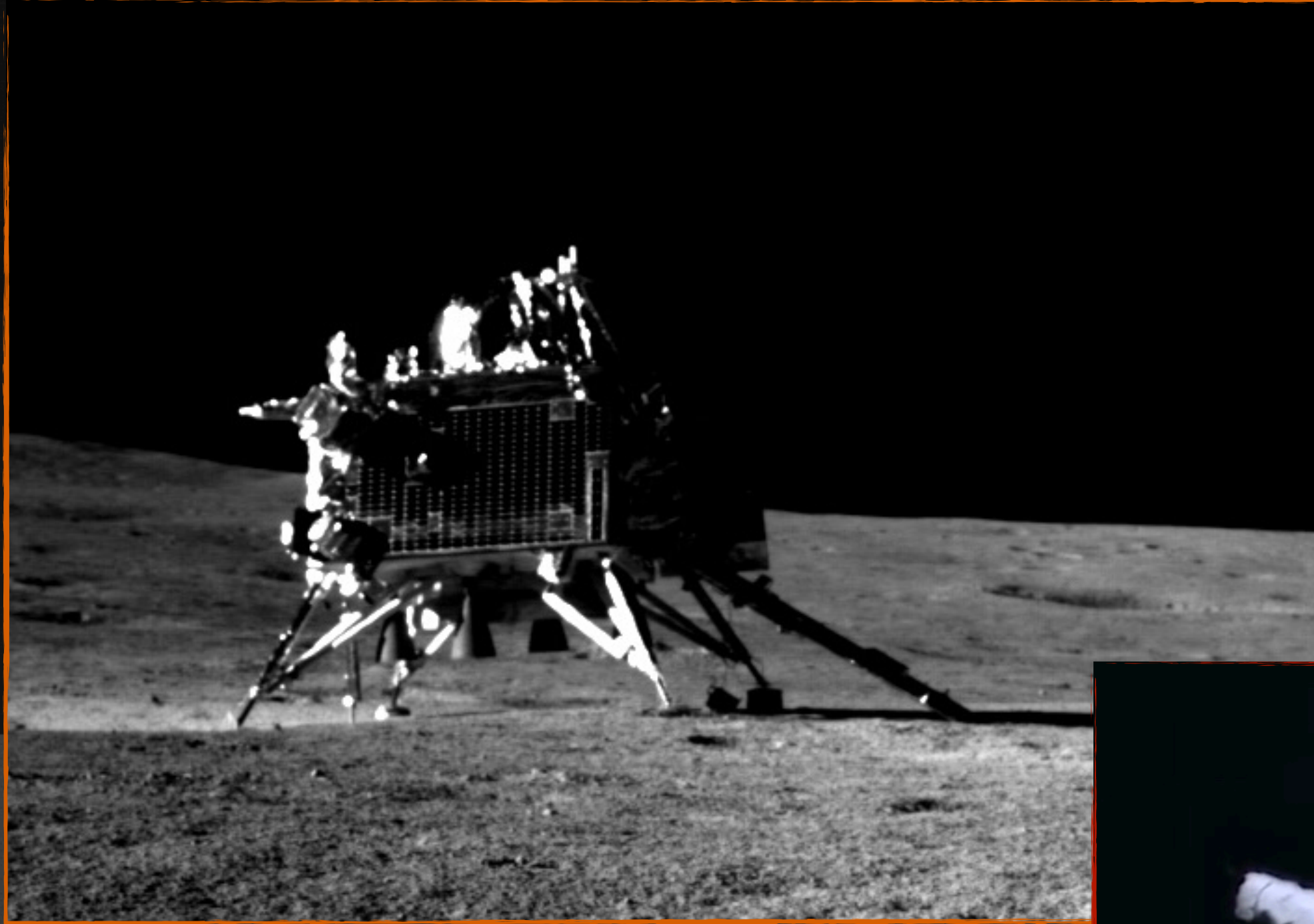


Crewed Moon exploration | Global perspectives



Jatan Mehta

Website: jatan.space



JATAN MEHTA
jatan.space



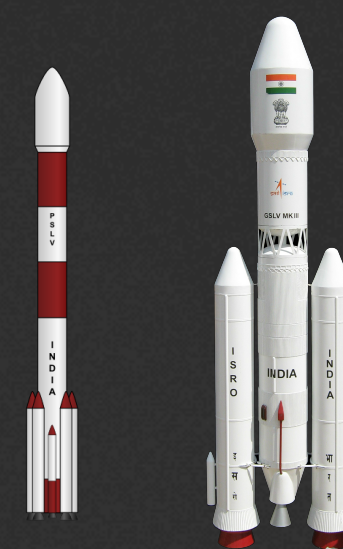
*Author,
Moon Monday*

*Globally published
space writer*

*Author, Indian
Space Progress*



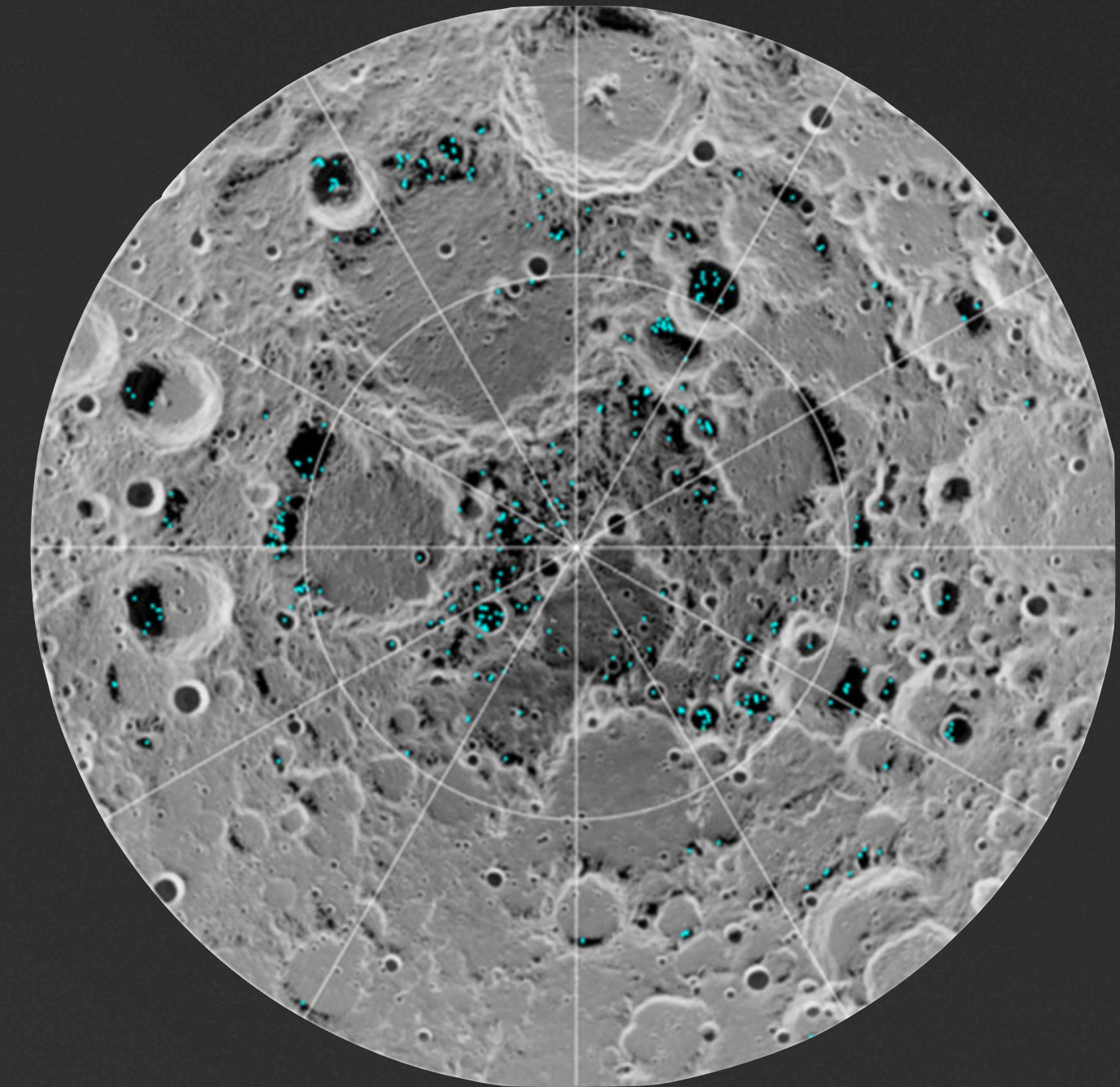
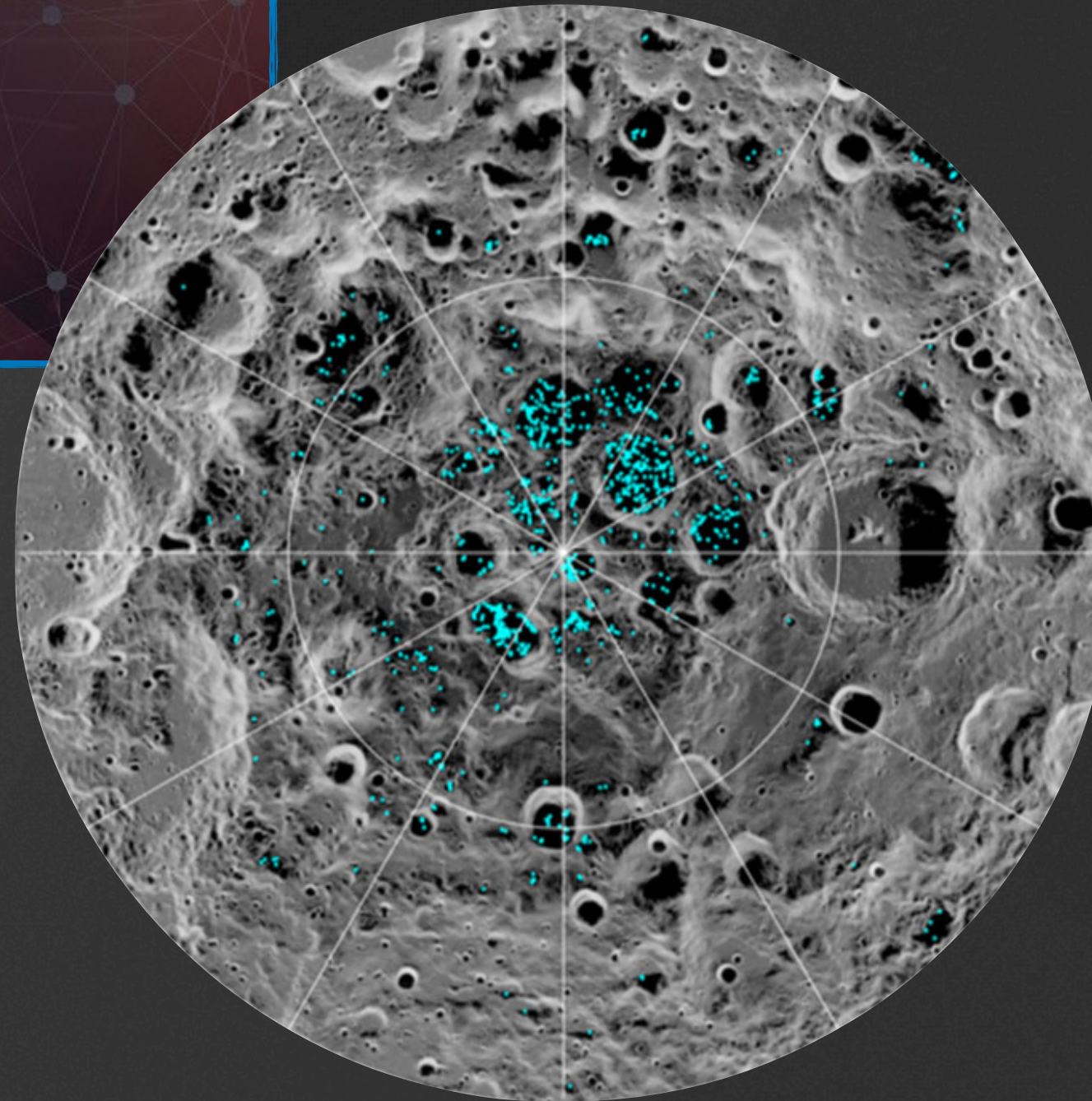
The world's only newsletter
dedicated to covering worldwide
lunar exploration updates



A monthly report on Indian space—from
space technology, launch & exploration to
astrophysics & planetary science to
commercial & policy developments and more.

