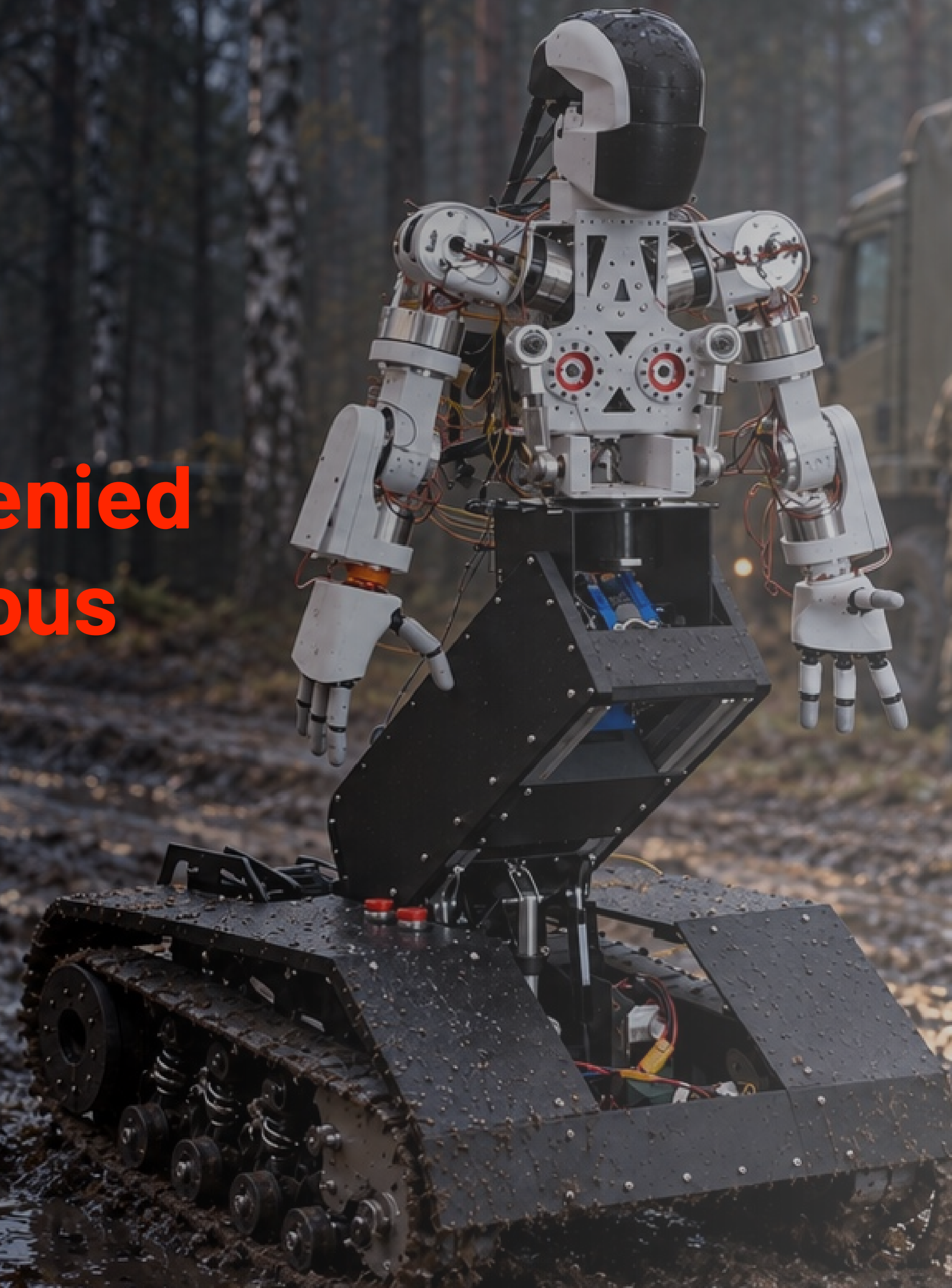


Si Robotics

**Embodied AI for human-denied
environments and dangerous
physical work**

**Building Europe's
sovereign robotics prime**



Critical missions still depend on humans
for hazardous physical work



Loading / unloading



IED / Demining



Casevac



Attritable semi-humanoid

A human-scale, mission-configurable robotic worker for physical work that is too hazardous for humans.

