

KEYNOTE

EMERTONDATA

Humanoids are knocking
on the doors of industry
with real use cases.
Who is opening it?

MAY 15, 2025



We are pionnering AI humanoids support for industry

Who we are

EMERTONDATA

AI research & consulting company

Business focused with industry DNA

Strong R&D with 25% PhDs

AI robotics practice launched early in
2024

What we do



Acculturation & hands-on training

Humanoid selection, ordering and first
trainings

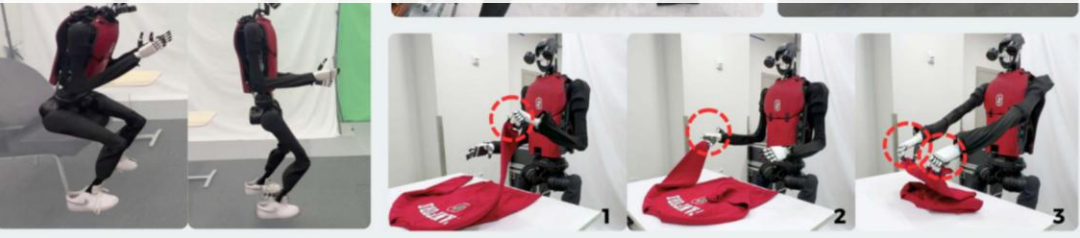
Strategy and use cases identification

Specific use cases development

The humanoid moment is coming in few months powered by a convergence of breakthroughs



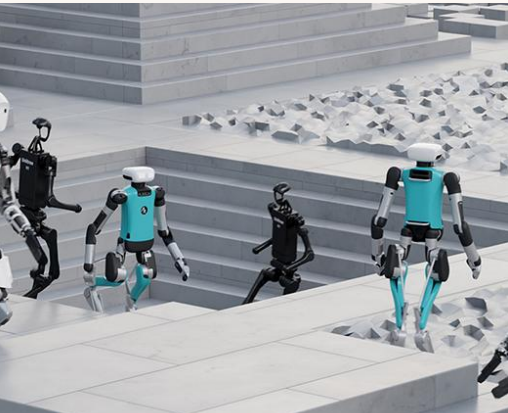
EMBODIED DATA
with millions of available episodes



HUMANOID ROBOTS
with 30+ serious players



PHYSICAL AI
To power intelligent robot motion



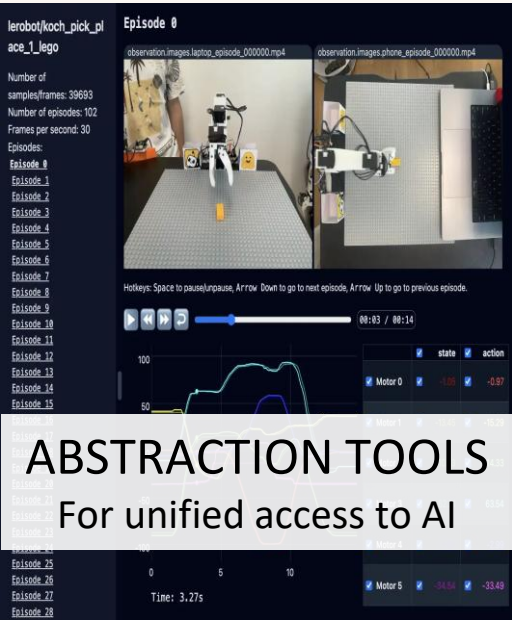
SIMULATION
to generate synthetic data



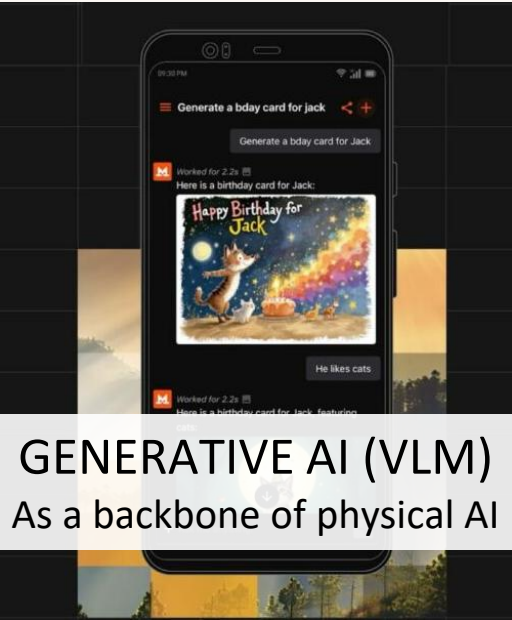
SMART GLASSES + VR
to capture data, teleoperate



