



SPACE RESOURCES ACCELERATOR

an **ESA BSGN Industry Accelerator**

Space for Inspiration, January 2024

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powered by LSA, ESA & LIST

The European Space Resources Innovation Centre is world's first innovation centre entirely dedicated to space resources utilization, for human and robotic space exploration, as well as for a future in-space economy.

- HQ in Luxembourg
- 18+ Researchers
- 20+ Projects

AIRBUS

M A Δ N A
E L E C T R I C

 **Air Liquide**

OFFWORLD

SPACE RESOURCES CHALLENGE

competition • 5 projects, 500K€ prize

START-UP SUPPORT PROGRAMME

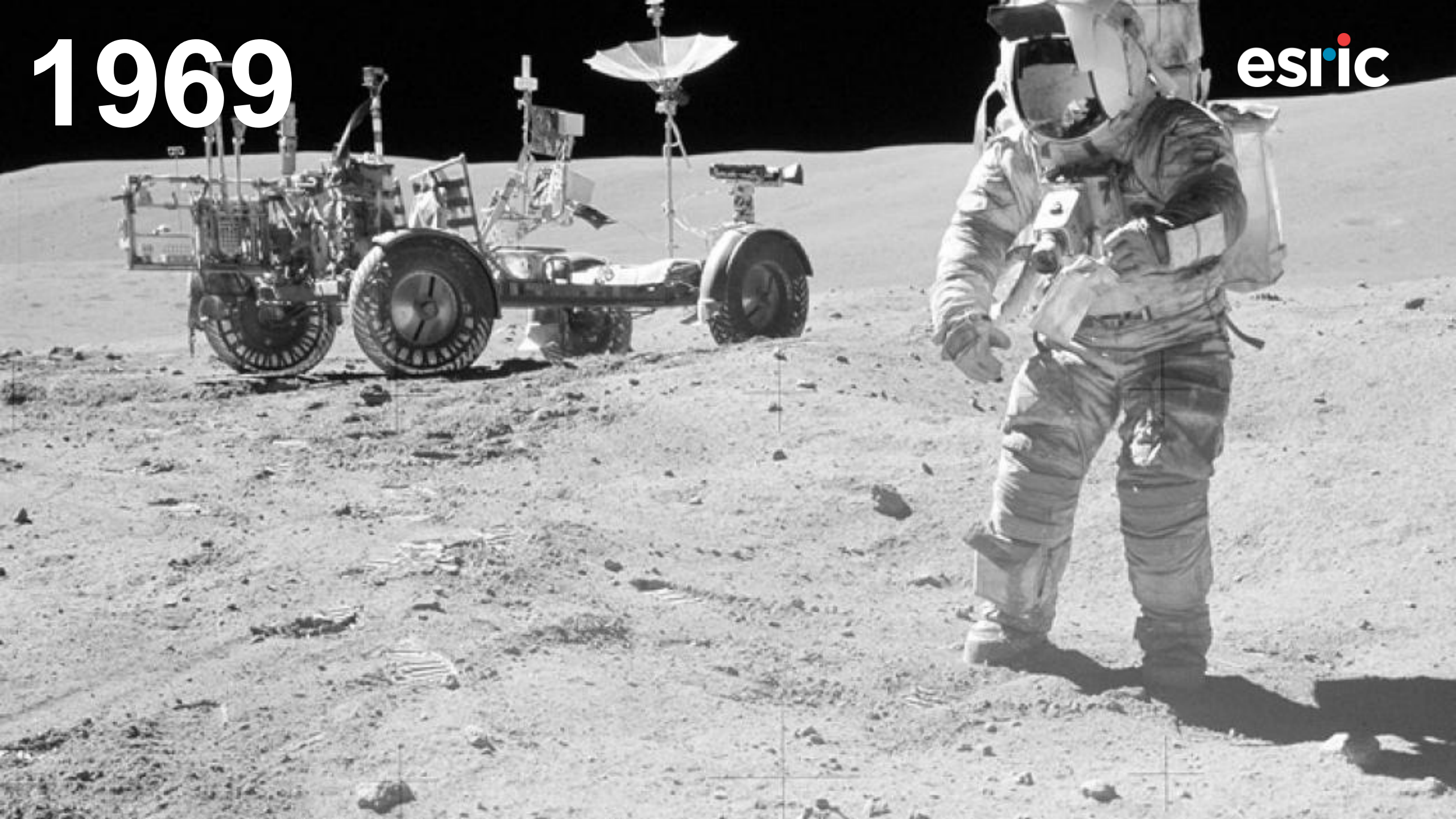
incubator • 45 start-ups, coaching, facilities,
up to 200K€ funding/company

AMBITION:

ACCOMPANY **SCALE-UPS**
TARGETING **THE MOON**

1969

esric



2024

esiic

PRIVATE LUNAR MISSIONS



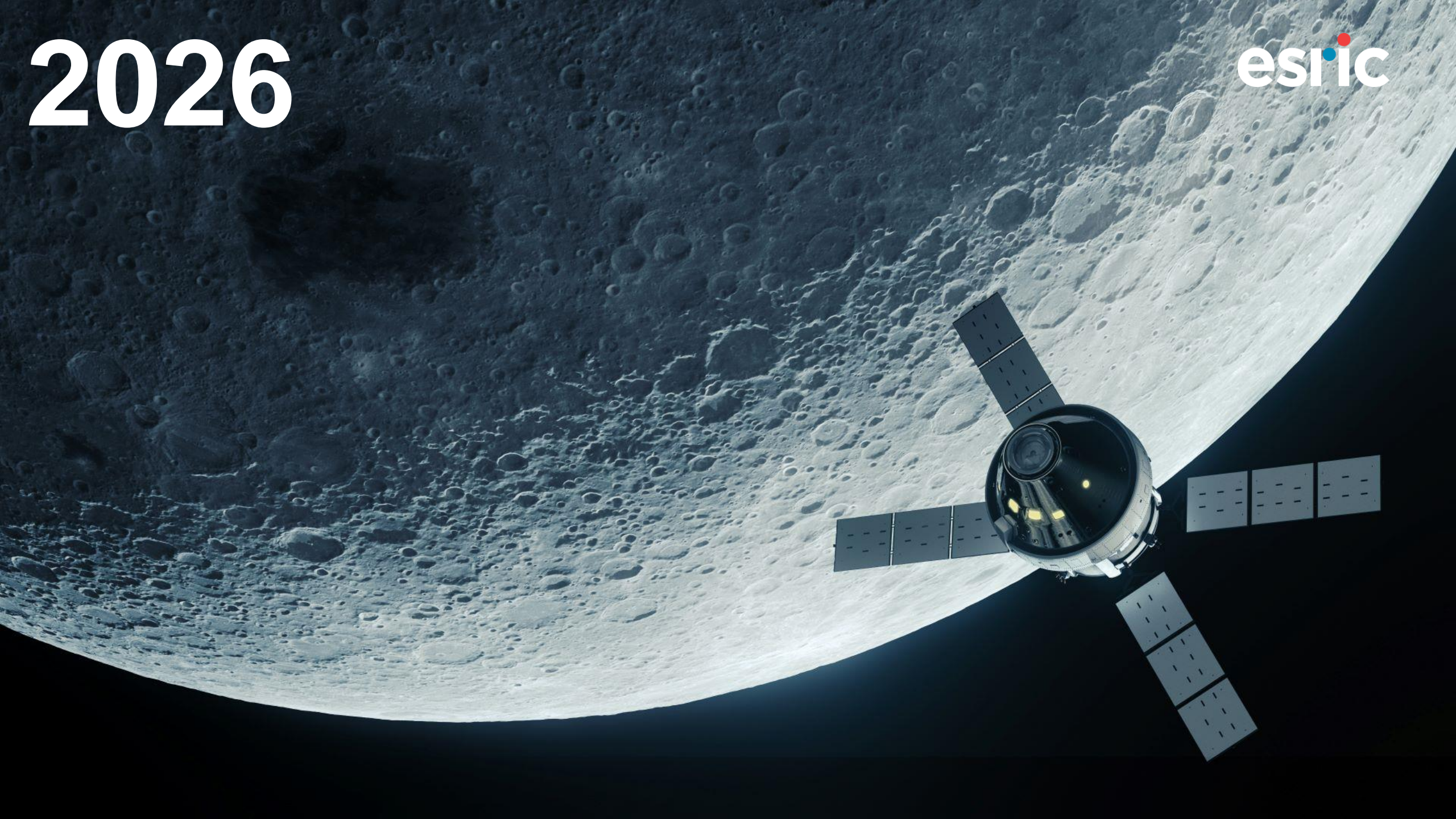
► Orbiters



► Landers



► Rovers



2026

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WHY THE MOON?



TECHNOLOGY

scientific progress

better understand our very own planet **Earth** better
prepare our future missions to **Mars**

technology spillovers

materials science, manufacturing, robotics and data
analytics

ECONOMY

entire new economy with a

170B€

cumulated market value (2040)

significant

efficiency gains

for space exploration

SOCIETY

1,000 astronauts

by 2040

sustaining

1.8M FTEs

(2045)

HOW?

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CONSTRUCTION



HEALTH



ENERGY



SPACE RESOURCES



Water



Regolith



Metals

LUNAR VALUE CHAIN



ENERGY



rocket propellant

HEALTH



life support (breathing, water, food consumption)

CONSTRUCTION



infrastructure and equipment

DEMAND
(UTILISATION)

SUPPLY

UPSTREAM

DOWNSTREAM

LAUNCH



ORBIT



LAND



PROSPECT



EXTRACT



OPERATE



REFINE



MANUFACTURE



SUPPLY



BRIDGE TO A NEW ECONOMY

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EARTH

Large Corporates & SMEs

ORBIT

Large Corporates & SMEs

MOON

Space Agencies

USE CASES



AEROSPACE

Launchers
Orbiters
Landers

AUTOMOTIVE

Rovers, Hoppers & Drones
Robots & Avatars
In-Space Transportation

MINING

In-Situ Resource Utilization
In-Space Manufacturing

CONSTRUCTION

Space Tourism
Space Stations
Surface Habitats & Structures

ENERGY

Propellant
Electricity

TELECOM

Space Traffic Management
In-Space Computing
In-Space Communications
Entertainment

CALL FOR ACTION!



PROJECTS

Scale-ups

- proven technology/business
- currently serving terrestrial/space markets
- capacity to address lunar use cases and sustain upcoming missions to the Moon

PARTNERS

- ▶ **Institutional**
- ▶ **Strategic**
- ▶ **Financial**

Category

Government
Corporates
Funds

Role

Customer
Supplier
Investor

OBJECTIVE:

**BUILD THE FIRST BUSINESS ACCELERATOR
DEDICATED TO THE MOON**

See you at **SPACE RESOURCES WEEK**

25-27 March 2024



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THANK YOU

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