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bimu.it

Mercoledì 14 ottobre
dalle 12:00 alle 13:00

ROBOT HEART
THE ART OF SMART ROBOTICS

INTELLIGENZA ARTIFICIALE E ROBOTICA: I NUOVI ORIZZONTI DELLA ROBOTICA VERSO LA PHYSICAL AI

fondata nel 1975 SIRI Associazione Italiana di Robotica e Automazione

I-RIM

cecimo · UCIMU · UCIMU-SISTEMI PER PRODURRE · EFIM · ISF · FIERA MILANO · it·ex

Intelligenza Artificiale e Robotica:
i nuovi orizzonti della robotica verso la Physical AI

Coordinatori:

Enrico Pagello *, Università degli Studi di Padova

Alberto Finzi #, Università degli Studi di Napoli Federico II

* epv@dei.unipd.it , # alberto.finzi@unina.it

Evento promosso da SIRI in cooperazione con AIRO/AIxIA e I-RIM 14 Ottobre 2026 Arena BI-Mupiù, 35.BI-MU, fieramilano Rho

fondata nel 1975
SIRI
Associazione Italiana di Robotica e Automazione

Introduzione all'Evento e agli Speaker della prima parte

(E. Pagello - *membro del Consiglio Direttivo di SIRI*)

L'Intelligenza Artificiale (**AI**), nata nel 1956 negli Stati Uniti, a partire dalla terza decade degli anni 2000 sta occupando sempre più il centro dell'attenzione scientifica, mediatica, e geopolitica internazionale grazie alla affermazione della Generative AI resa giorno dopo giorno sempre più potente dalla evoluzione dei Modelli Linguistici di Grandi Dimensioni.

In questo contesto diventa quindi sempre più rilevante discutere quanto e come l'AI, che aveva pervaso il mondo della robotica già dai primi anni '70, possa avere oggi un impatto dirompente aprendo nuovi scenari di ricerca e sviluppo grazie alla introduzione di paradigmi scientifici assai più evoluti di quelli utilizzati fino ad ora.

Questo Terzo Evento, promosso dalla ***Associazione Italiana di Robotica e Automazione*** *(SIRI)* in cooperazione con il ***Gruppo di Lavoro in AI e Robotica*** *(AIRO)* della ***Associazione Italiana per l'Intelligenza Artificiale*** *(AIxIA),* e con l' ***Istituto di Robotica e Macchine Intelligenti*** *(I-RIM),* segue i due eventi precedenti avvenuti alla in BI-MU nel 2022 e 2024

fondata nel 1975
SIRI
Associazione Italiana di Robotica e Automazione

Agentic AI e *Physical AI* come nuovi driver della automazione industriale degli anni 2000

Il nuovo paradigma scientifico introdotto dagli LLMs, adattabili ai diversi settori dalla manifattura industriale ai servizi, ha valorizzato l'uso di ChatBot, nati del 1966 con la creazione di Eliza, verso la introduzione di sistemi, più complessi ed innovativi, dotati di autonomia e capacità decisionale, basata sulla pianificazione dei loro comportamenti:

gli Agentic AI capaci di interagire con gli umani

Da un altro lato, la necessità di far interagire i robot con un ambiente fisico, che può essere una azienda manufatturiera, dove far cooperare uomini e robot, un ambiente cittadino, dove far interagire veicoli a guida totalmente o parzialmente autonoma, lo stesso corpo umano per lo sviluppo di protesi ed altri strumenti medicali, etc.

La chiave di questo nuovo paradigma scientifico per l'applicazione della AI al mondo fisico reale si trova oggi nelle capacità avanzate di percezione, ricostruzione e memorizzazione dei dati relativi agli elementi di diversa natura che compongono l'ambiente in cui opera il robot:

la Physical AI permette di integrarle in maniera adattiva all'interno dei sistemi robotici

fondata nel 1975
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Schedule delle Relazioni

Loredana Zollo, Presidente di I-RIM

Human-Centered AI e Physical Intelligence: verso robot intelligenti capaci di apprendere, personalizzare e collaborare con le persone nei contesti reali

Andrea Orlandini, Presidente AIxIA

Il potere trasformativo della Intelligenza Artificiale: ridisegnare il confine tra ricerca di base e applicazione industriale

Matteo Matteucci, Politecnico, Milano

Physical AI: dal vedere all'agire (senza pensare?)

fondata nel 1975
SIRI
Associazione Italiana di Robotica e Automazione

Alle 13:30 SEGUIRA' un breve dibattito fra accademici ed industriali

per discutere le potenzialità, limiti e sinergie

della Intelligenza Artificiale applicata alla robotica

SIRI Associazione Italiana di Robotica e Automazione

Human-Centered AI e Physical Intelligence: verso robot intelligenti capaci di apprendere, personalizzare e collaborare con le persone nei contesti reali

Loredana Zollo

I-RIM President
Full Professor of Bioengineering
CREO Lab – Advanced Robotics and Human-centred Technologies
Università Campus Bio-Medico di Roma, Italy
Email: l.zollo@unicampus.it, presidente@i-rim.it

CREO Lab
Advanced Robotics and Human-Centered Technologies

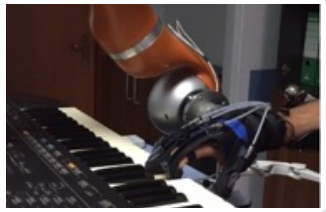
I-RIM
Istituto di Robotica e Macchine Intelligenti

Italian Institute of Robotics and Intelligent Machines

''AI, fleshed out''



Bio-cooperative robotics for rehabilitation



Human biomechanics and ergonomics



Surgical robotics



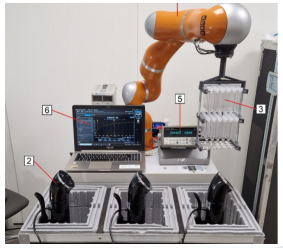
Assistive robotics



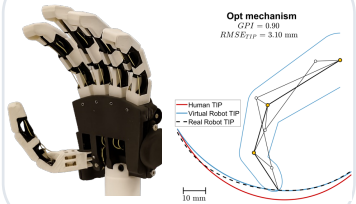
Wearable robotics



Human-machine interfaces and bionics



Robotics for biopharma



Custom Robotic Hand Prosthesis



Robot-assisted learning



Robotics for precision farming

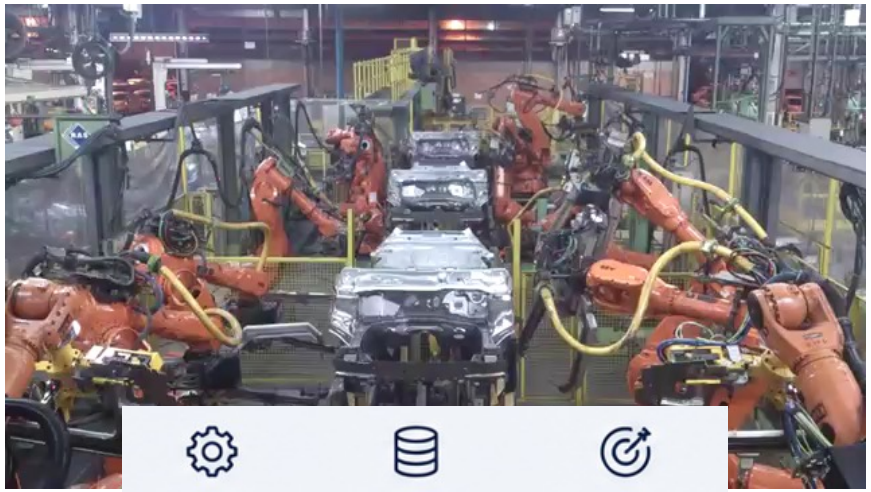


300+ Active Members and 40+ institutions:
~ 80% affiliated with Universities and Research Institute in Italy and abroad; ~20% from Companies and start-ups

The Progressive Evolution of Robotics

I-RIM

Industrial Robotics



Structured environments

Predefined programs

High precision and repeatability

Service Robotics



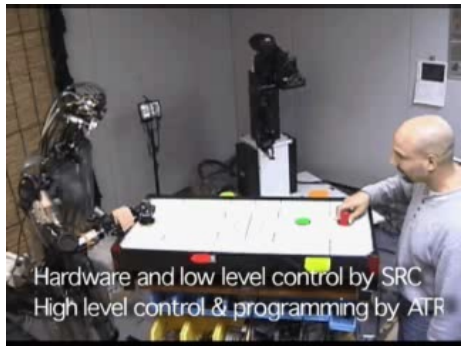
Perception (multimodal)