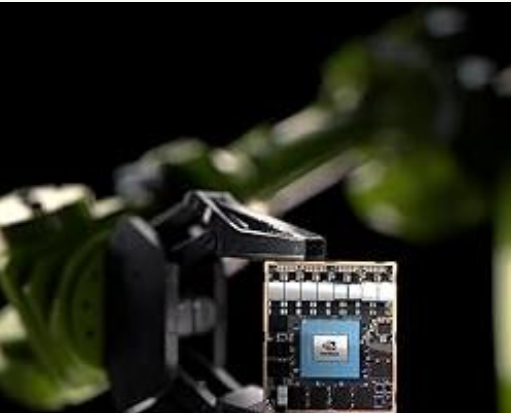
3D PRINTING
For affordable robots



ABSTRACTION TOOLS
For unified access to AI

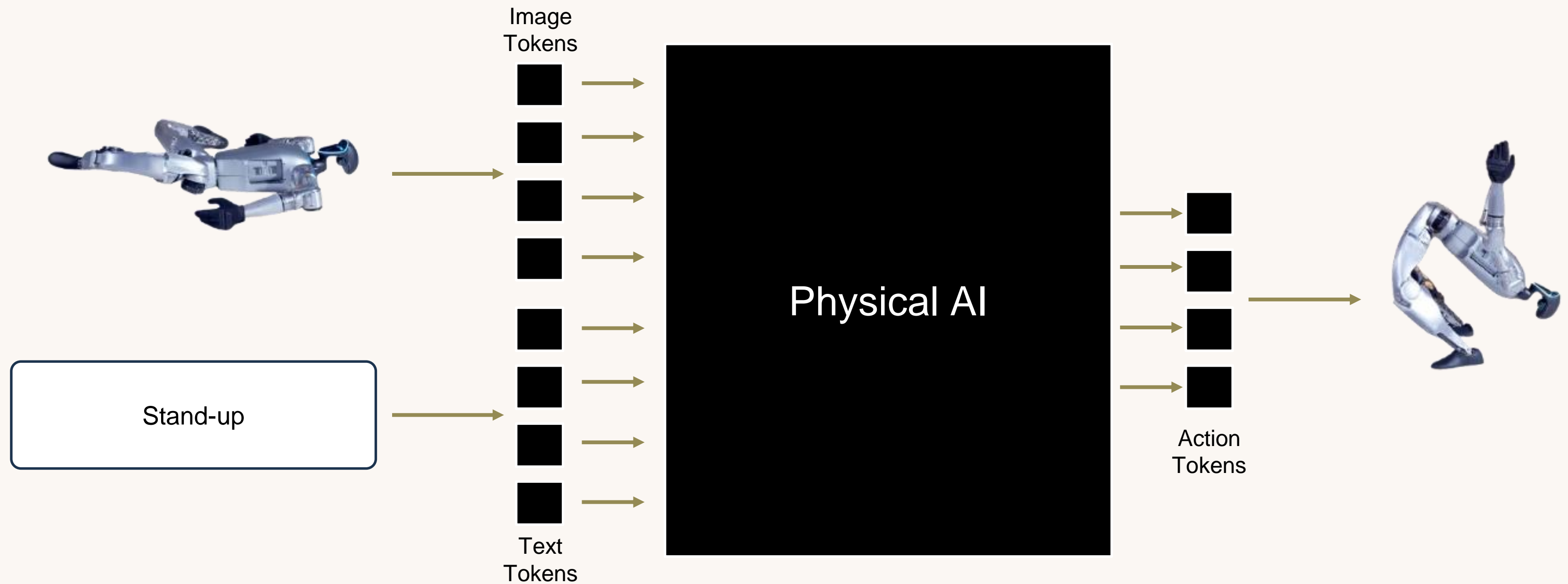


GENERATIVE AI (VLM)
As a backbone of physical AI



AI CHIPS
To train and live inference


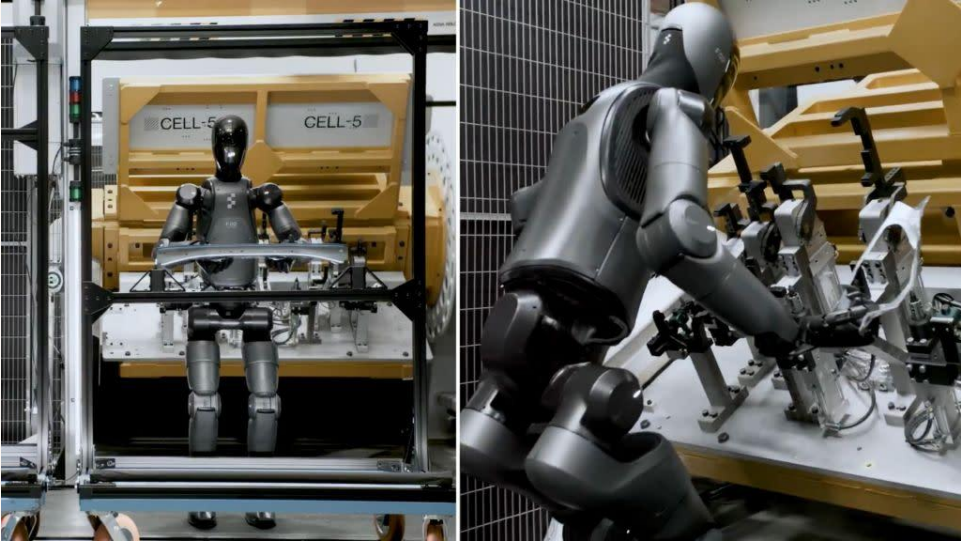





















Transition from Generative AI for text/images to Generative AI for movement and real-world interaction