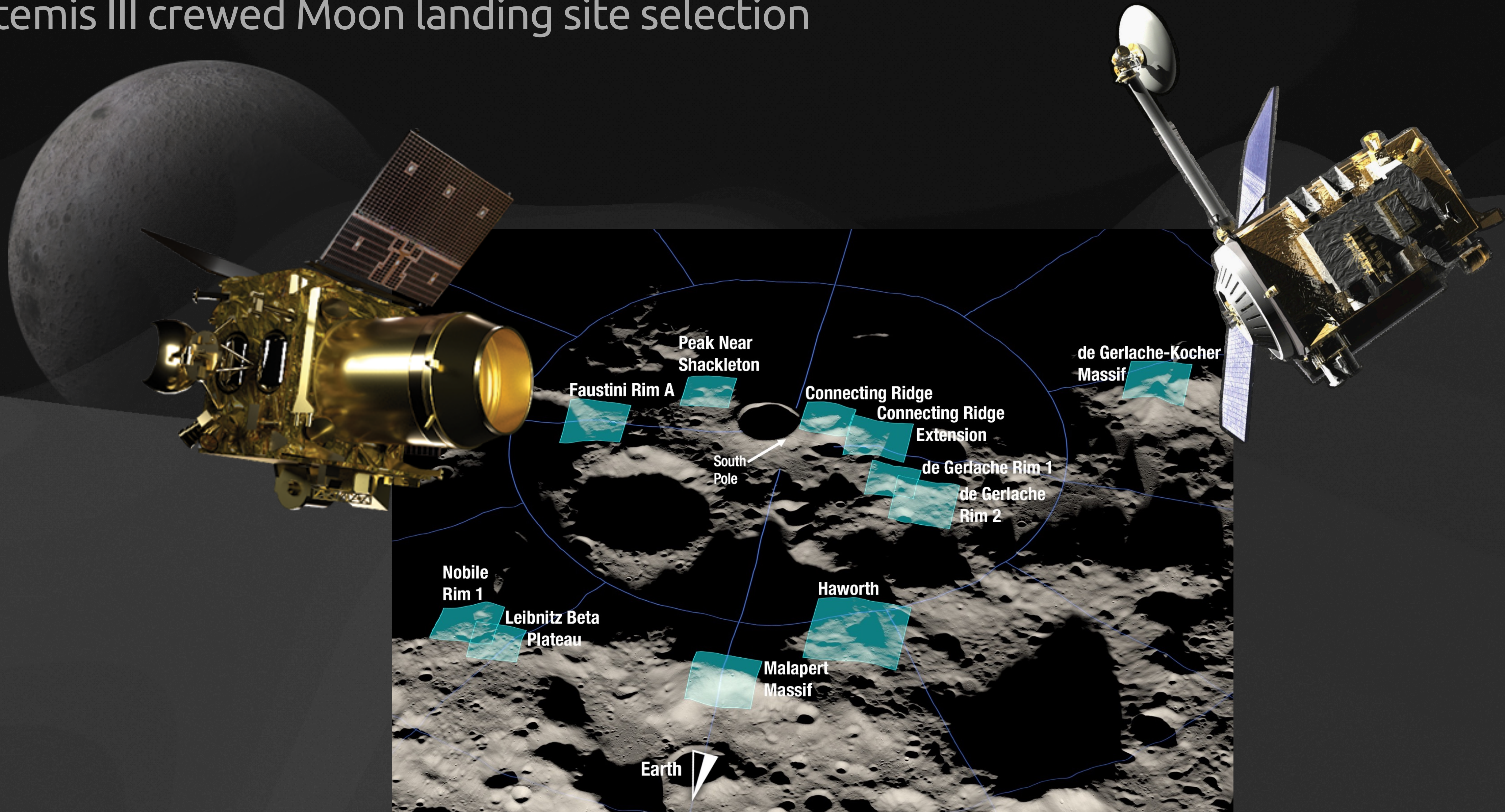
ISRO Chandrayaan 1

Discovered water on the Moon | A tale of international collaboration



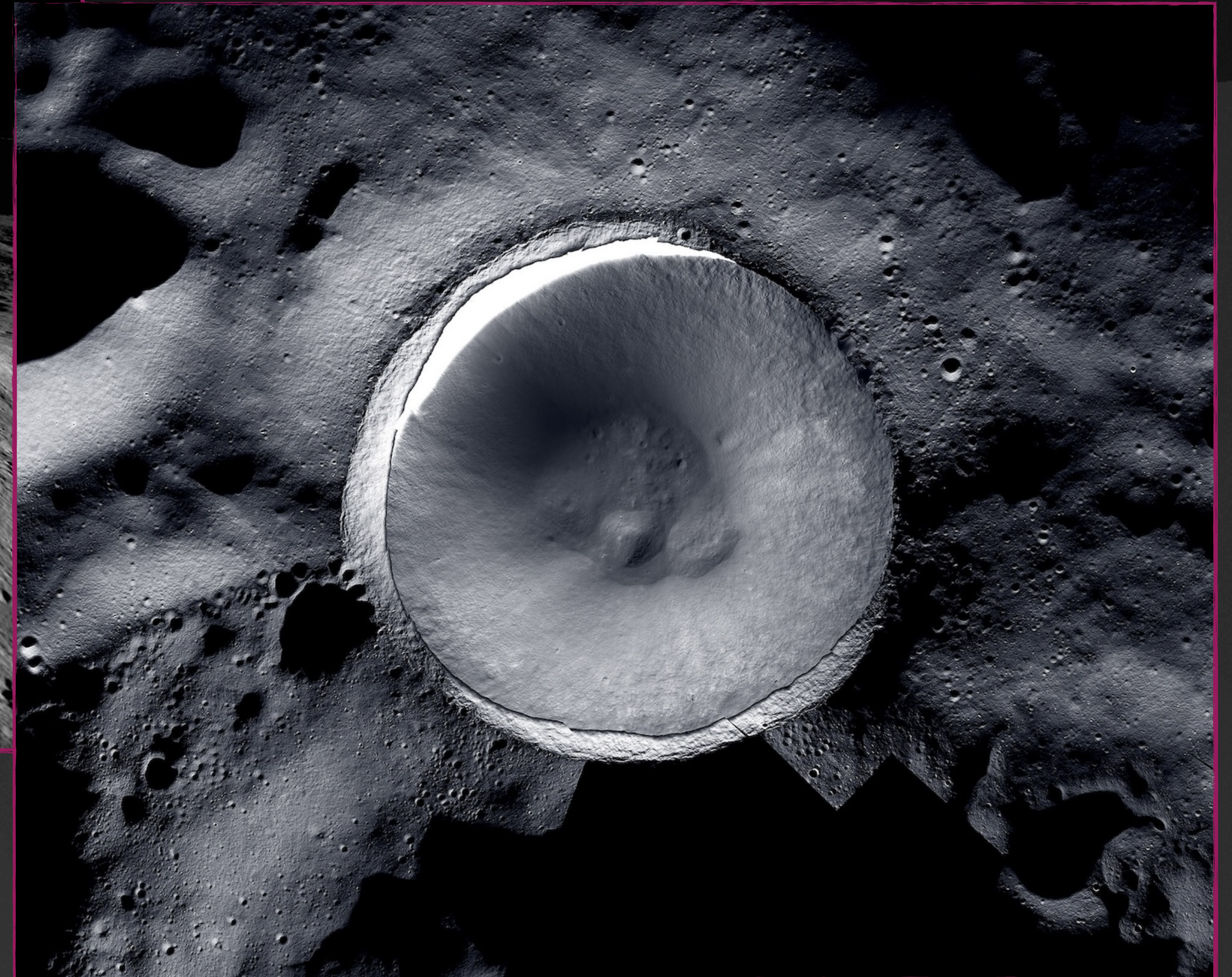
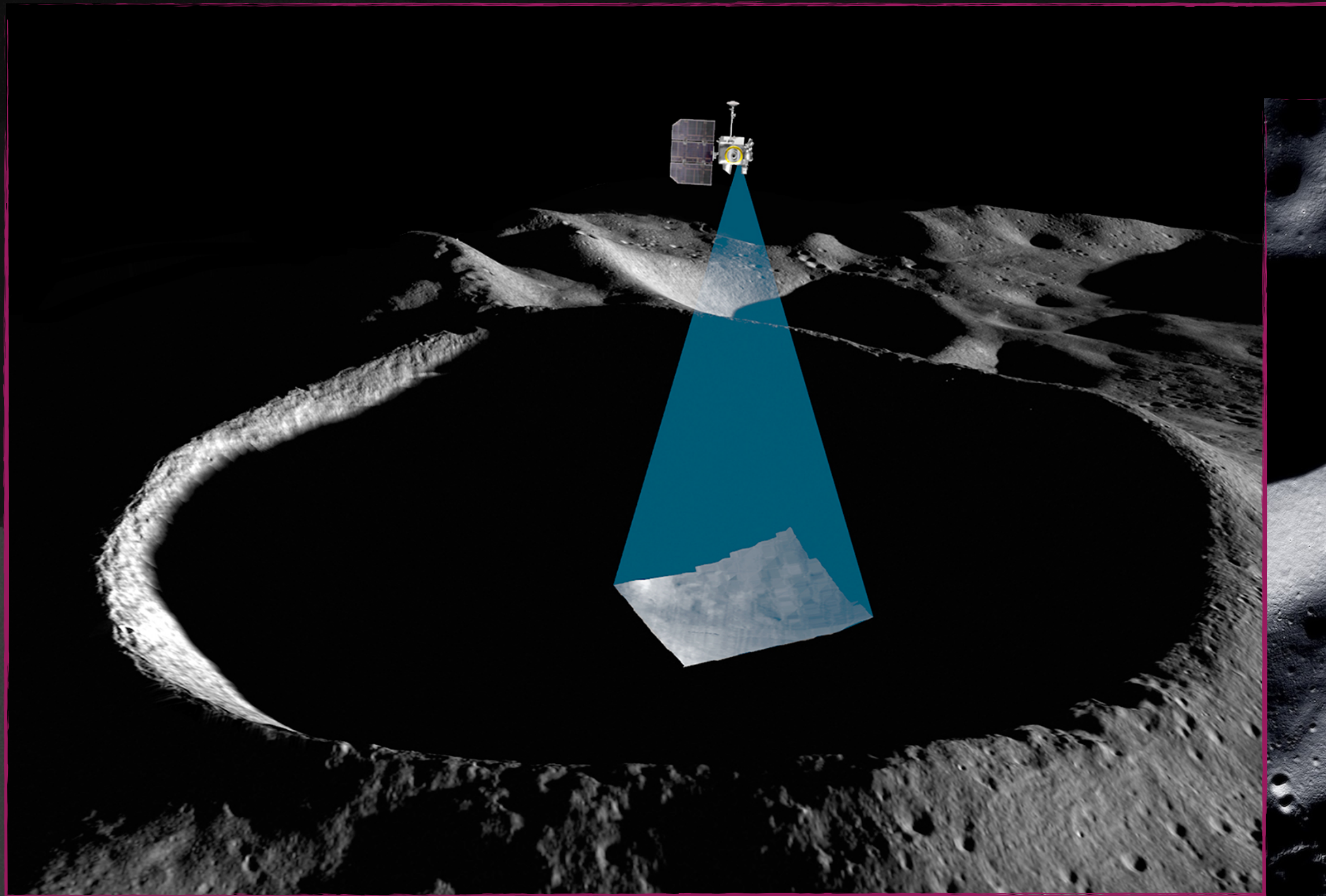
ISRO Chandrayaan 2 and NASA LRO collaboration

