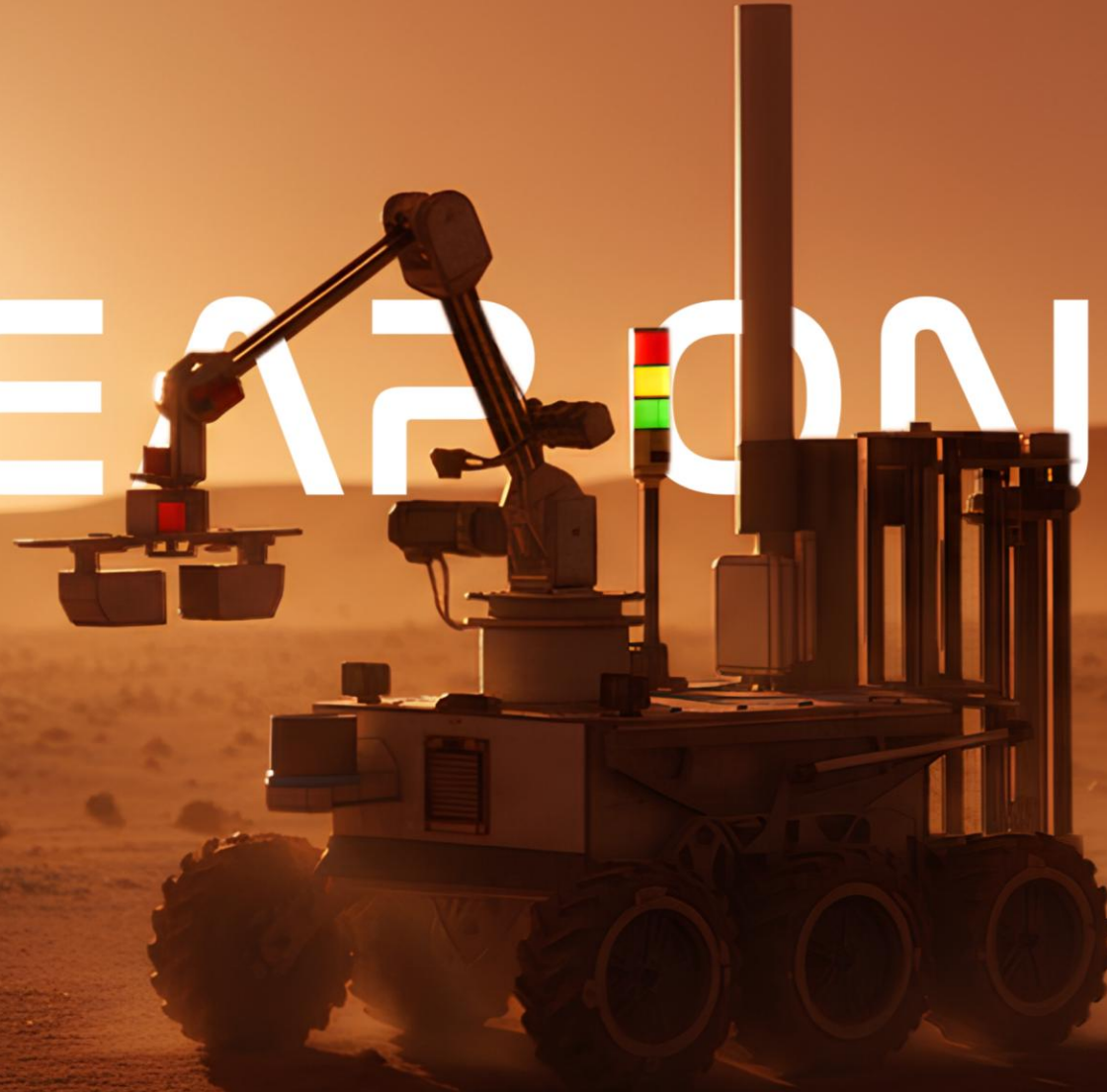




# LEAP ONE





# HSM ARIES Sponsorship Dossier

Engineering the Future, Today.



