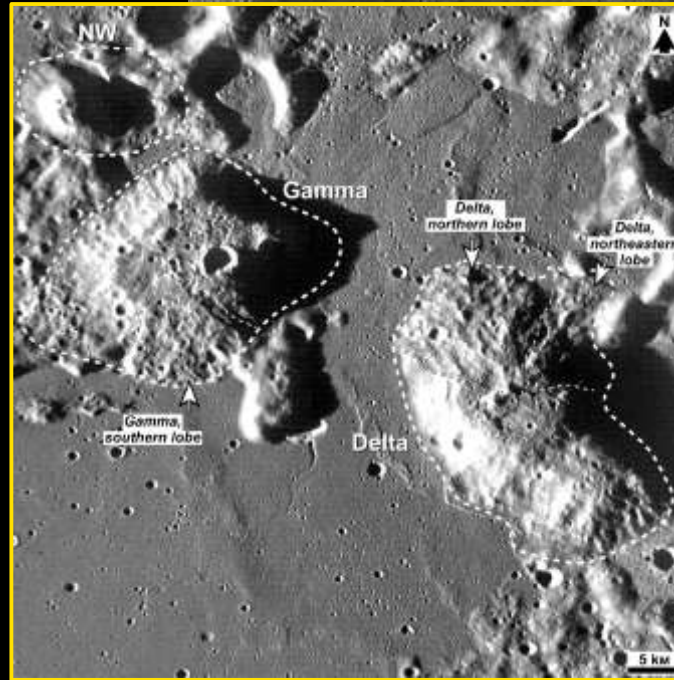
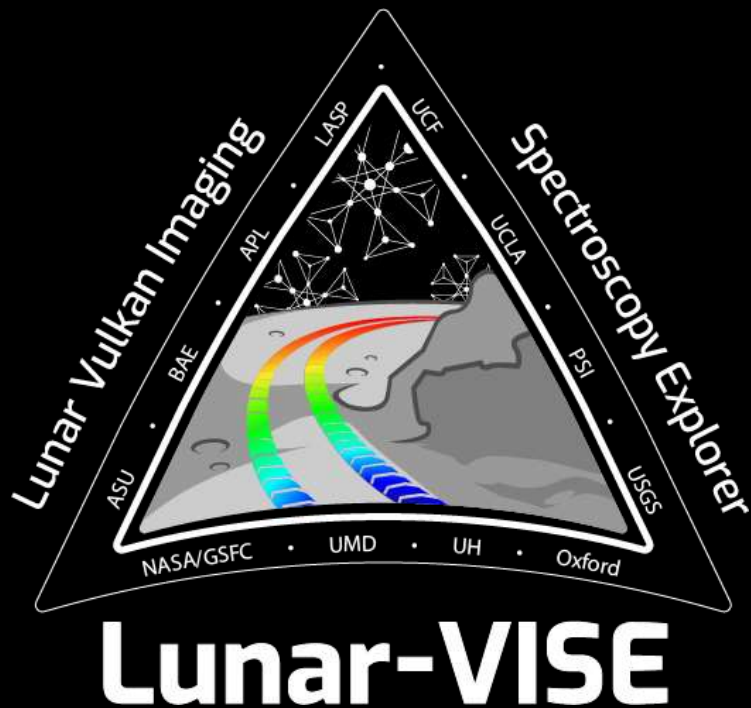