Artemis III crewed Moon landing site selection



South Korea's KPLRO and NASA ShadowCam

“Seeing” permanently shadowed regions on the Moon’s poles



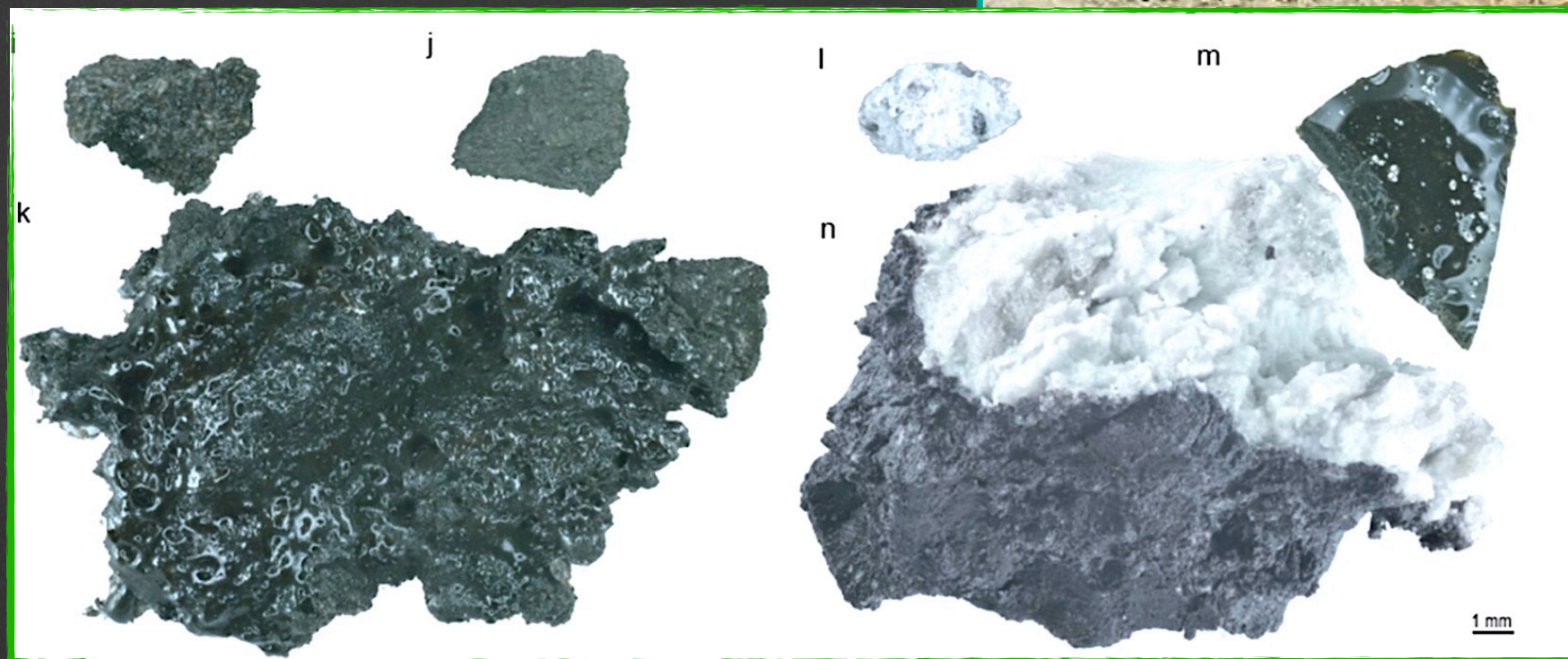
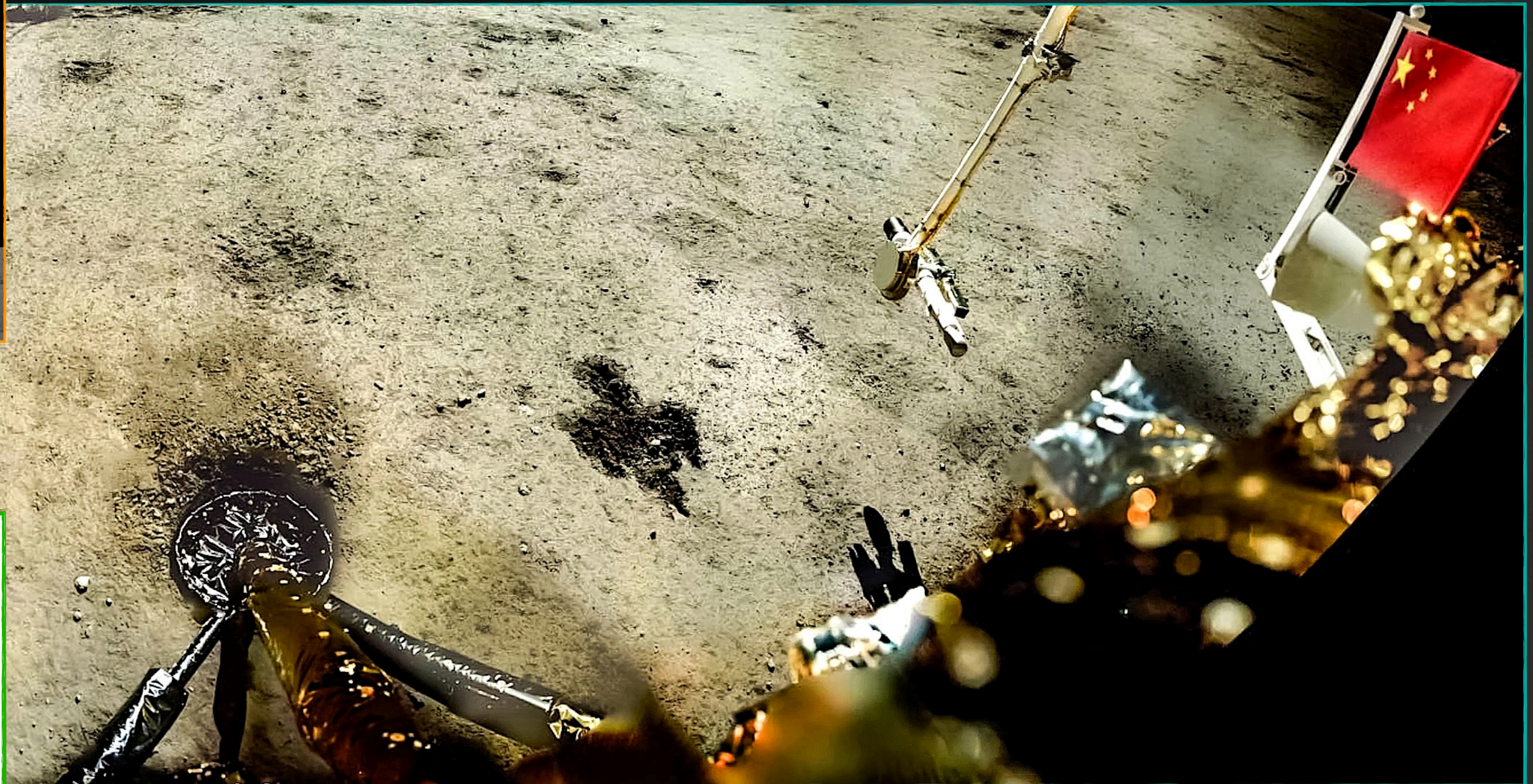
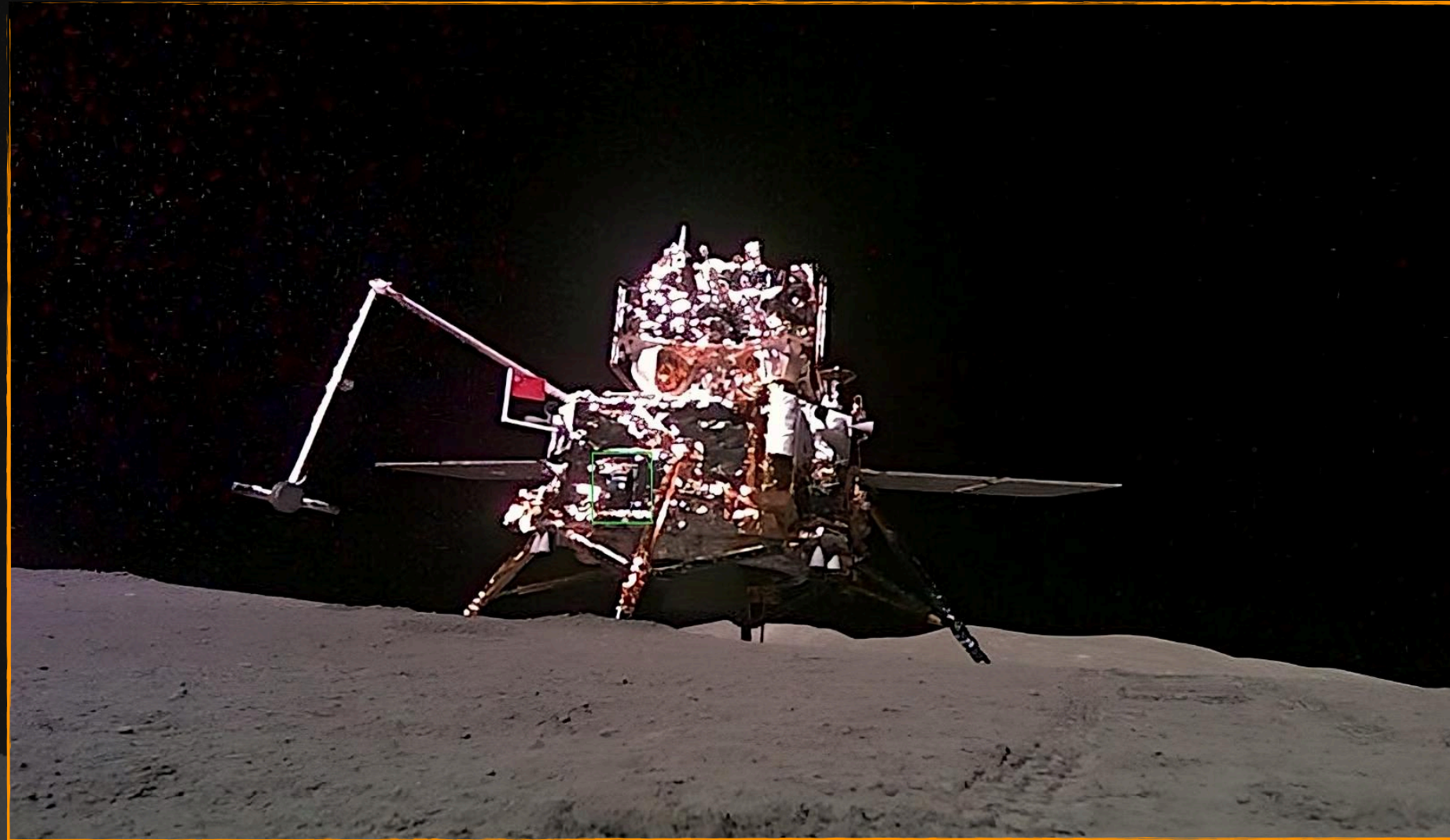
ISRO Chandrayaan 3

The moments of launch and landing



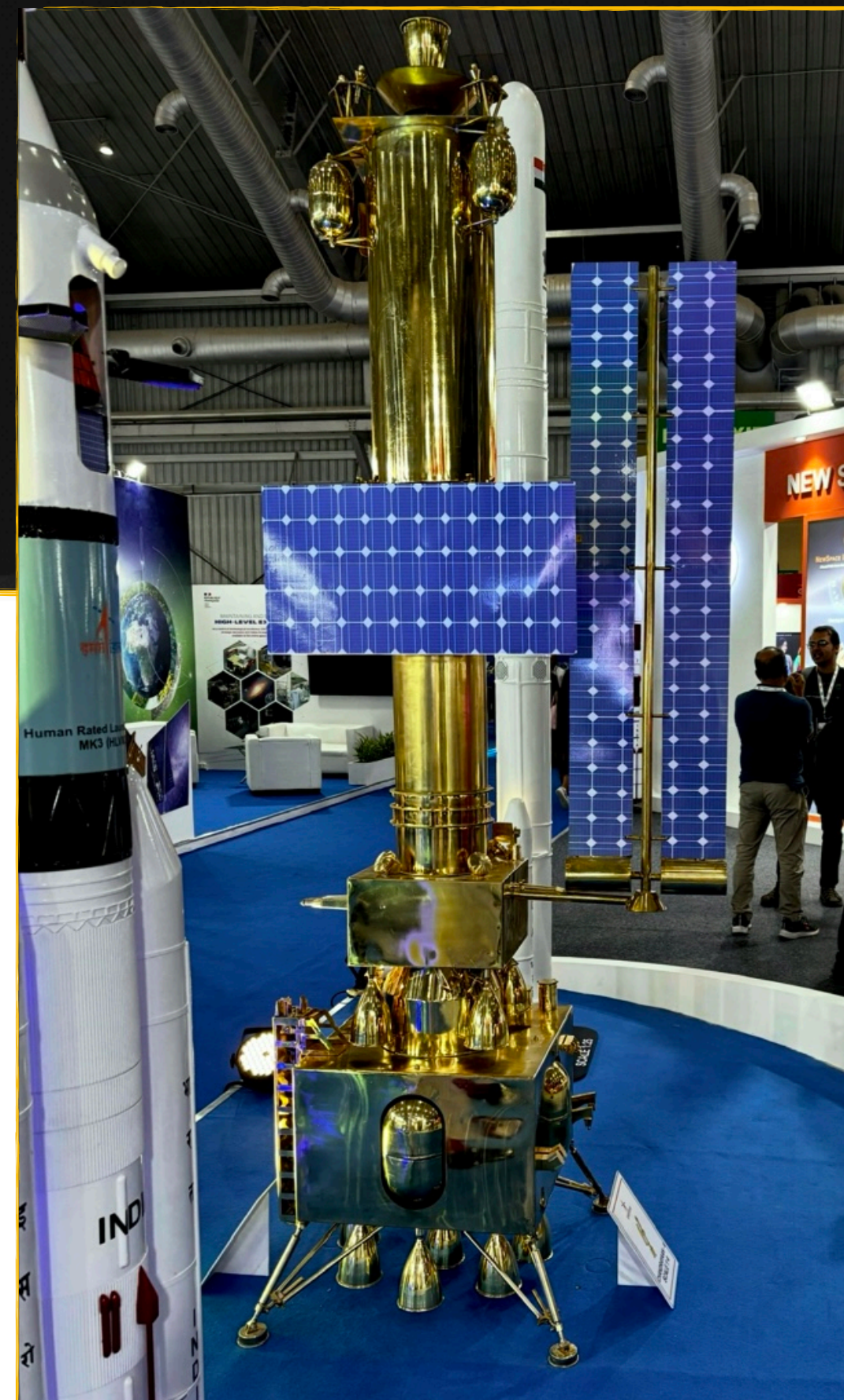
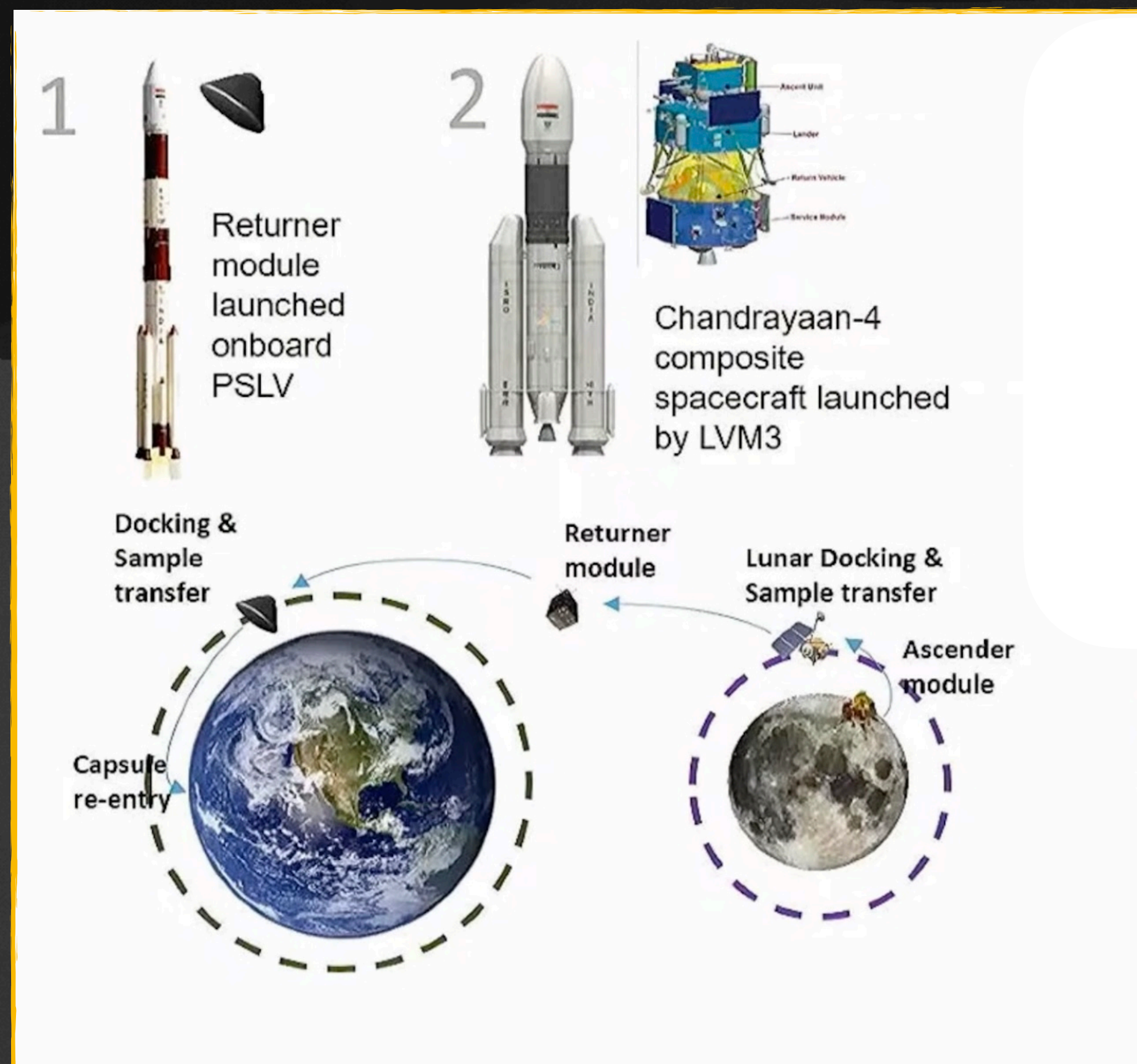
Fresh samples from the Moon!

