HARDWARE RECONFIGURED BY SOFTWARE.

Electrostatic robot swarms that self-assemble into reconfigurable tools in orbit, starting with a lunar dust shield.

TRL TODAY
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Components on the bench; microrobot TRL 6 in 2029

FUNDRAISING AMOUNT
€6M seed (6 000 K€)
Equity seed, first of two rounds: total need €12M with a €6M Series A in 2030

TAM 2031
€9.7bn
€15.0bn in 2035

SIGNED REVENUE
€439k
Since Q3 2025

PROBLEM

Satellites are frozen at launch: the interface and the toolbox are chosen before lift-off, with one tool per task and no standard servicing interface on most targets. Healthy, high-value spacecraft are retired early, cannot be repaired or upgraded, and orbits keep filling with debris. Rules now require action on objects already in orbit (FCC five-year rule, ESA Zero Debris Charter), and the first private GEO servicer launched in July 2026.

SOLUTION

Phigi masters active electrostatic actuation. Our high-voltage drivers power a first product, the Electrodynamic Dust Shield (EDS) for lunar hardware: lab drivers from 2027, space dust shield from 2028 with ispace. The same core drives swarms of 4 mm, 25 mg solar-powered, battery-free robots that self-assemble into the tool the mission needs: attitude control without fuel on macrorobots (2031), then microrobots for inspection (2033), docking and debris capture (2035) and in-orbit assembly, with defence (dual use) in parallel from 2031. **A new tool is a software upload, not a new launch.**

TARGET MARKET

Space hardware on one electrostatic core: lunar dust protection (EDS, our near-term market), attitude control and in-orbit servicing (inspection, docking, debris removal, assembly), plus defence.

€9.7bn	€386.7M	€14.79M
TAM 2031	SAM 2031	SOM 2031
€15.0bn in 2035	€1.00bn in 2035	€108.1M in 2035

BUSINESS MODEL

Reconfiguration as a Service: buy the swarm once, pay per reconfiguration.

- Swarm sale: an inspection swarm.
- RaaS: each reconfiguration is billed relative to the use case.
- Revenue before the swarm: lab HV drivers, then space EDS units.

TRACTION

- **€439k** signed revenue since Q3 2025; **€1.7M** public funding secured since 2022 (France 2030, JEI, CIR).
- Contracts: CNES R&T (Nov 2025), ArianeGroup feasibility study (Mar 2026), ESA feasibility study (Apr 2026).
- 35 in-depth interviews; interest from Exotrail, OHB Czech, Thales Alenia Space.
- Strategic committee: Airbus, ArianeGroup, Space Cargo Unlimited. VivaTech 2025 Top 30 Innovation.

IP

Exclusive worldwide licence, all fields, until the last patent expires (via SATT Sayens, Dec 2025), on patent family FR3136393A1 with PCT extensions. Co-owned by the University of Michigan (50%) and French public research (UMLP 42.5%, CNRS 7.5%), founders among the inventors; chain of title audited by an IP firm. CMOS chips classified EAR99, ITAR free, by the US Department of Commerce (BIS); chip made in Europe by X-FAB.

TEAM

Rémy Tribhout
FOUNDER, CETO
Systems engineer: 4 years at Thales, 4 years head of the hardware team at FEMTO-ST. Co-author of the 2022 IEEE VLSI paper on the robot's on-chip generator. INSA Toulouse, HEC Paris certificate.

David Blaauw
FOUNDER, CSO HARDWARE
Professor, University of Michigan, head of the Michigan Integrated Circuits Lab. 74 US patents in ultra-low-power circuits, co-developer of the Michigan Micro Mote, co-founder of Ambiq Micro and CubeWorks.

Julien Bourgeois
FOUNDER, CSO SOFTWARE
Professor, University of Franche-Comté, head of the OMNI team at FEMTO-ST (CNRS). Leads distributed MEMS and swarm control research since 2006.

Plus 5 employees (test bench, micromechatronics, mechatronics, microfabrication, multiphysics): 7 FTE today. Founders are co-inventors on the patents.

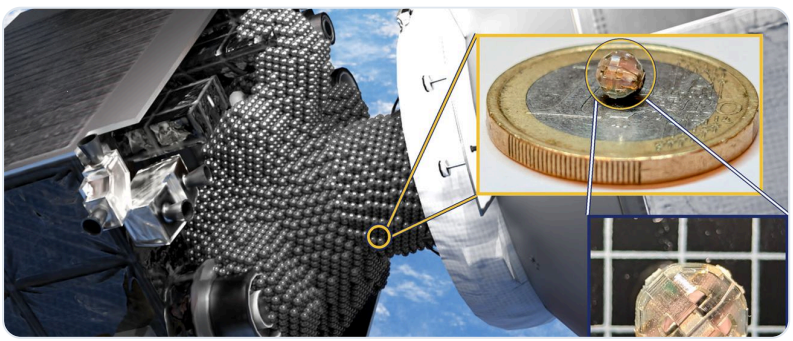
FUNDRAISING GOALS: €6M SEED, 2027 TO 2029

1 EDS revenue first
Lab HV drivers from 2027, first space dust shield in 2028 and EDS space certification, on the same high-voltage core as the robots.

2 Robots to TRL 6
TRL 4 in 2027 with the first macrorobot and a zero-G flight, TRL 5 in 2028, TRL 6 in 2029 with the ISS Nanoracks payload: first self-assembly in microgravity.

3 Team and tools
From 7 to 22 FTE by 2029, in-house chip design, radiation testing and pre-series industrialisation.

Seed budget 2027 to 2029: €5.9M (R&D €1.35M, staff €3.56M, CAPEX €1.0M). Next: Series A €6M in 2030, attitude control in orbit in 2031. Total plan €12M.



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