

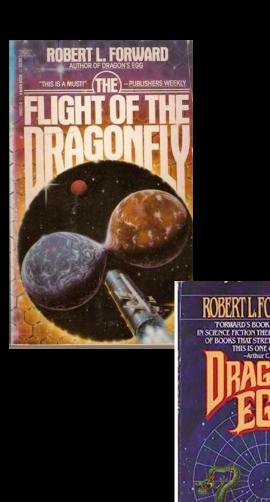
"Back and forth on this tether, it ain't easy"

- 42 Dugg, It Get Deeper Pt. 2, Free Dem Boyz

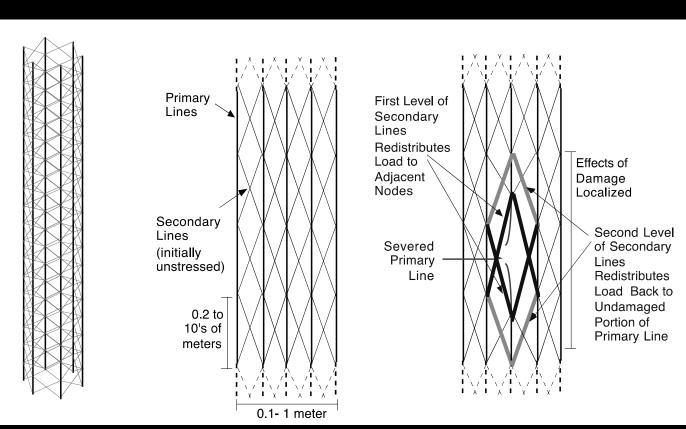
A Grad Student Walks into a Seminar...







Macrame from Hell: The Hoytether™





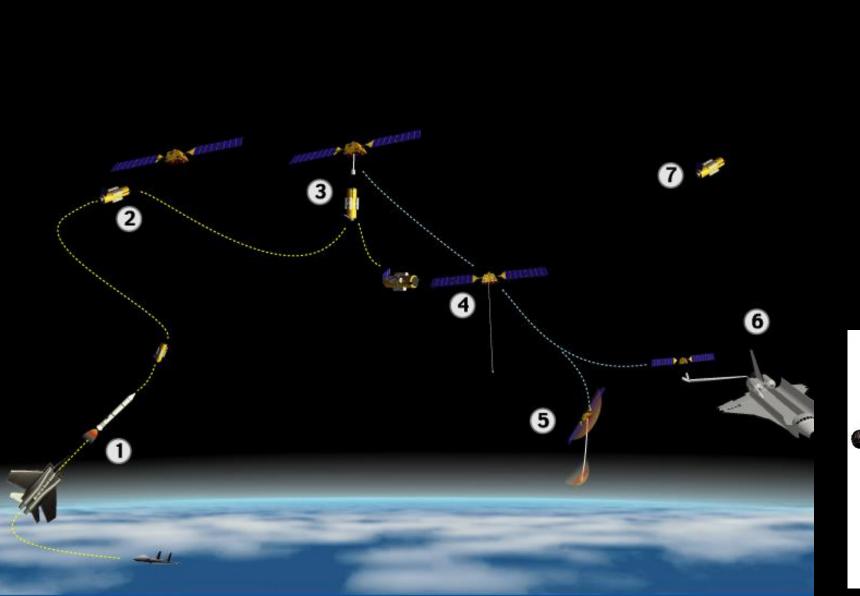
An Idea Before its Time: The Terminator Tether



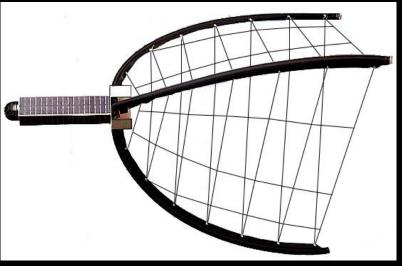


Deorbit Corp.

