



# Advanced Space

**A Small Innovative Pathfinder in the exploration,  
settlement and development of space**

*Advanced Space – Robert Cone, Strategic Advisor*

# Advanced Space and AC-REP

Advanced Space is a proud member of AC-REP  
and is a  
Leading proponent of the  
Colorado aerospace industry and specifically  
the Colorado Lunar Community!

# Who We Are

Advanced Space exists to enable the sustainable exploration, development and settlement of space

## Advanced Space LLC

- High-technology small business and non-traditional prime contractor
- Founded in 2011, bootstrapped growth
- Located in Westminster, CO
- FCL in-place & CMMC-certified
- 40,000 ft<sup>2</sup> facility, including the Advanced Space Operations Center (ASOC)
- 114+ team members include:
  - Astrodynamics and Satellite Navigation Engineers
  - Systems Engineers
  - Machine Learning Engineers
  - Software/DevOps Engineers
  - Program Managers
  - Business Professionals
  - Executive Leadership

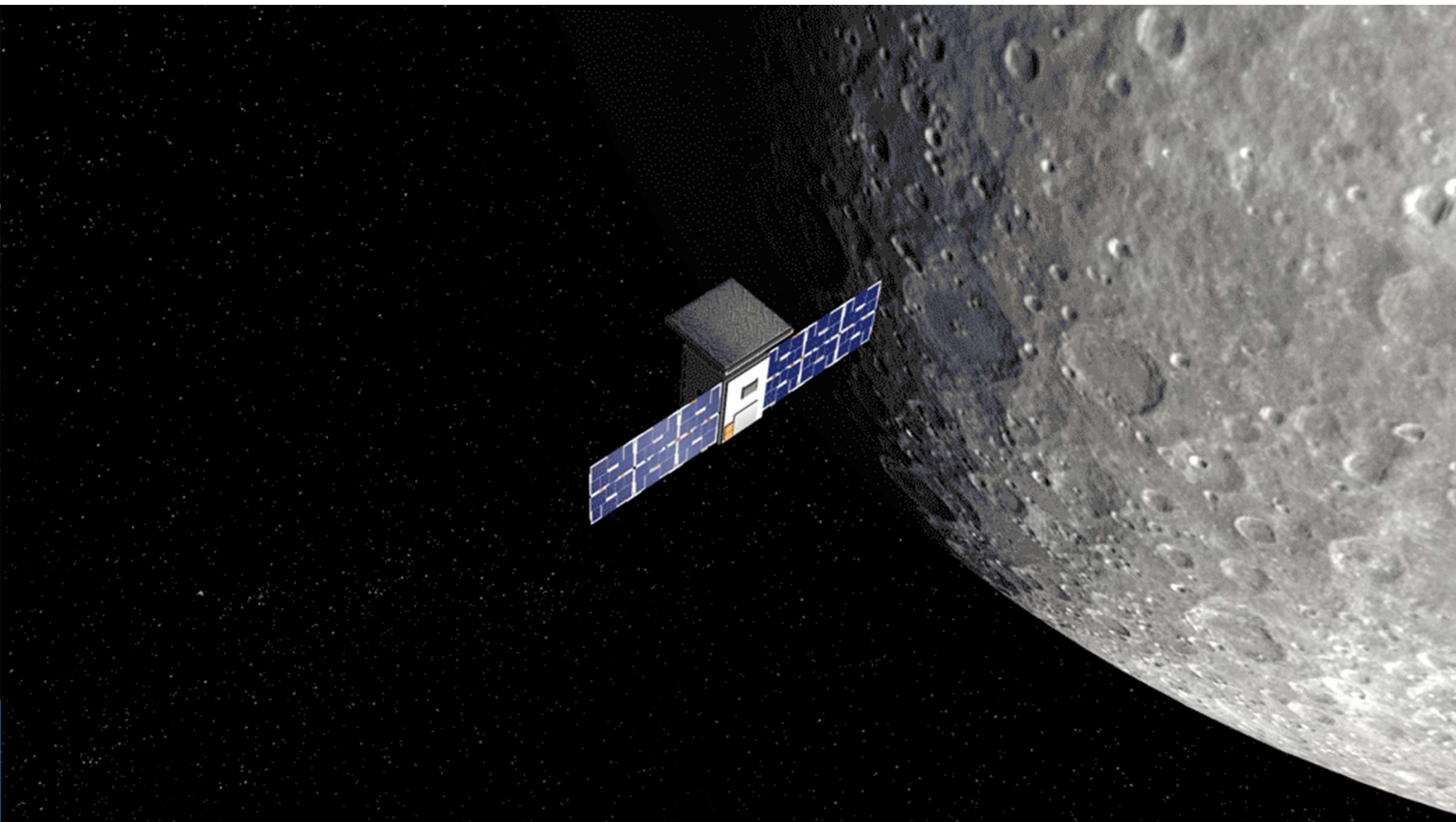


**Markets:** Civil | Commercial | International | National Security

**Customers:** NASA | Research Institutes | Primes | Small Businesses

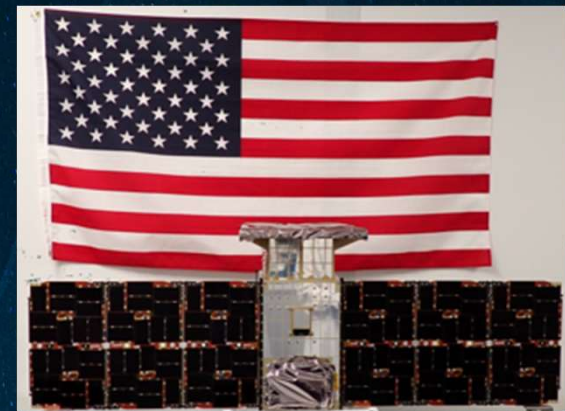
Start-ups | AFRL | USSF | IARPA | SSC | DARPA





# Award Winning Mission

- ◆CAPSTONE has completed 100% of its operational objectives
- ◆NASA Group Achievement Award
- ◆NASA Space Technology Award
- ◆AIAA Small Spacecraft Mission of the Year
- ◆CSF Commercial Space Pioneer Award
- ◆BIG Innovation Award
- ◆R&D 100 Award Finalist
- ◆50+ papers/presentations for information dissemination



# 1,242 Days

Operating at the Moon for 3 years, 4 months, and 26 day

- ✧ Revolutions Completed: 175
- ✧ Stationkeeping Maneuvers Executed: 64
- ✧ G4+ Solar Storms: 2