## I. Who are we & what are we doing?

We are a mission-driven student engineering team from HOCHSCHULE SCHMALKALDEN, building **Leap-One**, a next-generation rover designed for the **European Rover Challenge (ERC)**—Europe’s premier planetary robotics competition.

### By partnering with us, sponsors gain:

- High-visibility in a growing STEM community across Europe.
- Direct access to a pipeline of emerging engineers, scientists, and innovators.
- Early previews and engagement with cutting-edge prototypes and technical projects. Opportunities to connect with industry leaders, students, and community stakeholders.
- Recognition through co-branded content, media features, and event participation.

## II. Team metrics

- **24 + students** from Bachelor’s and Master’s programs
- Competing at **ERC 2026** among **100+ international teams**
- **1,000+ students** engaged annually through outreach and events

## III. LeapOne- Our Innovation Platform

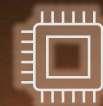
Leap-One is more than a competition rover.



**Mechanical:** Rugged terrain adaptability and modular chassis design.



**Electrical:** Resilient, efficient power architecture ensuring mission-critical reliability.



**Software:** Advanced autonomy, AI-driven navigation, and adaptive task execution.



**Communication:** Robust, low-latency data link architecture enabling reliable **rover-to-base connectivity**



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## IV. MISSION Statement– ERC 2026

At the European Rover Challenge 2026, Leap-One will demonstrate excellence in autonomous navigation, robotic manipulation, scientific exploration, and human-machine collaboration. Our mission integrates engineering precision with scientific purpose to perform complex planetary operations in realistic Mars analog conditions.

### **AUTONOMOUS NAVIGATION**

Smart terrain traversal and waypoint tracking across unpredictable Martian landscapes.

### **SCIENCE & SAMPLING**

Geological study, surface and deep soil collection, and Astro-biological investigation.

### **MAINTENANCE OPERATIONS**

Precision robotic manipulation of switches, plugs, and instruments on the lander panel.

### **PROBING & RETRIEVAL**

Rapid localization and collection of dispersed probes simulating Mars Sample Return.

### **MISSION PRESENTATION**

Communicate innovation, engineering design, and outreach impact to the ERC jury.

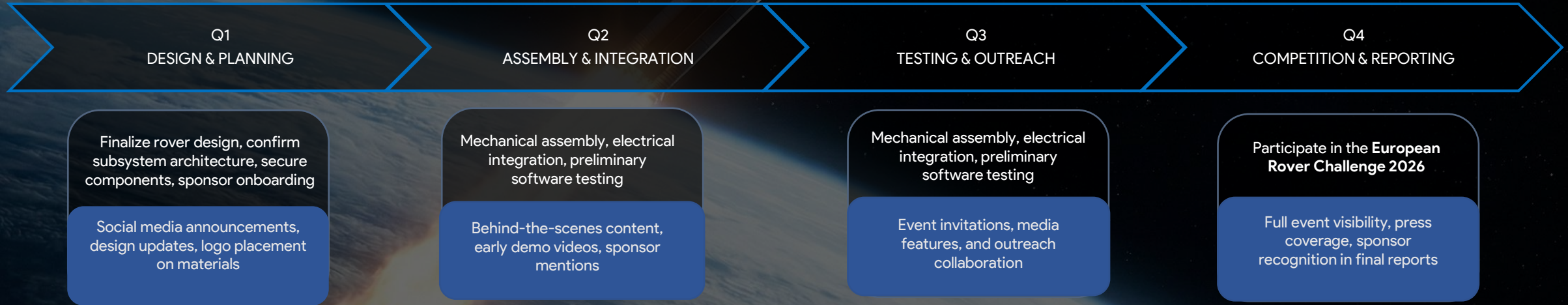


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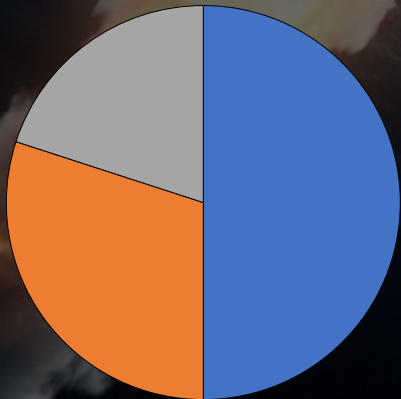


## V. TIMELINE – CONTINUOUS SPONSOR ENGAGEMENT



## VI. SPONSORSHIP OPPORTUNITY – FUELING THE FUTURE

We believe in transparent collaboration and measurable outcomes. Your partnership enables real impact in materials, testing, logistics, and competition readiness.