Learning and reasoning

Adaptation and interaction

Human-Robot Interaction

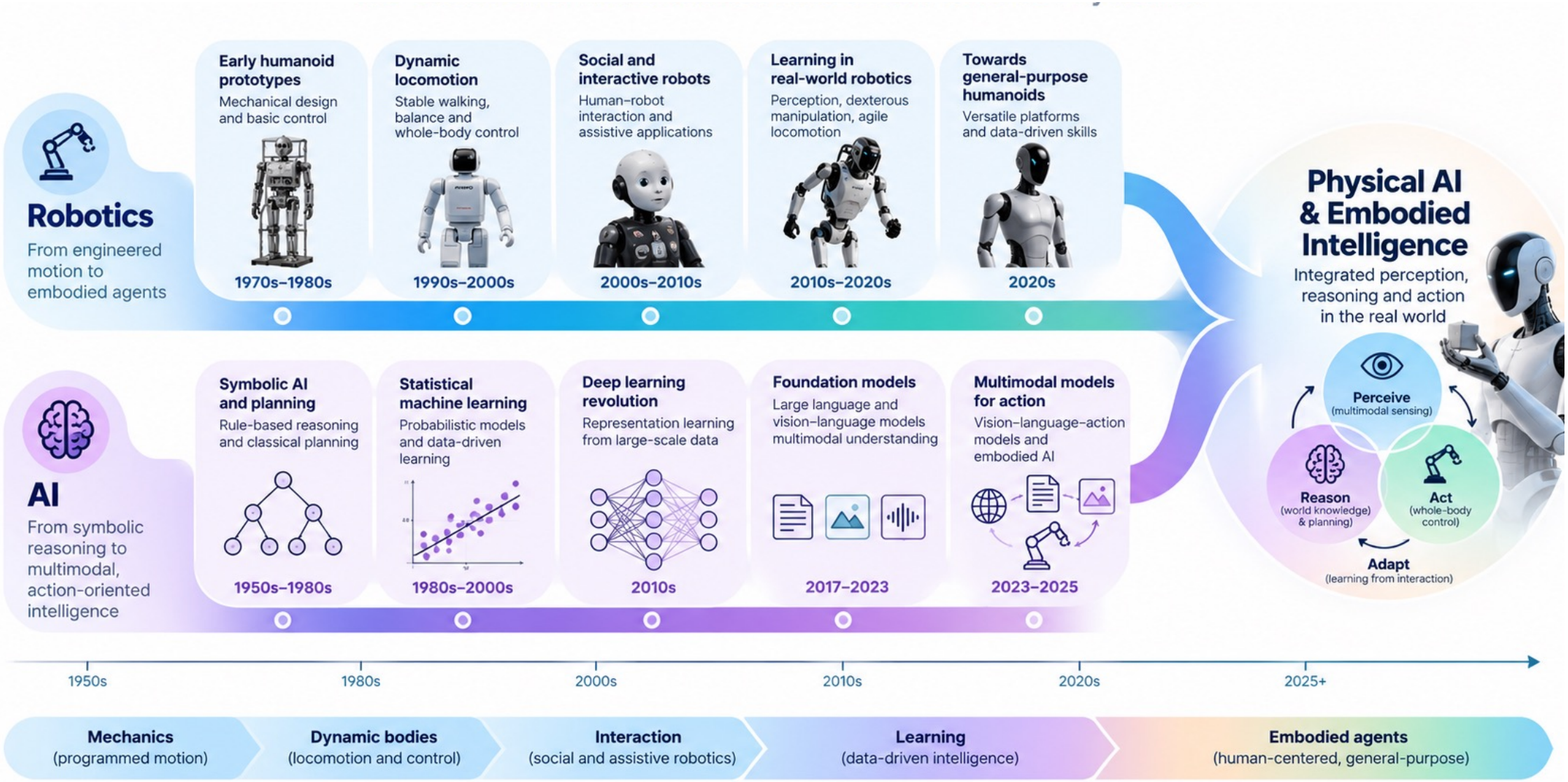




Humanoid Robotics



Parallel progress in AI and Robotics –> Physical AI



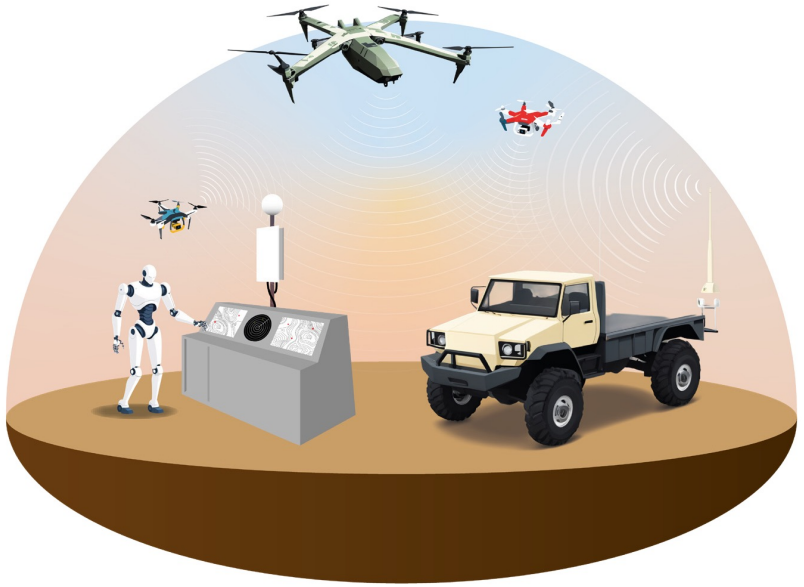
Open questions and main challenges



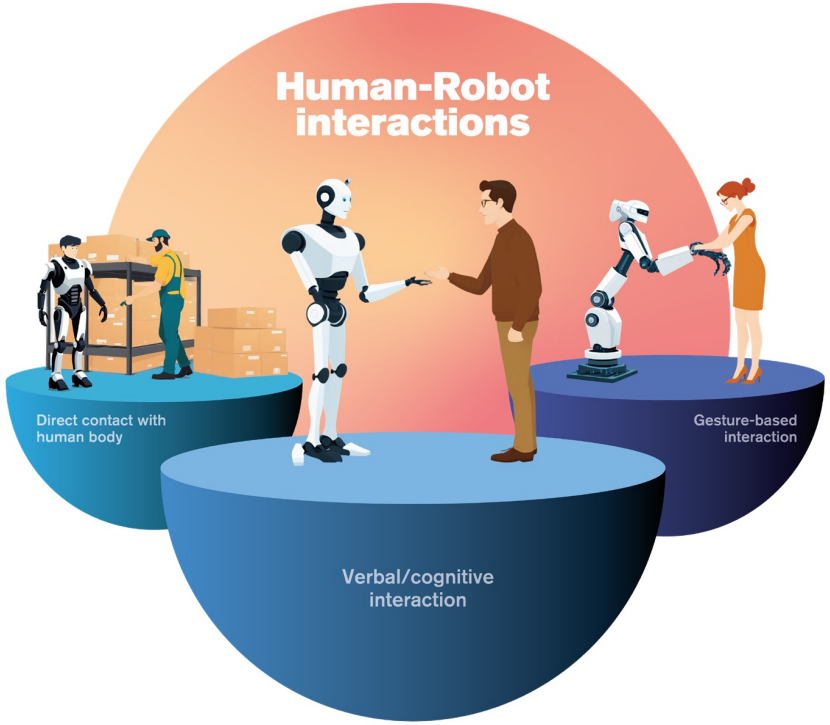
Manipulators, drones, or humanoids?

How can we enable effective knowledge transfer across different domains?

How can we effectively manage and control multi-robot systems?



From simulation to reality: How Can We Ensure Robust and Adaptive Interaction with the Real World?



Collaboration vs. Integration:

Which paradigm is more effective?

euROBIN Strategic Research Agenda



ROBOTICS FOR INDUSTRY 4.0

Collaborative robotics to make work more productive, safe, and comfortable



INTELLIGENT VEHICLES FOR THE AGRI-FOOD SECTOR

Robots can support the transition toward a more sustainable and precise agriculture

I-RIM

Istituto di Robotica e Macchine Intelligenti

Italian Institute of Robotics and Intelligent Machines

''AI, fleshed out''



ROBOTICS IN HOSTILE ENVIRONMENTS

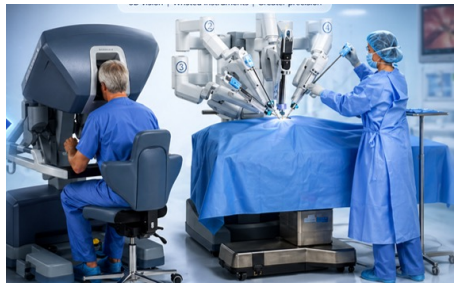
Robotic technologies to make work safe in hostile environments

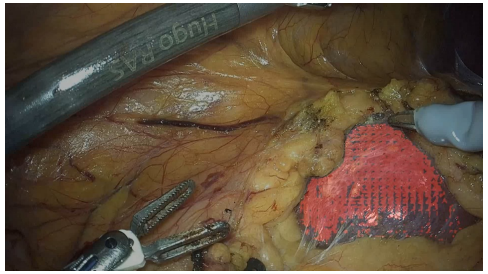


INTELLIGENT MACHINES FOR INFRASTRUCTURE INSPECTION AND MAINTENANCE

Robotics to inspect and maintain small and large infrastructures, reducing costs and risks

Robotic surgery

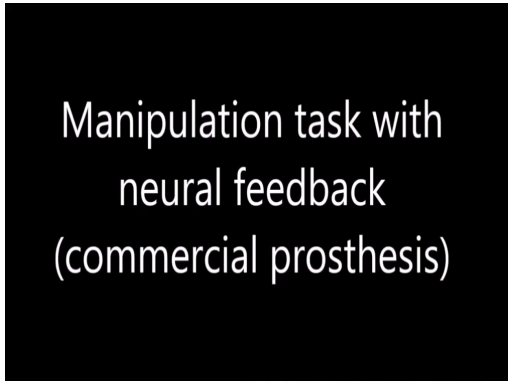






Robotics for Healthcare

Rehabilitation and assistive robotics







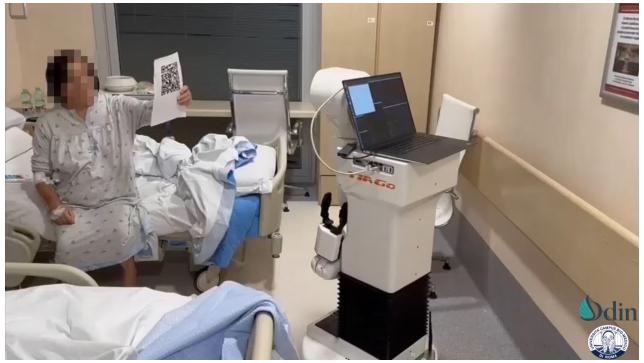
Food assumption monitoring to prevent undernutrition



