FLUID WIRE ROBOTICS

TAKE ROBOTS ANYWHERE











scientifica

Jeep ocean capital

PROBLEM



TRADITIONAL DESIGN APPROACHES TO ROBOTICS FOR HARSH ENVIRONMENTS **DO NOT SCALE**









MISSION

FWR AIMS TO DEFINE THE **NEW ROBOTICS STANDARD** FOR HARSH ENVIRONMENTS



FWR develops robots capable of delivering advanced robotic capabilities in *ANY* environmental condition, with extreme reliability, simplicity and cost-efficiency



SOLUTION

EXTERNAL ACTUATION BOX

Electronics, sensors and electric motors are housed in the box

FLUID WIRES

High-quality, fluidic transmission system

FLUID WIRE ROBOTICS

ROBOTIC ARM

Passive structure, inherently compatible with any harsh environment

3 Patents filed



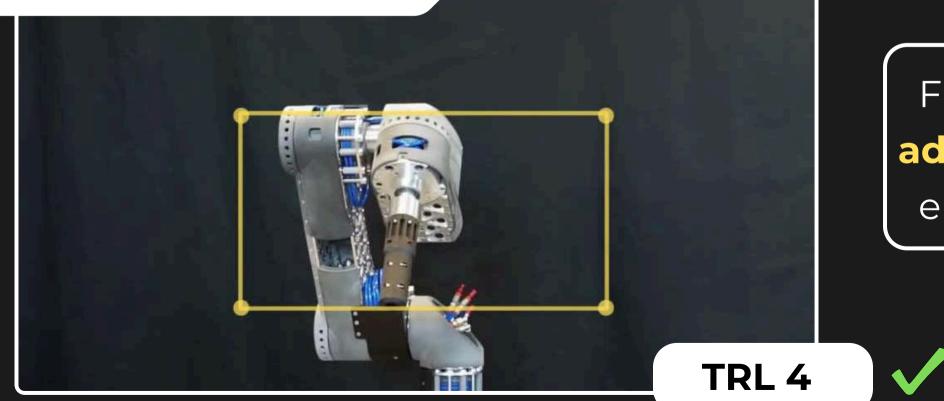
SOLUTION



A wide range of capabilities have been demonstrated in a lab environment

The robotic arm is completely **SENSORLESS**. It neither embeds any sensors nor actuators!

ACCURATE POSITIONING



*Click here to see the videos

Fluid Wire Technology is the ideal platform for advanced and reliable manipulation in extreme environments. *(teleoperation mode available)*



MARKETS



APPLICATIONS

- Inspection & Maintenance
- Radiactive material and waste handling
- Decommissioning tasks

COMPETITIVE ADVANTAGES

- Reliability in radioactive conditions
- Slender arm ideal for accessing narrow spaces
- Modular and reconfigurable for custom needs

n.1 LOI <> nuclear reactor manufacturer

APPLICATIONS

- In-orbit servicing
- Active debris removal
- Collaborative/autonomous assembling

COMPETITIVE ADVANTAGES

- Lightweight & low-inertia arm
- actuators and highly dynamic movements

n.1 LOI <> system integrator (work in progress) •eesa-BIC 24-month incubation program

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Harsh & Innovative Industrial

Underwater

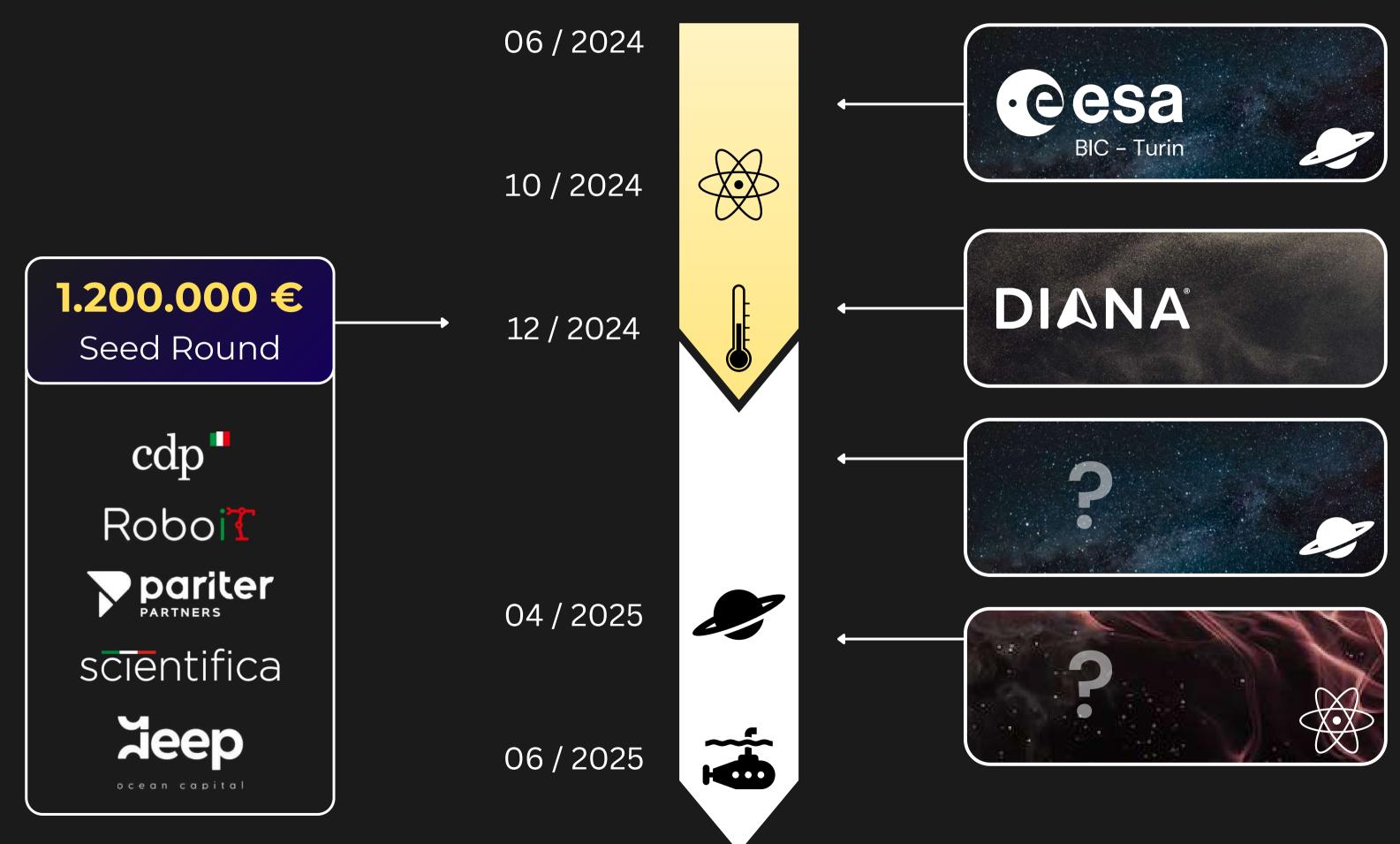
• Superior thermal dissipation >> undersizing of

APP.

- ATEX/Ex
- Portable Arms
- Mobile Platforms
- Foundry
- Shipyards
- Off-shore

n.1 LOI <> robot manufacturer

ROADMAP



INCUBATION 24 months *50 k*€

ACCELERATION 6 months 100 k€



PoC



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