# ***Lunar Vulkan Imaging and Spectroscopy Explorer (Lunar-VISE)***

First NASA mission to the surface of the Moon in 2028\*, led by UCF



Ivanov et al. 2016

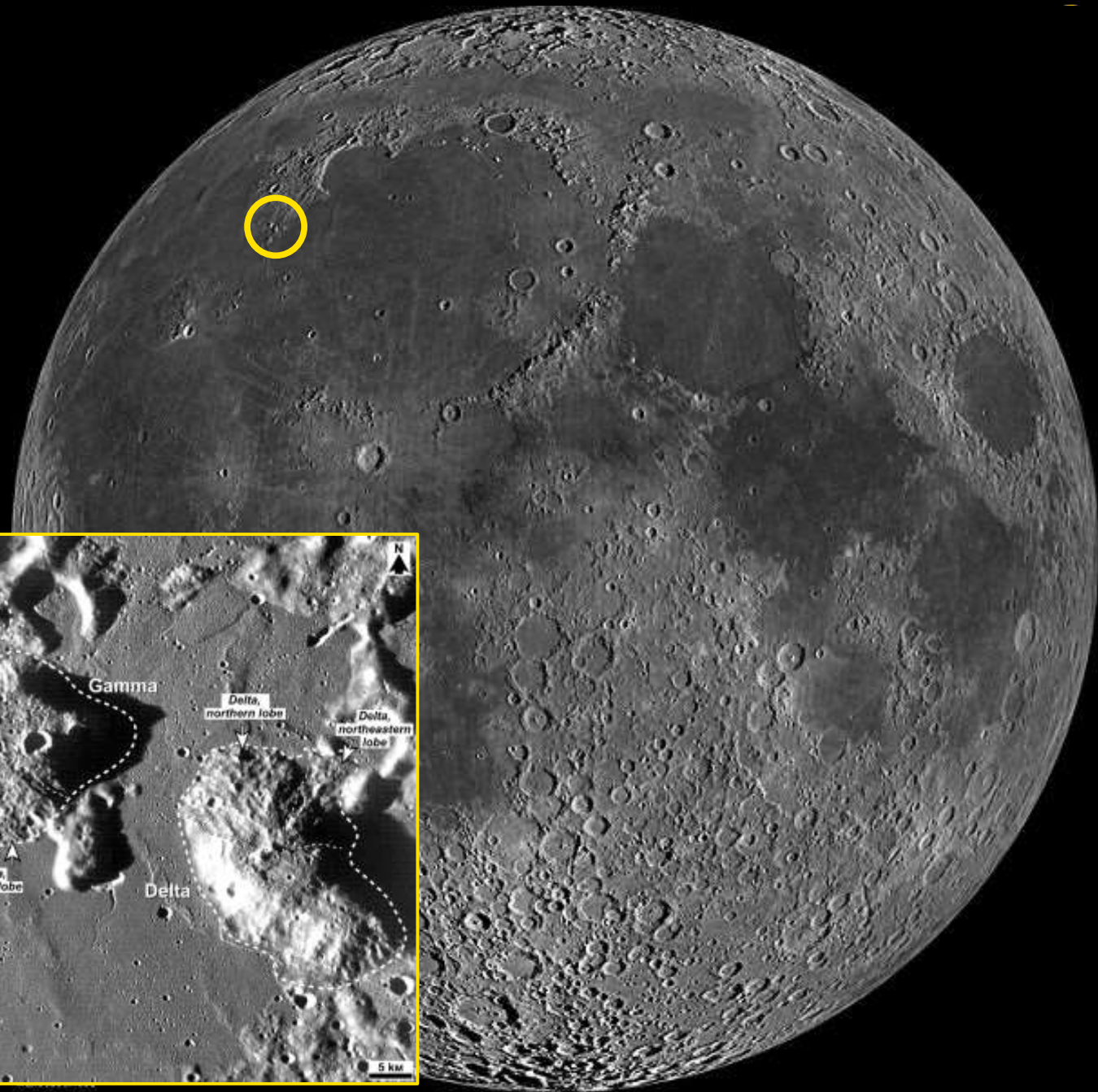


Image Credit: NASA / ASU / LROC



# CLPS Deliveries

## 2024-2028

**Delivery Site:**  
Gruithuisen Domes  
**Provider:** Firefly  
CP-21 | 2027

**Delivery Site:**  
Ina IMP  
**Provider:** TBD  
CP-32 | 2027

**Delivery Site:**  
Sinus Viscositatis  
**Provider:** Astrobotic  
TO2-AB | Jan 2024

**Delivery Site:**  
Lunar Far Side &  
Orbit Insertion  
**Provider:** Firefly  
CS-3 & CS-4 | 2025

**Delivery Site:**  
Reiner Gamma  
**Provider:** IM  
CP-11 | 2025

**Delivery Site:**  
TBD  
**Provider:** TBD  
CP-41 | 2028

**Delivery Site:**  
South Pole  
**Provider:** TBD  
CS-6 | 2027

**Delivery Site:**  
Mare Crisium  
**Provider:** Firefly  
TO19D | Late 2024

**Delivery Site:**  
Shackleton Connecting Ridge  
**Provider:** IM  
TO PRIME-1 | Q4 2024

**Delivery Site:** Malapert A  
**Provider:** Intuitive  
Machines (IM)  
TO2-IM | Feb 2024

**Delivery Site:**  
Schrödinger Basin  
**Provider:** Draper  
CP-12 | 2026

**Delivery Site:**  
South Pole  
**Provider:** Blue Origin  
VIPER, CP-22 | 2027

**Delivery Site:**  
Mons Mouton  
**Provider:** Astrobotic  
CP-22 | 2027

Updated 2025

Space Science Week 2024



# Lunar-VISE Science Investigation

*Using BAE-built multispectral cameras and an ASU-built gamma ray and neutron spectrometer on a rover, we will:*

- 1) Map the composition of rocks and regolith on top of the volcanic dome
- 2) Map the physical properties of rocks and regolith
- 3) If high enough abundances, map H abundance
- 4) Ground truth spacecraft observations of the volcanic dome

