

A detailed illustration of a lunar lander on the moon's surface. The lander is a boxy, multi-tiered structure with four landing legs. It features several logos: JAXA, NIKKO, NOK NTK, CITIZEN, Sumitomo Corporation, SUZUKI, Takasago Thermal Engineering, and SMBC. The moon's surface is dark and rocky, with a small rainbow-like lens flare near the bottom left. In the background, the Earth is visible as a blue and white sphere against the blackness of space.

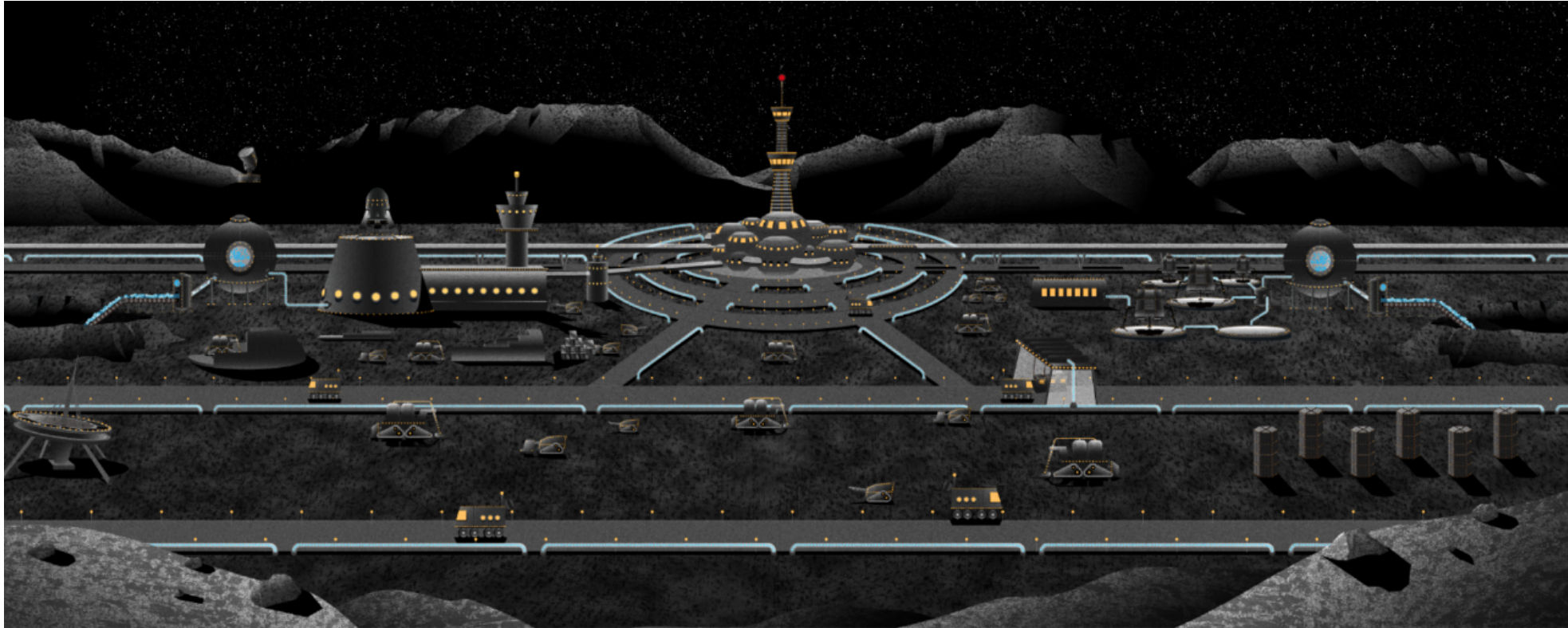
i s p a c e

ispace, inc. Director & COO  
Takahiro Nakamura



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# The ispace Vision



**Moon Valley 2040**

By making the Earth and Moon one eco-system, a new economy on the Moon will be created

