



LUNAR OUTPOST LUNAR VOYAGE 1

A science, communications, and space resources mission

LUNAR VOYAGE 1: MONS MOUTON

Mission Overview

- *Fully commercial mission*
- Launched Q1 2025 for the Lunar South Pole
- Hosted multiple payloads including:
 - Nokia's Lunar surface LTE
 - MIT's Resource Camera and Astro Ant rover

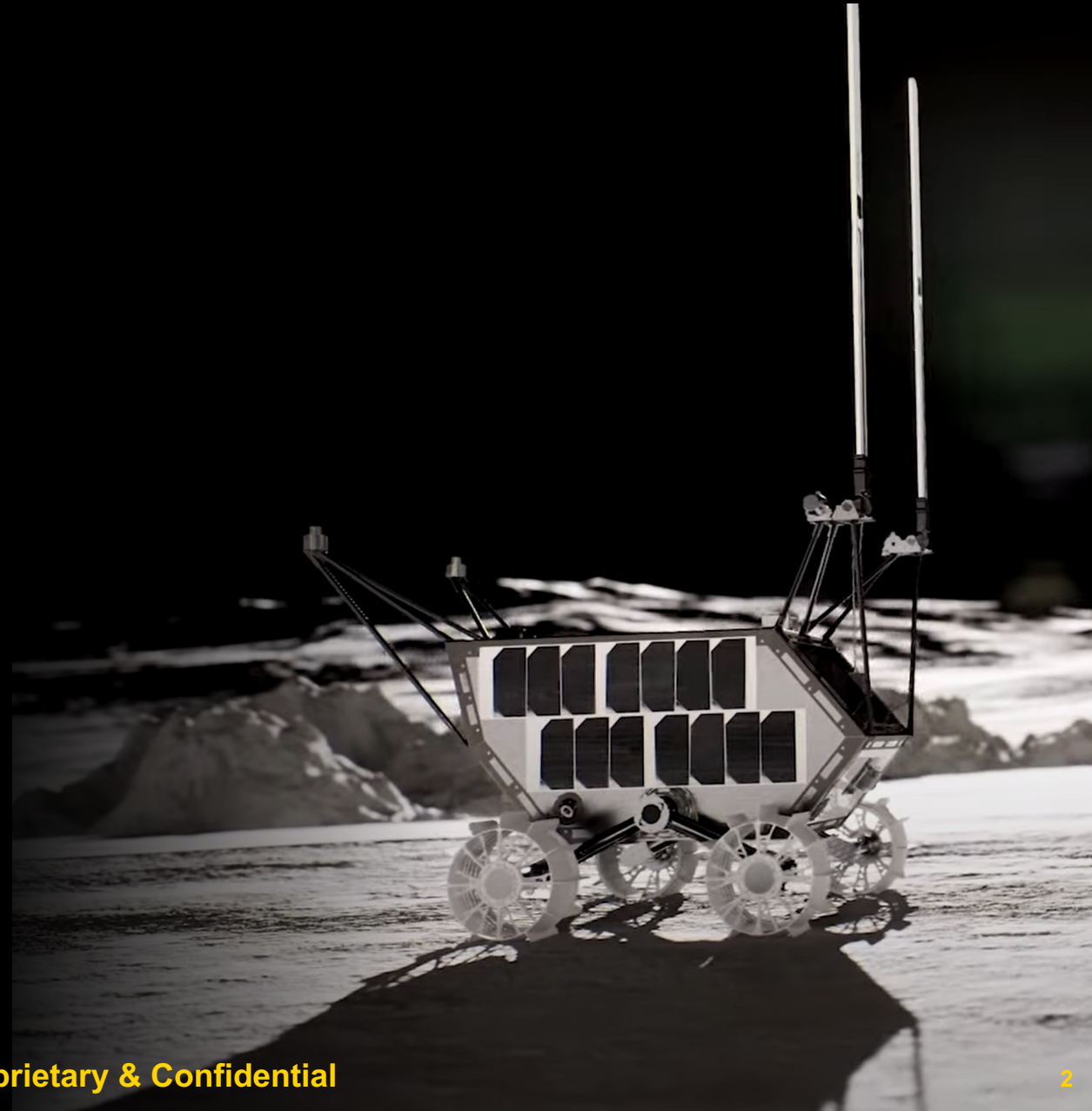
NOKIA

Castrol

adidas

JUVENTUS
JJ

MIT



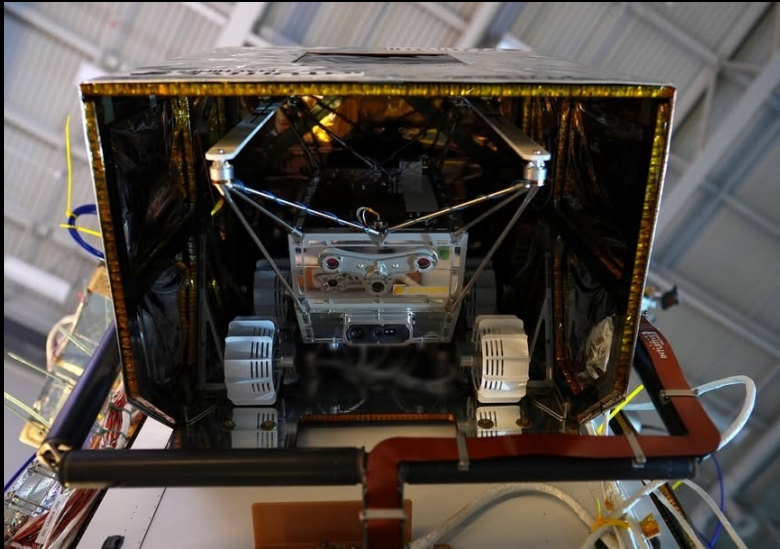
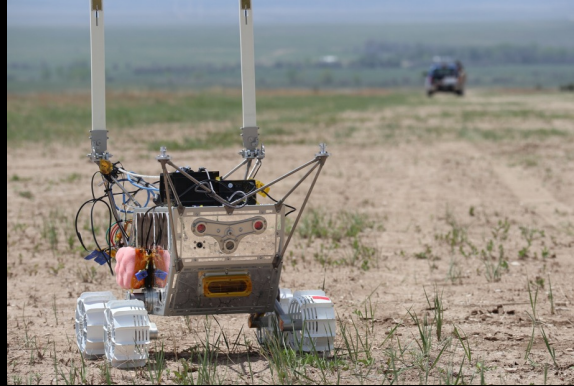
Nokia LTE Antennas - deployable