Chang'e 5 and Chang'e 6 are a huge inspiration



Chandrayaan 4

India's lunar sample return mission

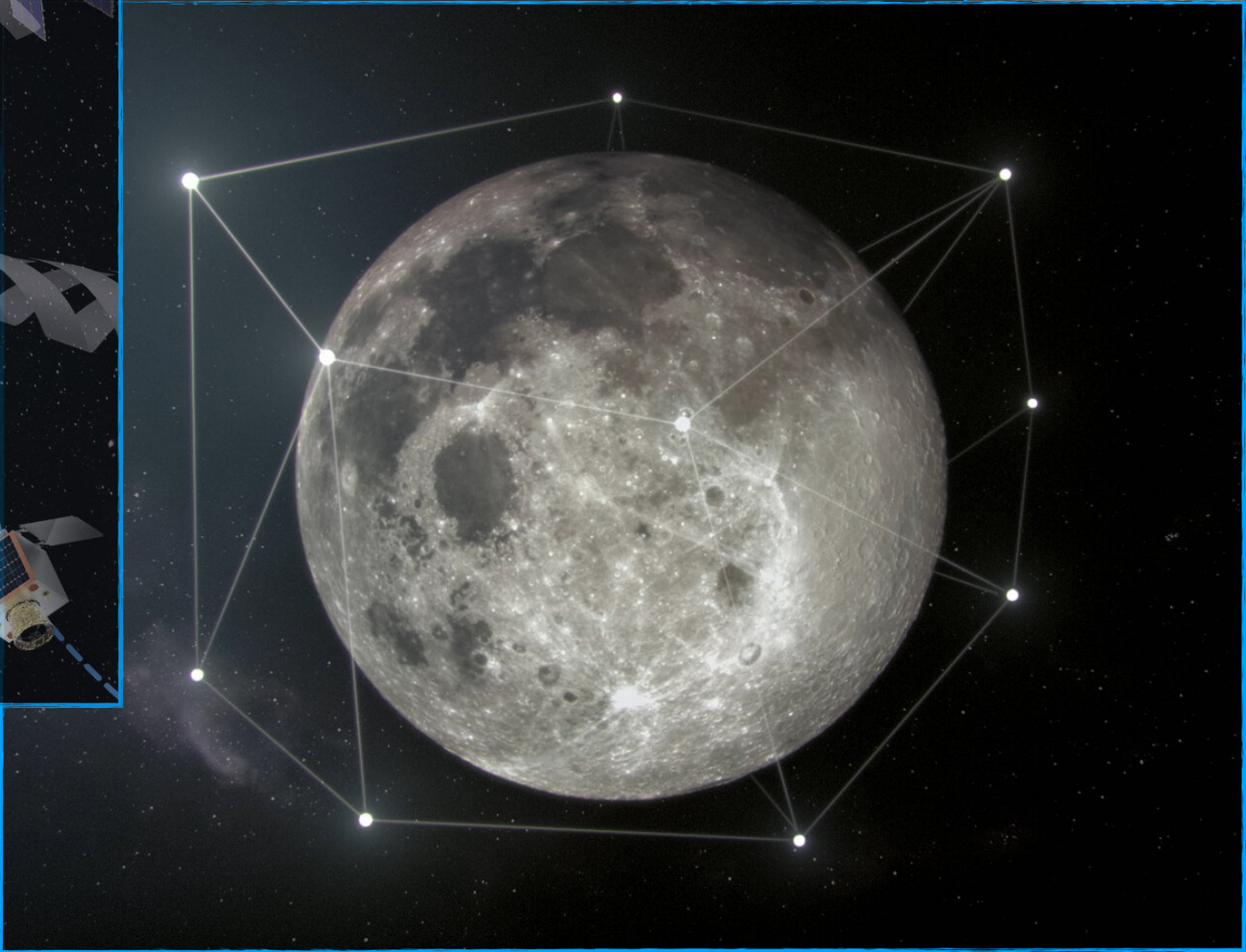
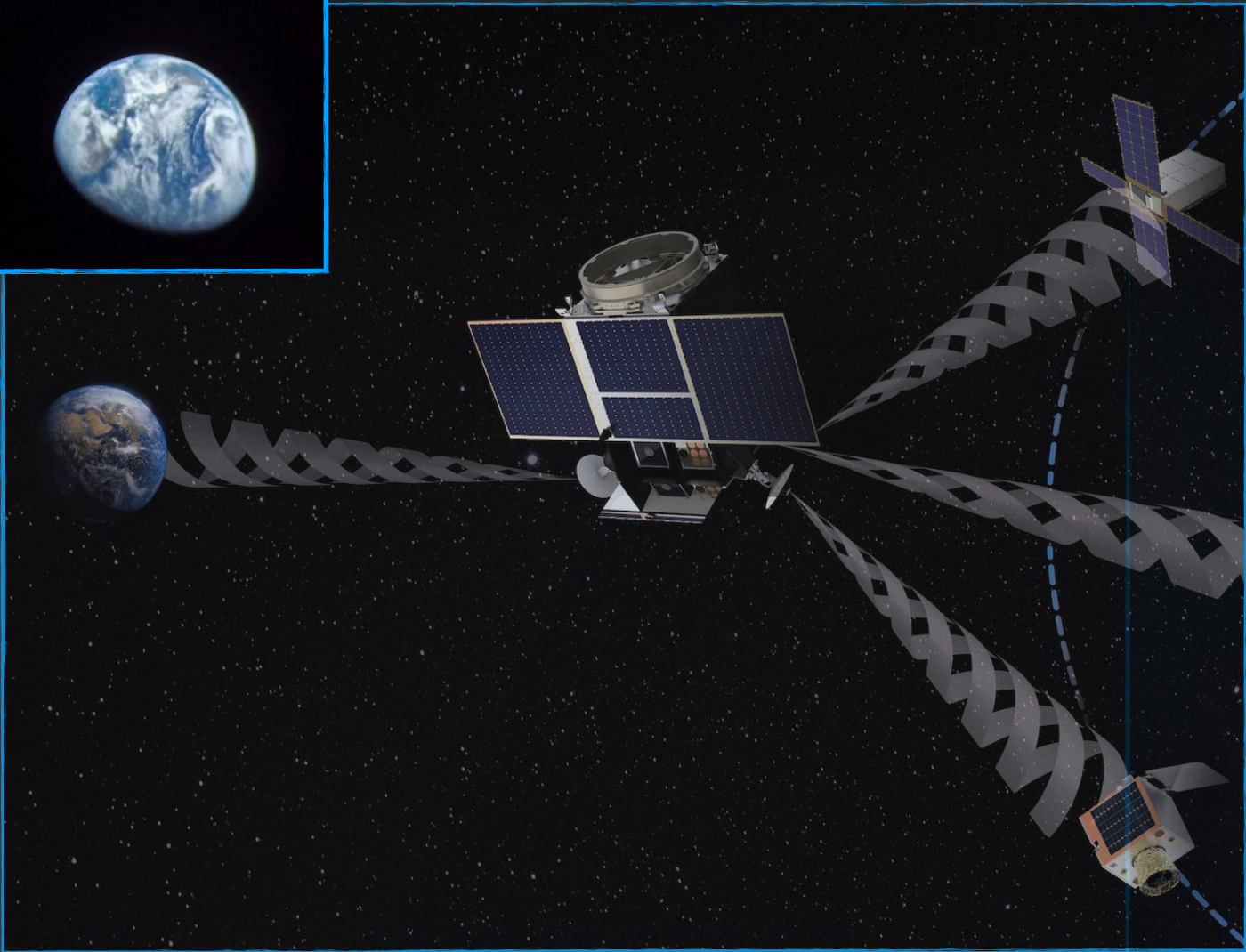
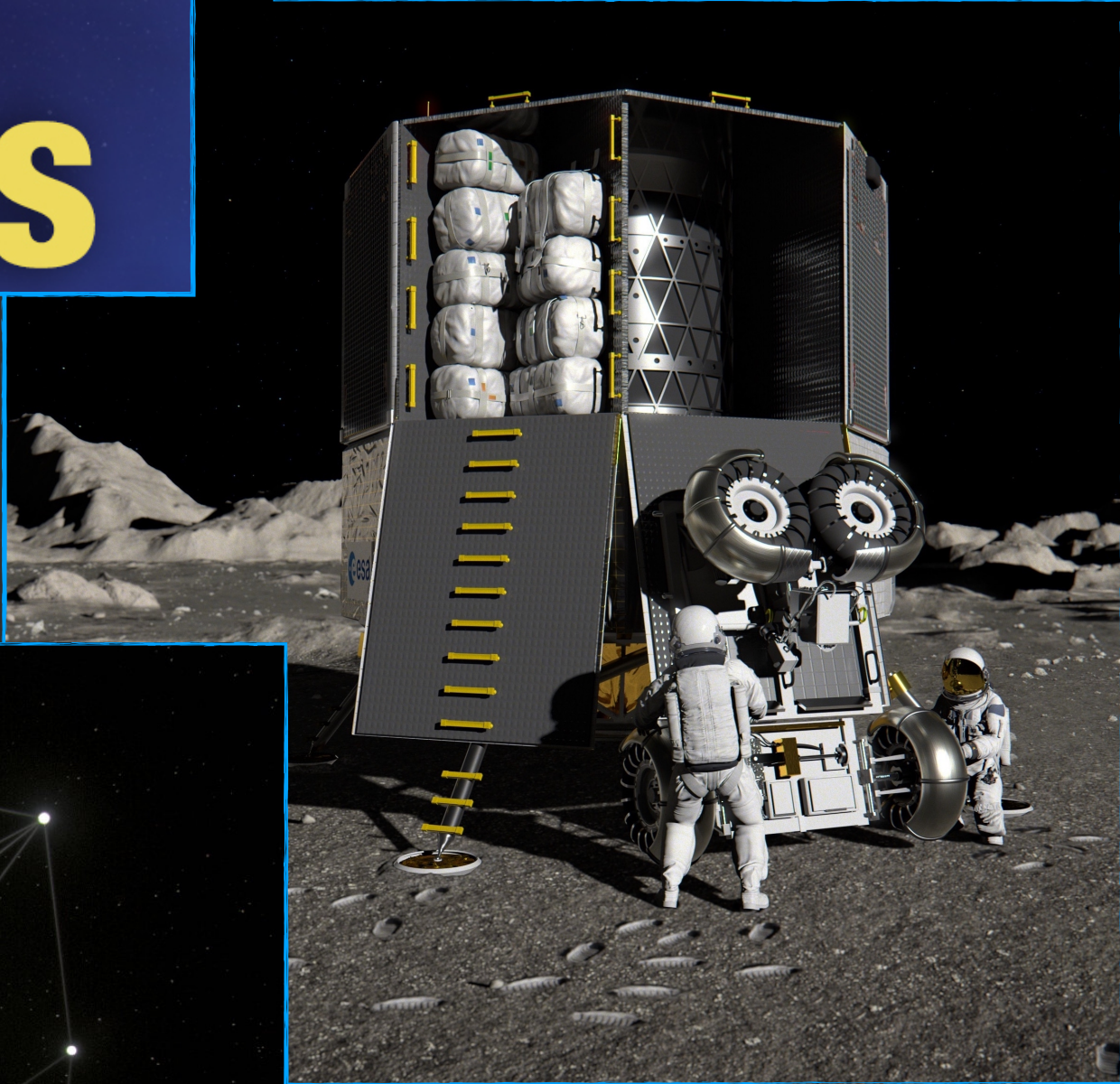
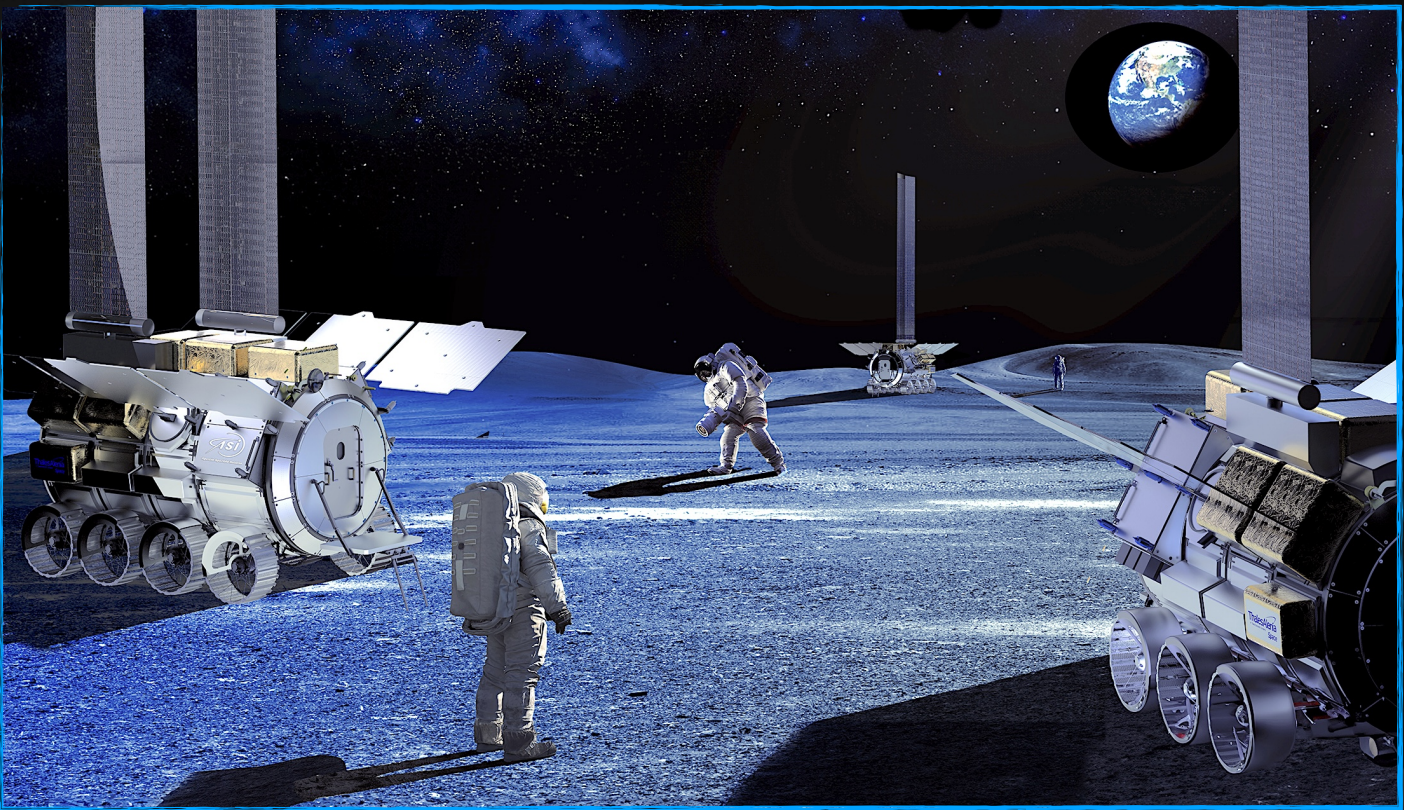


