

Team FREDNET



Team FREDNET

Fred's
Robotic
Exploration
Development
NETwork



Team FREDNET

- U.S. 501(c)(3)
 - Tax-Exempt Non-Profit Research and Education
 - Headquarters: Huntsville, AL
- International -- >700 volunteers >60 countries
- Open means:
 - Open Source Prototypes and Designs
 - Participation from Anyone, Anywhere
 - Collaborative Online Environments
 - Subject to governing laws on some materials!



Corporate Mission

Open Source Catalog of Spacecraft Components

- Service: Low-cost, featherweight lunar lander
- Prototypes Available from Open Spacecraft Component Toolkit – Open Source / Collaboration
- Long-Range Plan: Robotic Lunar Missions
- Markets:
- Global Research
- Commercial Space Community



Progress

Mission Phases Completed

- Concept Alternative Studies
- Down-Select
- Element Studies

Phase In Progress

- Element Evaluations

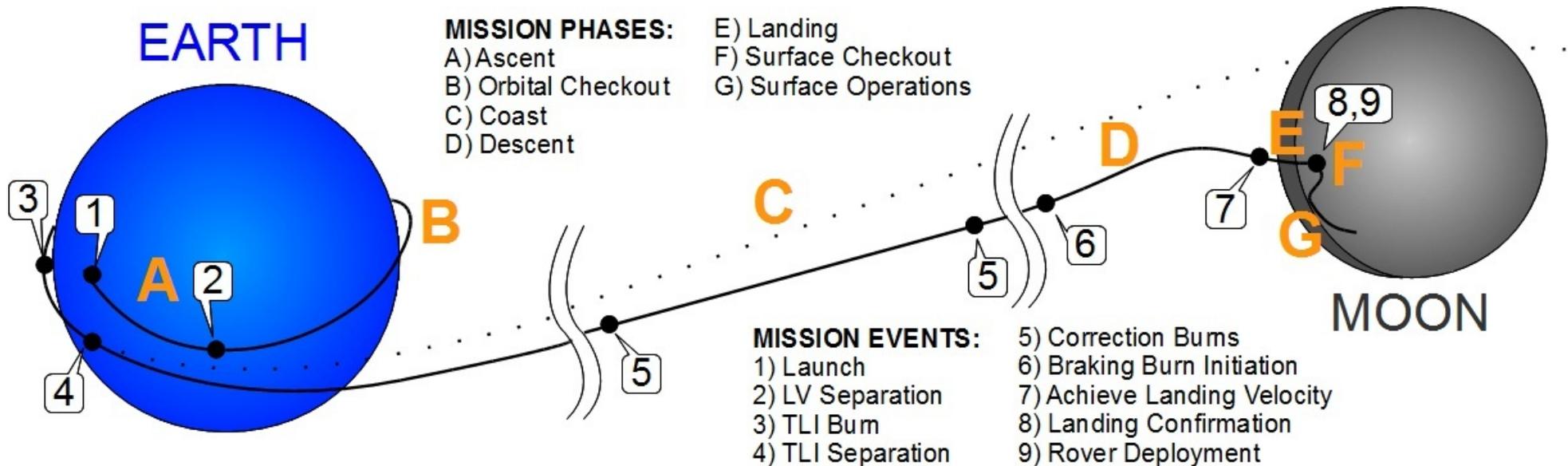
Mission Phases – Next Steps

- Evaluate Flight System Designs - 2010q4
- Early Element Flight Tests – XAERO Lander – 2010q4 - 2011q1
- Element Down-Select – Flight System Design - 2011q2
- XAERO Flight Tests

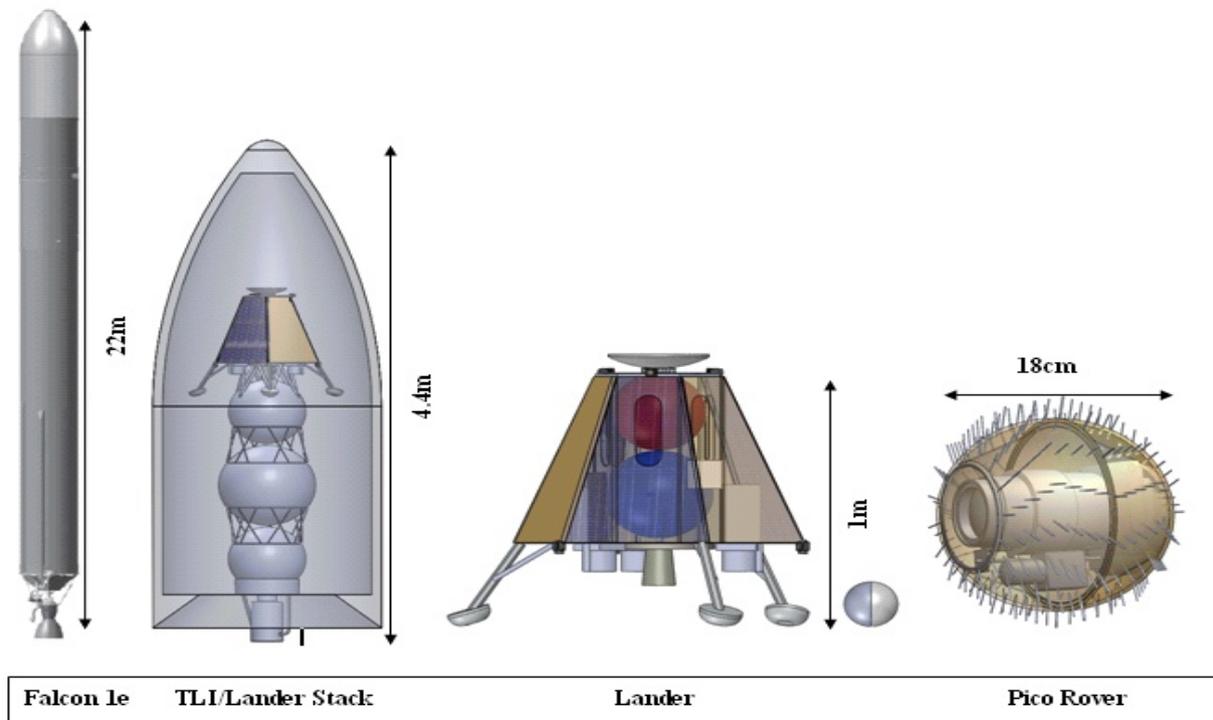


Mission Concept of Operations

(not to scale)



Conceptual Vehicle Design (Example Showing Falcon 1e Integration)



Upcoming Events

- Payload Specification Workshops
 - **June 2011**, Kennedy Space Center (KSC)
 - Additional dates and locations TBA
 - Contact Payloads2011@TeamFREDNET.org
- Flight Qualifications
 - Mojave, CA
- Lander Flight Demos
 - Mojave, CA