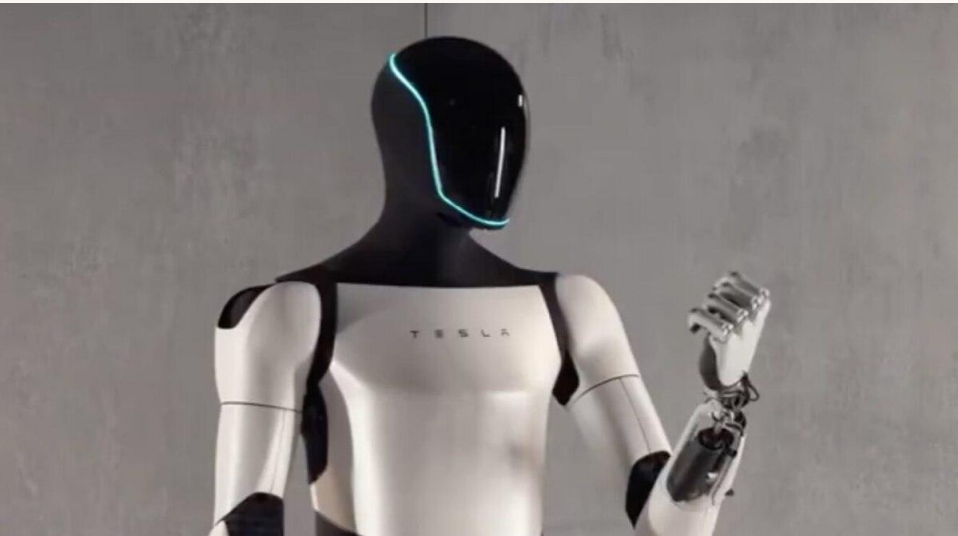


















More and more players are coming into the game

 <p>Ameca  </p>	 <p>Sophia  </p>	 <p>ARI  </p>	 <p>Mirokaï  </p>	 <p>Reachy 2  </p>	 <p>Surena IV  </p>	 <p>GR-1 (GR-2 coming)  </p>	 <p>Menteebot  </p>	 <p>4NE-1  </p>
 <p>Digit  </p>	 <p>CyberOne  </p>	 <p>Atlas  </p>	 <p>NEO  </p>	 <p>Figure-02  </p>	 <p>Phoenix  </p>	 <p>Apollo  </p>	 <p>G1 & H1  </p>	 <p>Optimus Gen 2  </p>

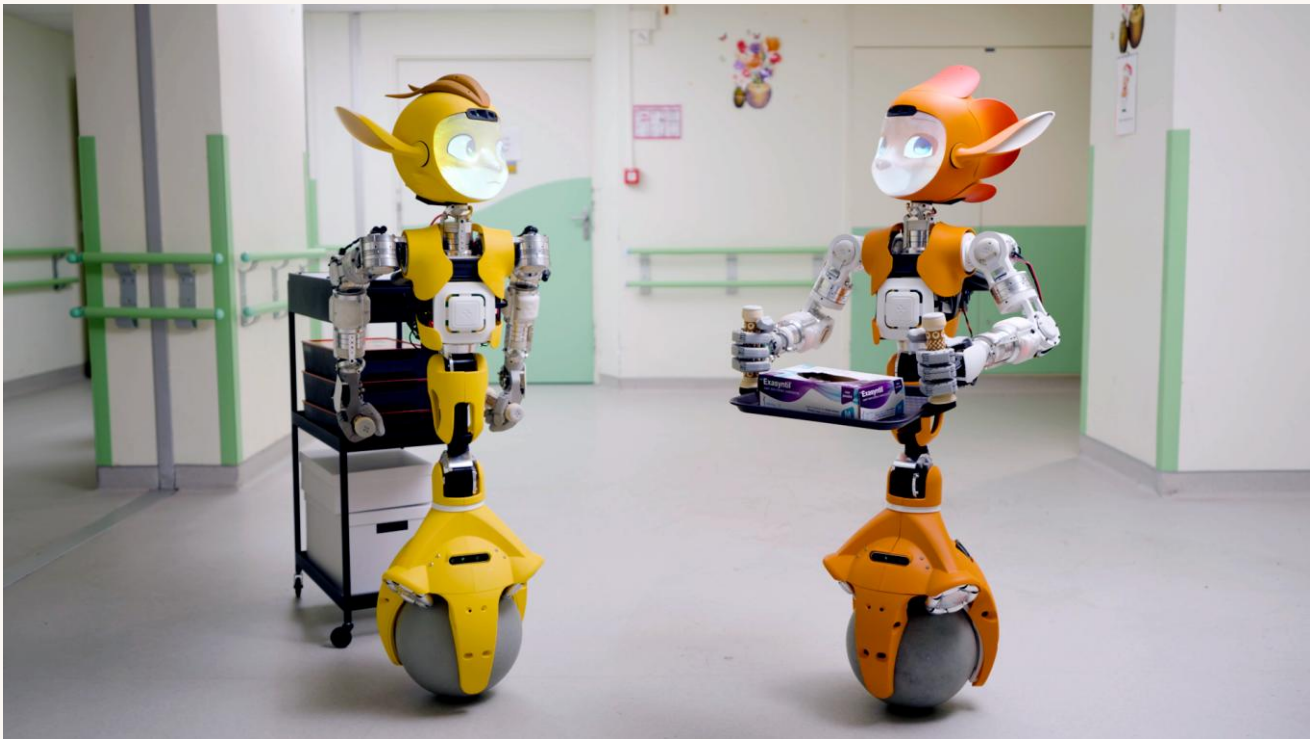
Some players already have clients and are about to scale