Technology elements

- Lunar Sampler (Robotic Arm)
- Ascender module
- Docking in Lunar / Earth Orbits
- Sample transfer
- Return & re-entry

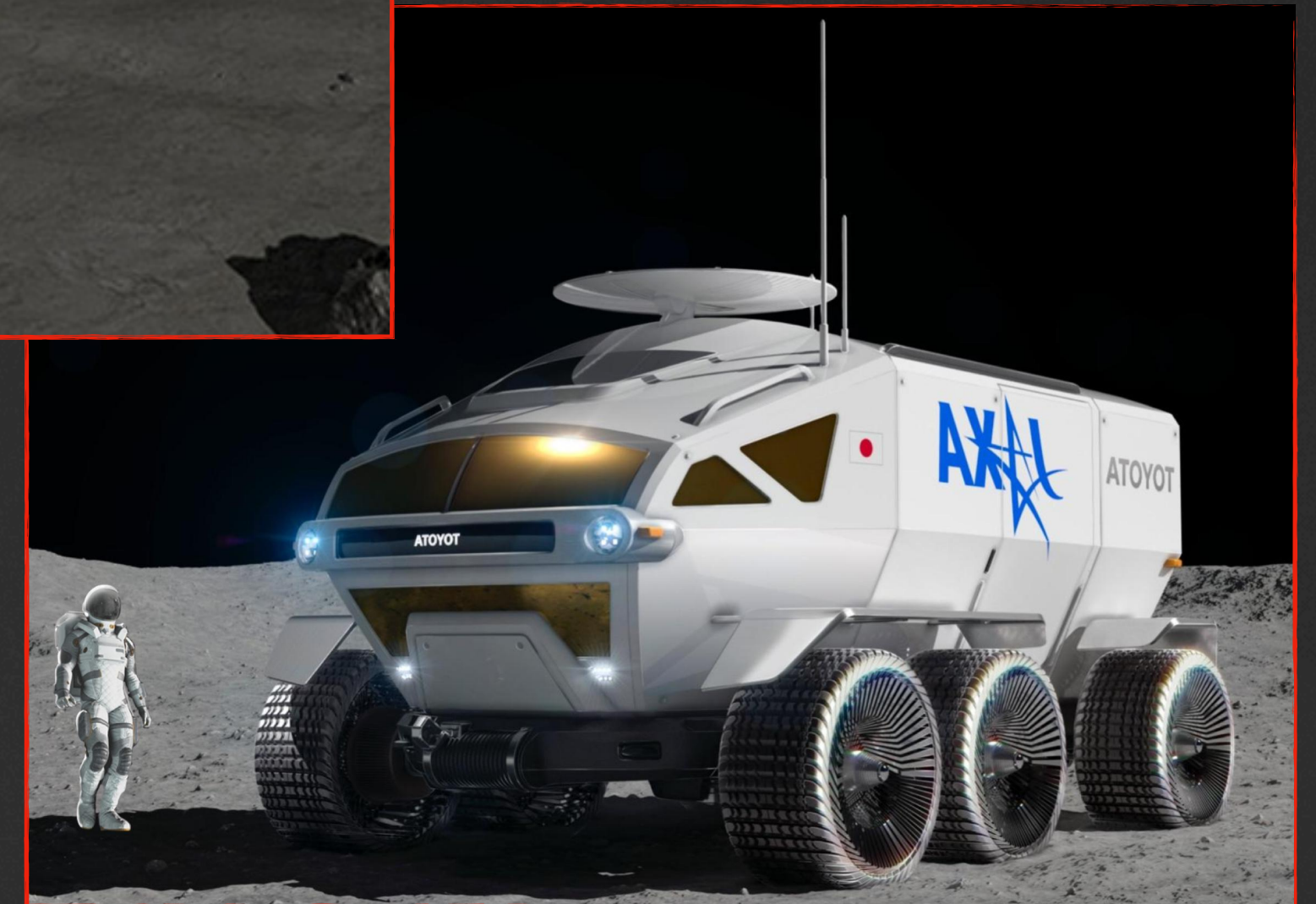
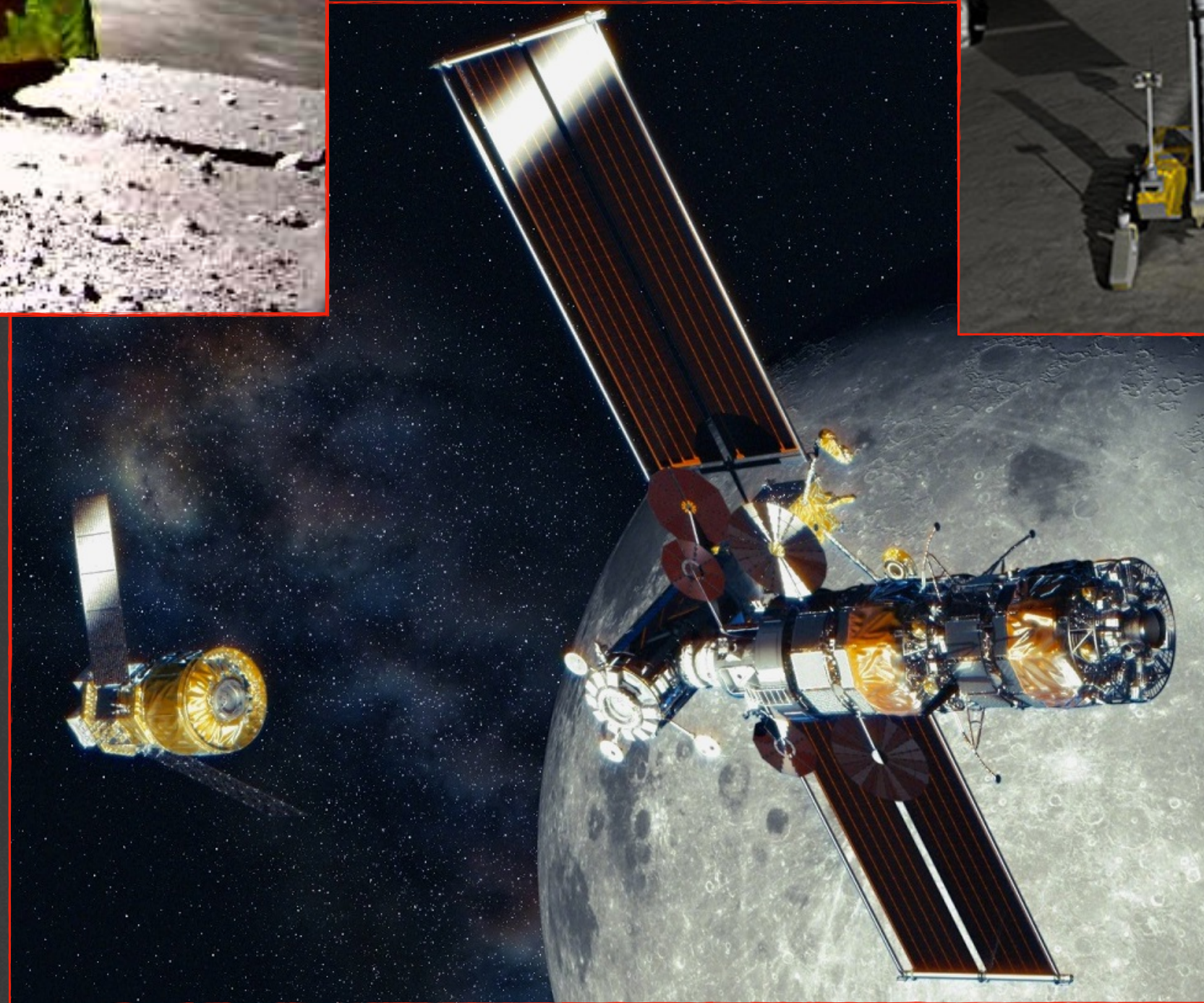
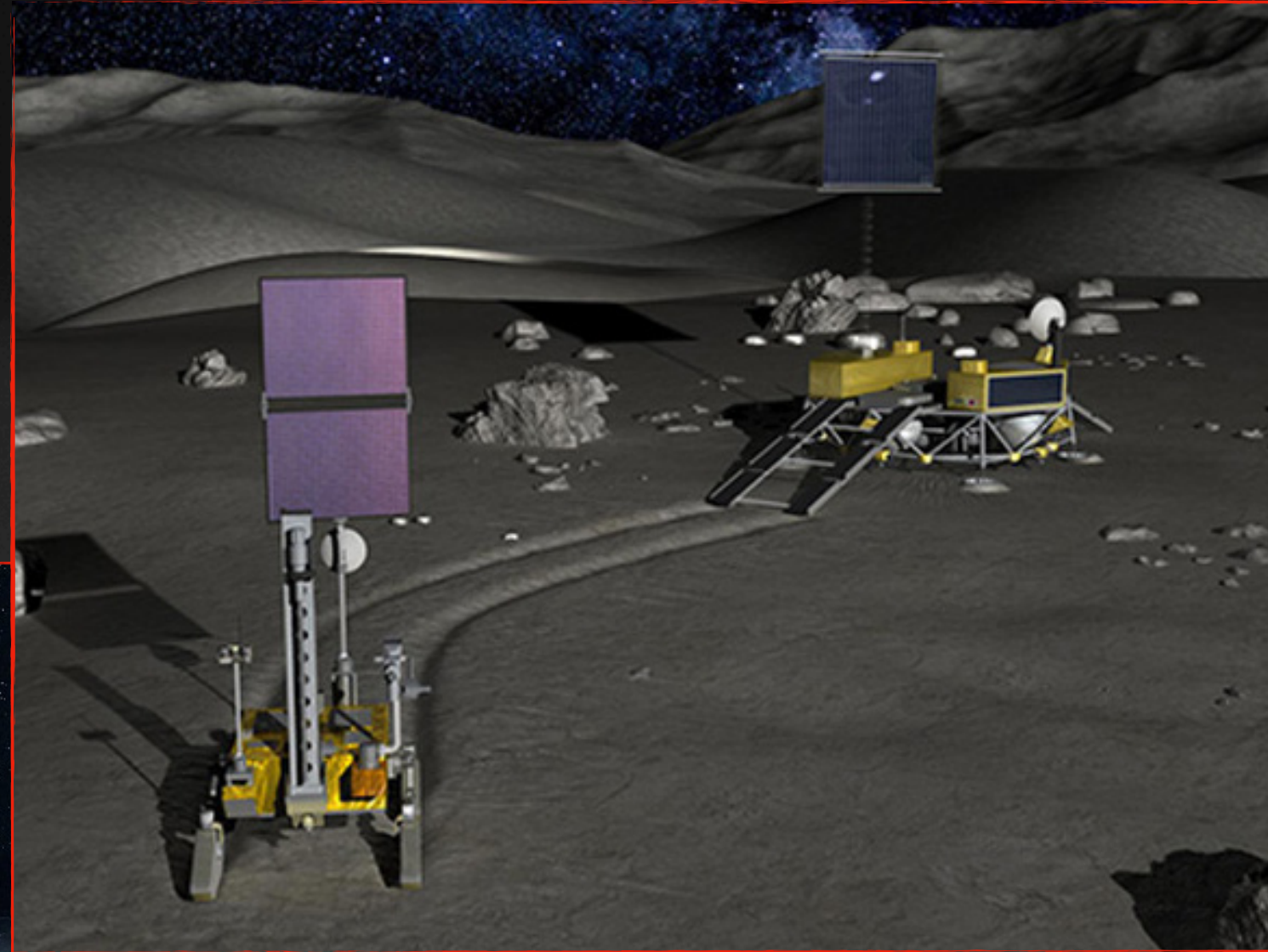
ESA's ambition for Luna