Human-scale

Designed to operate in environments built for people

Human-supervised

Useful before general-purpose autonomy is solved

Modular

Payloads, mobility, tools and mission software can evolve



Traction

Capability discussions and collaboration development with defence primes and end-users.







€220k+

contracted in 2026

€2M+

projected in 2027

€30M+

active pipeline

2

complete prototypes

8

in-house engineers

Industrial applications



Go-to-market

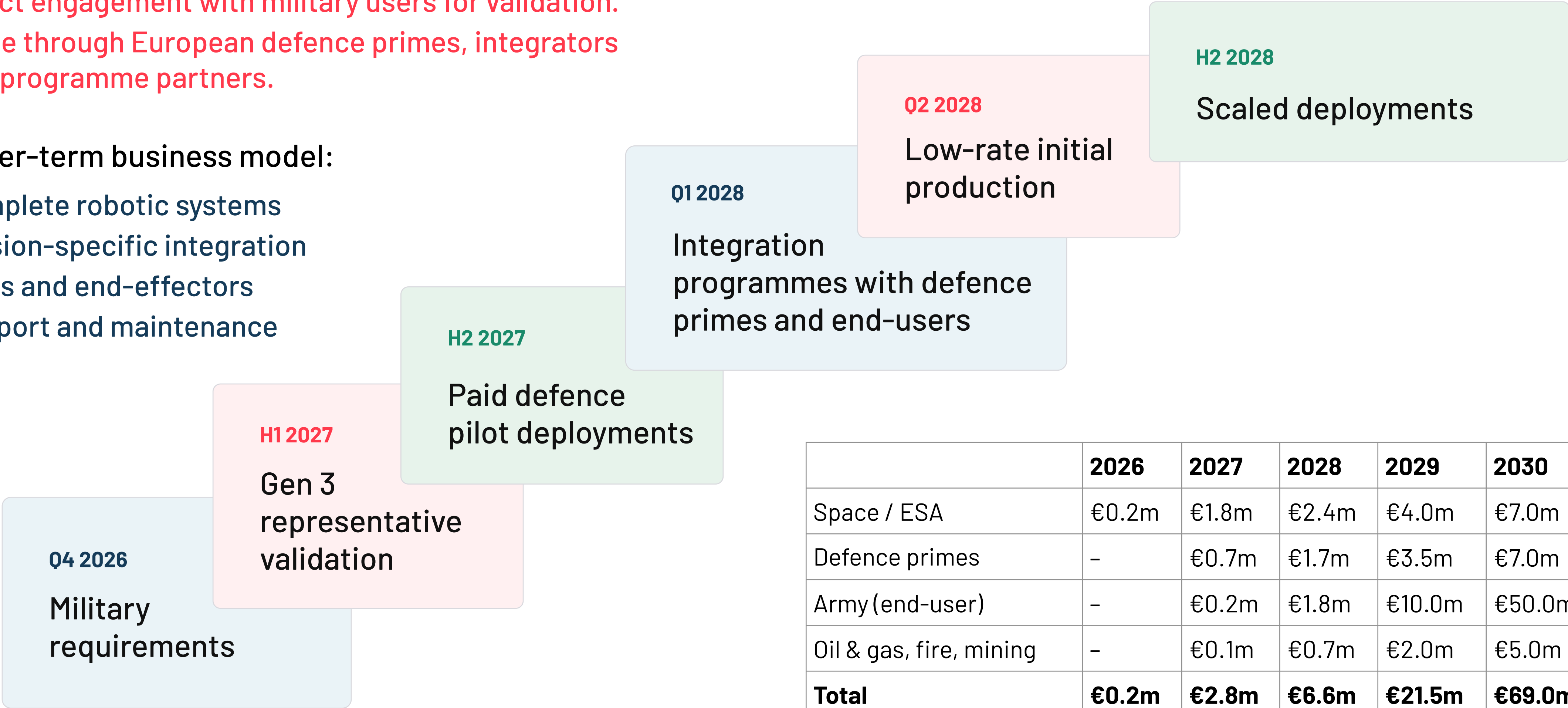
Turn integrated capability into customer evidence, production evidence and procurement evidence