KEY PLAYER	 	 	 
	AI PARTNER 		
	KNOWN CLIENTS  + “one of the biggest U.S. companies”	  	Numerous research labs, companies, and even individual tech enthusiasts worldwide
	FUND RAISING 700M\$+ raised (Series B)   	150M\$ (Series B) + expected 400M\$    	150M\$ (Series A)   
	PATH TO SCALABILITY Objective: ship 100,000 units by 2029 with already one factory with 12,000/year capacity	100 already deployed, new factory built in 2024 with an expected capacity to build hundreds of Digit robots in the first year, scaling to 10,000+ per year at full rate	1000+ already sold, Unitree’s goal is to scale and affordability with an open-source approach

Others are refining their products to enter the market

KEY PLAYER			
			
			
		<i>Dozens of early domestic adopters</i>	   
	Not raised any separate outside capital 	126M\$ (Series B)   	400M\$+ (Series A)    
PATH TO SCALABILITY	No commercial sale or lease of Optimus yet with a target of 5,000 units in 2025 and 50,000 in 2026 targeting 1M/year at \$20k	Target 100 to 1k units by 2025 with a potential target price around \$30k	Targeting a full commercial launch of Apollo by 2026 after the current pilot phase

France is clearly behind, but can still decide to run the race



Hugging Face

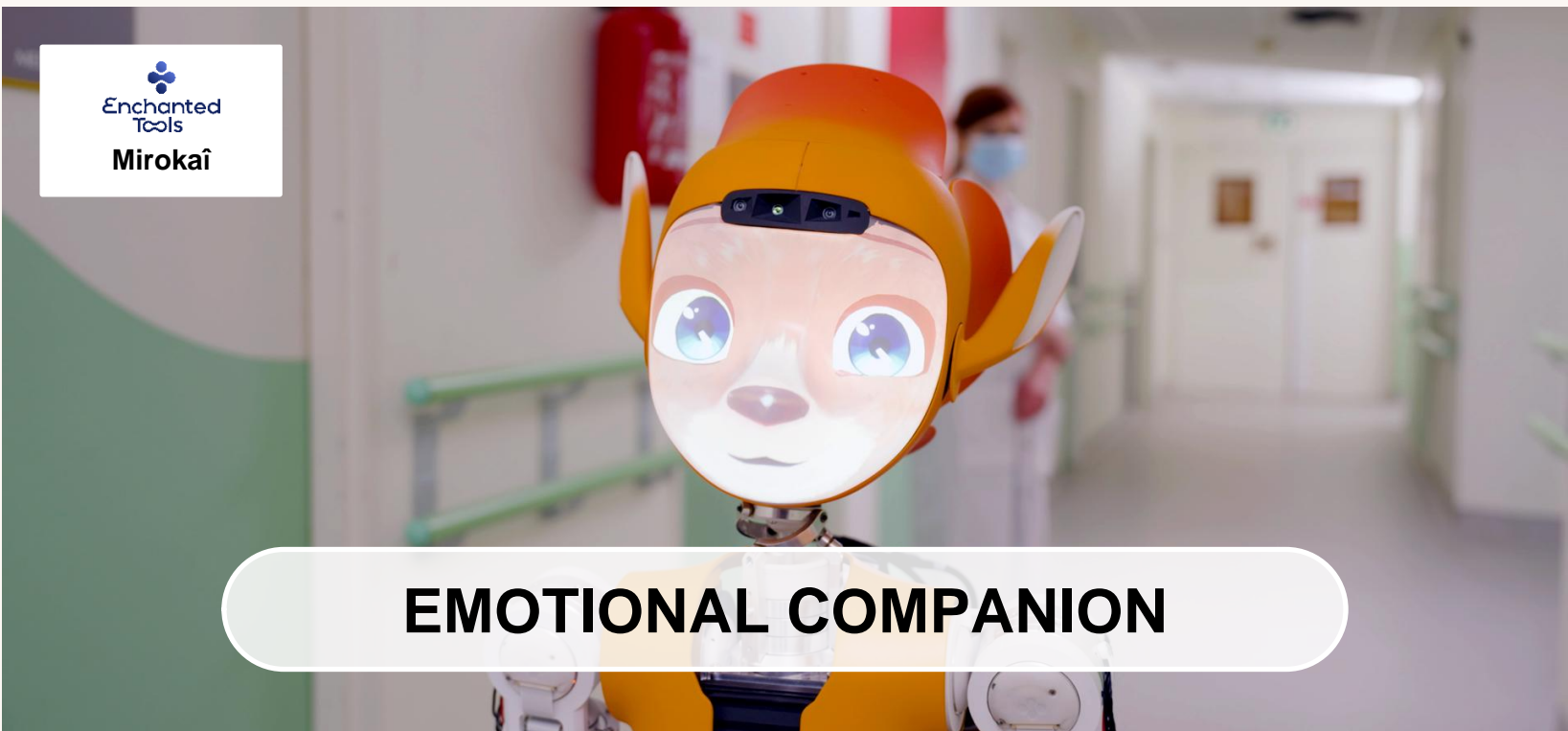


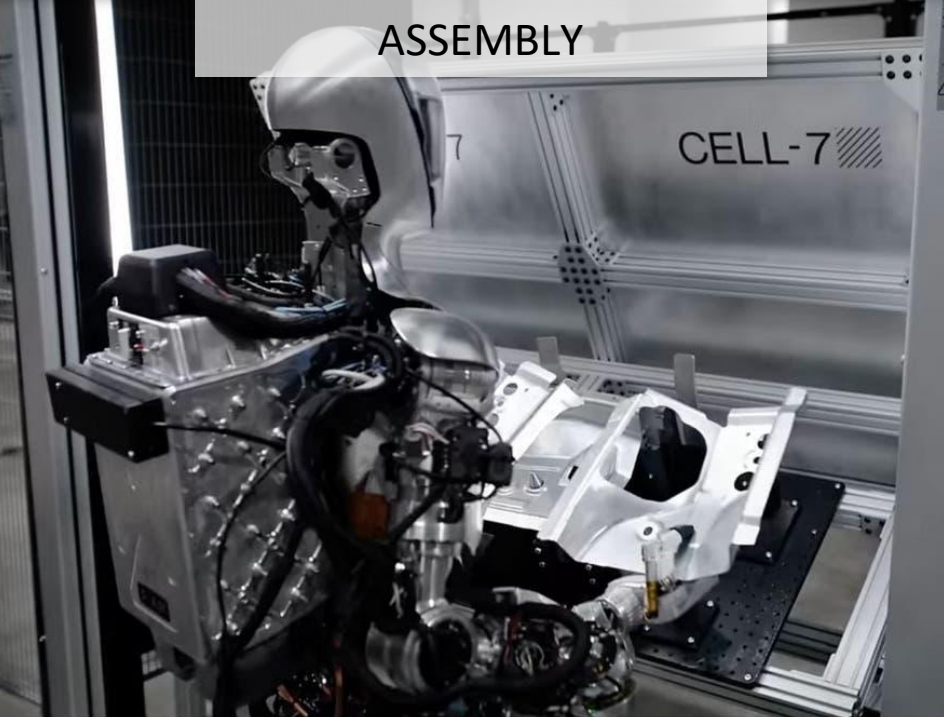
**France
2030**



Yet, large french companies have strong appetite, dozens of ambitious startups are currently raising important funds and France has already a strong AI player with Mistral.

