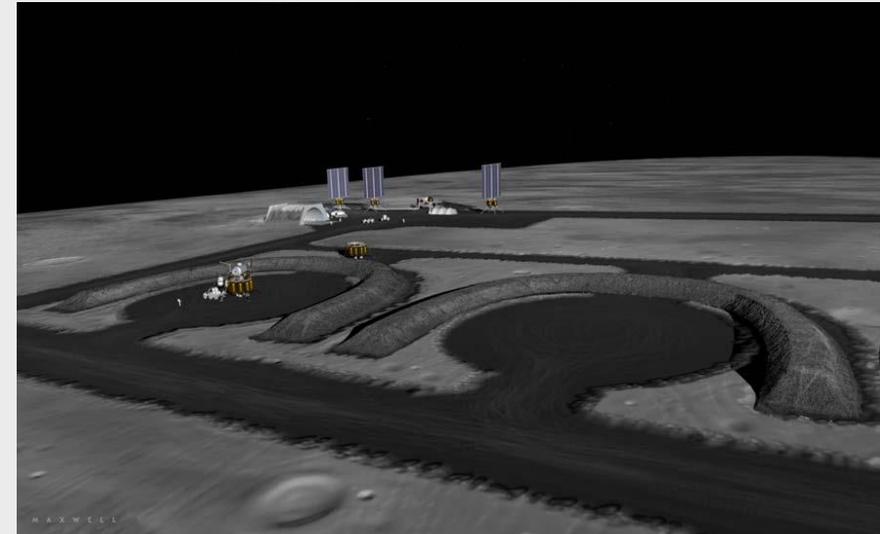
In-Situ Resource Utilization (ISRU)

Space Mining (Moon, Mars, Asteroids)

- Water for rocket fuel/oxidizer
- Leverage (only send added value from Earth)
- Information, energy, local use, export

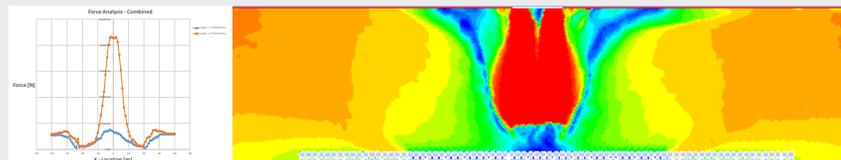
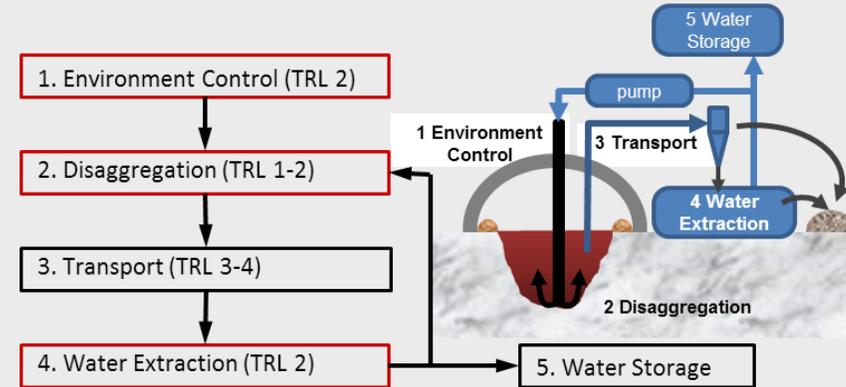
Space Construction

- Use local rocks, regolith
- Simple structures, e.g. 3D printing



Scholarly Contributions

- Chair of ASCE Aerospace Division
- Secretary of AIAA Space Resource TC
- NASA SBIR/STTR grant 2016-2017
- NASA JPL summer ISRU research 2017
- NASA Early Stage Innovation proposal
- Invited talks at UCF CLASS, CSM



Experiments, field testing and CFD analysis are needed to confirm this

Rocks outside of center zone could be blown away but will blow away from vehicle and a shallow angles

Center zone not expected to move if no gaps in the dust