Play a key supporting role in Artemis



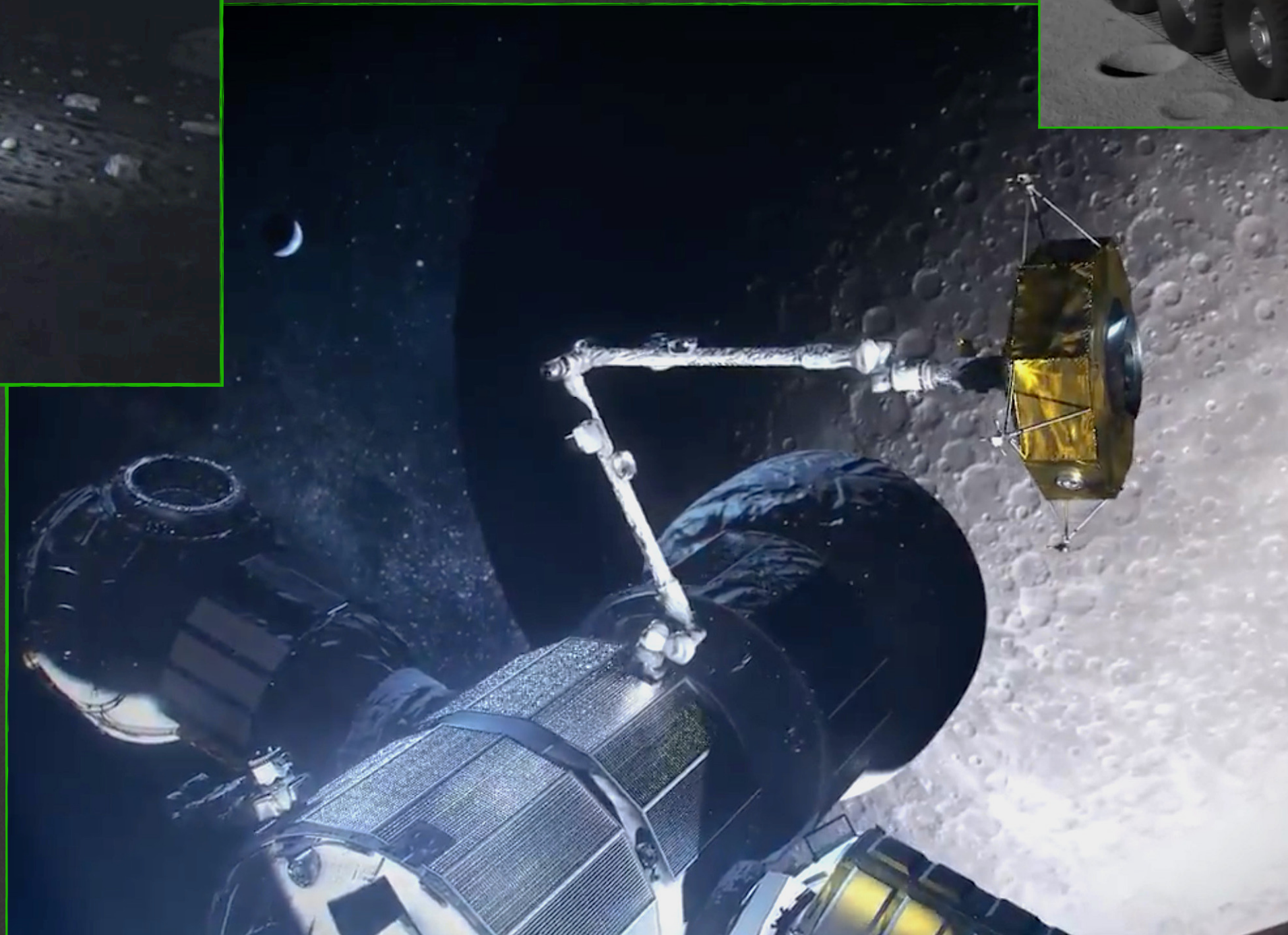
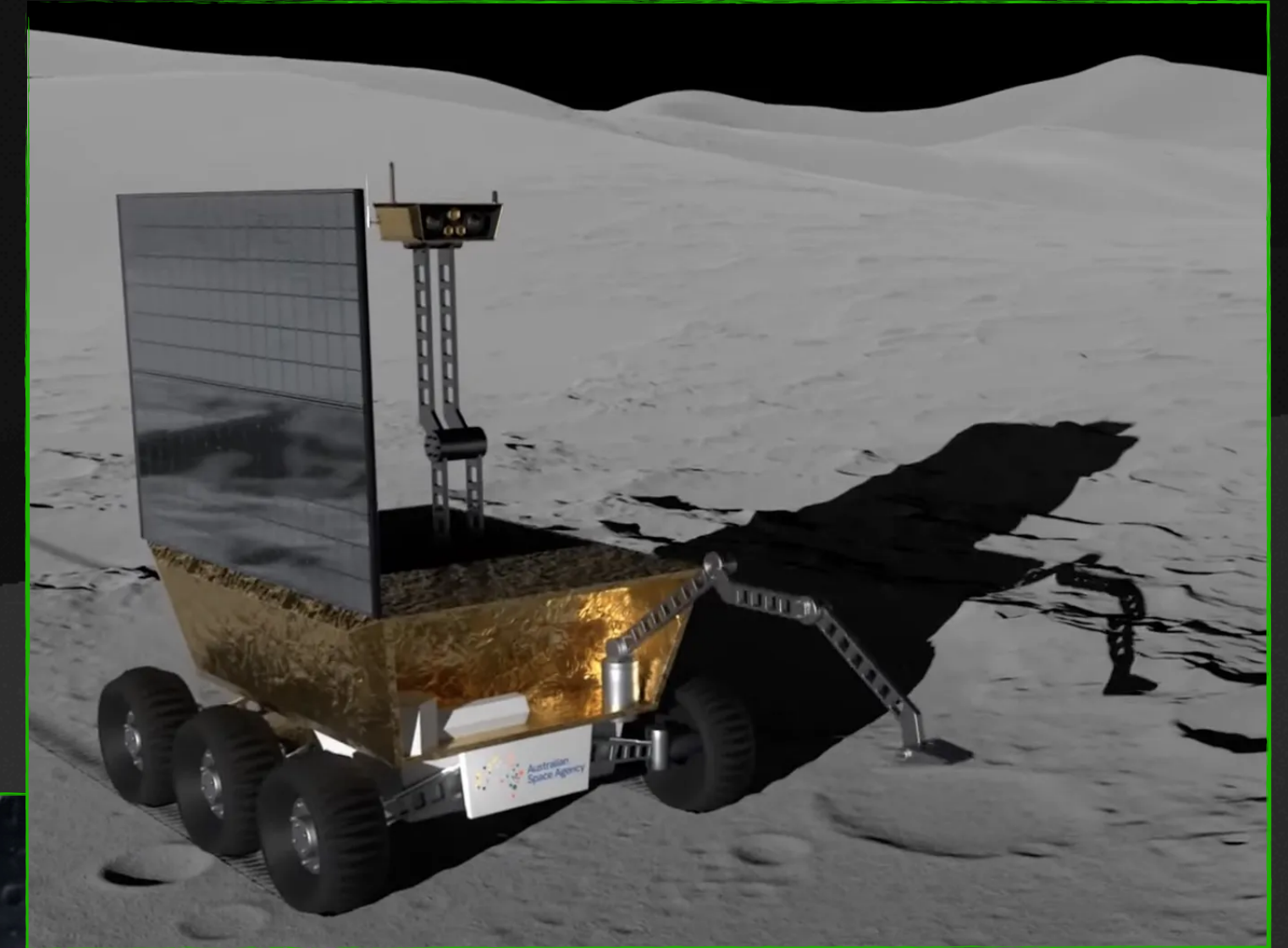
Japan to extend crewed missions

To advance long-term human exploration of our Moon



The rise of autonomous lunar technologies

From Canada, Australia, and more



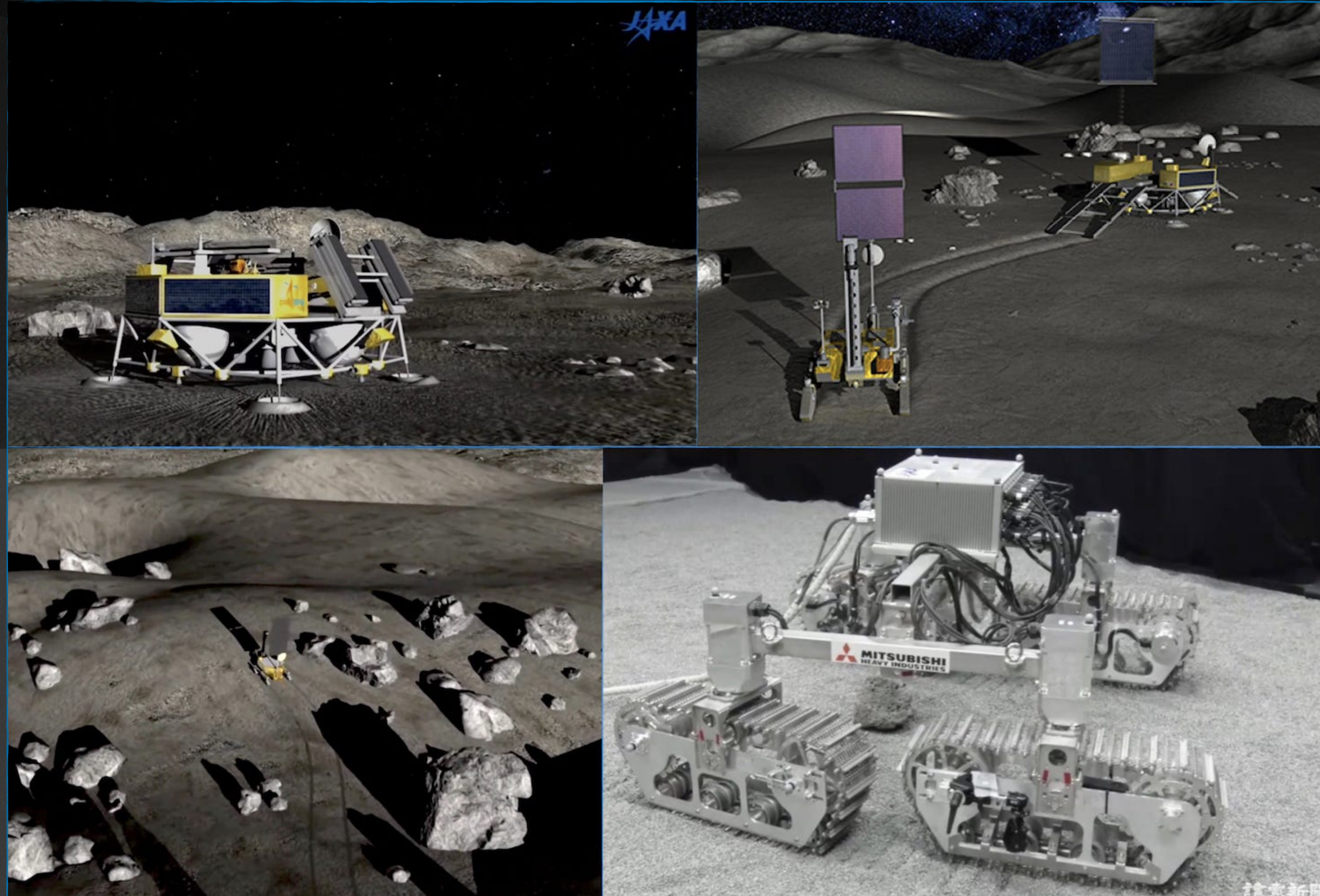
The kind of future we want

ILRS, Artemis Moonbase, and more.