ODIN: Use cases @UCBM

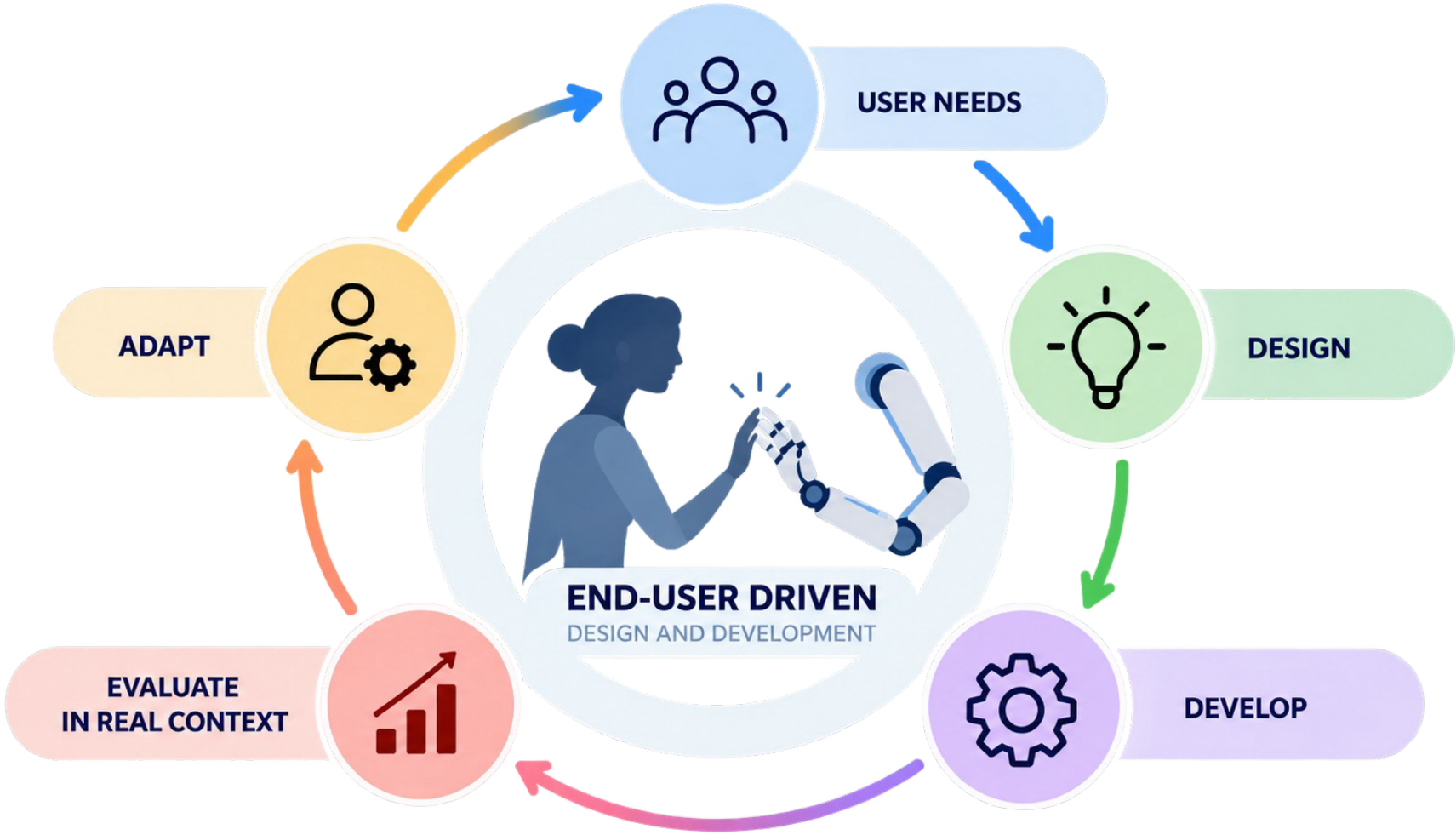


Rehabilitation to prevent loss of mobility



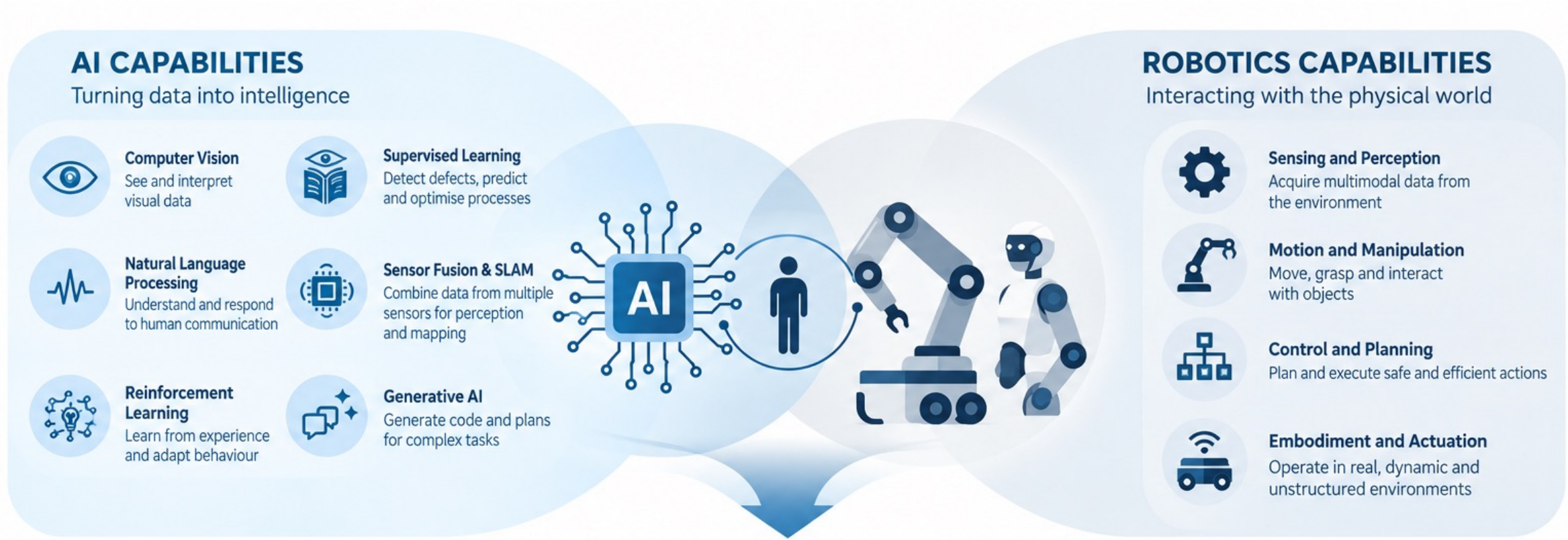
CREO LAB

End-user driven approach



Ceccarelli A, et al., Design, prototyping and testing of a bioinspired prosthetic hand finger based on six-bar linkage, Results in Engineering, 2025

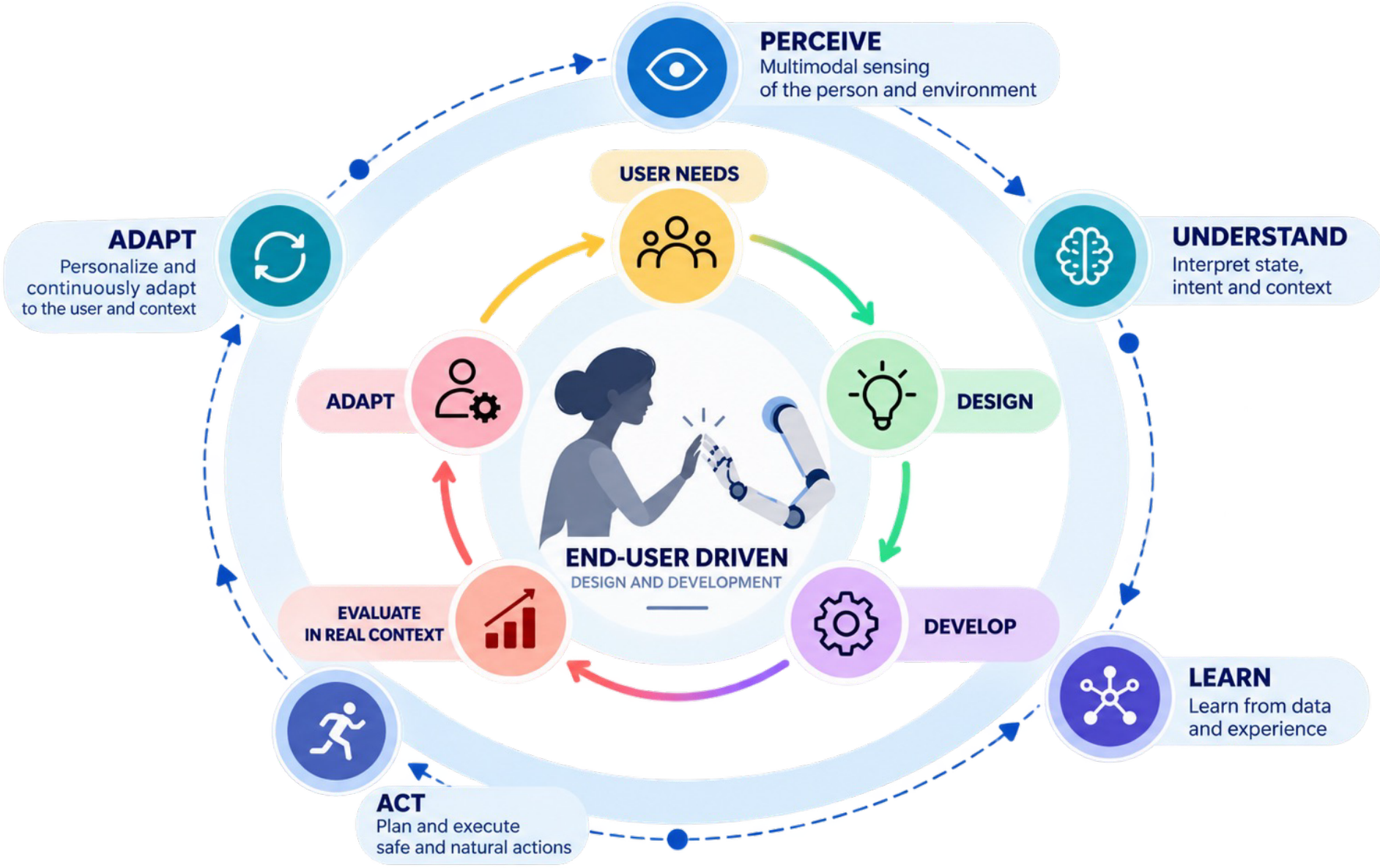
van Oosterhout A, et al., Soft robotics for personalized and sustainable wearables, Nature Reviews Bioengineering, 2026



Sartore C., et al., Towards shared embodied intelligence in humanoid robots through optimization, development and testing of the human-aware ergoCub robot, Nature Machine Intelligence 2026

Wen et al., “Humanoid Agent via Embodied Chain-of-Action Reasoning with Multimodal Foundation Models for Zero-Shot Loco-Manipulation,” arXiv preprint arXiv:2504.09532, 2025.