**Expand our planet. Expand our future.**

# Company Snapshot

## General Info



Founded in: **September 2010**

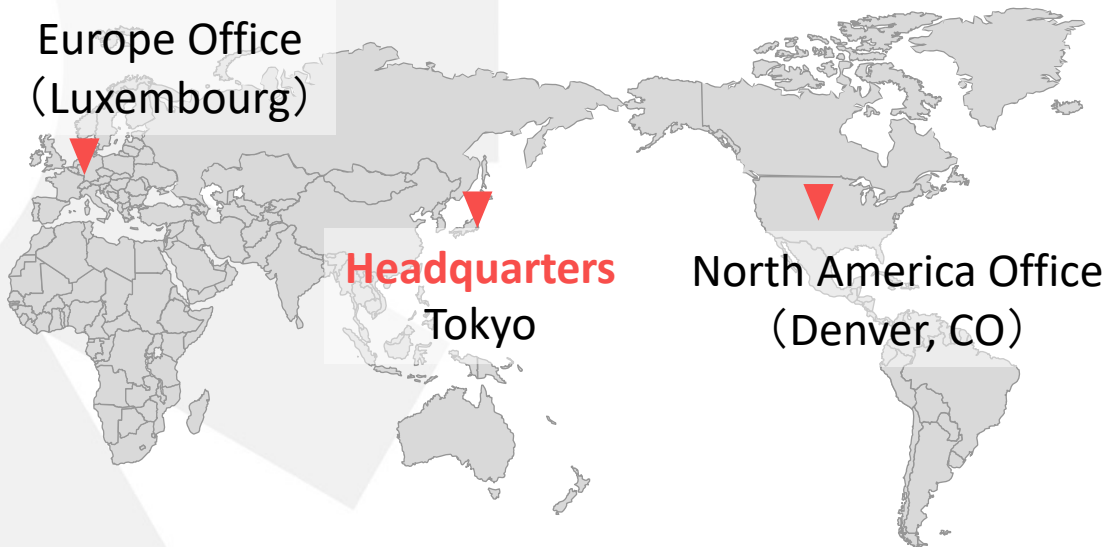


# of Employees: **160** (25+ nationalities) <sup>(1)</sup>



% of Engineers: **c.62%** <sup>(1)</sup>

Europe Office  
(Luxembourg)



Headquarters  
Tokyo

North America Office  
(Denver, CO)

## Financing Track Record / Shareholders

Seed: **USD c.2.0 MM** <sup>(2)</sup>  
 Series A (2017): **USD c.94.5 MM** <sup>(3)</sup> Record for largest Series A financing in Japan at the time  
 Series B (2020): **USD c.33.1 MM** <sup>(4)</sup>  
 Series C (2021): **USD c.50.6 MM** <sup>(5)</sup>  
 Bank loan: **USD c.19.8 MM** <sup>(6)</sup> **Total: USD c.200MM**

### Venture Capital / Investment Funds

### Strategic enterprises



### Banks / Financial Institutions



(1) Data as of August 2021. Employees include management, subsidiaries and contract personnel

(2) Actual figure in original currency is JPY 204 MM; JPY to USD conversion provided for familiarity, using FX rate for Oct 2016

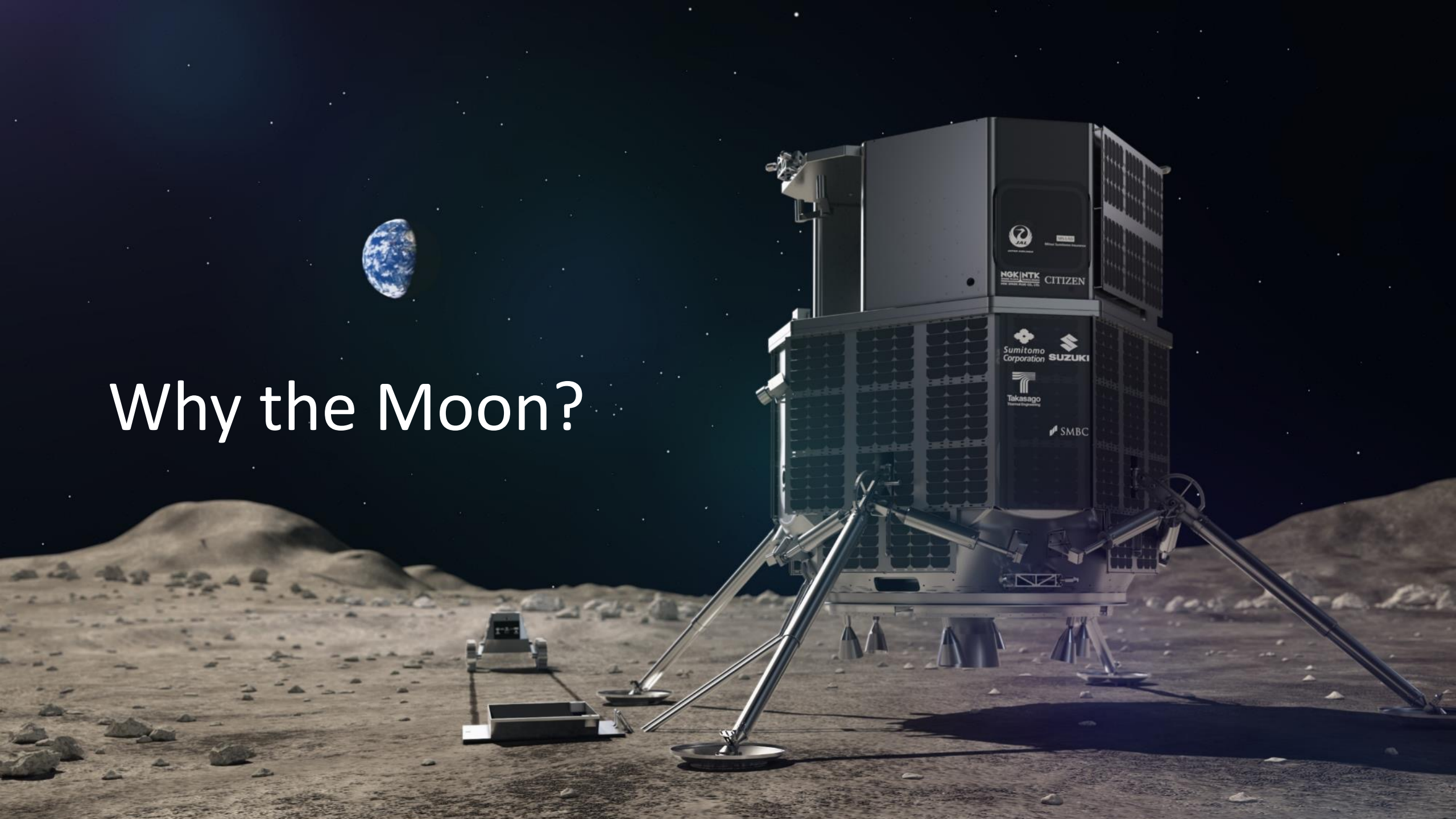
(3) Actual figure in original currency is JPY 10,350 MM; JPY to USD conversion provided for familiarity, using FX rate for Feb 2018