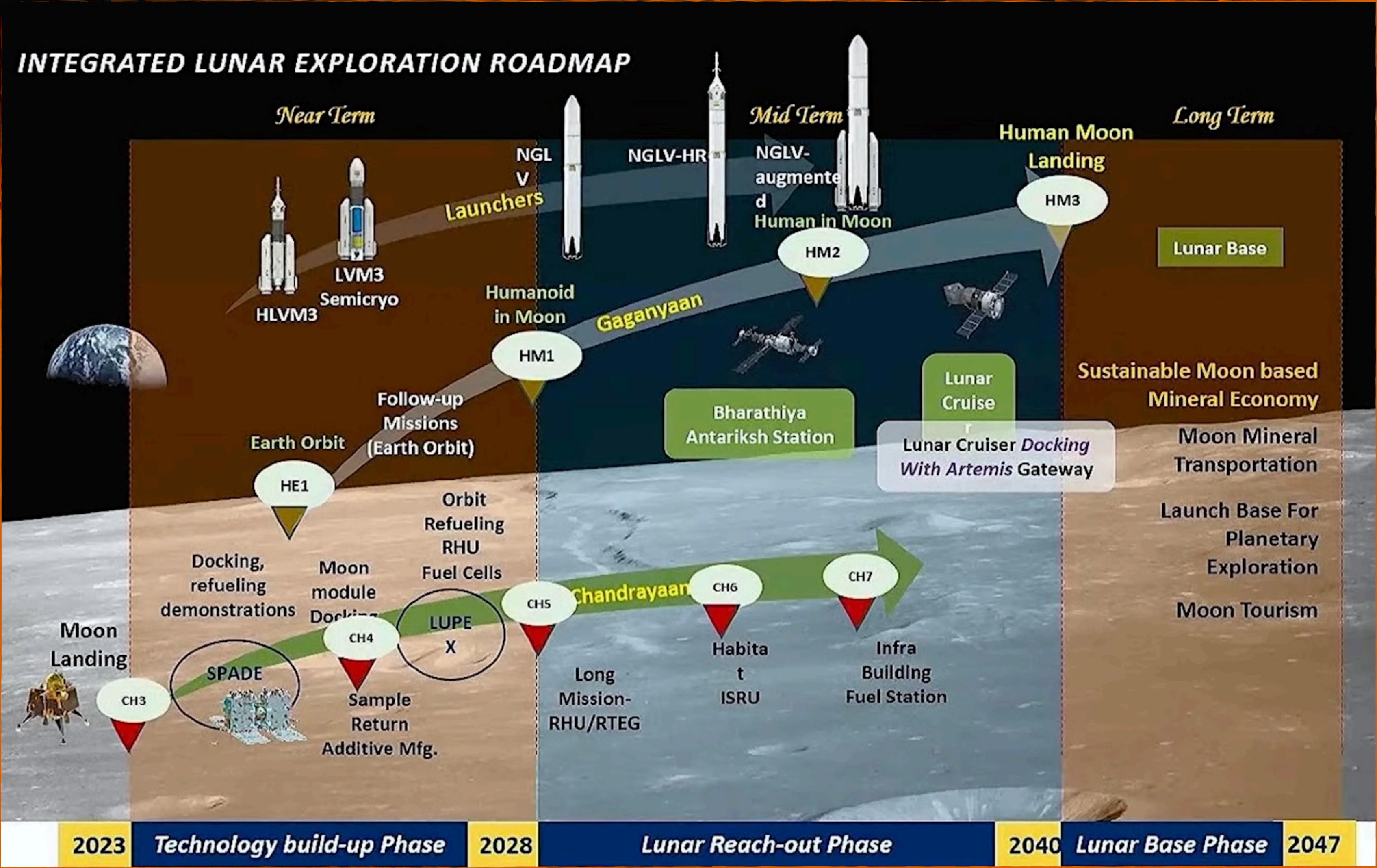
JAXA-ISRO LUPEX mission

Directly study and understand water ice at the Moon's south pole



Notional ISRO roadmap to a human on the Moon

The one where Gaganyaan and Chandrayaan converge



Too much is happening even for people in the space industry to catch up!
That's why I've been writing the Moon Monday blog+newsletter for over 4 years now

Private

jatan.space/tag/moon-monday/

Moon Monday #204: The one with no tying theme, like a VIPER-less Artemis

Read to the end to see a reader gift made of processed lunar regolith. 🍷

Dec 2, 2024

Moon Monday #203: Artemis updates, China and Luna, ESA<>JAXA, and more

Thank you for having signed up for my no-award winning Moon Monday blog+newsletter! Its motivation was to exist because nothing like it did to capture the...

Nov 25, 2024

Moon Monday #202: A bao-burrito-bhel of global lunar updates

Dating farside volcanic samples, awaiting the next wave of landers, and disliking opaque orbital operations.

Nov 18, 2024

Moon Monday #201: Scientists can now study exotic Chang'e 6 lunar samples

Plus: New round of Chang'e 5 sample studies, gifting part of the Moon, and Sino-US cooperation