Each humanoid has its own strength and positioning





ASSEMBLY



LOGISTICS



HEALTHCARE



RETAIL



SORTING



CONSTRUCTION



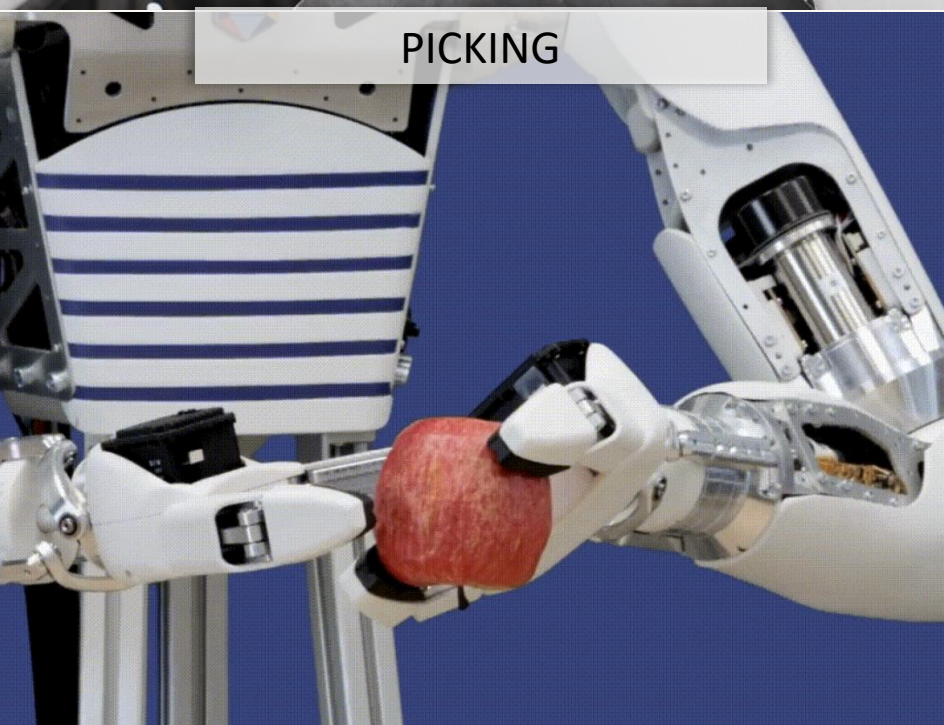
COOKING



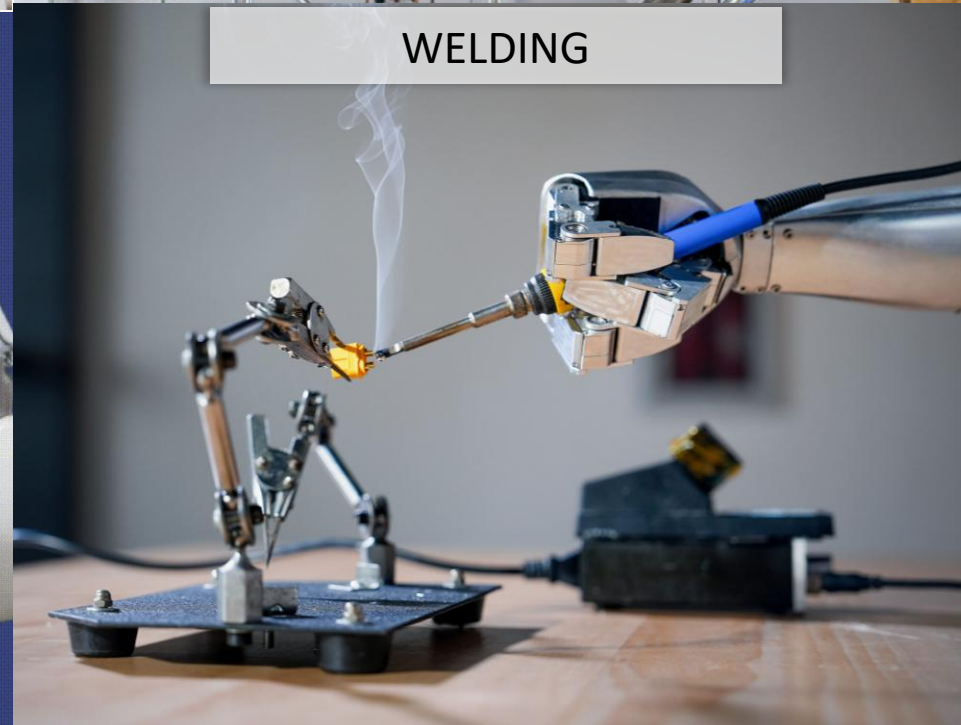
PATROLLING

INDUSTRY

SERVICE



PICKING



WELDING



HOSPITALITY



CLEANING

See video on the website



Humanoids in action

BY EMERTONDATA

Dark factories are one example of the high potential of AI robotics



xiaomi

81,0000 sqm

11 production lines

330M\$ investment

Launched in mid-2024 in
Changping

Fully automated using digital twin, AI and Robotics

Operates 24/7 without production workers unless a small control room

Runs in complete darkness eliminating lighting and heating needs

Produces 1 smartphone every 3 seconds, 10 million devices a year

Some even think that humanoids are here to replace humans



As Elon Musk said in a recent statement:

“Probably none of us will have a job. If you want to do a job that’s kinda like a hobby, you can do a job. But otherwise, AI and the robots will provide any goods and services that you want. For this scenario to work, there would need to be universal high income.”