(4) Actual figure in original currency is JPY 3,500 MM; JPY to USD conversion provided for familiarity, using FX rate for Jul & Dec 2020

(5) Actual figure in original currency is JPY 5,566 MM; JPY to USD conversion provided for familiarity, using FX rate for Jul, Aug & Oct 2021

(6) Actual figure in original currency is JPY 2,180 MM; JPY to USD conversion provided for familiarity, using FX rate for May 2021

# Why the Moon?



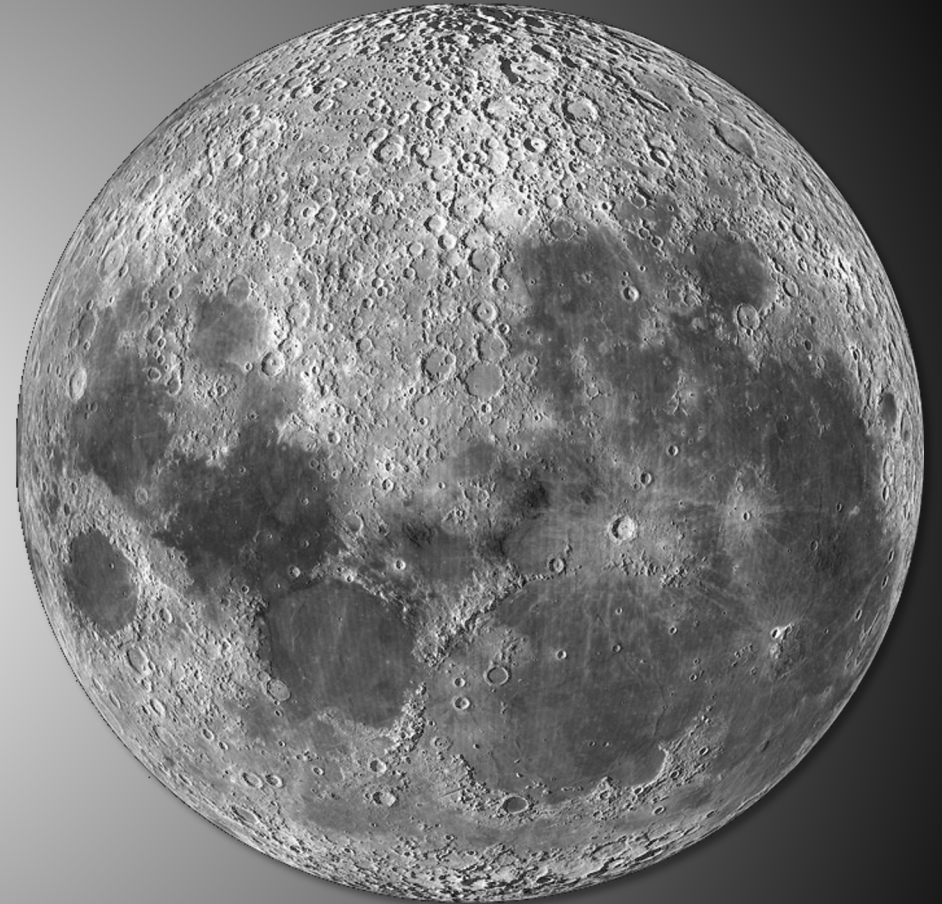
# Why the Moon?