Primary route:

- Direct engagement with military users for validation.
- Scale through European defence primes, integrators and programme partners.

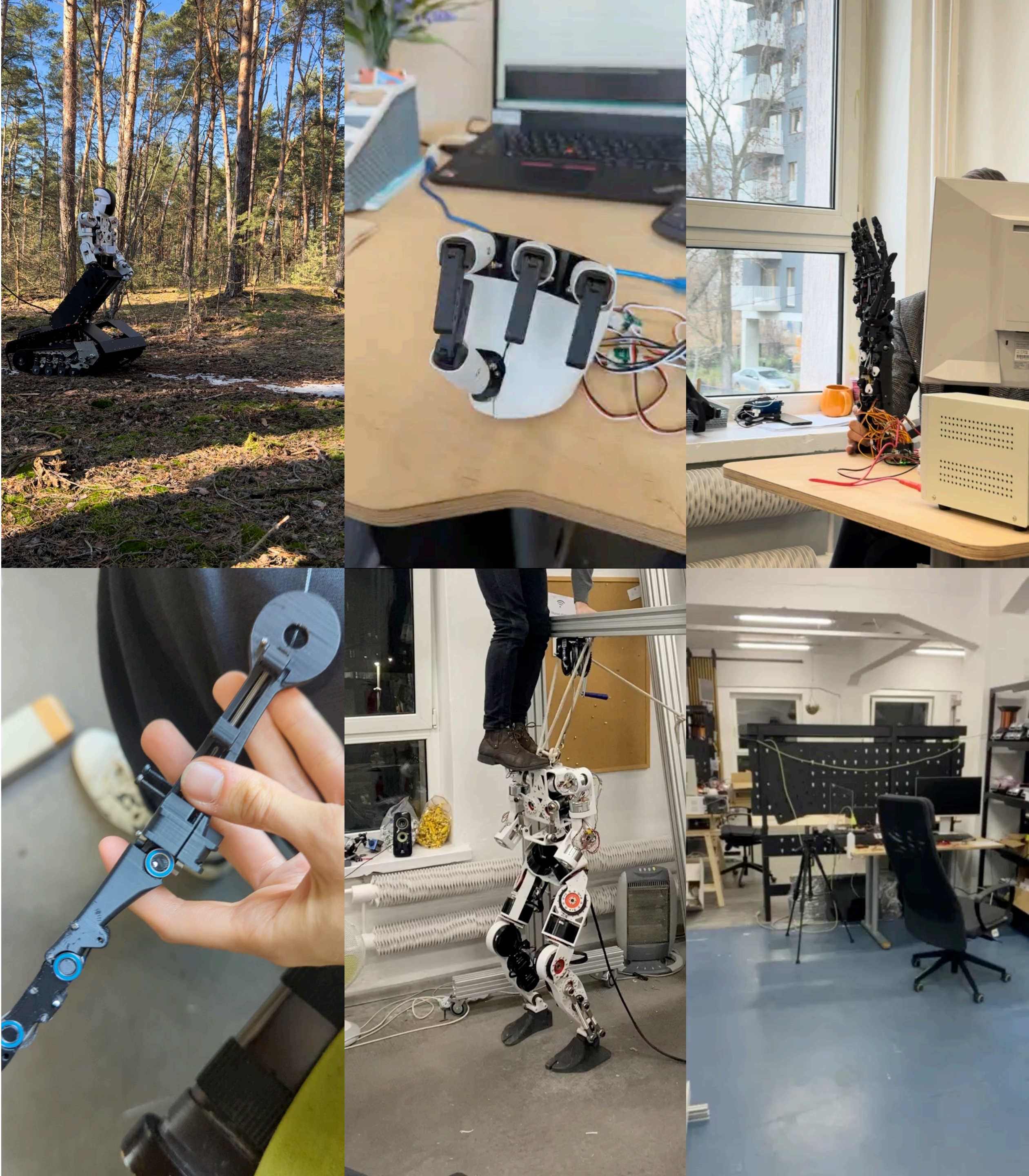
Longer-term business model:

- Complete robotic systems
- Mission-specific integration
- Tools and end-effectors
- Support and maintenance



Si Robotics advantage

Full-stack actuation	BLDC systems, winding, balancing and assembly
Force-aware manipulation	Contact-rich work with human-compatible force control
Deploy before autonomy	Useful field capability under human supervision
Programme-to-product	Paid studies become qualified, repeatable systems
Sovereign production	European supply-chain ownership and manufacturing path



Team



Patryk
Szymczak
CEO



Tomasz
Zuzaniuk
CFO



Patt
Paluszek
CSO



V
Head of Robotics



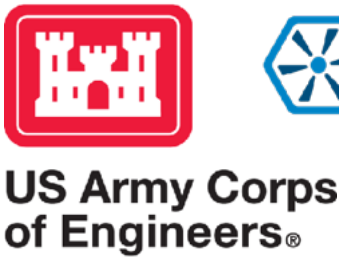
Szymon
Dzwonczyk
Head of Space



advanced
protection
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US Army Corps
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KGHM
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CRH



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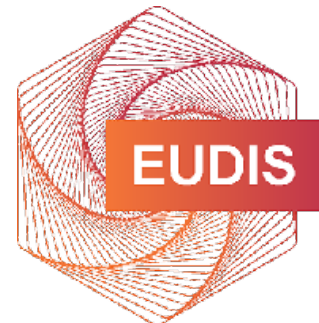
MERCATOR