1<sup>st</sup> commercial spacecraft at the Moon

1<sup>st</sup> operation in NRHO

1<sup>st</sup> onboard navigation demo

1<sup>st</sup> flight AI/ML

1<sup>st</sup> backward compatible crosslink





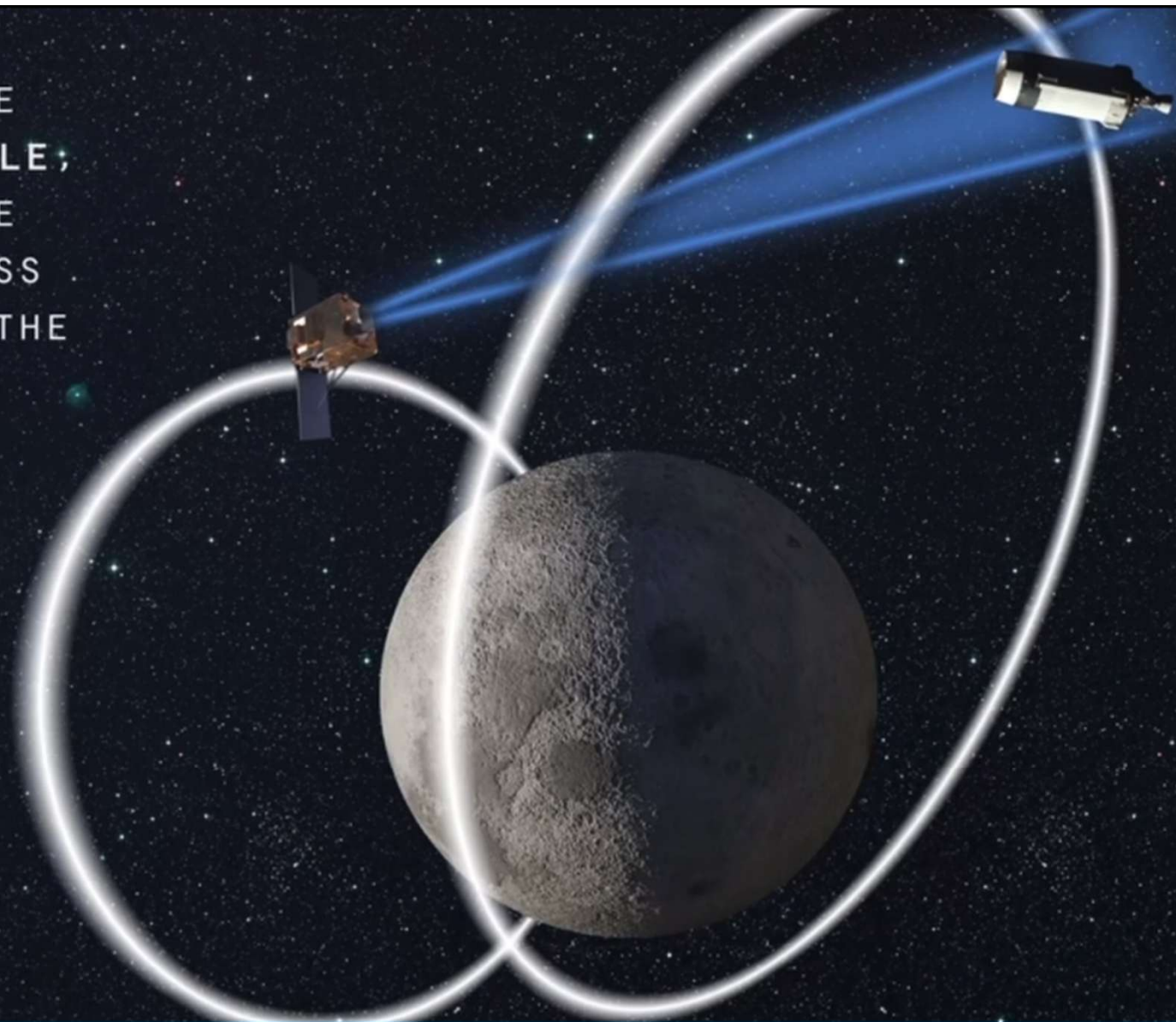
# Efficient Commercial Lunar Operations

- ◆ High level of automation in processes for sustainable commercial operations demonstrated over 3+ years
- ◆ Enabled by highly integrated software and highly experienced team:
  - ◇ Next generation, cloud-native Flight Dynamics System
- ◆ Multi-mission operations infrastructure
  - ◇ Efficiencies reduce program costs
- ◆ Feed forward to future missions: Oracle-P, ESCAPADE, SWFO, and others



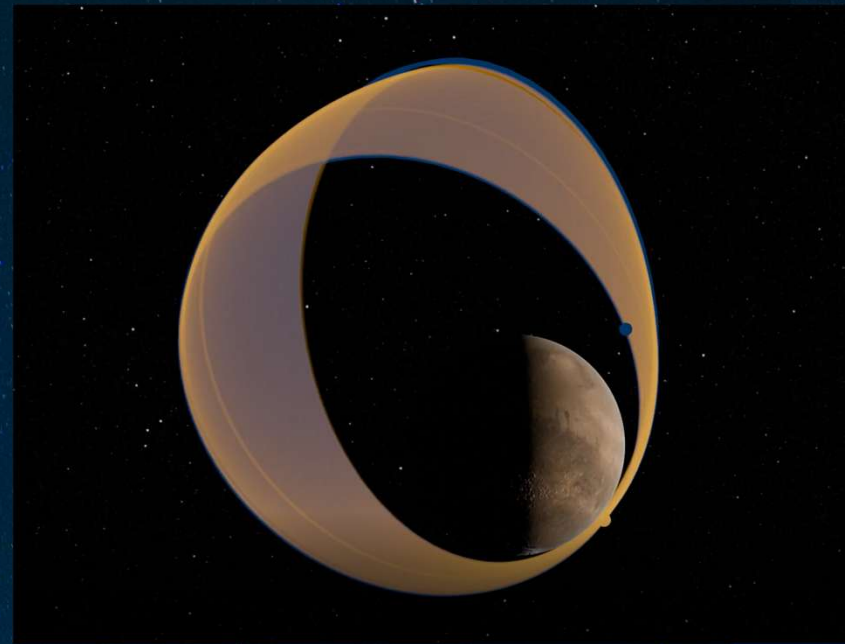
AND WE ARE THE PRIME  
CONTRACTOR FOR ORACLE;  
A CISELUNAR AND SPACE  
SITUATIONAL AWARENESS  
MISSION AWARDED BY THE  
AIR FORCE RESEARCH  
LABORATORY (AFRL)

**AFRL** **NSTXL** **SPACE**  
FOR THE UNITED STATES OF AMERICA NATIONAL SCIENCE FOUNDATION AIR FORCE ENTERPRISE CONSORTIUM



# ESCAPADE

- ◆ Escape and Plasma Acceleration and Dynamics Explorers (ESCAPADE):
- ◆ Twin-spacecraft dedicated to studying the transfer of solar wind energy
- ◆ Created a flexible way to accommodate launch dates.



*One of ESCAPADE's science orbits*



## Join Colorado's Aerospace and Defense Community

Support the growth and success of Colorado aerospace, defense, and tech companies – from the Eastern Plains, across the Front Range and past the Western Slope.

[JOIN US](#)

### Our Mission

- Promote the interests of the aerospace and defense industry in Colorado
- Foster collaboration and networking, advocate for the industry locally and nationally, and other activities to support the creation and growth of companies in Colorado

### Our Approach

- **Member-Driven** – You tell us what matters; we build teams and initiatives around those priorities
- **Project-Based** – Resources go to results, not bureaucracy
- **Collaborative** – We partner with existing organizations, filling gaps rather than duplicating efforts

<https://aerospacecolorado.org>

