

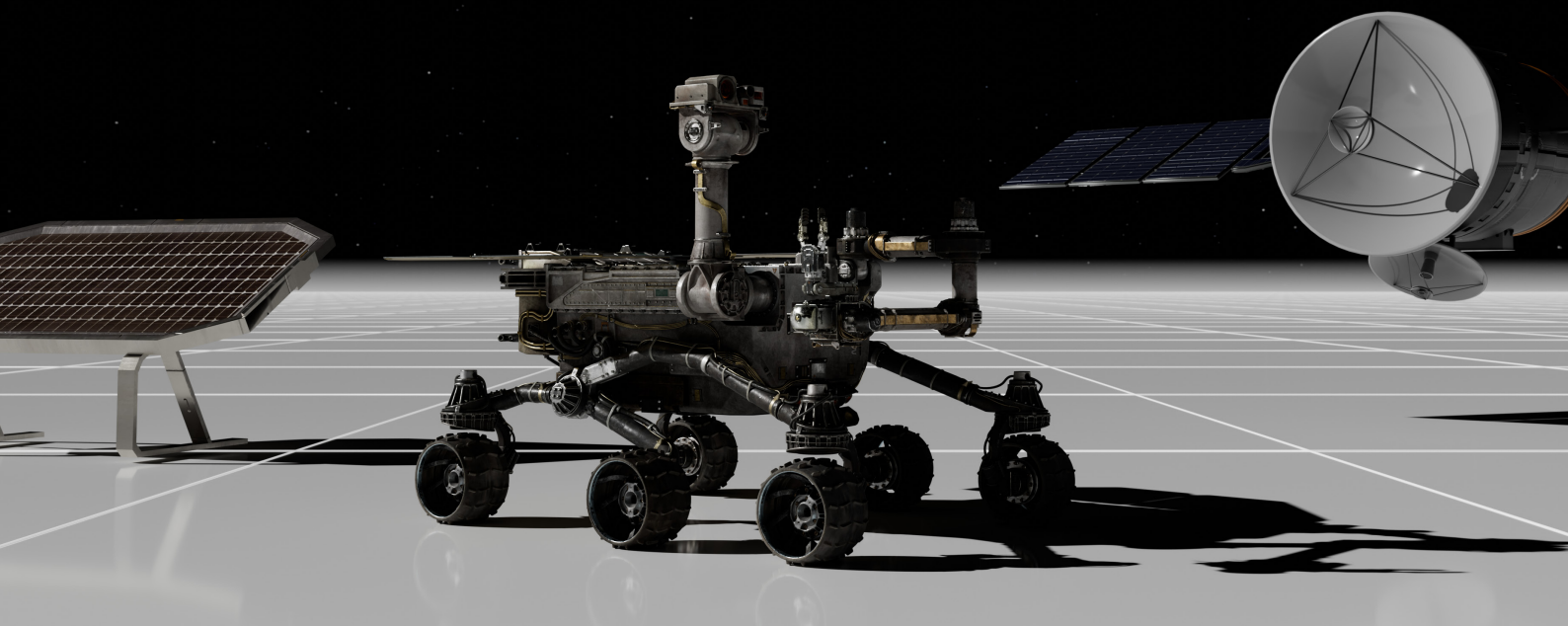
esric

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technology business incubator

Spacebackend

# DIGITISING THE LUNAR INFRASTRUCTURE

RESOLVING THE BIGGEST CHALLENGES  
IN PAYLOAD CONNECTIVITY, CONTROL,  
AND MANAGEMENT



# Solutions

Our solution is a complementary product ecosystem connecting multiple types of instruments. It aims to reduce development times, expenses, and supports asset monetization to enable low-cost access to the lunar instruments and data.



## Lunar Landers

Resolving OBC integrability issues and Reducing payload integration time from years to weeks.



## Instrument Controllers

Enabling scalability by empowering any type of instruments by plug-and-play remote control intelligence



## Instrument Operations

Increasing accessibility by enabling AI-Driven operations supported by user-centric remote control dashboards

# Auto-generated On-board and Ground segment software products

**Space BE C&C:** On-Board Software plug-and-play into lunar Instruments

**Space BE Cloud:** Cloud Application for instrument control and management

**SpaceBE Synch:** On-board Software Plug-and-play into Lunar Lander

Remote control intelligence

TM/TC Cyber Security Layer

Command & Data handling

Remote Control Dashboards

AI-Driven Teleoperation

Condition Monitoring

On-Board Automatisation

Predictive Maintenance

Access Control Policies

AI-Driven Data Analytics

Payload Integration SW Layer  
Plug-and-play into Platform

Asset fleet management

Enables Modular plug-and-Play integration of multiple Payloads

# Roadmap

The company roadmap considers 12 months for producing the basic product, followed by a 18-month period of commercialization to establish first sales and additional 18 month for global scale.

## Feasibility Study

Product Readiness Level - TRL-3  
Fundraising

## Development (12 months)

Developing MVP with Design Partners  
Developing partnerships and producing Demo on Earth

## Commercialization (18 months)

Legal, certifications and compliance matters. Demo mission in Space  
First Sales

## Global scale

Continuous sales and marketing  
R&D Improvements

## Making space and Moon accessible

Launching monetization & leasing services

● 2023      ● Q1 2024      ● Q1 2025      ● Q3 2026      ● Q3 2027

# Summary

Spacebackend

**At Spacebackend, we are on a mission to transform lunar exploration by providing smart software infrastructure for connecting, automating, and remotely maintaining lunar assets. By focusing on these core objectives, we aim to reduce mission time, minimize human exposure, and mitigate associated risks.**

**In alignment with the strategic vision of world-leading space agencies, our strategy includes addressing critical asset connectivity and operational gaps. These challenges must be overcome to enable efficient and sustainable In-Situ Resource Utilization (ISRU) activities on the Moon and beyond.**

## Expert Team

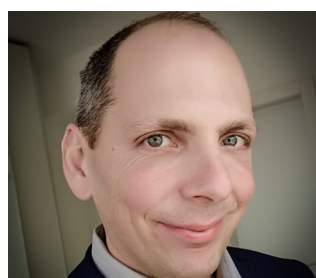
**Founded in 2023, our team leads lunar and space innovation, merging decades of experience in systems engineering, space strategy, and software engineering. We digitally transform lunar infrastructure with scalable, flexible, and user-centric cloud connectivity, propelling the industry into the future of space exploration.**



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