Nov 11, 2024

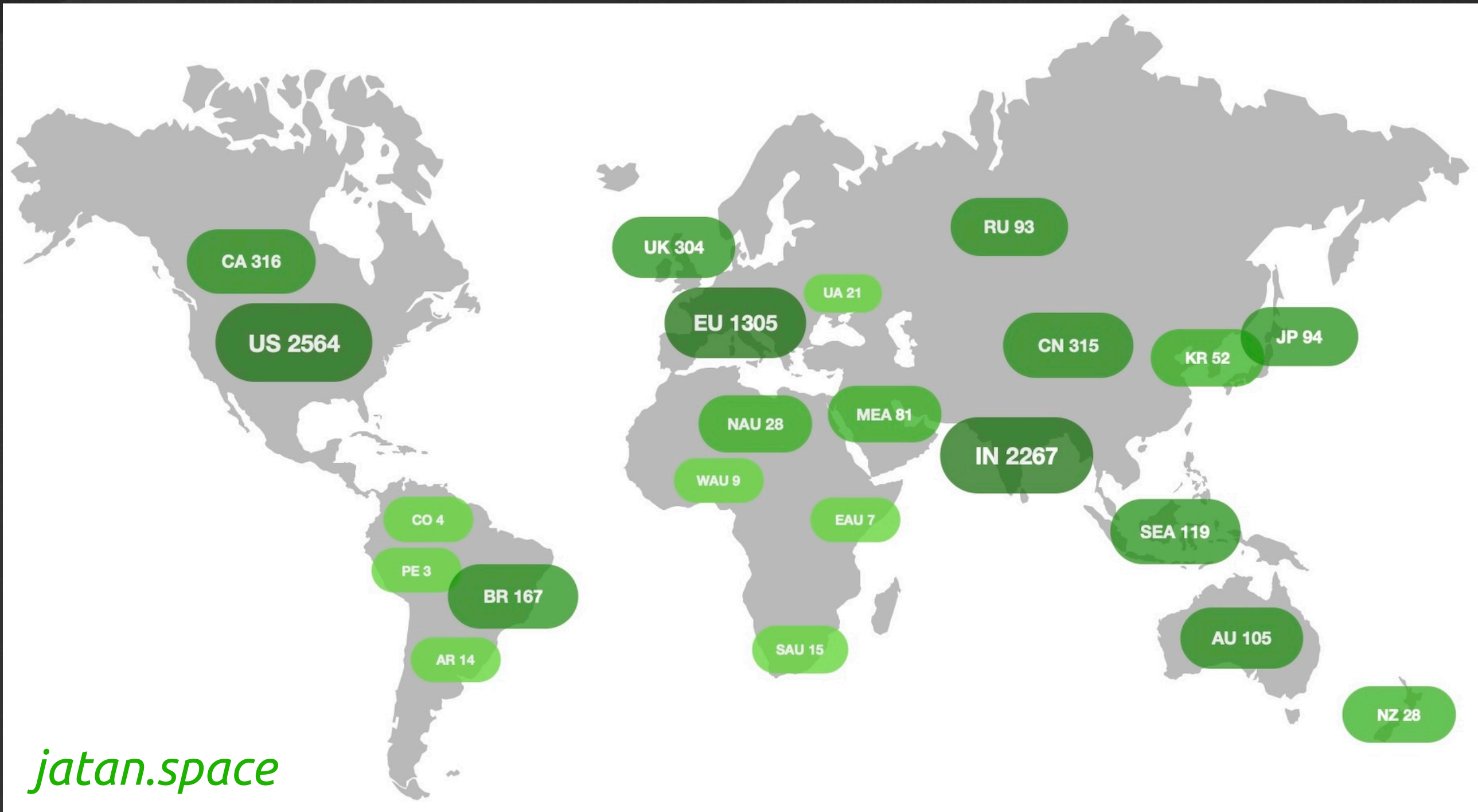


Moon Monday

8,000+ subscribers

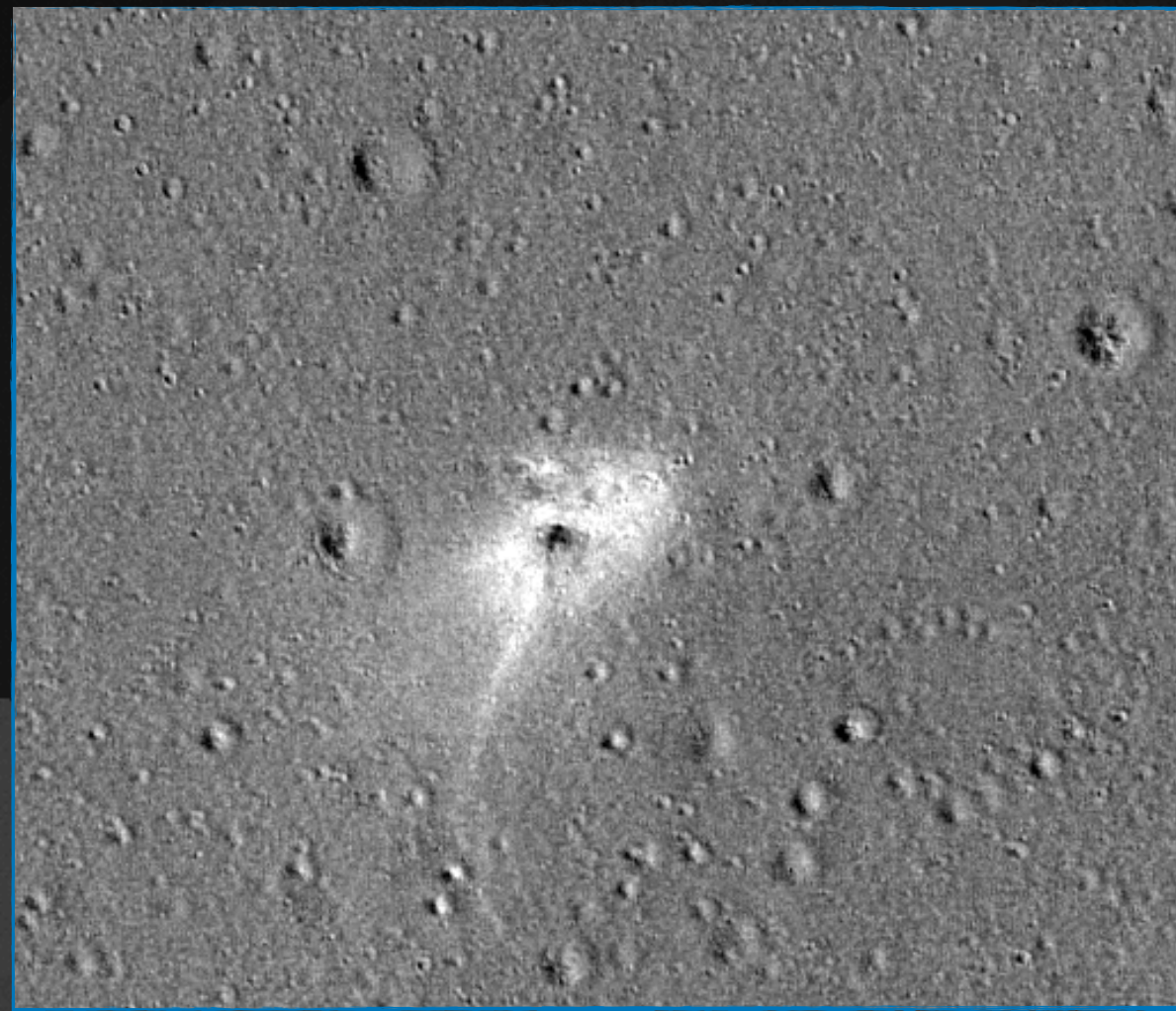


SCAN ME

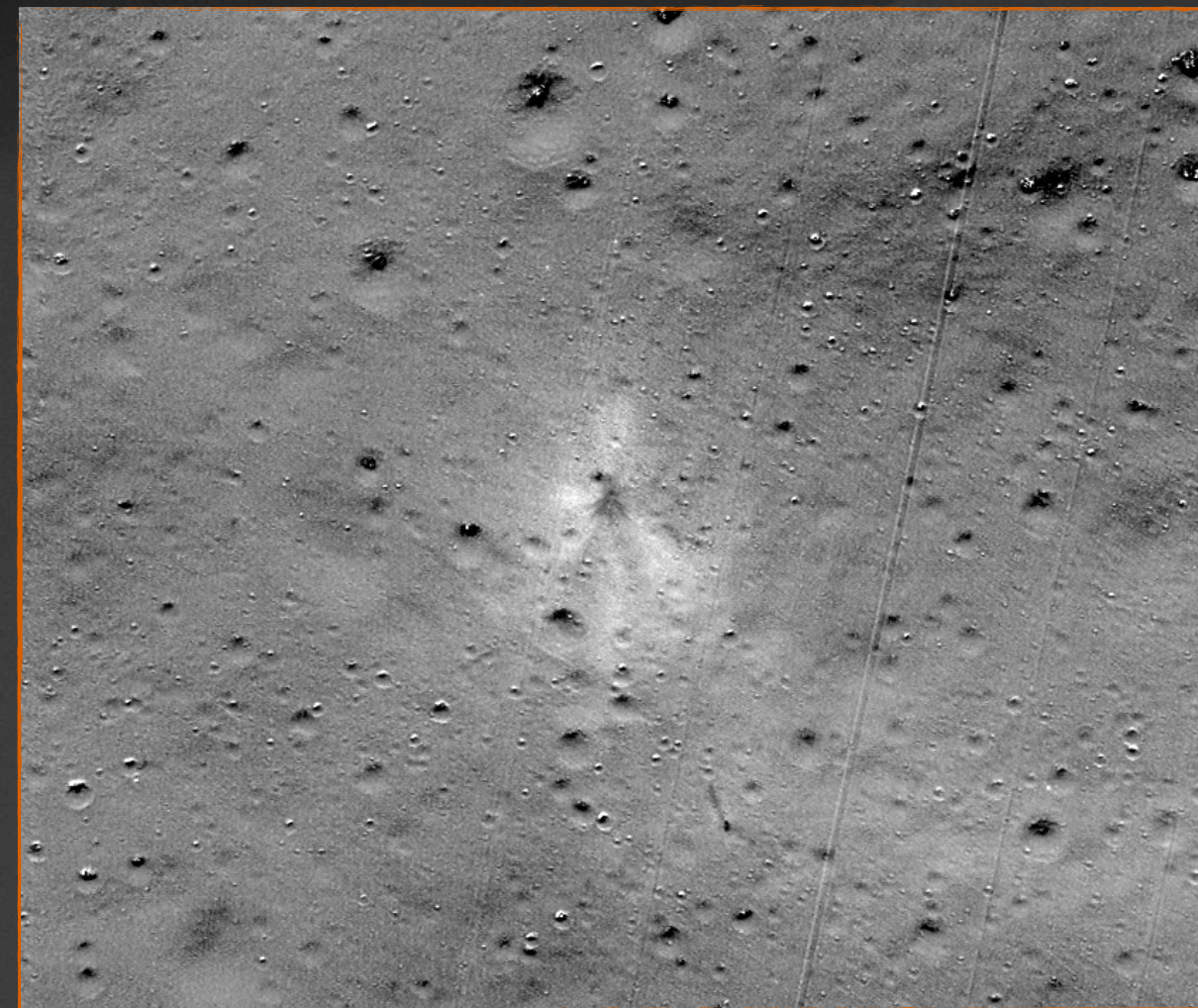


Reminder that Moon missions remain risky

While our lunar ambitions may have risen, orchestrating hundreds to thousands of people and spacecraft parts for any Moon mission remains a complex, resource-intensive endeavor



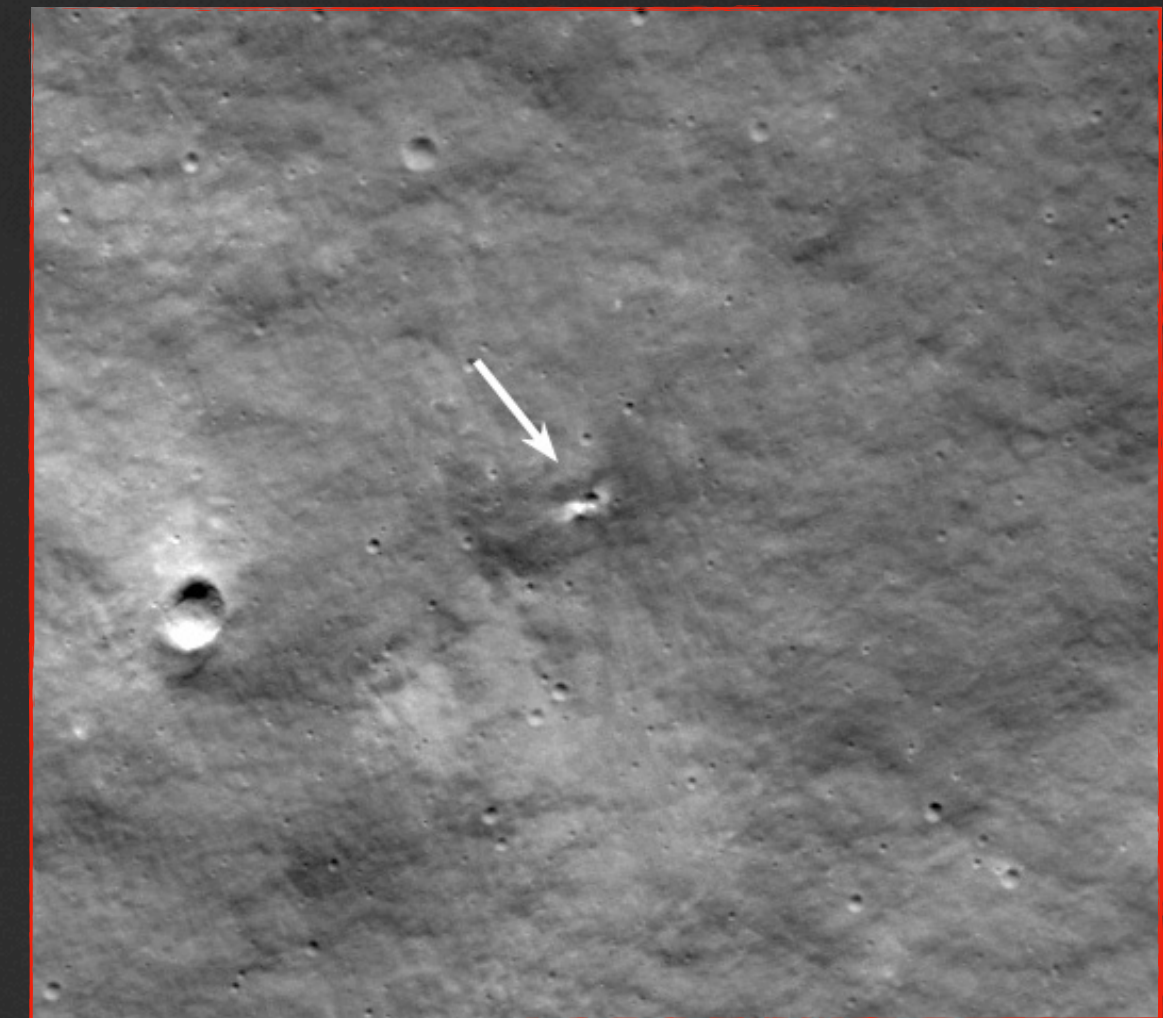
Beresheet crash



Chandrayaan 2 lander crash

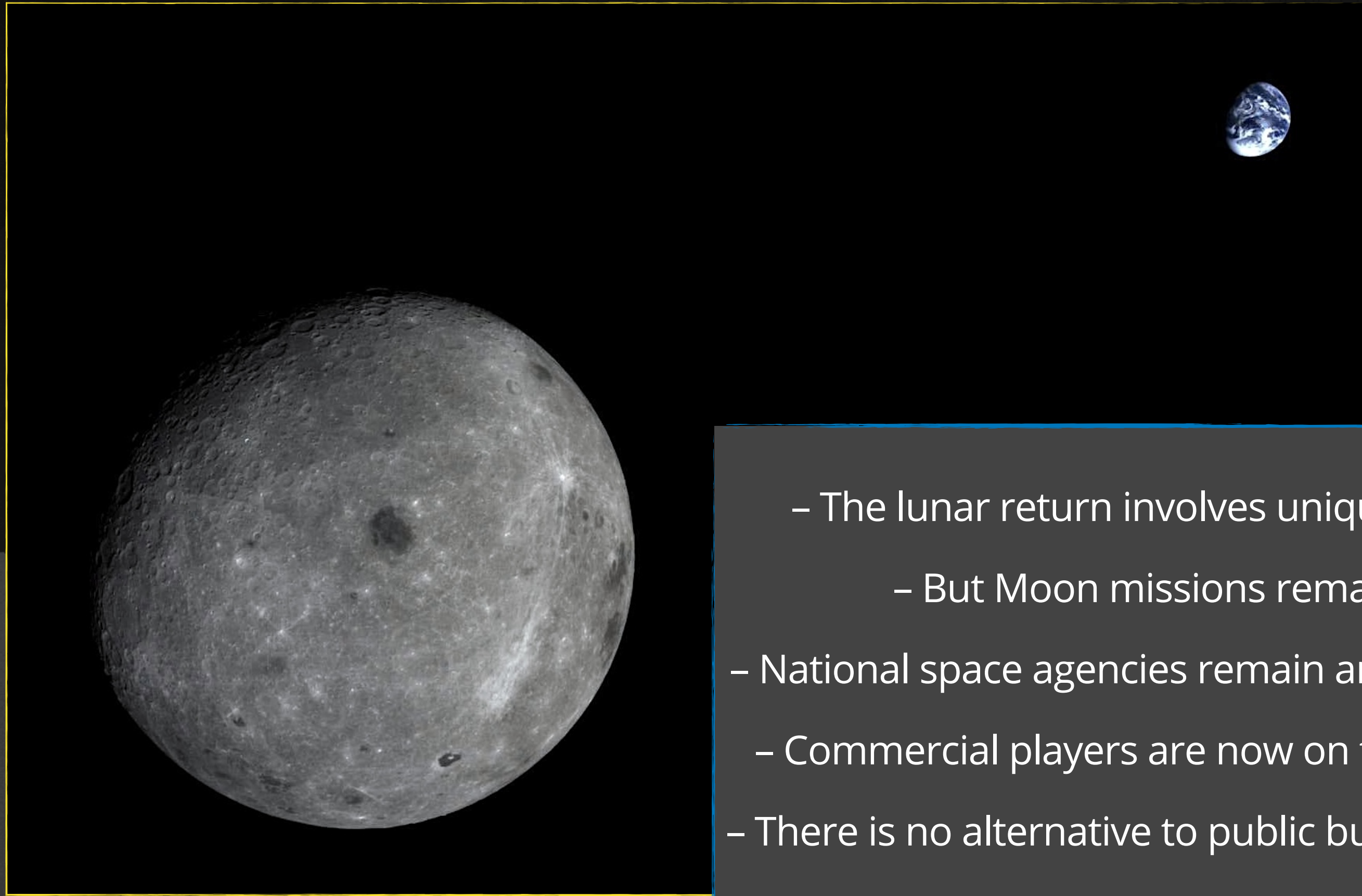


Hakuto-R crash



Luna 25 crash

Sustain lunar exploration through worldwide public support



- The lunar return involves unique conditions
 - But Moon missions remain risky
 - National space agencies remain anchor customers
 - Commercial players are now on the critical path
 - There is no alternative to public buy-in and funding
 - Yet, people are largely unaware
- Need to reach more people at large, and effectively so.*



Thank you for your time

JATAN MEHTA

hey@jatan.space



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