Key elements

**H<sub>2</sub>O** = H<sub>2</sub> + O<sub>2</sub> (1)

**1/6** Gravity (2)

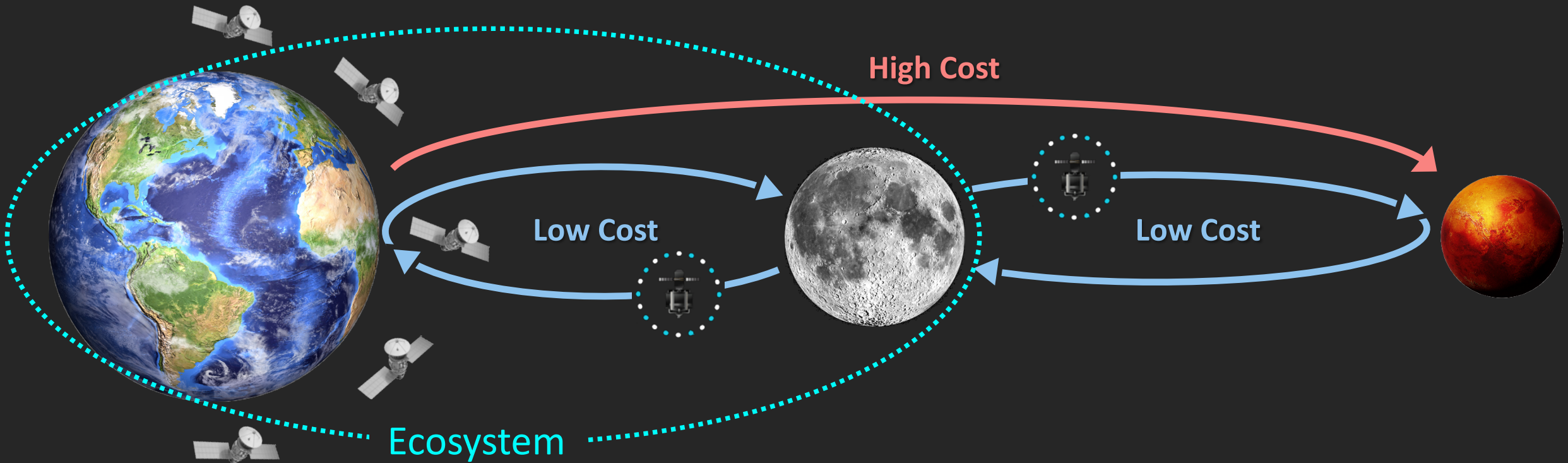
**380'000** km Distance (3)



- (1) According to several research studies, it has been suggested that water may be widely distributed across the Moon .  
We believe that it may be possible to utilize hydrogen and oxygen split through electrolysis of water extracted from regolith as a potential source of fuel for future deep-space exploration
- (2) As Moon has only 1/6 gravity of the Earth, the launch cost from the Moon would be theoretically lower than the Earth
- (3) As the closest celestial body to the Earth, the Moon has potential to be utilized as the base for future deep-space exploration

# Ecosystem that brings the Earth & Moon together

Potential of the Moon as a “Fuel Supply base” utilizing H<sub>2</sub>O that may exist on the Moon



→ Maintenance of satellites  
essential for sustainable human life

→ Increasing possibility of  
access to deep space areas

# The ispace Model

High frequency, flexible, cost-effective lunar transportation



- ① Lander navigation
- ② Lander on the surface
- ③ Rover exploration
- ④ Data acquisition



M1



M2



M3



M4



M5



M6



M7



M8+



## HAKUTO-R MISSION 1 & 2

Series 1 lander

Reach the Moon, explore the lunar surface, demonstrate technology and business capability

## MISSION 3 & Beyond

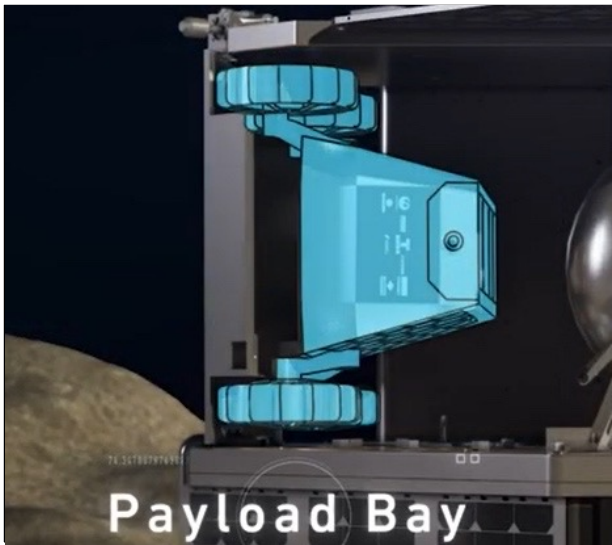
Series 2 lander

Further explore the Moon and support the development of lunar infrastructure.