VIVA
TECHNOLOGY



“Computers are useless. They can only give you answers” Pablo Picasso



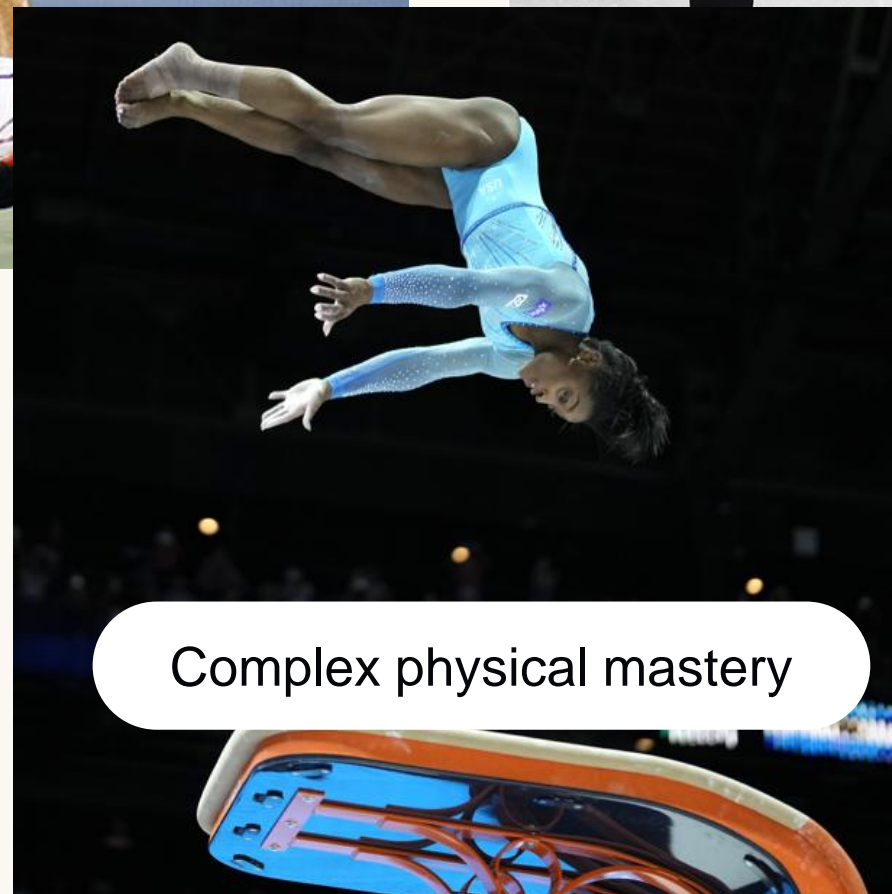
Spontaneous creativity



Synergic & harmonious
collaboration



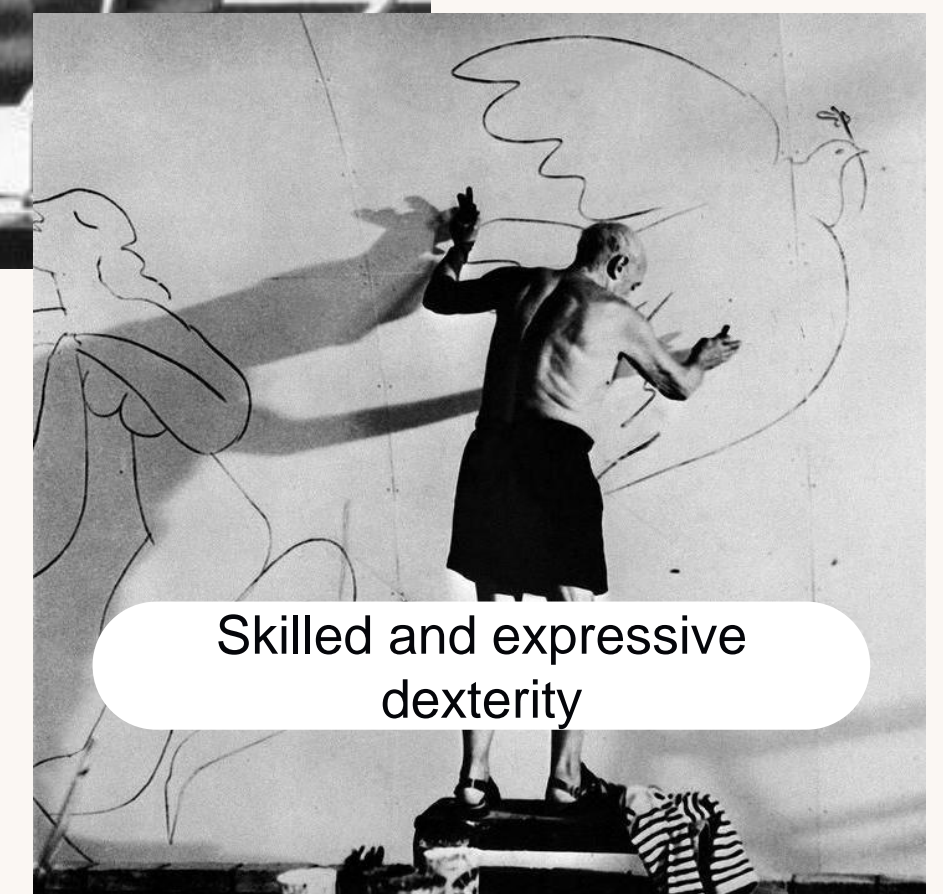
Moral courage with public
pressure



Complex physical mastery



High-pressure decision making
in an unseen situation



Skilled and expressive
dexterity

Fake or real, some recent events broadly shared on social networks show humanoids with inappropriate and potentially dangerous behavior



Like autonomous cars, **humanoid robots pose significant security risks**, with the combination of **cyber vulnerabilities** and the potential to **cause physical harm**

Bad communication and showcases bring additional fears



We recommend focusing today on unsafe, undesirable and understaffed labors, and define an ambition aligned to your values

Unsafe

Undesirable

Understaffed



~40k serious workplace accidents including 750 fatal accidents each year in France



In France, 60% hard-to-fill jobs and 360,000 roles unfilled

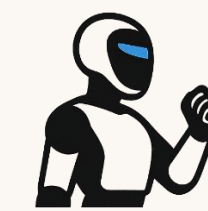