End-user driven approach – the role of AI





From Physical AI to Real-World Deployment

AI & Models
Learning and reasoning

→

Embodied Intelligence
Perception and action

→

Real World
Validation and deployment

Real-world feedback
Validation · Learning · Adaptation

Trustworthy, Adaptive and Scalable Physical AI

Bringing together the full innovation pathway

Research
Ideas and technologies

→

Demonstration
Validation in real-world settings

→

Deployment
Industrial uptake and large-scale implementation

→

Market
New markets and societal impact

euROBIN Strategic Research Agenda

Sponsored by euROBIN Network of Excellence



ROBOTS AND SUSTAINABLE DEVELOPMENT

Challenges and opportunities

Agriculture and Food Security

Construction and Infrastructure

Healthcare and Aging Population Assistance

Medical and Surgical Care:

Environmental Sustainability and Circular Economy

Disaster Response and Climate Resilience

Supply Chain Automation

Security and Defense

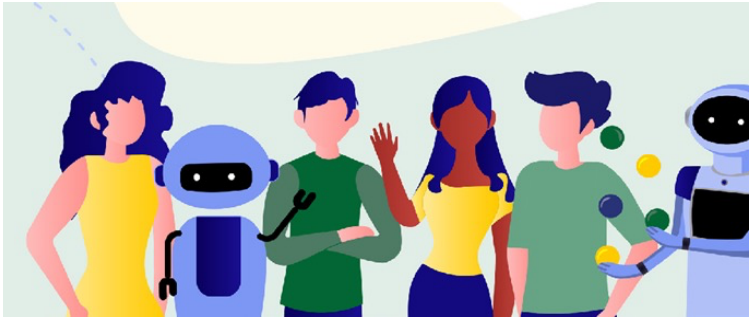
Space Exploration and Industrialization

Underwater Exploration and Industrialization

Manufacturing

I-RIM

fondata nel 1975 SIRI Associazione Italiana di Robotica e Automazione



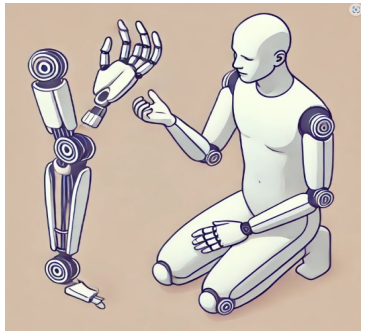
HUMAN-CENTERED ROBOTICS

AI AND ROBOTICS





ROBOTS TACKLING THE REAL-WORLD CHALLENGE

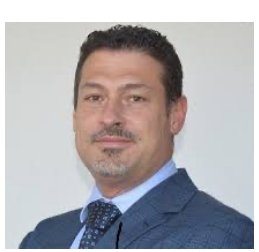


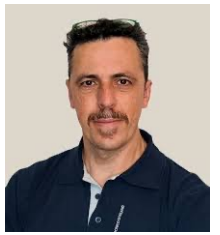
HUMAN-ROBOT INTEGRATION FOR BODILY INTELLIGENCE

I-RIM

MAKER FAIRE ROME 2026 — 23–25 OTTOBRE — GAZOMETRO OSTIENSE

I-RIM 3D 2026 Conference







GRAZIE DELL'ATTENZIONE!

CREO LAB



AndreA Orlandini
Presidente AIxIA, Consiglio Nazionale delle Ricerche,Roma

Il potere trasformativo della Intelligenza Artificiale: ridisegnare il confine tra ricerca di base e applicazione industriale



Associazione Italiana per l'Intelligenza Artificiale

Consiglio Nazionale delle Ricerche

Consiglio Nazionale delle Ricerche

- Biggest Research Public Institution in Italy



- 7 Departments, 88 Institutes
  - Almost 9000 employees
  - Multidisciplinary “by design”
- **Institute of Cognitive Science and Technology**
  - Covers **human cognition** and **cognitive technologies**
  - Reference institution for **Cognitive Science** in Italy
  - Leading institution for **Artificial Intelligence** research

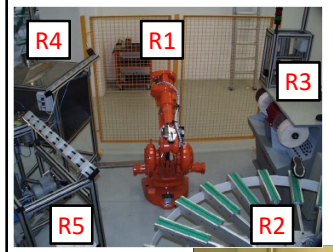
Consiglio Nazionale delle Ricerche

CNR - Istituto di Scienze e Tecnologie della Cognizione

MANUFACTURING & ROBOTICS

Temporal Reasoning → *Constraint-Based Scheduling Heuristics* → *Planning & Scheduling w Uncertainty* → *Integrated Planning & Scheduling* → *Mixed-Initiative Interaction & Interactive Systems Design* → *Human-Robot Interaction & Trustworthy AI* → *Semantic Reasoning & Dual-theory Control*

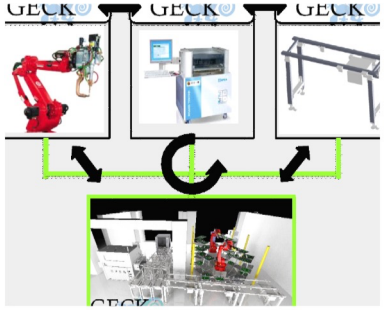
Flexible Manufacturing Systems for Shoes Production @ CNR Pilot





with IIA

Reconfigurable Transportation System

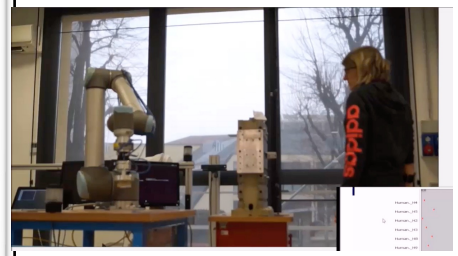


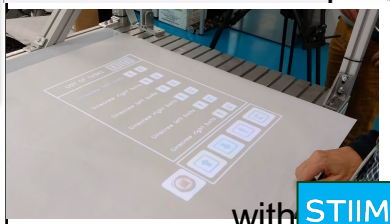
La Fabbrica del Futuro

GECK with IIA

Dynamic Task and Motion Planning

FOUR BY THREE





with STIIMA

Safe and Effective Human-Robot Collaboration

share work

Deployment @ CEMBRE Industry in Lombardy (IT)



PhD AI.it with STIIMA

Consiglio Nazionale delle Ricerche

Born in 1988, as a member of the European Association for Artificial Intelligence «EurAI»

It brings together the Italian community in AI

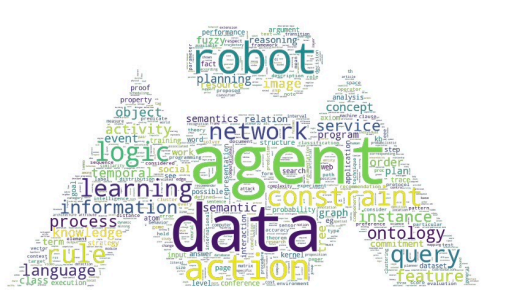
More than 1.000 members, 60% from the academia and 40% from private companies



Its aim is that of **increasing knowledge** of Artificial Intelligence, **encouraging its teaching** and **promoting theoretical and applied research** in the field through seminars, targeted initiatives and sponsorship of events.

Community

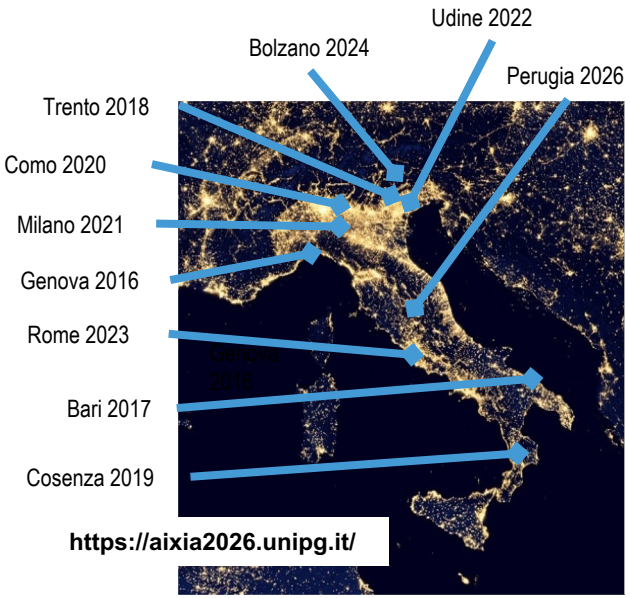
Thematic Working Groups and collaborative networks on a wide spectrum of AI techniques, models, technologies and domains



Word cloud based on members' publications (2019)

Events & Awards

Annual Conference, Workshops, Awards (Phd, Young Researchers, Master Thesis) and Events with Schools and for Industries



Supporting Institutions

Contributing to National Strategy, auditioning at Parliament, connections with institutions

DIPARTIMENTO PER LA TRASFORMAZIONE DIGITALE

AGID Agenzia per l'Italia Digitale

STRATEGIA ITALIANA
PER L'INTELLIGENZA ARTIFICIALE
2024-2026

Publications

Contributing to National Strategy, auditioning at Parliament, connections with institutions







CEUR Workshop Proceedings
http://ceur-ws.org
ISSN 1613-0073

Community

Thematic Working Groups and collaborative networks on a wide spectrum of techniques, model technologies and don

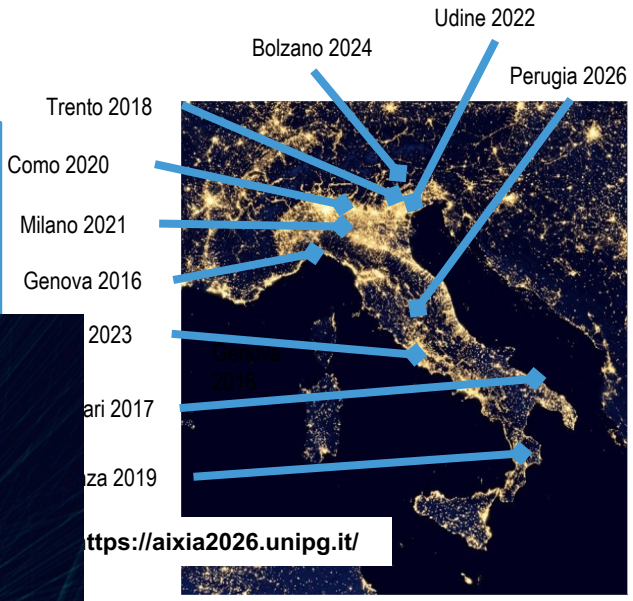


Supporting Inst

Contributing to Natic Strategy, auditioning at Parliament, connections with institutions

Events & Awards

Annual Conference, Workshops. Awards (Phd.