# Our Businesses

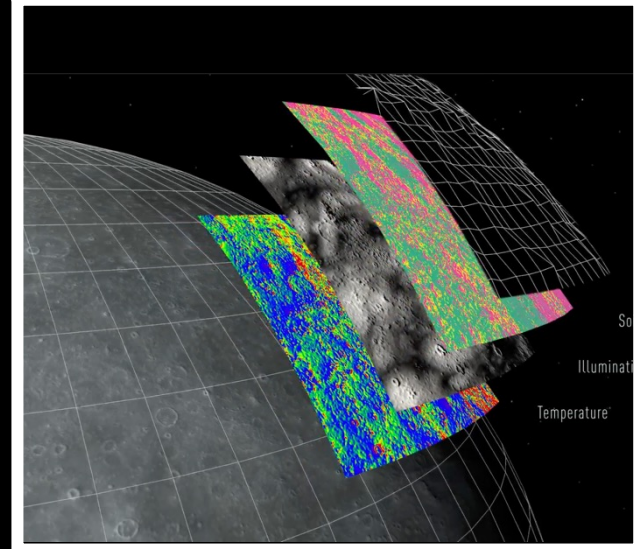
## LUNAR DELIVERY

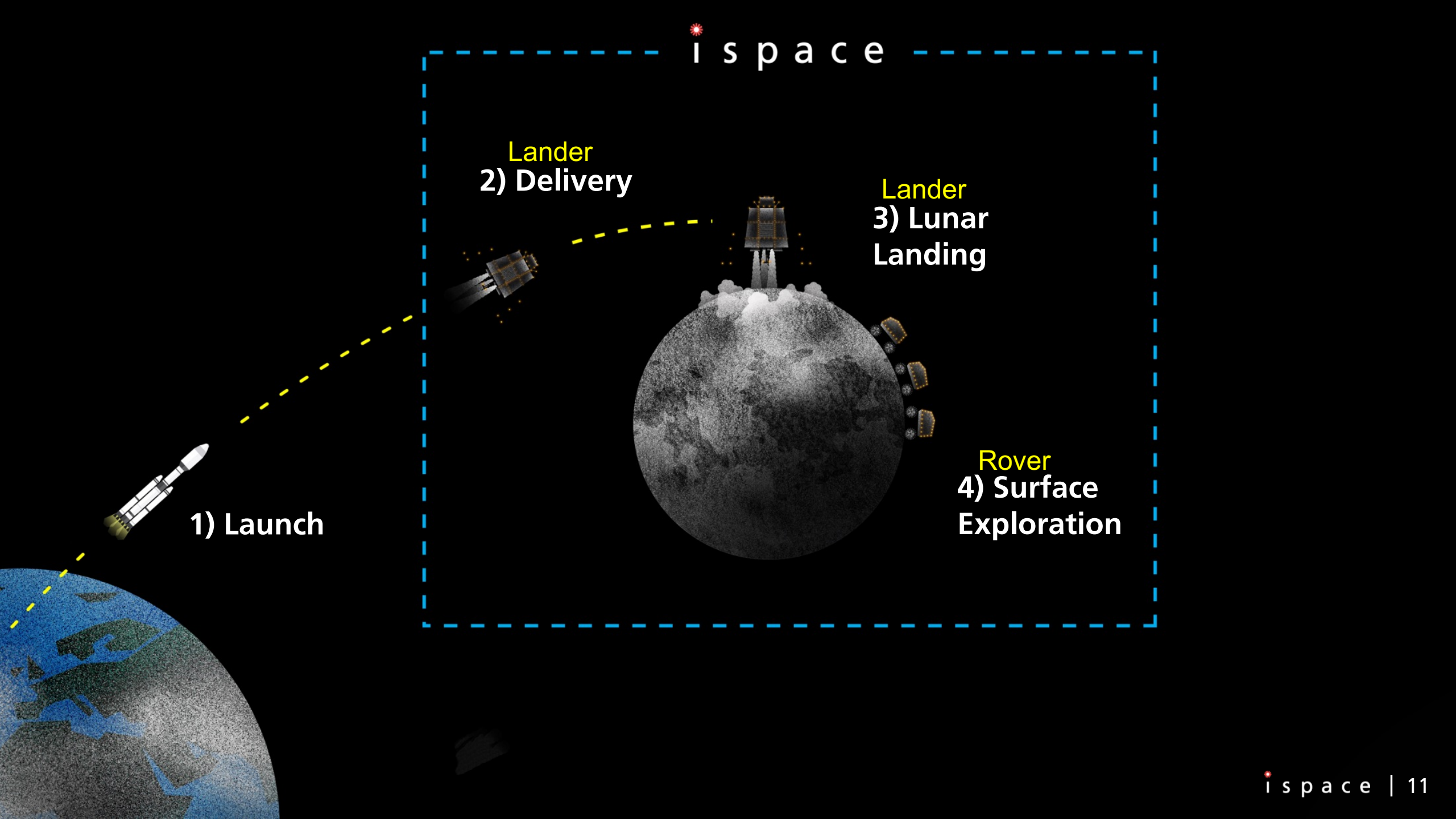


## PARTNERSHIPS



## LUNAR DATA



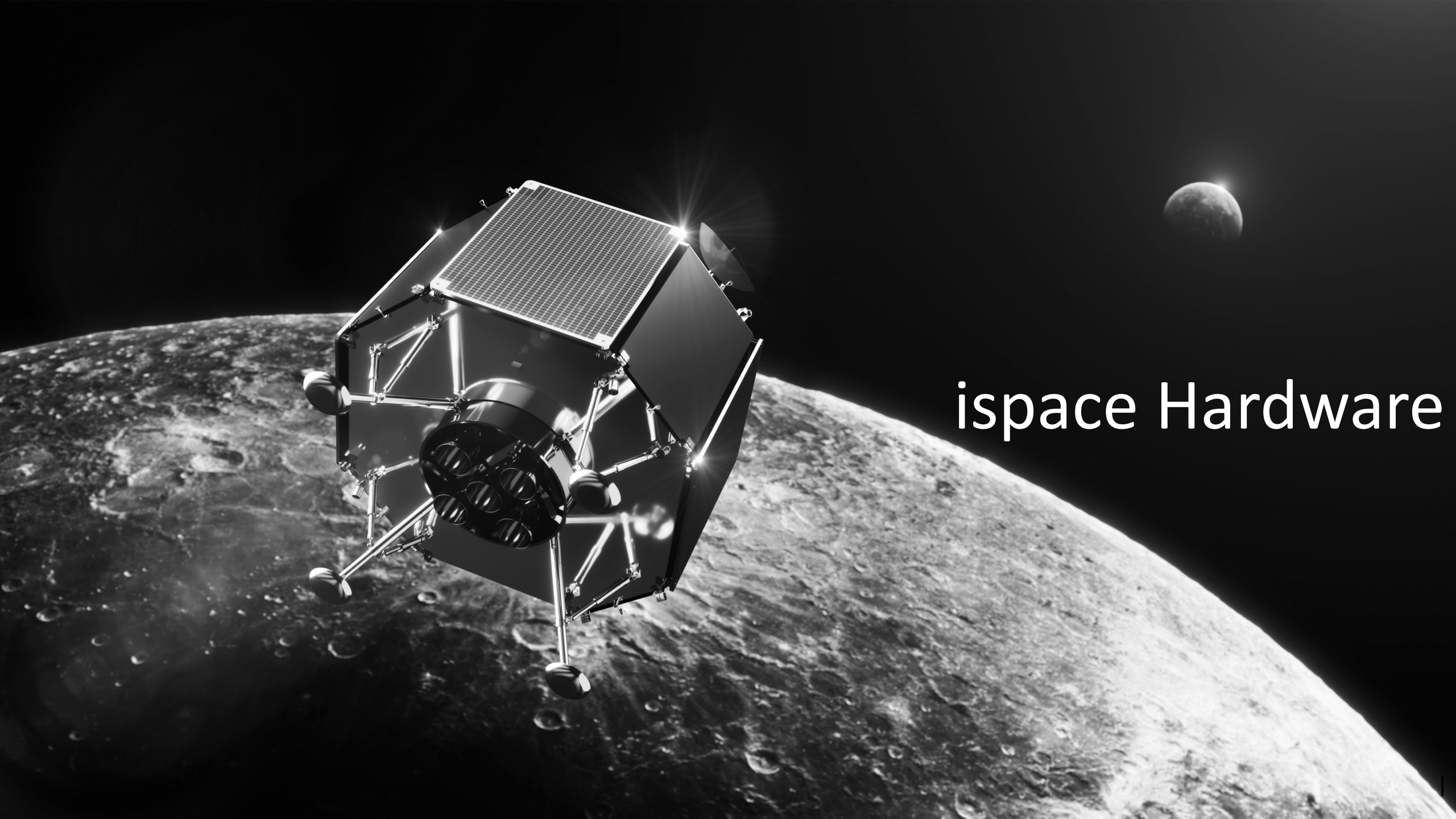


1) Launch

Lander  
2) Delivery

Lander  
3) Lunar  
Landing

Rover  
4) Surface  
Exploration



inspace Hardware

# Cutting-edge Technology

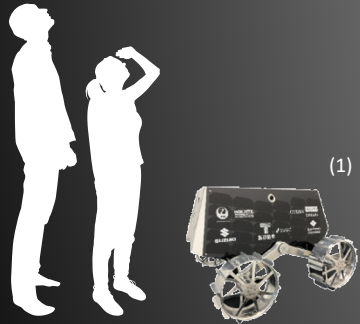
Our Landers and Rovers Currently Under Development