In France, Farmers work an average of 53.6 hours per week



In Europe, 15% of nurses worked shifts of +12 hours

EMERTONDATA introduces the program



HumAnoids For Industry

ACCULTURATE

From 0 to 20k€

Awareness and discussion



Hands-on training



GETTING STARTED

~100k€ incl. humanoid

Humanoid selection and ordering



Configuration and first trainings



STRATEGIZE & BUILD

On demand

Identify and build the first specific humanoid use cases



THEY TRUST US



Already 300+ via 1-day hands-on robotics workshop

MORNING



3D PRINTING & PREPARATION

CONSTRUCTION

TELEOPERATION

CERTIFICATION

AUTONOMOUS TASKS

TRAINING



AFTERNOON


We are working with the best open-source humanoid

UNITREE


G1









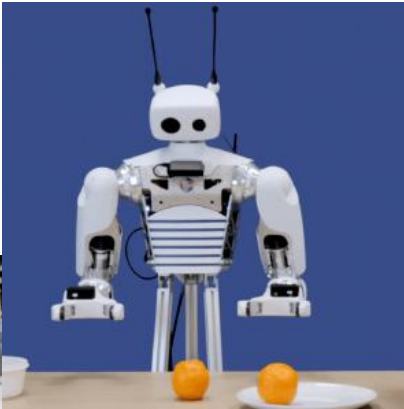

POLLEN
ROBOTICS




Hugging Face

Reachy 2









BOOSTER
ROBOTICS

Booster T1





We are training the open-source humanoid on specialized tasks while benefiting from generic tasks (walking, rest mode, ...)

BENEFIT FROM PERFORMANCE ON GENERIC TASKS



UNLOCK SPECIFIC TASKS THROUGH SPECIALIZED TRAINING



This is done by using proper technology...