### Where your support goes?

- Rover Materials & Components
- Testing & Logistics
- Competition Registration & Travel

### Estimated Reach



**5,000+** students across European universities

**20,000+** social media impressions annually



Coverage in regional and European press



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## VII. Sponsorship Opportunity – Fueling The Future

Tier	Investment Range (€)	Core Focus	Branding Benefits	Talent & Technical Access	Engagement & Recognition
Bronze	0 – 1,000	Community Support & Digital Visibility	Logo on website, social media mentions, newsletter inclusion	Basic access to recruitment fairs	Recognition on website & annual appreciation video
Silver	1,001 – 2,000	Event Access & Engagement	Logo on team uniforms & event materials, product demo opportunities	Access to CV database, 1 recruitment/showcase event	Invitation to annual Sponsor Day & early event invites
Gold	2,001 – 5,000	Strategic Collaboration & Talent Pipeline	Primary logo on rover & event banners, co-branded content, premium booth space	Recruitment workshop, prototype previews, annual team strategy session	Co-branded LinkedIn post, “Innovation Partner” nomination
Strategic Partner	5,001+ (negotiated)	Title Rights & Deep Partnership	Title/Technology Partner status, joint PR announcements, branding on major assets	Priority hiring, dedicated internship pipeline, invite to design reviews/test sessions	Title Sponsor recognition, feature video, speaking opportunity at flagship event

“Your investment drives innovation — and builds a visible legacy in European robotics”

## VIII. Partners

We are proud to collaborate with organizations that share our vision for European innovation.



