

# European Lunar Lander Joint Venture to Focus on Exploration and Resources

Frankfurt am Main, 22<sup>nd</sup> November 2021.

## European Lunar Lander Joint Venture signed between Berlin Space Consortium, Space Ventures Investors, and Lunar Resources Registry

Berlin Space Consortium, Space Ventures Investors, and Lunar Resources Registry are forming a joint venture: European Lunar Lander (ELA). The goal is to provide a low-cost lander and Cis-Lunar transportation system that is cost-effective to enable multiple missions to explore, test and extract resources from multiple locations.

ELA will design, manufacture, launch and operate Light Lunar Landers and Lunar Orbital Space Tugs.

ELA will conduct Lunar missions for its joint venture partners and sell landers to prospective clients.

Variation of the lander payloads are to enable exploration, including the exploration and verification of resources, and onboard testing of regolith. Potential variations include the return of samples to LEO.

Variations of the Orbital Space Tug include the ability to monitor Lunar surface activity and the validation of previously detected resources.

Norbert Pilz, Executive Director of Berlin Space Consortium, describes the technology behind the ELA JV, “We’re re-tooling and re-designing East and West European space heritage hardware to be less expensive, and scalable to undertake various mission profiles. We want to manufacture multiple light landers and use the space tugs that transport them to the Moon to complement their activities.”

Simon Drake, Managing Director of Space Ventures Investors and CEO of Lunar Resources Registry explained the JV: “The European Lunar Lander joint venture is a bridge between capital and actual Lunar locations of resources, infrastructure and energy operations. A realistic Space Resources business model cannot function on just “a few expensive missions to detect resources” to validate an extensive extraction or utilisation operation. We need affordable landers, available to be deployed to hundreds of locations over a decade. The ELA JV is a purpose driven venture.”

Joint venture partners agree to use European designed technology and services for development and operations.

The ELA is developing the Autonomous Light Lunar Lander A3L-10, dubbed “Rock Thrush”, for autonomous missions to the Moon including soft landing on the lunar surface and the deployment of small payloads at multiple sites. The A3L-10 is fully autonomous and uses a combination of different innovative chemical space propulsion systems.

To reach the lunar surface, LRR will develop a Lunar Space Tug configuration LST-80 that provides reliable, autonomous transfer of the A3L-10 payload from Geostationary Transfer Orbit (GTO) to Low Lunar Orbit (LLO). The Lunar Space Tug LST-80 uses electric space propulsion and innovative chemical rocket propulsion based on a new type of ‘green’ rocket propellants.

The three companies offer different services relating to their expertise.

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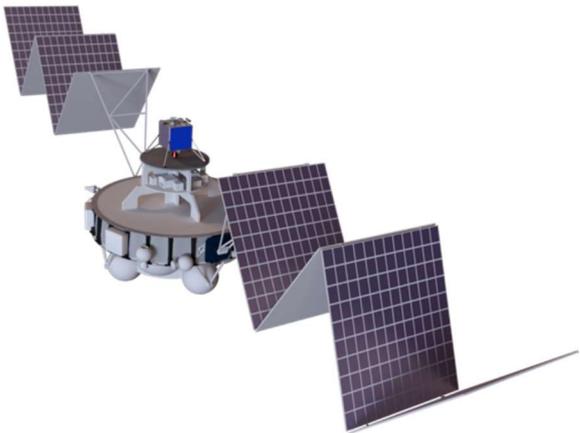
Germany

Berlin Space Consortium GmbH (BSC) is the technology developer. BSC develops innovative space applications for commercial, scientific, and governmental customers. Their development includes various ambitious technologies including expendable and reusable orbital vehicles, electric space propulsion, chemical rocket propulsion, as well separation systems for payloads and stages, all from system design to flight model delivery.

Space Ventures Investors Ltd (SVI) is focussed on building the Strategic Space Value Chain, by developing, supporting, and funding space-focussed businesses. This includes investing in, incubating, co-founding and joint ventures of innovative space companies. SVI's roles is to support and raise capital for the Light Lunar Lander, business development, and commercialisation.

The Lunar Resources Registry (LRR) is a transparent registry of Public (e.g., Space Agencies) and Commercial activity on the surface of the Moon. LRR has developed a Registry Platform, as well as the necessary Space Resources Legal Framework, to give the Cis-Lunar and Space Resources industry a platform to plan and co-ordinate future surface operations, by registering resources and infrastructure locations, on the Moon. A Registration with LRR is not a right, nor an exclusive claim, to a resource, or a specific location. LRR's role is to provide multiple high-value resources and infrastructure locations for LLL's landers.

Berlin Space Consortium, Space Ventures Investors, and Lunar Resources Registry signed a Letter of Intent to form a Joint Venture. Current progress is the finalisation of a joint venture agreement.

	
<p>Autonomous Light Lunar Lander A3L-10</p>	<p>Lunar Space Tug Configuration LST-80</p>

Source: Berlin Space Consortium

## Promotional Images



Artist's impression of an Autonomous Light Lunar Lander A3L-10.

Source: Berlin Space Consortium

## Contact Details

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