MIT Astro Ant Garage

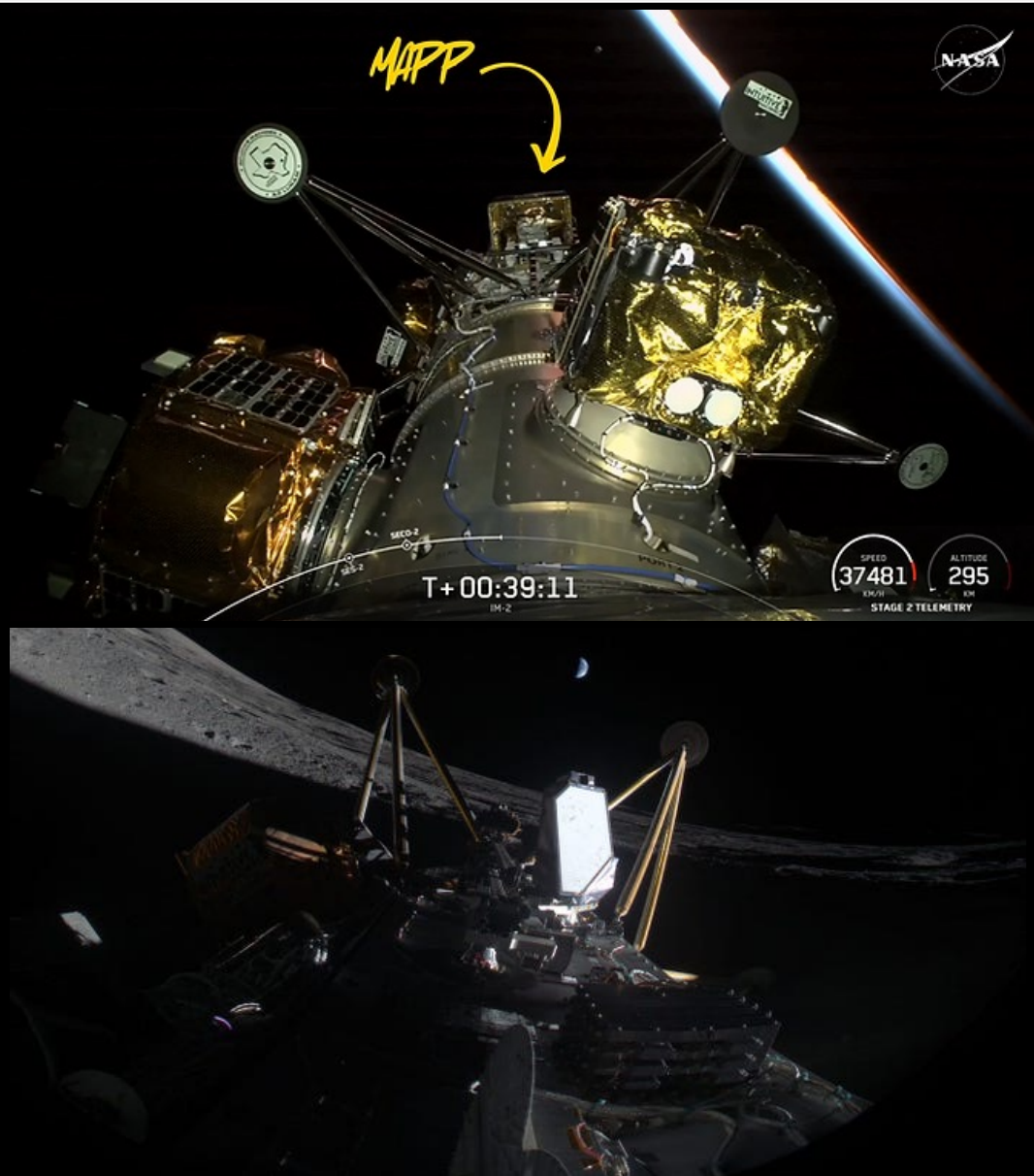
Various cameras for navigation

MIT Resource Camera

LUNAR VOYAGE 1 – CONCEPT, TEST, AND FLIGHT



LUNAR VOYAGE 1 FLIGHT



Lunar Outpost **MAPP** rover was the first US rover operated on the lunar surface and in cislunar space, achieving **Lunar TRL 9** for key rover subsystems:

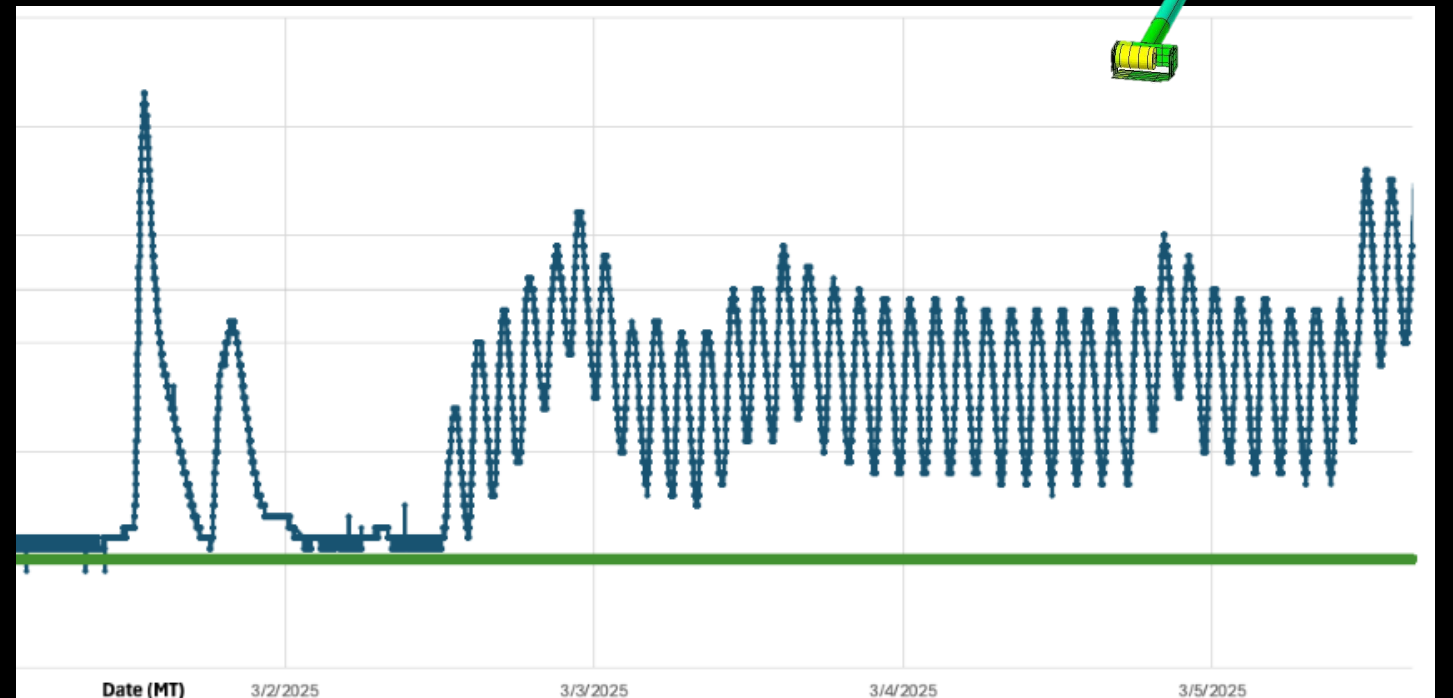
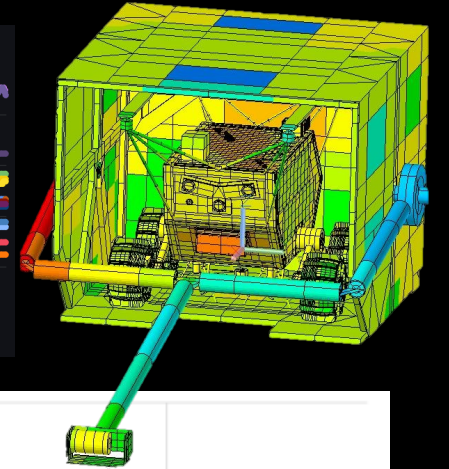
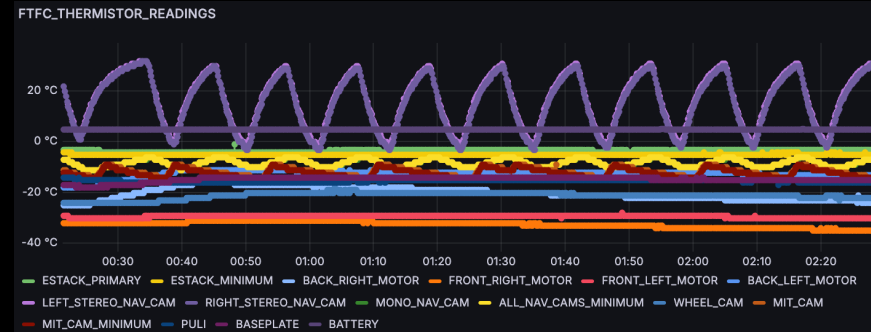
- Lunar Outpost's Fault Tolerant Flight Computer
- High-performance navigation computer / memory
- Stereo Navigation Camera
 - Captured image during transit
 - Compressed image using Lunar Outpost algorithms
 - Transmitted over narrow data allocation
- Autonomous Thermal Control System
- Patent-Pending Hold Down and Deployment System
- Autonomy Systems and Software achieved TRL 9
 - Vehicle states
 - Data relay
 - Communications
 - Payload applications
 - Robotic functions