**Rover**  
(Under Development)

**Series 1  
Lander**  
(Under Development)

**Series 2  
Lander**  
(Under Development)

Ex: Apollo Lander



**M1 & M2**

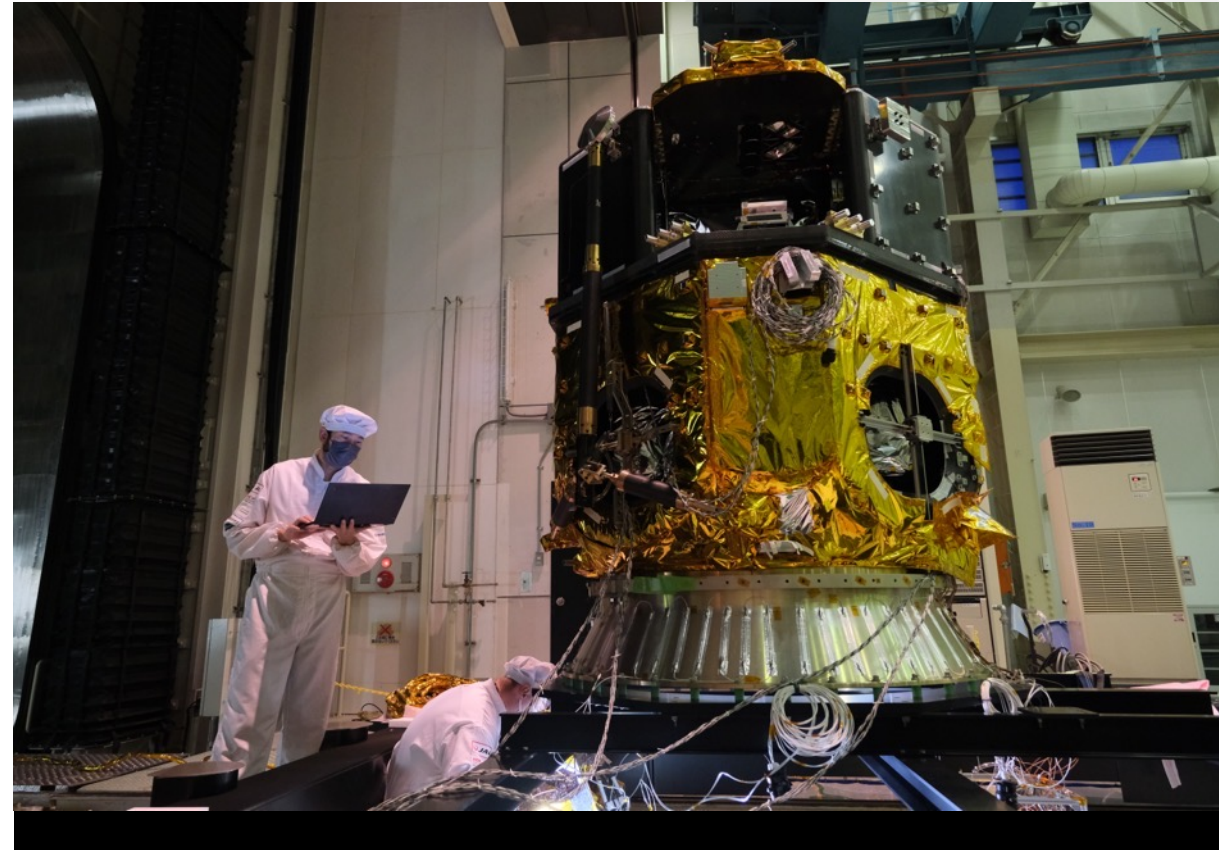


**M3**

(1) Illustrative renderings as of Nov. 2021

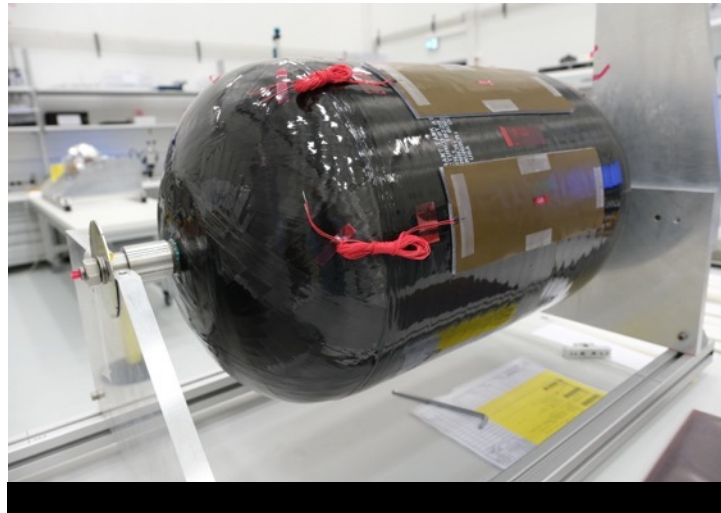
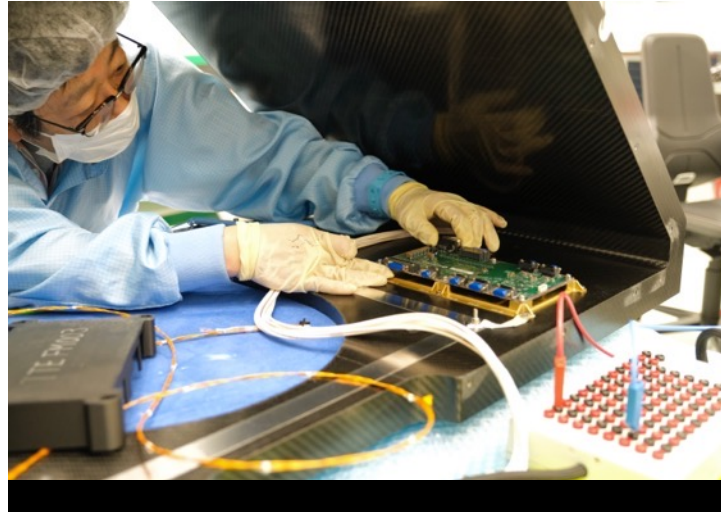


# HAKUTO-R M1 STM Lander





# HAKUTO-R M1 Flight Model Lander



# HAKUTO-R Partnership Program

## Business Synergies/Joint Technology Development



JAPAN AIRLINES



Lander assembly support

三井住友海上

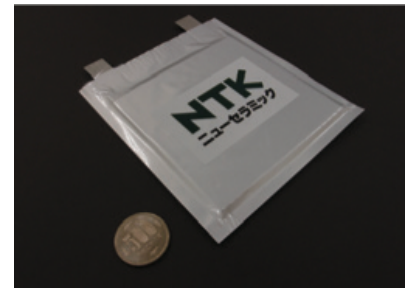
MS&AD INSURANCE GROUP



Design of Lunar Insurance

NGK NTK

スパークプラグ ニューセラミック  
日本特殊陶業



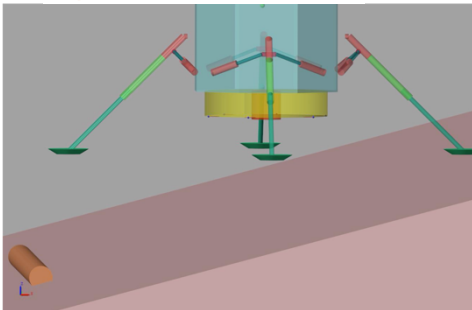
Lunar surface demonstration of solid-state batteries