Strategy, auditioning at Parliament, connections with institutions

https://www.aiforum.eu/

AI FORUM 2026

15 APRILE 2026 | Palazzo Giureconsulti, Milano

VIII EDIZIONE
Il Forum dell'Associazione Italiana per l'Intelligenza Artificiale dedicato alle imprese

#AIForum

STRATEGIA ITALIANA
PER L'INTELLIGENZA ARTIFICIALE
2024-2026



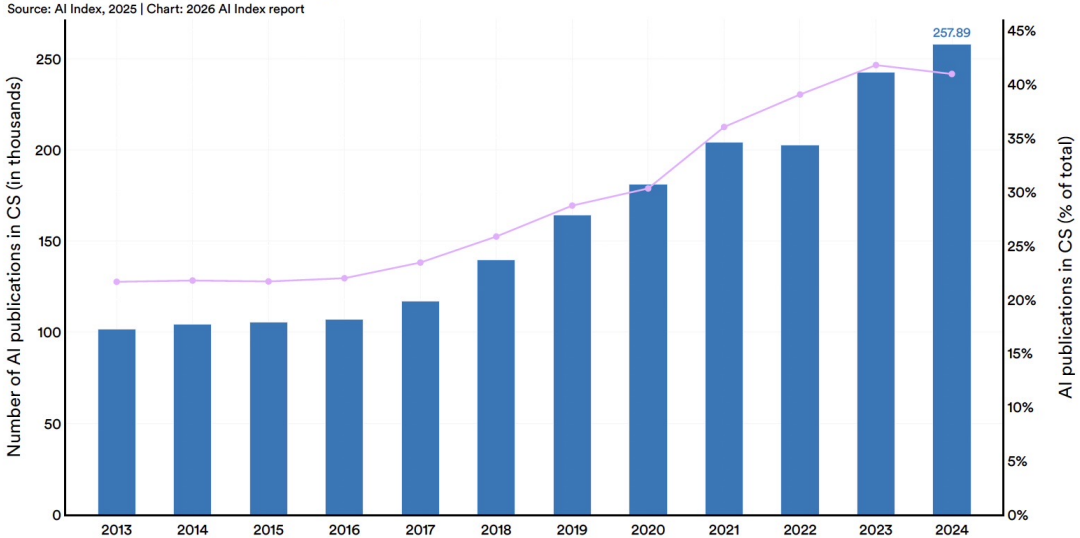




CEUR Workshop Proceedings
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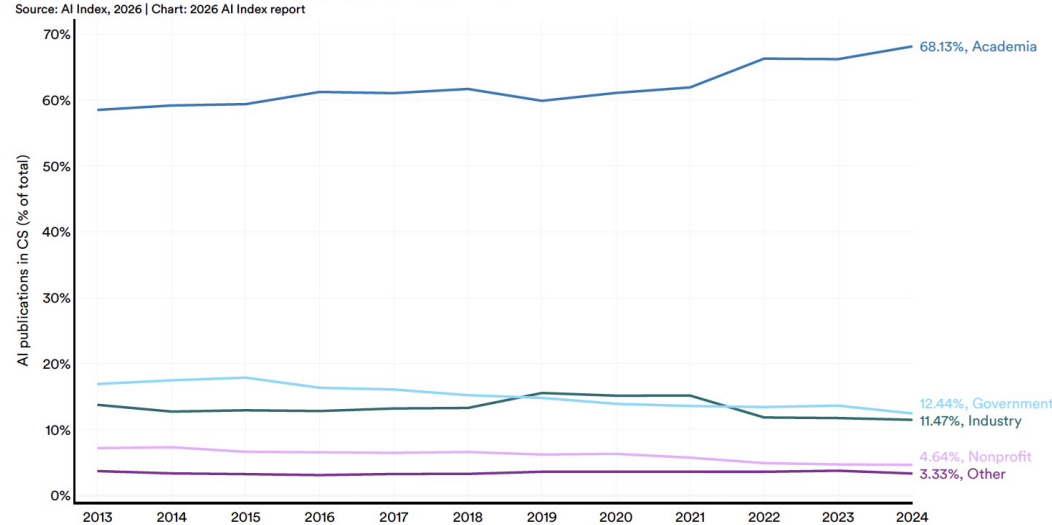
AI publications in CS worldwide, 2013–24

Source: AI Index, 2025 | Chart: 2026 AI Index report



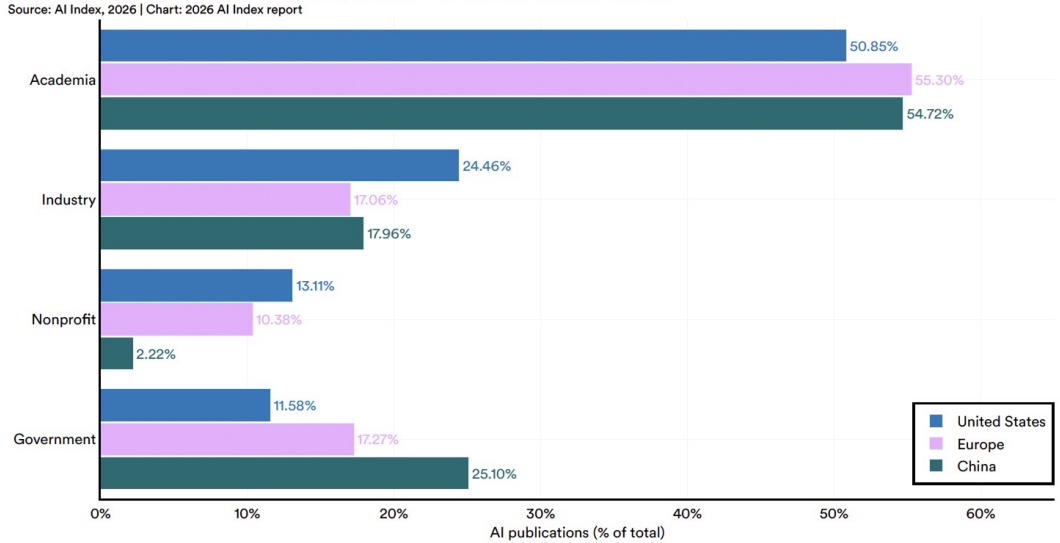
AI publications in CS (% of total) by sector, 2013–24

Source: AI Index, 2026 | Chart: 2026 AI Index report



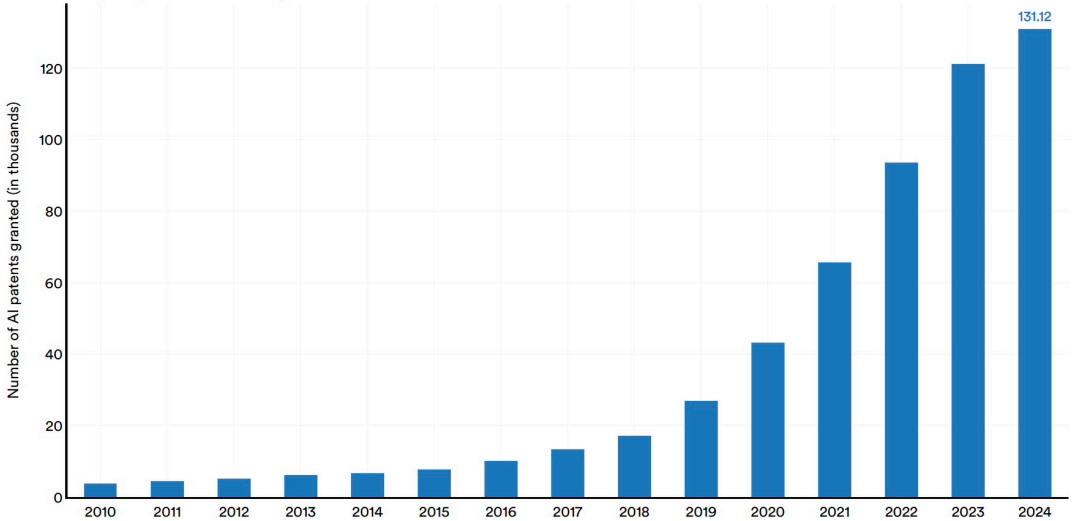
AI publications in CS (% of total) by sector and geographic area, 2024

Source: AI Index, 2026 | Chart: 2026 AI Index report



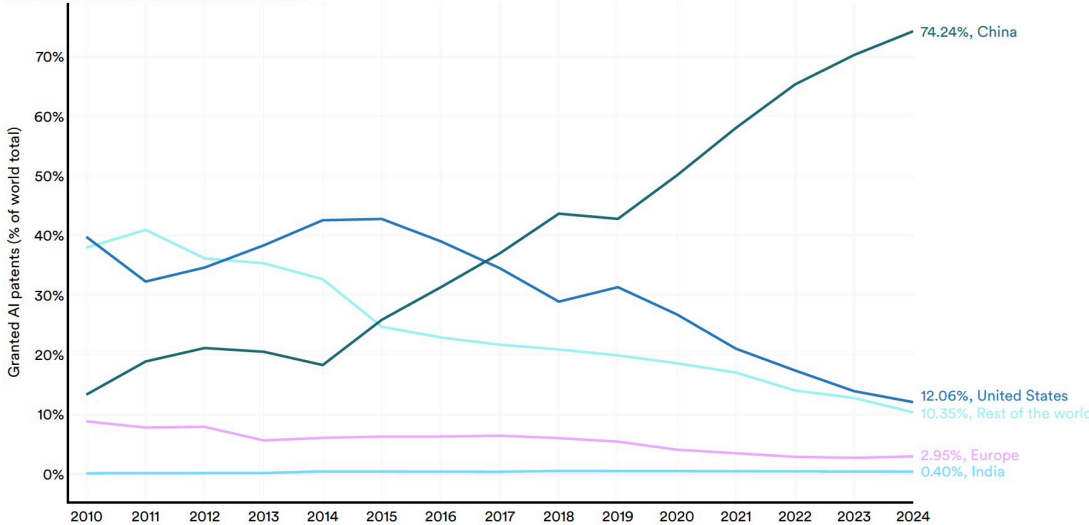
Number of AI patents granted worldwide, 2010–24