Skin OS



THERME
GROUP



EUDIS



3RE.CO



Ukrainian military emblem



Pomsta
Brigade



L4FORCE



LEO ROVER



spyrosoft



JPL
Jet Propulsion Laboratory
California Institute of Technology

Advisors



Tomasz
Wierzchowski
Robotics



Jerzy
Gut
Security Affairs



CEC
GROUP



Kacper
Grzesiak
Space



dyson



BOSCH



AMERICAN CHAMBER OF COMMERCE
IN POLAND



U.S. HOUSE OF
REPRESENTATIVES



WAT



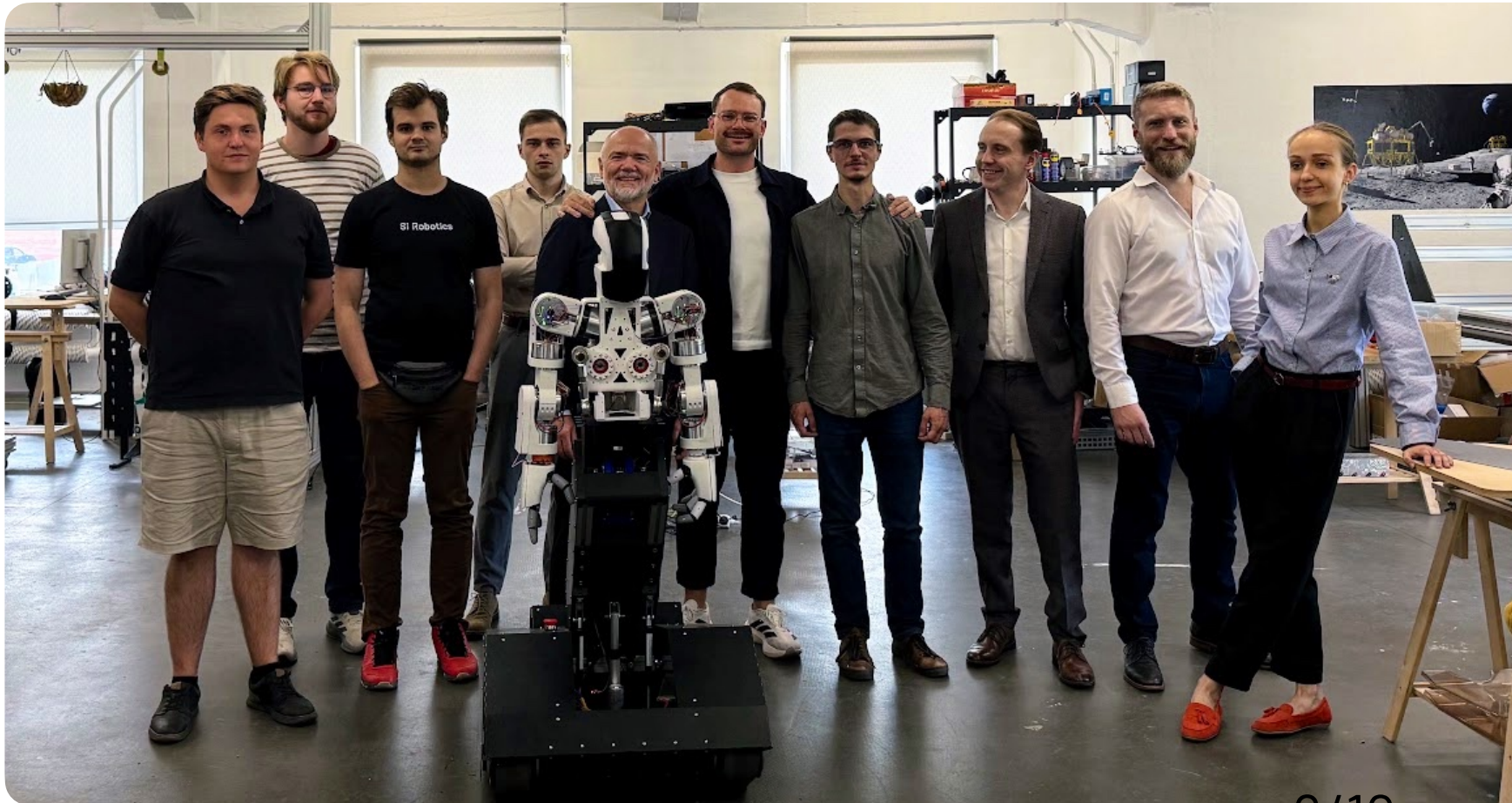
ICEYE



NYU

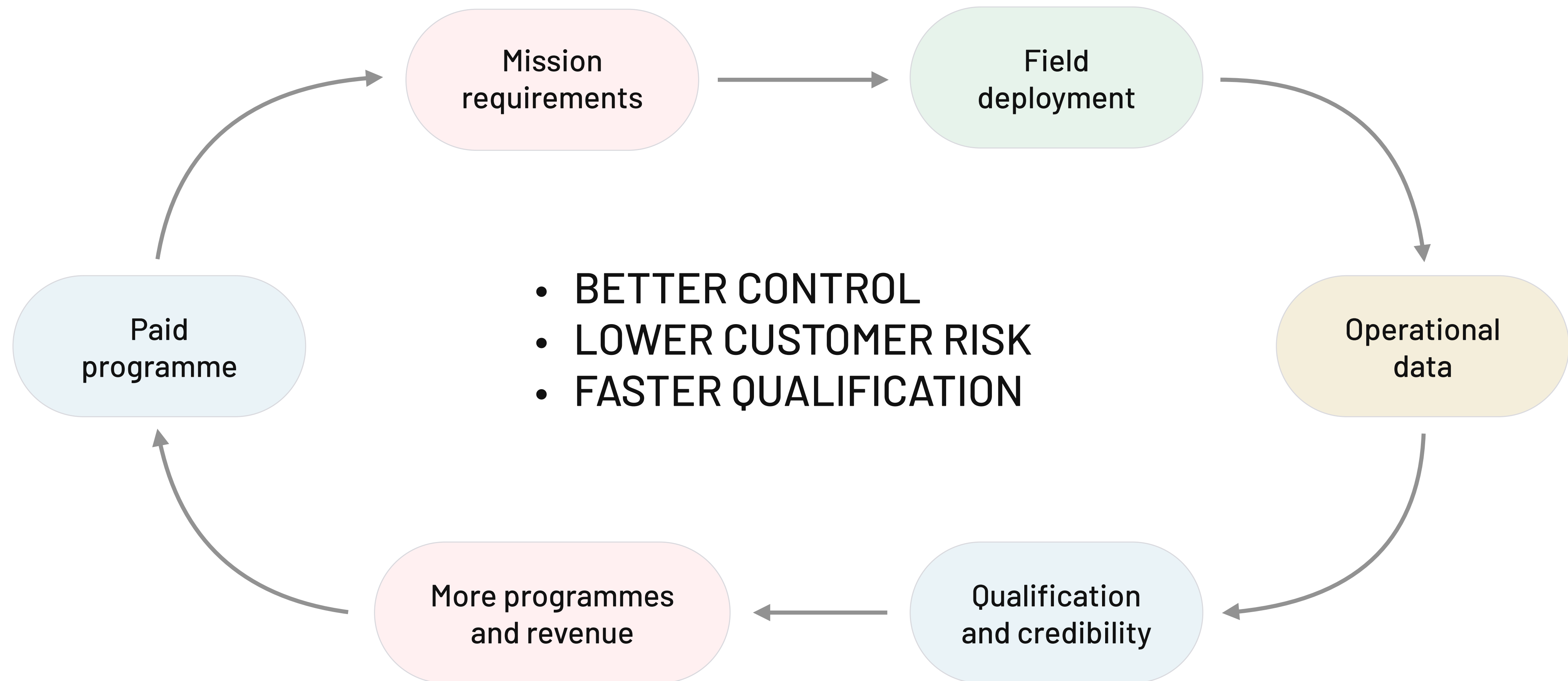


INSEAD



The deployment flywheel

Every deployment compounds data, qualification, credibility and production advantage



More deployments make the next deployment easier, faster and more valuable.

High-risk jobs that Embodied AI should do

Defence

- Load and unload supply crates.
- Carry ammunition and equipment.
- Load vehicles and containers.
- Deploy and connect power cables and field generators; Lay and organize cables.
- Replace batteries in UAVs and UGVs; recover and prepare drones.
- Open vehicle hatches and panels.
- Move obstacles and damaged equipment; remove debris from access routes
- Enter and inspect suspicious buildings; manipulate suspicious packages remotely.
- Collect samples from contaminated areas.
- Operate valves and control panels.
- Deploy cameras, sensors and antennas
- Refuel generators and vehicles.
- Move casualties.
- Load stretchers into vehicles.
- Deliver tools and medical supplies.
- Perform simple field repairs.

Fire & Rescue

- Remove debris during post-fire overhaul.
- Move burned beams and structures.
- Open doors in hot buildings.
- Pull and position fire hoses.
- Search rubble and expose hot spots.

Mining

- Connect hydraulic and air hoses.
- Disconnect utilities before maintenance.
- Open and close large valves.
- Clear conveyor jams.
- Remove oversized rocks from belts.
- Replace sensors and cameras.
- Clean cameras and inspection windows.
- Lubricate maintenance points.
- Operate ventilation doors and gates.
- Deliver tools and spare parts.
- Reposition hoses and cables.
- Inspect hazardous areas after incidents.