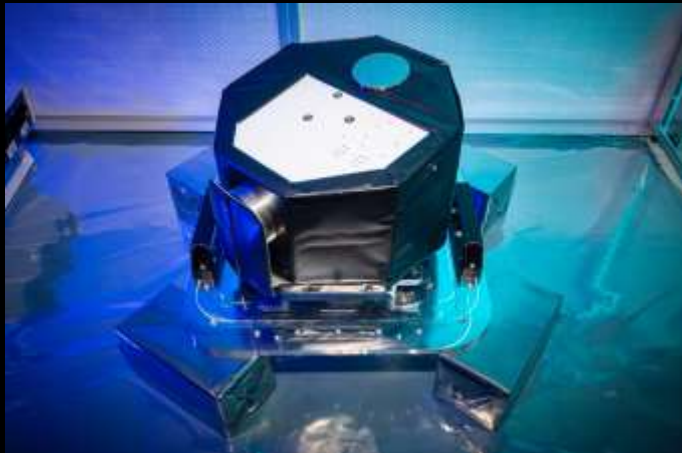


Image credit: Ball Aerospace



Image credit: RMD

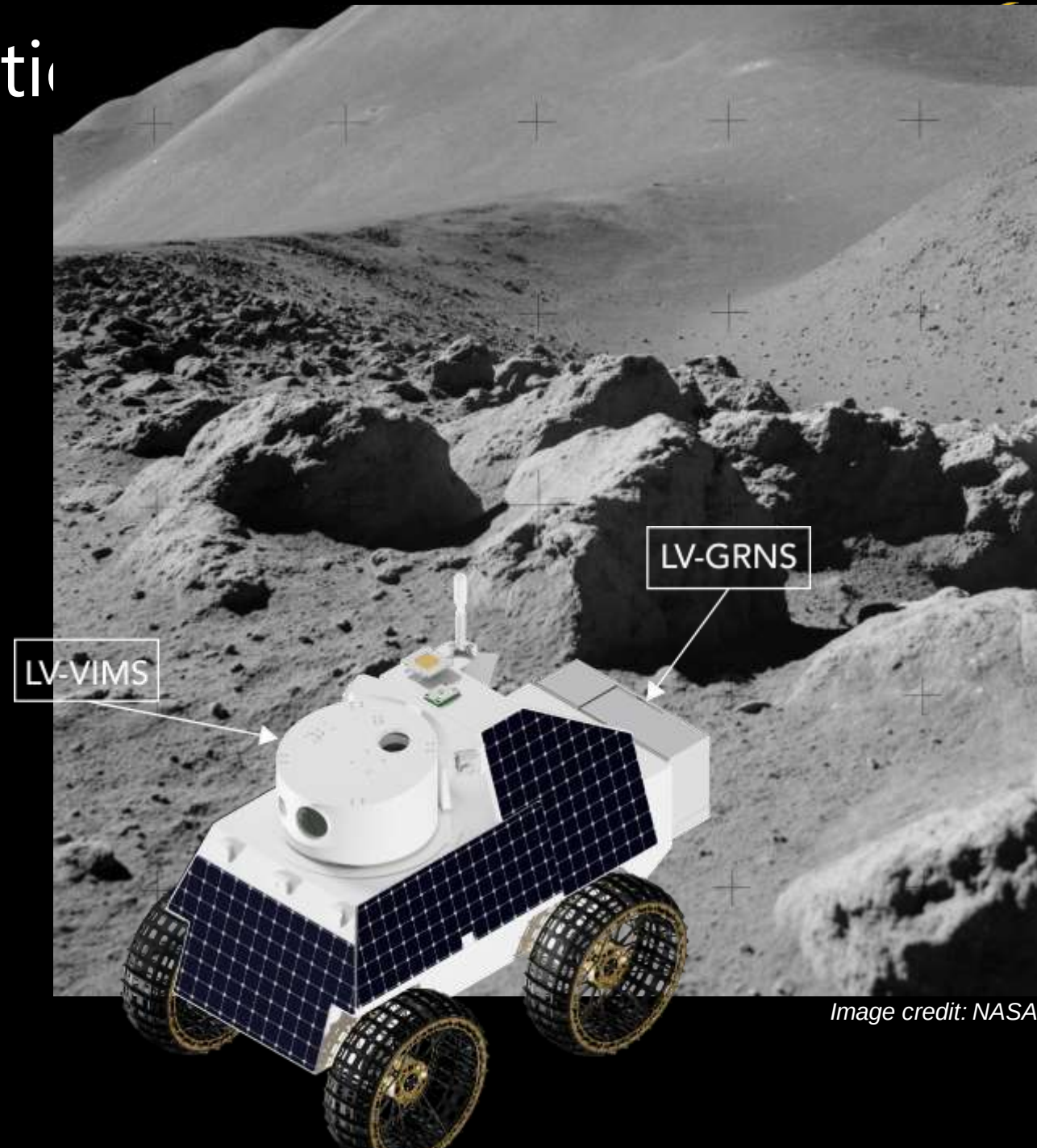


Image credit: NASA

# Lunar-VISE Exploration Investigation

*Using BAE-built descent and context cameras on a lander, we will:*

- 1) Image the landing site as the lander descends to the surface
- 2) Map the geologic context of the landing site
- 3) Characterize how rover interacts with the lunar regolith