Source: AI Index, 2026 | Chart: 2026 AI Index report



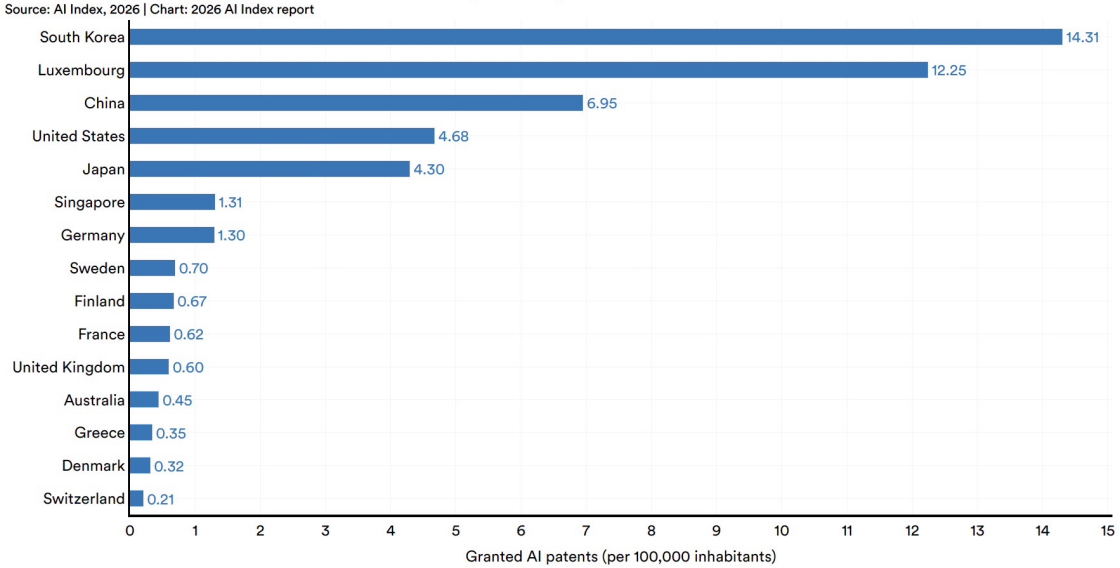
Granted AI patents (% of world total) by select geographic areas, 2010–24

Source: AI Index, 2026 | Chart: 2026 AI Index report



Granted AI patents per 100,000 inhabitants by country, 2024

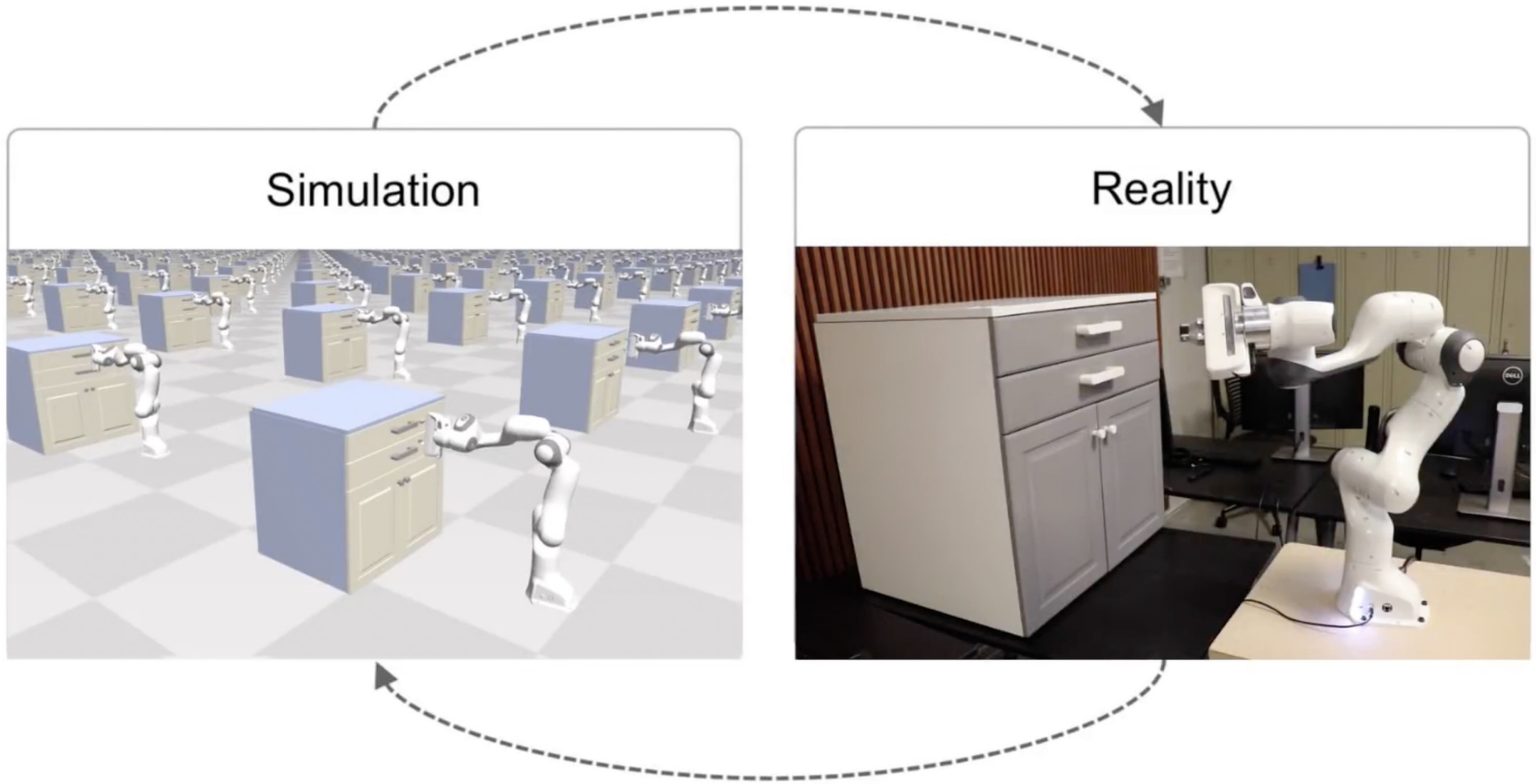
Source: AI Index, 2026 | Chart: 2026 AI Index report



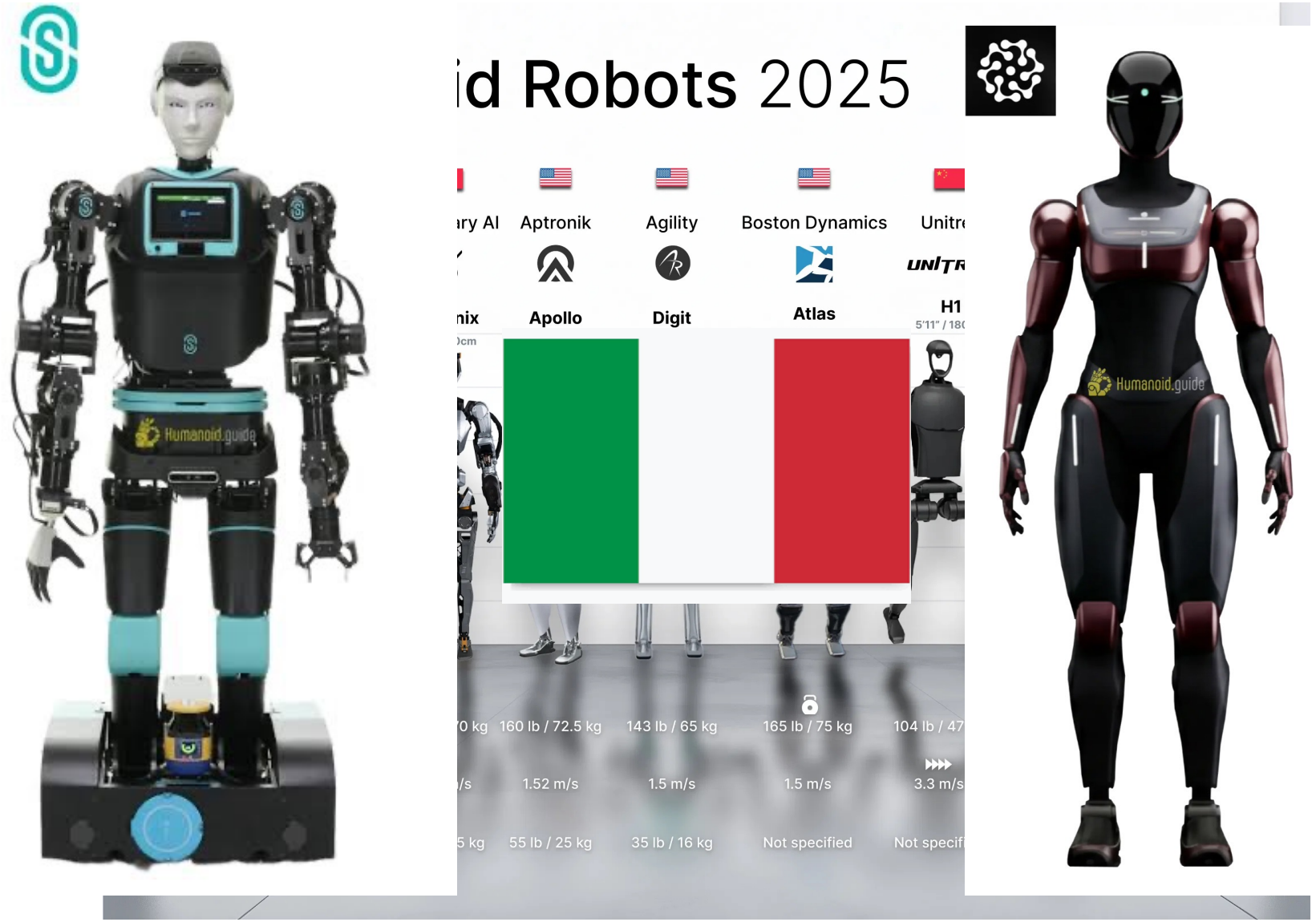
Close the sim-to-real transfer loop:

Train policies on randomized simulated scenarios

Update simulation distribution to improve policy transfer



Slide is courtesy by Dieter Fox


d Robots 2025
ary AI
Aptronik
Agility
Boston Dynamics
Unitre
nix
Apollo
Digit
Atlas
H1
5'11" / 180
0cm
0 kg
160 lb / 72.5 kg
143 lb / 65 kg
165 lb / 75 kg
104 lb / 47
/s
1.52 m/s
1.5 m/s
1.5 m/s
3.3 m/s
5 kg
55 lb / 25 kg
35 lb / 16 kg
Not specified
Not specif
Humanoid.guide
Humanoid.guide

Issue	In short
What already works	Vision, programming, planning and human-robot interaction are already adopted
Main barriers	Safety, data confidentiality, regulation, integration with existing systems
What is missing	Data, robustness and reliable learning; the role of foundation models
Italian ecosystem	Favoring SMEs development, lack of skills and access to technologies, more investment to seize the opportunity

Thanks for the attention

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Associazione Italiana per l'Intelligenza Artificiale

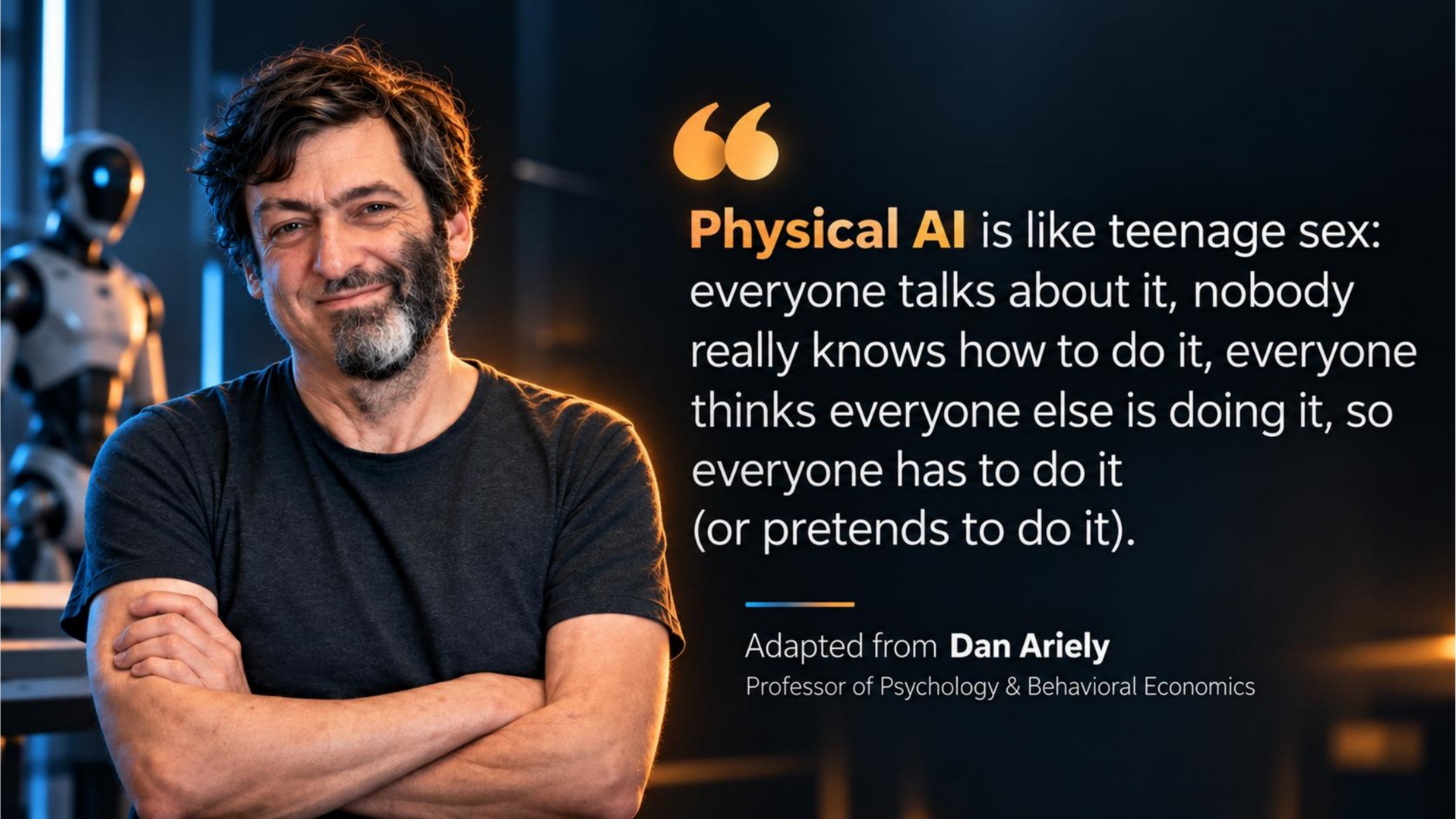


Consiglio Nazionale delle Ricerche

Physical AI: dal vedere all'agire (senza pensare?)

Prof. Matteo Matteucci
Artificial Intelligence and Robotics Laboratory

Dip. di Elettronica Informazione e Bioingegneria
Politecnico di Milano


Physical AI is like teenage sex: everyone talks about it, nobody really knows how to do it, everyone thinks everyone else is doing it, so everyone has to do it (or pretends to do it).
Adapted from Dan Ariely
Professor of Psychology & Behavioral Economics

Me ...

Matteo Matteucci, PhD

Full Professor
Dept. of Electronics, Information & Bioengineering
Politecnico di Milano

matteo.matteucci@polimi.it



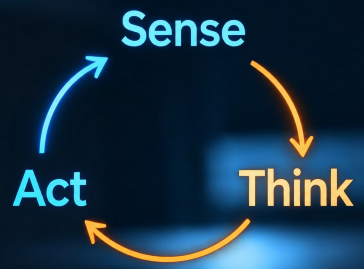


My research interests

- Robotics & Autonomous Systems
- Machine Learning
- Pattern Recognition
- Computer Vision & Perception

Courses I teach

- Robotics (BS+MS)
- Uncertainty in AI (MS)
- Machine Learning (MS)
- Deep Learning (MS+PhD)





Enable **physical** and **software autonomous systems** to perceive, plan, and act without human intervention in the **real world**.

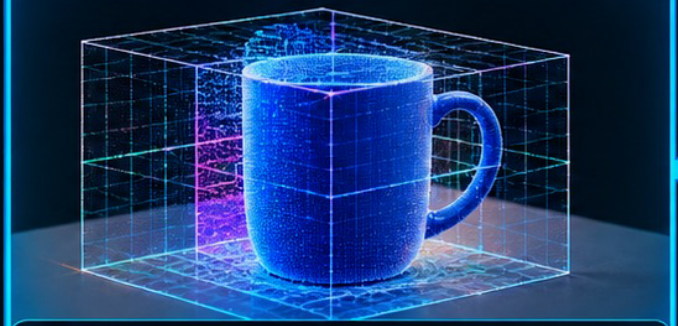
AIRLAB
ARTIFICIAL INTELLIGENCE AND ROBOTICS LAB

From seeing to doing

Business as usual or vision must directly drive the action.

1. PERCEIVE

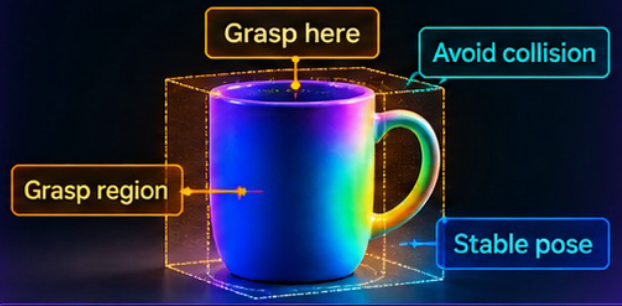
Understand the world in 3D and in context



- Object detection & pose
- 3D reconstruction
- Scene understanding
- Affordances (what can I do?)

2. REASON

Plan and adapt to achieve a goal



- Task planning
- Motion generation
- Constraint reasoning
- Adaptation to uncertainty

3. ACT

Execute with feedback in the real world



- Closed-loop control
- Force and tactile feedback
- Reactive adjustment
- Safe interaction

CONTINUOUS FEEDBACK

Perception, action and learning in a loop

Two paths. Same destination.

Intelligent machines that perceive, understand and act in the physical world.

ROBOTICS FIRST

We make robots intelligent.



Mechanical design



Actuators & control



Sensors & perception



Add AI
(planning, learning, reasoning)

AUTONOMOUS ROBOT

A robot with AI capabilities.





AI FIRST

We make intelligence physical.



Foundation models
Vision, language, world knowledge



Learning in simulation
Data, skills, reasoning



Give a body
Sensors & actuators



Embodied AI
Closed-loop action in the real world

PHYSICAL AI

Intelligence embodied in the real world.

SAME PHYSICAL CAPABILITIES. DIFFERENT STARTING PHILOSOPHIES.

Why now? Four forces converge

A unique combination of AI, data, computing and robotics is making Physical AI possible today.

1 Multimodal AI models

General-purpose intelligence that understands the physical world.

- Vision, language, action understanding
- World knowledge
- Reasoning and planning



2 Robot learning & simulation

From demonstration to real-world skills at unprecedented scale.

- Data-driven learning from human and robot data
- Physics-based simulation and synthetic data
- Rapid iteration and transfer to the real world



Why Now?

3 Advances in hardware

More capable, reliable and affordable robot platforms.