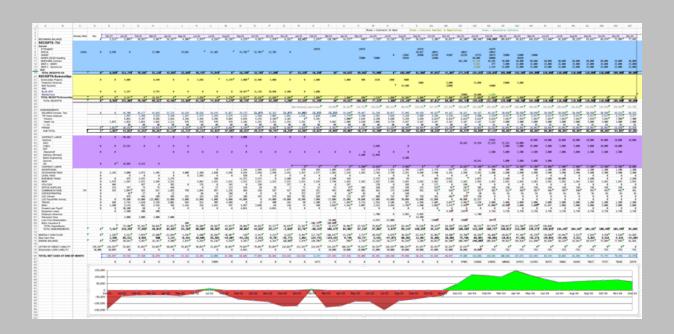
GRASPing at Satellites





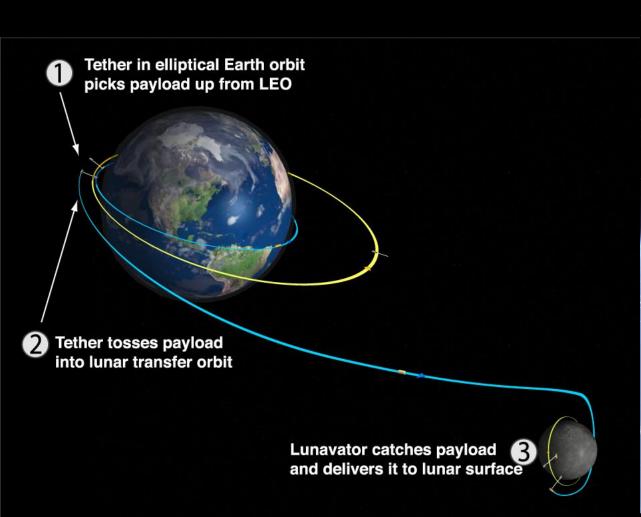


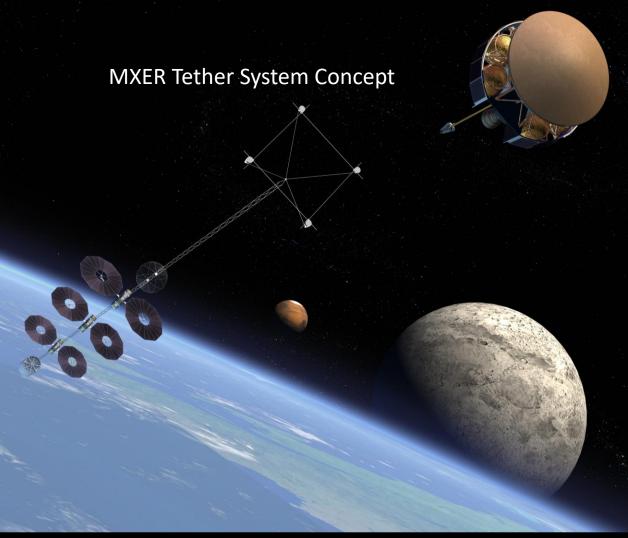
Valley of Death, Part I



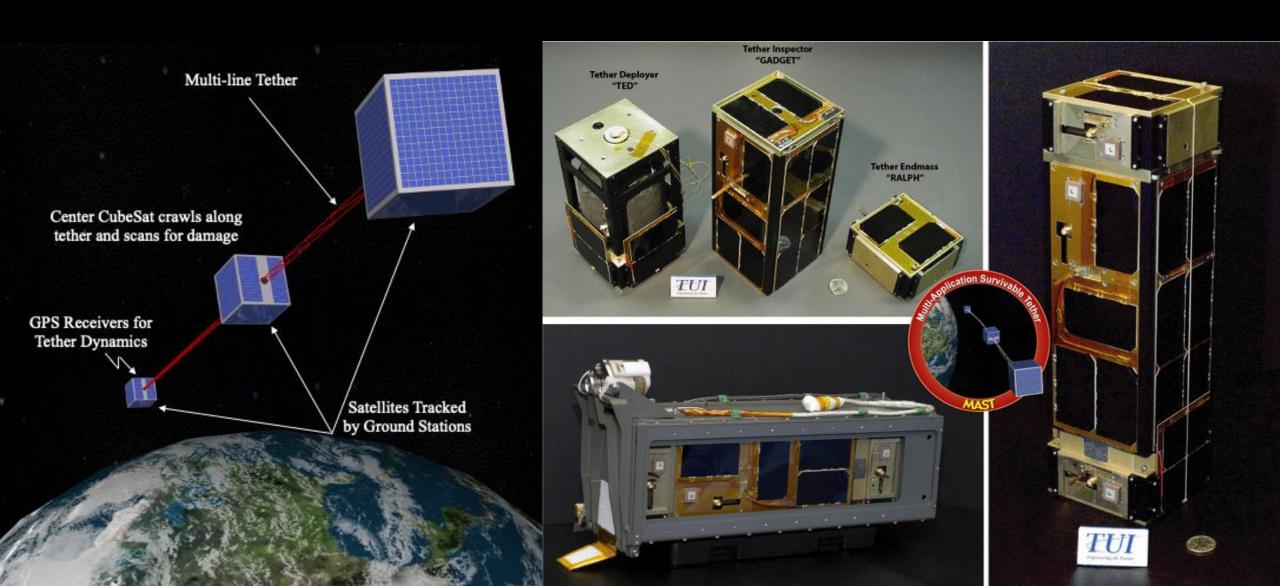


Slingshot to the Moon: The Cislunar Tether Transport System





Flight Mission on a Shoestring: The MAST CubeSat Mission



The CubeSat Revolution: Radios, Thrusters, and Gimbals, Oh My



- High-throughput data for SmallSats
- Frequency- and modulation-agility
- IP-based Inter-Satellite Adaptive Mesh Networking