Oil & Gas

- Open and close manual valves.
- Connect and disconnect hoses.
- Handle pipe couplings and fittings.
- Replace filters and cartridges.
- Replace sensors and transmitters.
- Operate control panels and switches.
- Collect liquid and gas samples.
- Inspect leaking equipment remotely.
- Clean inspection windows and sensors.
- Apply grease to service points.
- Carry tools and spare parts.
- Open hatches and access panels.
- Handle chemical containers.
- Position temporary gas detectors.
- Manipulate equipment after a leak or fire.
- Inspect confined or hazardous areas.
- Operate emergency shut-off valves.
- Position portable pumps and hoses.
- Drain and reconnect process equipment.
- Support technicians during field maintenance.

Why now

One physical execution stack, multiple high-consequence environments

DEFENCE

**Deploy under human supervision first.
Capture mission data.**

**Scale through repeatable
manufacturing.**

Forward logistics · hazardous manipulation
· engineering · recovery support

EXPANSION

Energy · chemical · mining · nuclear · shipyards

The common job is physical work where humans cannot safely,
continuously or economically operate.

EUROPEAN DEFENCE ALIGNMENT

**Si Robotics sits at the intersection
of several European defence
capability priorities:**

- Ground combat
- Unmanned systems
- Robotics and autonomous systems
- Force protection
- Hazardous operations
- Digital transformation of military systems
- European strategic autonomy

EDF allocates significant funding to Ground Combat and Digital Transformation, including AI-based tactical technologies using robots and also contains an unmanned platform topic for ammunition waste collection and disposal.

Proof of Value: 18-month plan

RAISING

Round: €5M Seed
First close: €2.5M
Lead target: €1.5 – 2.5M

USE OF FUNDS

45% Engineering and product generations
25% Manufacturing and test infrastructure
20% Field deployment and customer programmes
10% Quality, compliance and operating capacity

**From technical capability
to a European robotics prime**

0-6 MONTHS

Joule Gen 1 and 2

- Customer mission requirements
- Space programme execution
- Actuation production development

6-12 MONTHS

Joule Gen 3

- First multi-unit deployments
- Space and defence pilots
- Reliability and maintainability

12-18 MONTHS

- 15-50 deployed units
- 1,500-5,000 operating hours
- Repeatable actuator production
- Follow-on contracts

Transforming Defence Capabilities with Frontier Embodied AI

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Appendix A1 • Why better than human workforce?

A military workforce node with human-compatible physical capability, but

- without the biological fragility,
- training latency, and
- personnel burden of a human soldier.

- **No human casualty** exposure
- 24/7 operation without sleep
- No **food** or **water dependency**
- No **fear, panic** or **desertion**
- Operates in CBRN and **toxic zones**
- Can **keep working** after **partial damage**
- **Repairable** and returnable to service

- **Scales** through **manufacturing, not recruitment**
- Shorter training cycle
- **No psychological fatigue**
- **No loss of physical endurance** over time
- Effective in darkness, smoke and poor visibility
- Fleet-wide skill sharing
- **Lower political cost** of battlefield losses

Appendix A2 · Competitive landscape

Technical capability is already moving into programmes, prototypes and pipeline

PLAYER	PRIMARY FOCUS	WHY THEY MATTER	SI DIFFERENCE
	Space robotics and on-orbit services	Closest space overlap	Mission-specific space systems
 	Defence UGVs and autonomy	Defence procurement access	Ground mobility over human-scale manipulation
 	Industrial inspection and hazardous sites	Hazardous deployment	Inspection-first, less dexterous work
  	Mobile and constrained manipulation	Technical niche overlap	Smaller platforms or specific mechanisms
 	General-purpose humanoids	Capital and talent benchmark	Structured industrial deployment first
 + PPE / fixed automation	Current operating model	Incumbent substitute	Exposure, fatigue or narrow flexibility

Our intended white space is the intersection of human-scale manipulation, force-aware actuation, human-supervised deployment and European production.