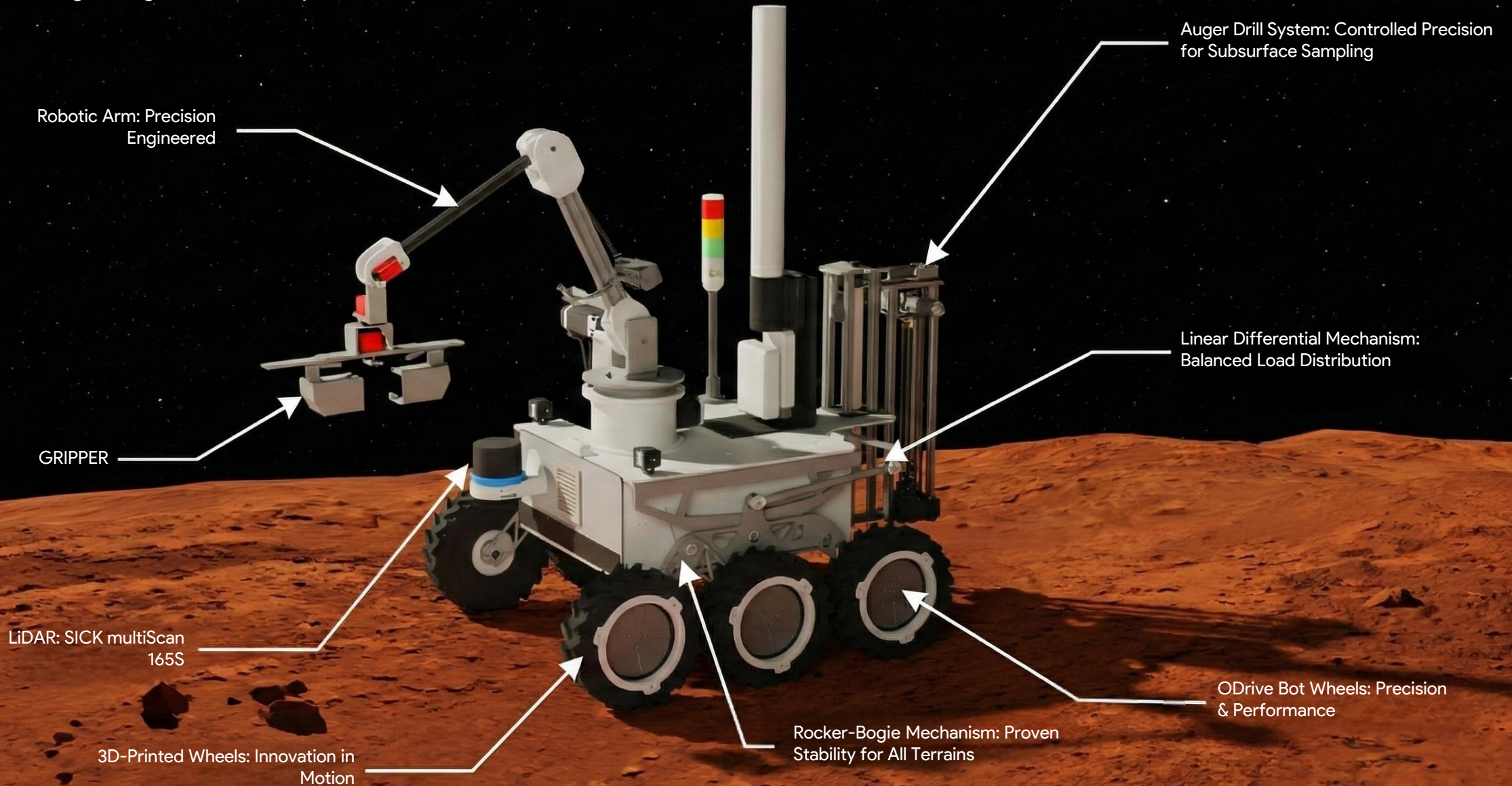
**BOEHM Group GmbH**, a leader in precision engineering, supports HSM ARIES with **materials and manufacturing expertise** for the **Leap-One rover**. Their contribution ensures high-quality production, precision craftsmanship, and real-world engineering excellence. Together, we are shaping a **long-term partnership** built on innovation and future-focused collaboration.





# HSM ARIES Sponsorship Dossier

Engineering the Future, Today.



Robotic Arm: Precision Engineered

GRIPPER

LiDAR: SICK multiScan 165S

3D-Printed Wheels: Innovation in Motion

Rocker-Bogie Mechanism: Proven Stability for All Terrains

Auger Drill System: Controlled Precision for Subsurface Sampling

Linear Differential Mechanism: Balanced Load Distribution

ODrive Bot Wheels: Precision & Performance



# HSM ARIES Sponsorship Dossier

Engineering the Future, Today.



## IX. How to contact us



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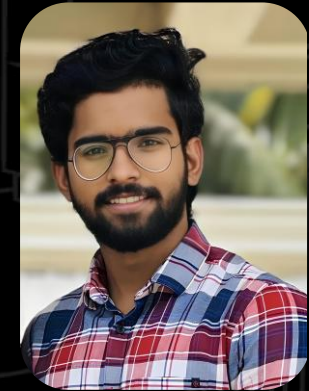
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**Harshavardhan Raju Gottimukkala**

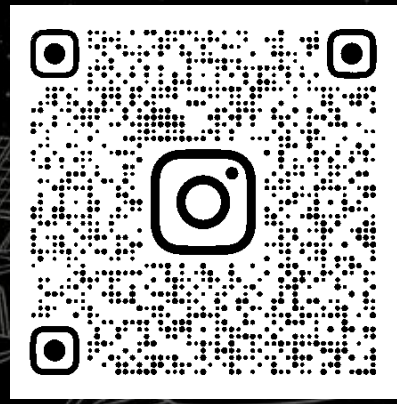
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Contact us at [leapone@hsmaries.space](mailto:leapone@hsmaries.space) to schedule a collaboration meeting



HSM-ARIES Website



HSM-ARIES Instagram



HSM-ARIES LinkedIn