Mission Control tested, validated, and demonstrated on LV1 Mission

LUNAR VOYAGE 1 MISSION DATA

- Thermal data resulted in a “Fingerprint” of rover orbit and transit activities
- Our flight correlated thermal model improved our model’s accuracy and fidelity in the transit environment
- Thermal modeling advancements resulting from flight data have been incorporated to our LTV thermal models as well as our Rover Simulation software



Transit

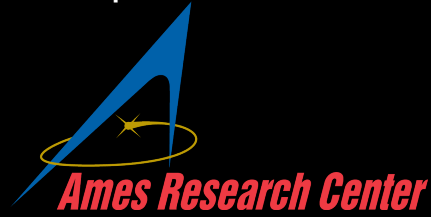
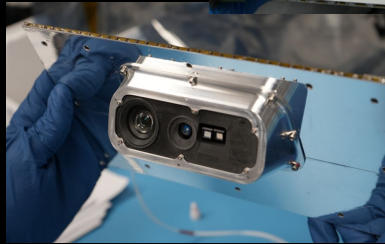
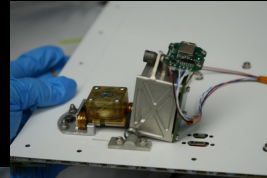
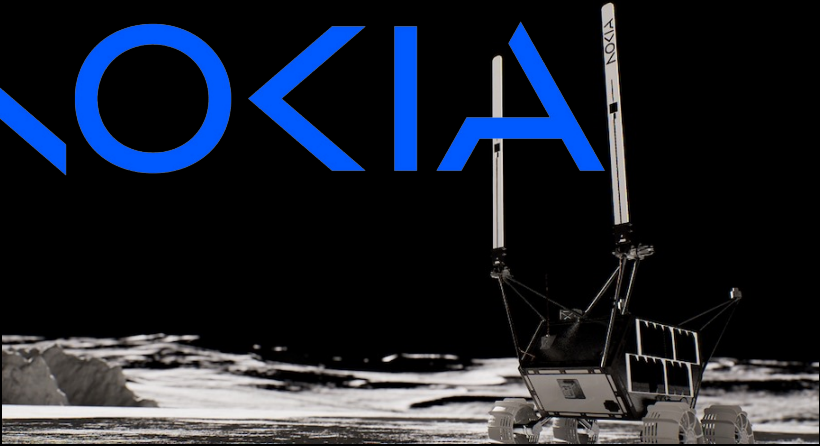
LLO

LDO

LUNAR VOYAGE 1 COMMERCIALIZATION

- Fully Commercial Mission Commanded Loyal Support from Inside and Outside of the Industry
- Over 1 Billion Unique Visitors per Month of Mission content. Nearly all partners plan follow-on activities

NOKIA



Current Nakamoto, 1 Treasure Chest value
\$246,930.08

