# Spacebackend

Connecting, Automating, And Remotely Maintaining Lunar and Space Assets To Reduce Time, Human Exposure, And Associated Risks

Spacebackend empowering the communication with lunar assets by AI capabilities enabled by integration of end-to-end on-board and cloud-based software solutions. A plug-and-play solution turns any hosted payloads, and robotic platforms into comprehensive intelligent system by leveraging the power of cloud computing, secure teleoperation, semi-autonomous capabilities and continues data analytics. All this with keeping a full focus on user-centric approaches, thus making space accessible for all.
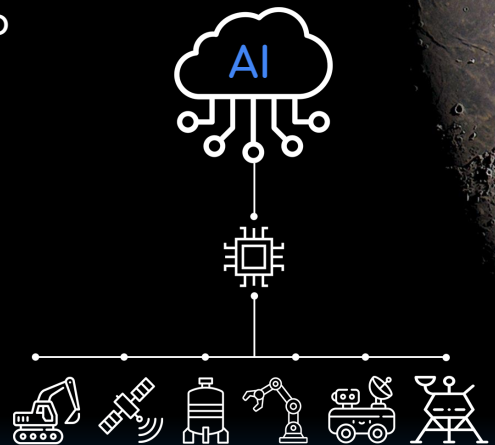
Agile Integration
Automated processes for reducing time on definition and coding of the teleoperation capabilities including auto-generation of command & control dashboards

Access-Oriented Security
Keeping your assets and data safe by enabling secure teleoperation policies supporting different operators and access levels

Cloud Analytics
Quickly accessing and analyzing the various data received from the asset sensors and equipment by using cloud computing capabilities

User-centric Teleoperation
Letting the asset owner to be focused on the target actions instead of complex teleoperation procedures

AI Insights
Enables continuous performance analytics for detecting anomalies, preventing failures and breakdowns of the equipment

Leasing
Share and lease your robotic platforms, hosted payloads, technological and scientific equipment for 3rd party operators

Making space accessible by connecting asset owners and STEM agencies for educational and scientific purposes

Providing a real experience and unbelievable inspiration to the next generation made easy than ever before by letting asset owners possibilities to share and lease their equipment with the STEM agencies while being sure the equipment in safe. The secure access-oriented teleoperation policies in pair with semi-autonomous capabilities allows users on earth to schedule a connection sessions for remotely operating the available asset, collecting and analyzing data for educational purposes.

Low-Cost
STEM customers paying only for the time consumed

Cash-Back
Asset owners reducing mission cost by leasing equipment

Compliance
Regulation, licenses, and legal matters took care by Openmoon

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Cloud Platform For Instruments And Robotic Equipment With On-Demand Services Configured To Meet Your Command And Control Requirements

On-Board Software Engine

Configurable to your requirements and provides plug-and-play integration into the asset controller. Supporting interaction with 3rd party mission operations software through web API.

Cloud-Native Software

All-in-one solution for controlling the asset lifecycle by user-centric tools for monitoring, controlling, teleoperating, data collection, and generation of critical decision-making insights.

Integration

Configurable Plug-and-play Integration into the asset controller

Command & Control

Auto-generated dashboards for remote asset monitoring and maintenance

Teleoperating

On-demand AI based services to enable remote operation of robotic elements

Data Analytics

On-Demand AI based services to generate valuable insights from the collected data

Technology Demonstrations

Supporting the in-orbit technology demonstrations by providing ready to use command and control as a service for your payloads

Lunar Exploration

Supporting communication with payloads hosted on landers or rovers, delivered for lunar exploration purposes

Scientific Missions

Supporting the lifecycle of orbital instruments and enabling intelligent in-cloud data processing during scientific missions.

Lunar Infrastructures

Supporting smart connection for enabling remote operations, support and maintenance of the infrastructure elements