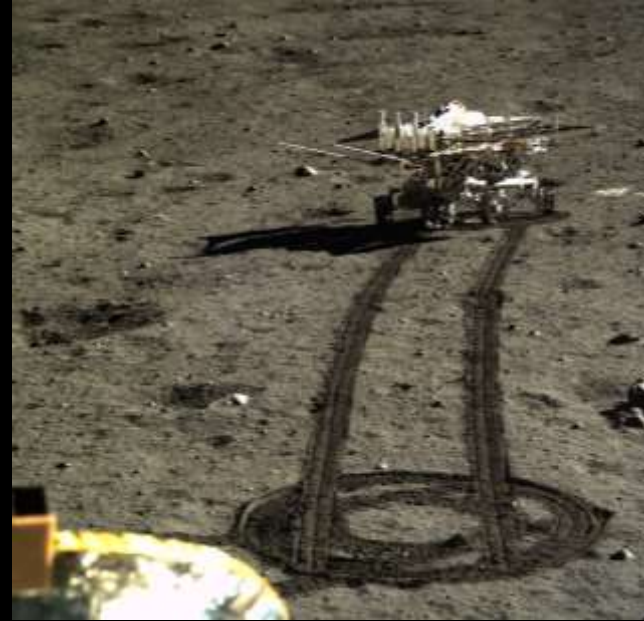


Image credit: CNSA

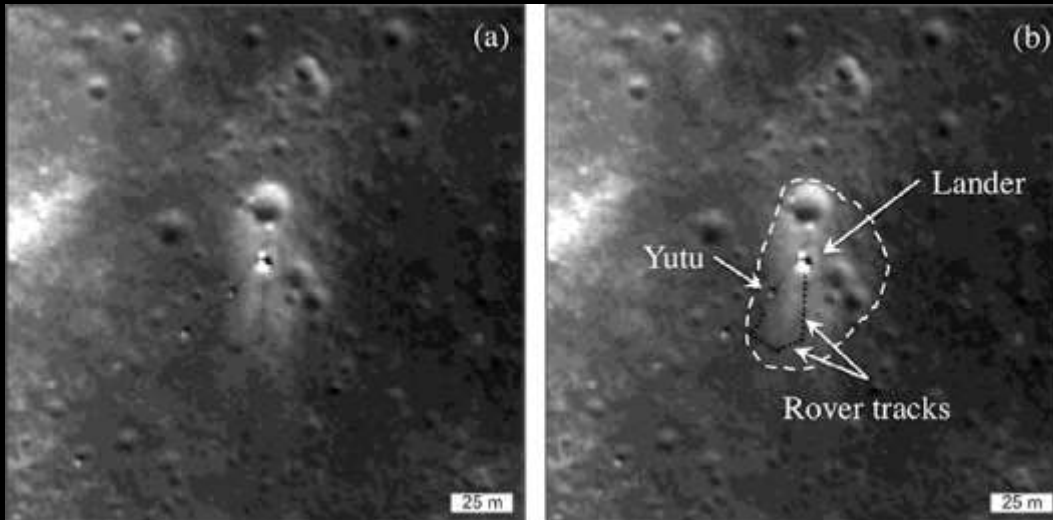
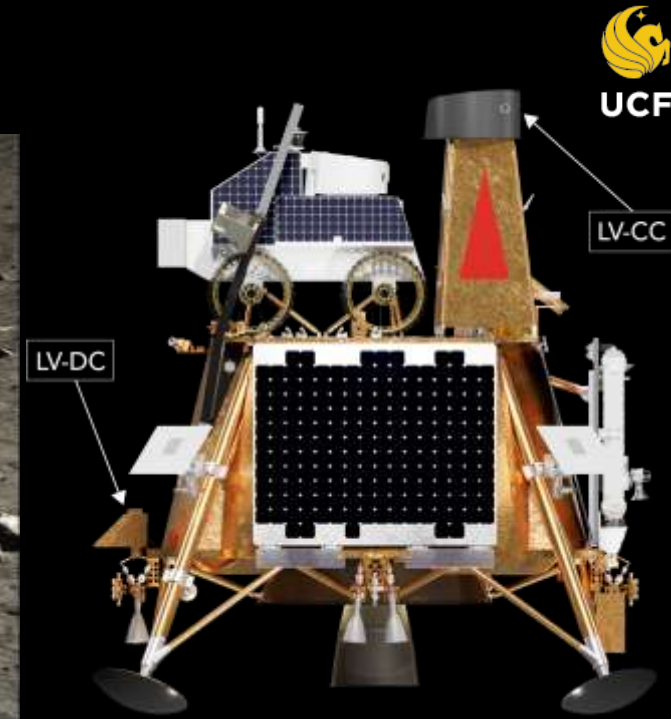


Image credit: Clegg-Watkins et al. 2016



Image credit: BAE



Image credit: BAE