TELEOPERATION



SIMULATION



AI TRAINING



TOOLS

ROS



EMERTONDATA

... and expertise

Core team



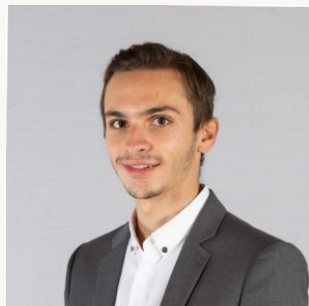
Yannick Léo
Partner, AI Robotics

EMERTONDATA



Amos Wolf
AI Robotics Lead

EMERTONDATA



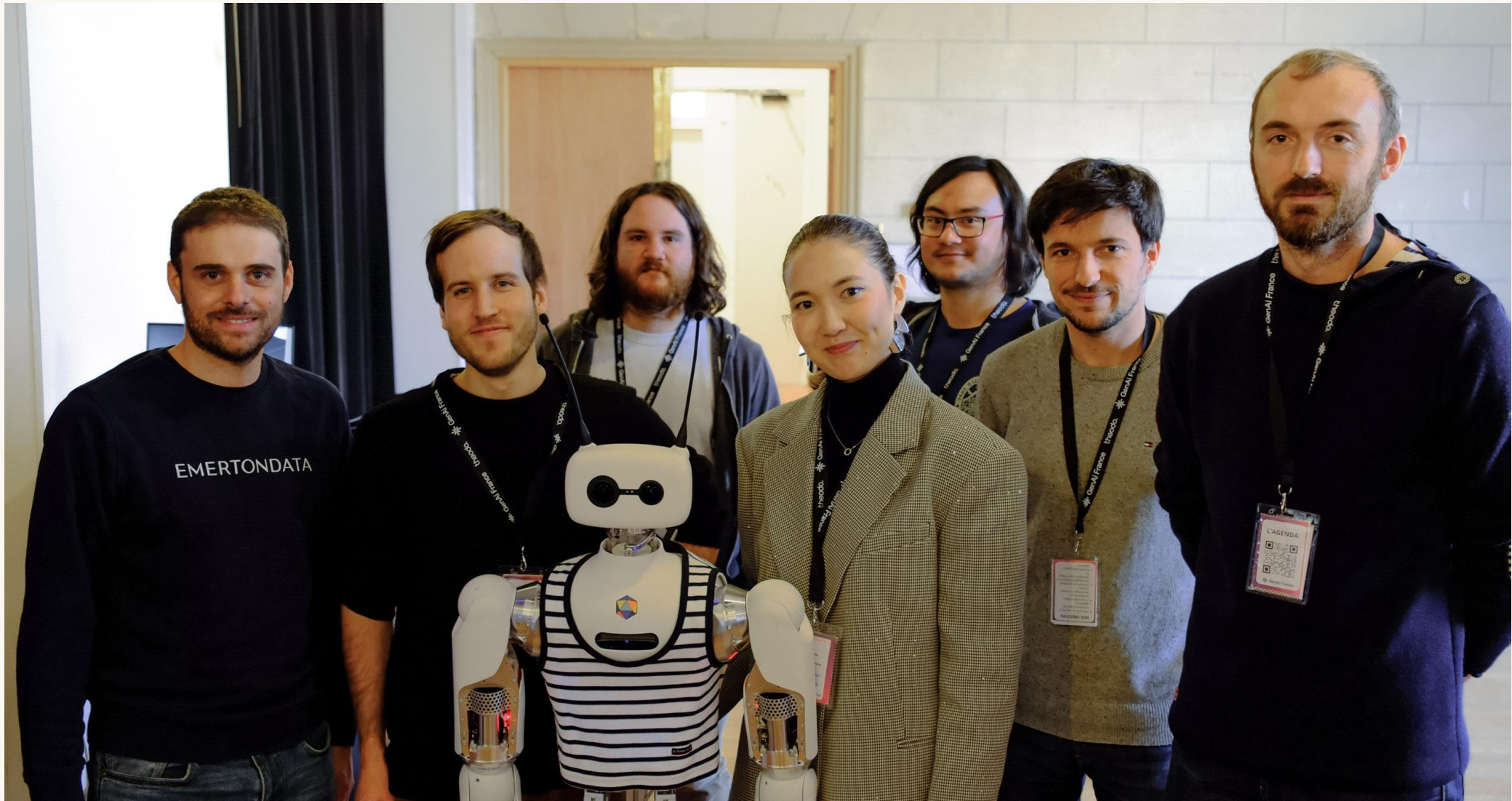
Elie Chemouni
AI Robotics engineering

EMERTONDATA



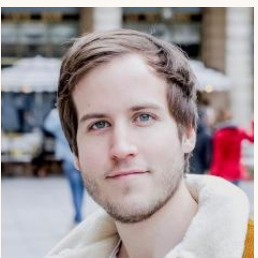
François Sfarti
Robotics x Industry expert

EMERTONDATA



Picture taken at Generative AI Paris event, November 26 showcasing a demo on the Reachy 2

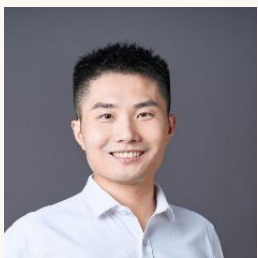
Key technology partners



Rémi Cadène
AI Research Principal
 Hugging Face



Mathieu Lapeyre
Co-founder
 POLLEN
ROBOTICS



Felix Shang
Sales Manager
UNITREE

EMERTONDATA

MiG
matinée
de l'innovation
groupe

BOUYGUES

Humanoids are knocking on
the doors of industry with
real use cases.

Are you going to open it?

CONTACT US