- Orbital agility for SmallSats
- Water propellant -> safe for personnel and primary payloads





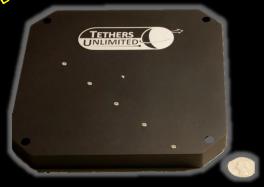
 Precision pointing for optics, antennas, and sensors • Affordable end-of-life deorbit for debris mitigation

TERMINATOR

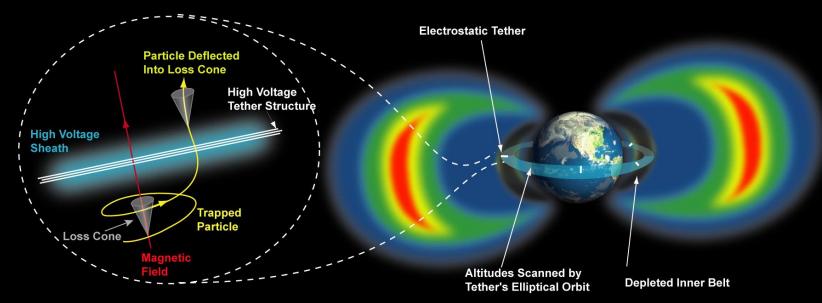
TAPE®



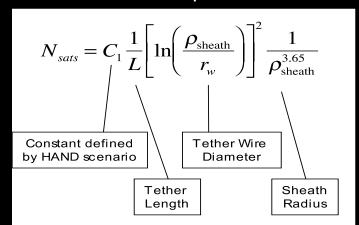
FLIGHTAGE



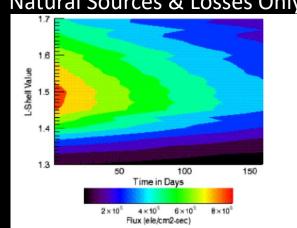
Remediating Space Radiation & Making the Tin-Hats Angry



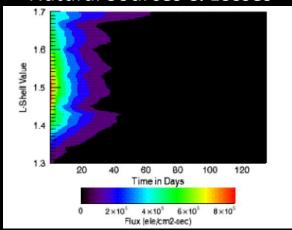
Mother of All Equations:



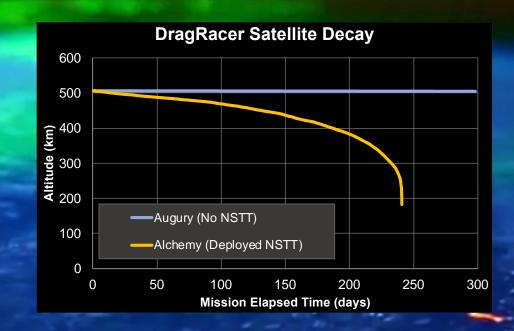
No Remediation
Natural Sources & Losses Only



With Remediation Natural Sources & Losses



Dumb as a Brick: The Terminator Tape



Valley of Death, Part II: Going from Prototype to Production





Produce up to 36 radios a month at TUI alone



Rapidly Scaling to meet customer demand



25,000 sq ft facility















Thermal Testing

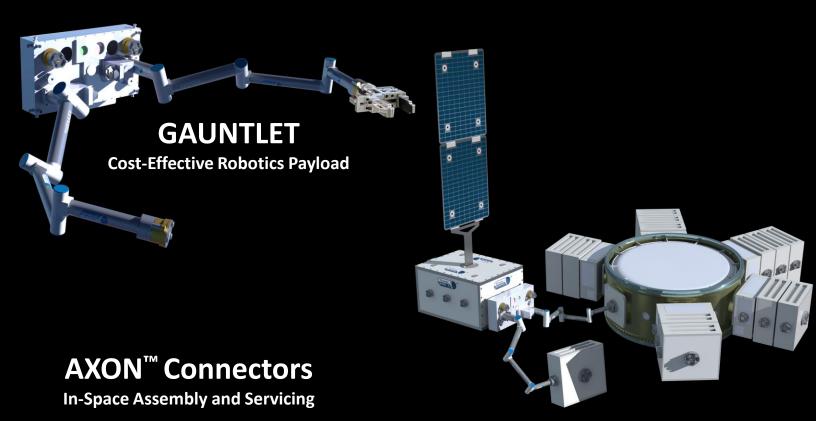






Vibe Testing

BUILDING OUR FUTURE IN SPACE





In-Space Composite Structure Manufacturing



Refabricator

In-Space Recycling & 3D Printing







Lessons Learned the Hard Way

- Space Tethers are Hard
- How you learn from failures determines whether you succeed in the long run
- Market Timing is Critical to Product Success
- In taking a product from prototype to flight production, the last 5% is 95% of the effort & cost