CITIZEN



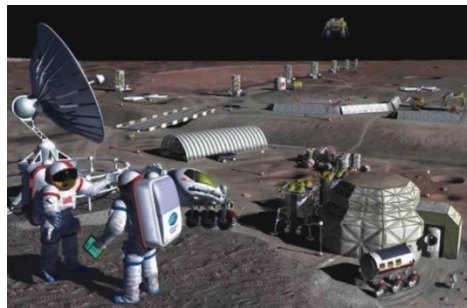
Implementation of "Super Titanium"

SUZUKI



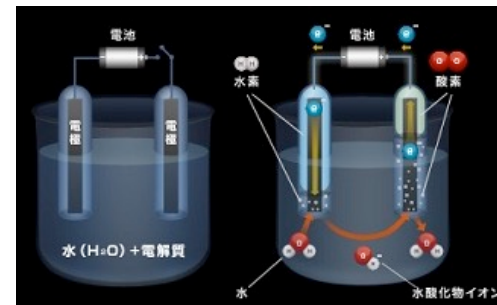
Structural analysis of landers

住友商事



Industrial construction on the Moon

高砂熱学  
Takasago Thermal Engineering



Heating technology, water electrolysis technology

SMBC

Utilizing financial functions and networks  
Formation of industrial network

# HAKUTO-R MISSION 1 – 2022<sup>(1)</sup>

## Series 1 Lander

Landing site: *Lacus Somniorum*  
Fully Manifested

**Payload**



NGK SPARK PLUG CO., LTD.

Solid-State Battery

**Payload**



Lunar Robot

**Payload**



LEAP-funded instruments

**Payload**



Rashid Rover

• Payload Design Capacity:  
30kg to Lunar Surface<sup>(2)</sup>

• Launch Provider: SpaceX

(1) Planned as of November 2021 (2) Commercial payload sales mass planned to be approx. 12kg



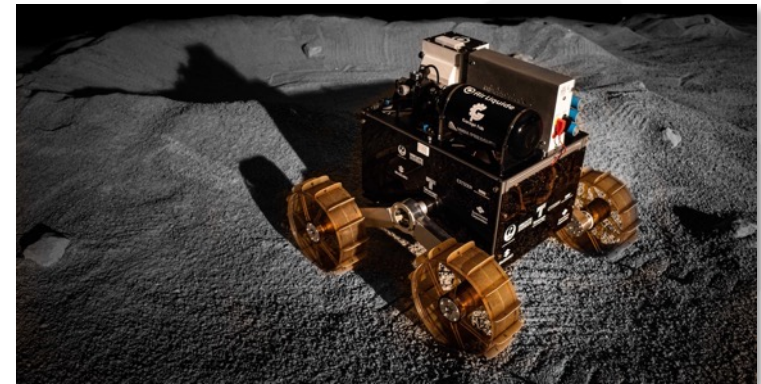
# ispace Europe @ Luxembourg

| ispace, inc.

- ispace Europe is steadily growing since 2017
- A team of ca. 20 highly skilled members
- We aim to grow the Luxembourg space-ecosystem, realizing our shared vision while leading ispace and Luxembourg to the moon.



*Luxembourg Prime Minister Xavier Bettel visits the ispace Europe office*



*Rover driving on the ispace Europe lunar yard*

# Global Alliances

| ispace, inc.

Strong Relationships & Collaboration with Leading Partners

## Ariane Group



- Leading aerospace company in Europe with a strong relationship with ESA <sup>(1)</sup>
- Ariane provides support on propulsion system development and final assembly of lunar lander (Series 1 lander)

(1) European Space Agency

(2) Guidance, Navigation & Control technology

(3) Exclusivity to provide GN&C system for the lander with payload design capacity up to 500kg, excluding direct contracts for R&D programs by NASA or U.S. government

## Charles Stark Draper Laboratory

# DRAPER



- Develops GN&C <sup>(2)</sup> system for lunar landing ship
- Only company in the world with track record of landing on the Moon 6 times in Apollo program
- Draper signed an exclusive <sup>(3)</sup> contract with us for the development of GN&C <sup>(2)</sup> system for commercial small landers

## General Atomics

# GENERAL ATOMICS



- Provide remote control system for aircrafts for both military and commercial purposes
- GA will carry out final assembly of the lunar lander as well as tests in the US (Series 2 Lander)

- Airbus, Air Liquide and ispace Europe launch EURO2MOON, a non-profit European platform to explore future uses of natural lunar resources



i s p a c e