Appendix A3 · Deploy before autonomy

Our solution is the physical execution layer for embodied AI

AI partners	Perception · planning · task intelligence
API and mission interface	Human supervision · telemetry · mission replay
Motion and manipulation	Embedded control · force-aware contact work
Actuation	BLDC systems · tendon-driven joints · compliant transmission
Embodiment	JOULE · robotic systems · mission-specific payloads



Si Robotics

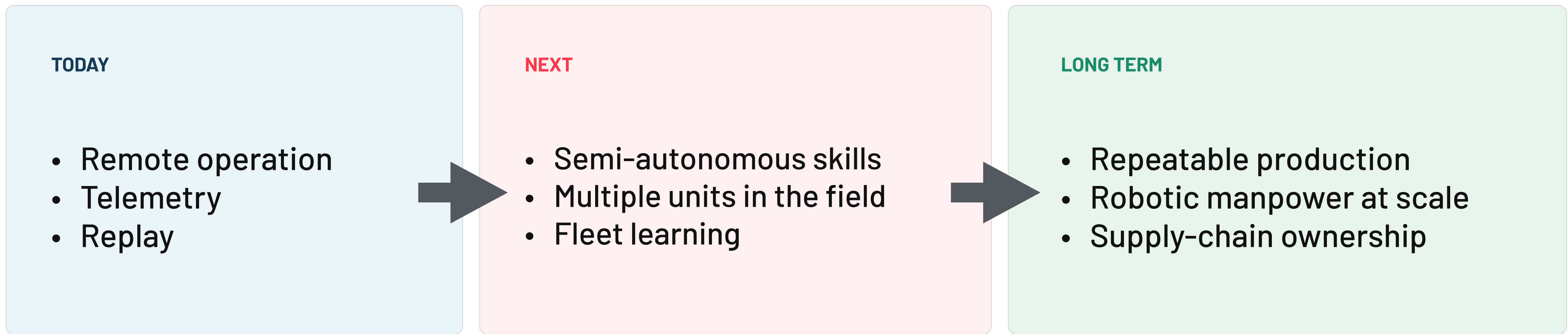
Si Robotics

Si Robotics

We make the machine. AI partners can build on top of it.

Appendix A4 · JOULE product evolution

From supervised worker to sovereign robotic manpower



The company is the reusable stack.
JOULE is the first body that makes it tangible.

Appendix A5 • Value capture

In 2026, we own 65,5% of the value of stack:

- 100% Motors & actuation
- 50% of software
- 100% of Integration & assembly
- 50% of Services

In 2036, we shall own 72%

- 100% Motors & actuation
- 100% of software
- 100% of data
- 100% of Integration & assembly
- 100% of Services

Who gets paid when a robot is sold?

The same Physical AI market, sliced by who captures the revenue. Hardware and assembly take 69% today and still 62% in 2036. Software grows fastest, but it is not the biggest slice.

2026 \$153B



2036 \$1.15T



Layer	2026	2036	Share 2026	Share 2036
Chips and compute	\$14B	\$126B	9%	11%
Sensors	\$18B	\$126B	12%	11%
Motors and actuation	\$28B	\$172B	18%	15%
Batteries and power	\$9B	\$69B	6%	6%
Models and software	\$15B	\$172B	10%	15%
Simulation and data	\$6B	\$57B	4%	5%
Integration and assembly	\$37B	\$218B	24%	19%
Services and robots-as-a-service	\$26B	\$206B	17%	18%

Models, software, simulation and data grow from 14% of the market to 20%. That is the layer the AI labs are fighting over. The other 80% is still metal, batteries, chips, and the people who install and run the machines.

USD, base case. The value-layer split is a top-down allocation of the deployment total and ties out to the same \$153B and \$1.15T; it answers where revenue accrues, not how big the end market is. Estimates, not audited data. Sources: Future Markets Inc value-pool analysis, BCG, company filings. Full method in the comments.