- High-performance actuators and sensors
- Better power and energy density
- Robust, scalable designs for real-world use



4 Computing & data

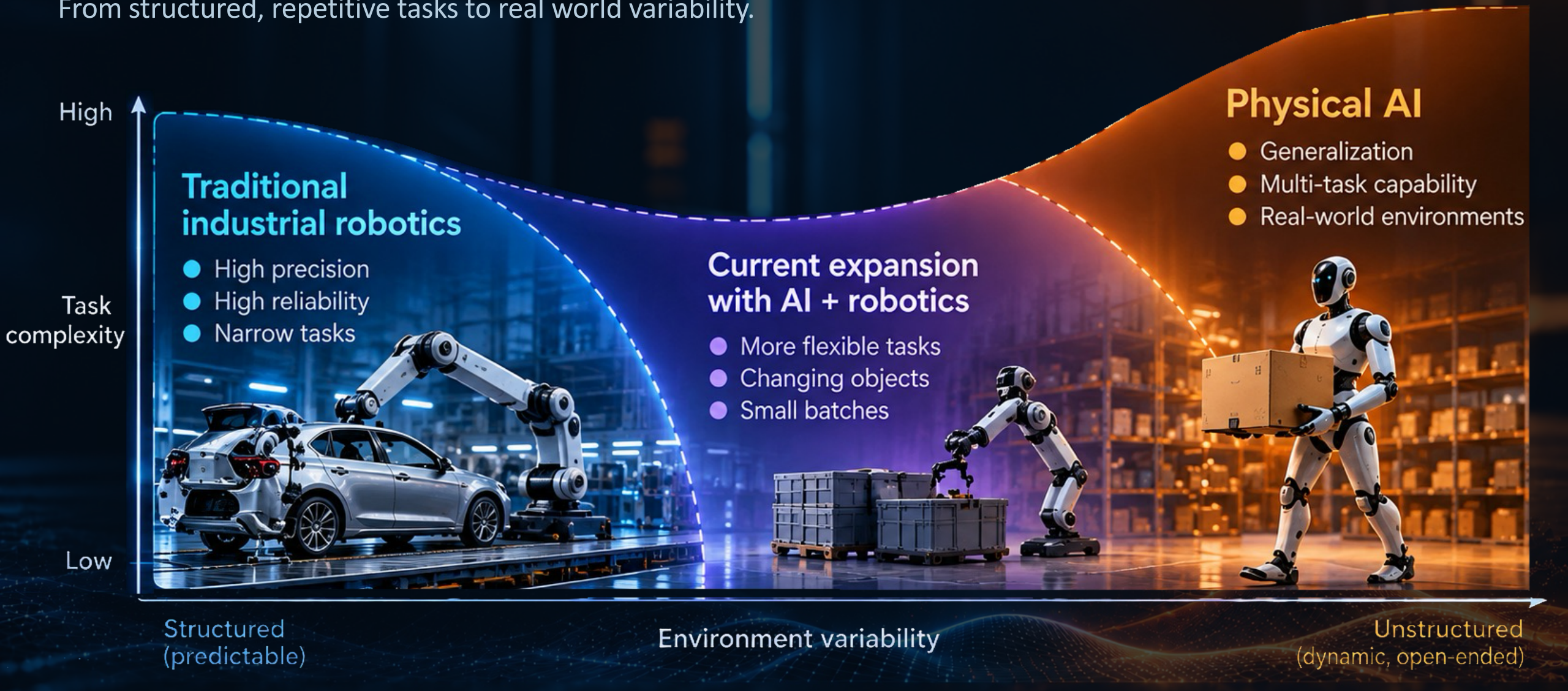
The infrastructure to train and deploy Physical AI at scale.

- Massive compute (GPUs and accelerators)
- Growing datasets (real + synthetic)
- Efficient models for on-device inference



Expanding the automation frontier

From structured, repetitive tasks to real world variability.



Fruit harvesting via Visual Language Action models

Traditional robotics makes machines execute tasks. Physical AI aims to make machines acquire and generalize skills.





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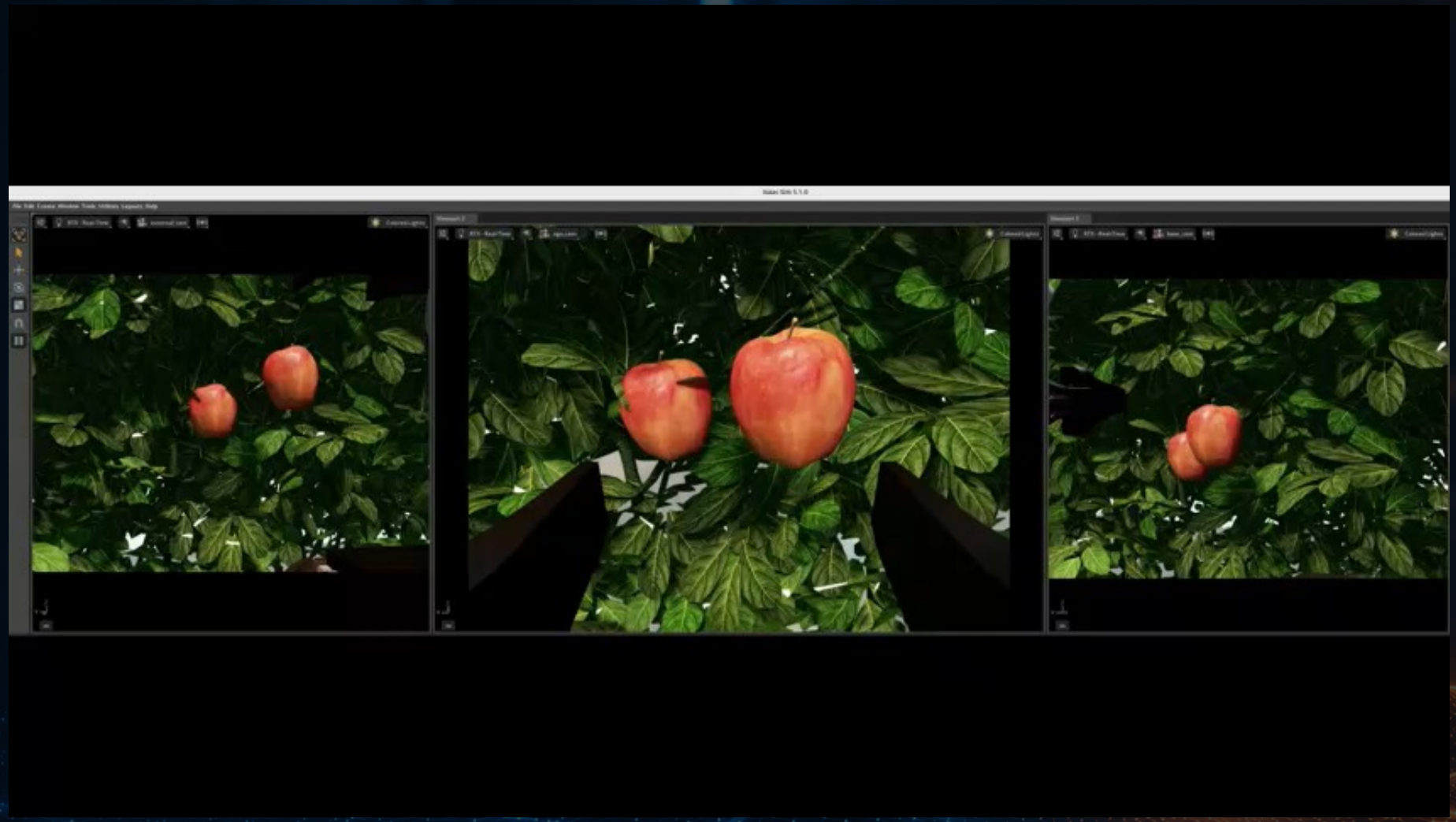






Fruit harvesting via Visual Language Action models

Traditional robotics makes machines execute tasks. Physical AI aims to make machines acquire and generalize skills.



Fruit harvesting via Visual Language Action models

Traditional robotics makes machines execute tasks. Physical AI aims to make machines acquire and generalize skills.





The hard part starts after the demo

A spectacular capability is not yet an industrially dependable system.

01 CHALLENGE



GENERALIZATION

New objects, layouts, lighting and operating conditions.

02 CHALLENGE



PHYSICAL DATA

Real interactions are expensive and slow to collect.

03 CHALLENGE



CONTACT + DEXTERITY

Friction, force, compliance and manipulation failures.

04 CHALLENGE



SAFETY + VERIFICATION

Uncertainty and failure modes have physical consequences.

05 CHALLENGE



UNIT ECONOMICS

Integration, uptime, maintenance and cost per useful action.

IN DIGITAL AI, ERRORS COST A RETRY. | **IN PHYSICAL AI, ERRORS HAVE CONSEQUENCES.**

Two paths. Same destination.

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Actuators & control



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(planning, learning, reasoning)

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Data, skills, reasoning



Give a body
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Closed-loop action in the real world

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SAME PHYSICAL CAPABILITIES. DIFFERENT STARTING PHILOSOPHIES.

Panel

Intelligenza Artificiale e Robotica: i nuovi orizzonti della robotica verso la Physical AI

Introduzione

L'applicazione dell'intelligenza artificiale ai sistemi fisici apre nuove prospettive per la robotica industriale. Dai sistemi di visione ai modelli fondazionali, l'AI promette maggiore flessibilità, autonomia e adattabilità, ma pone anche nuove sfide tecnologiche, industriali e organizzative.

Tematiche

- **Applicazioni concrete:** *cosa funziona già nell'industria*
- **Opportunità e barriere:** *sicurezza, riservatezza, normative e integrazione*
- **Limiti tecnologici:** *affidabilità, adattabilità e modelli fondazionali*
- **Nuovi paradigmi produttivi:** *evoluzione o rivoluzione dell'automazione?*
- **Scenari applicativi:** *robot industriali, collaborativi, mobili e umanoidi*
- **Sistema Italia:** *competitività, PMI, competenze e impatto sul lavoro*

Il panel propone un confronto aperto: ogni relatore potrà scegliere uno o più temi sui quali contribuire con esperienze, risultati e prospettive.

Panel

Intelligenza Artificiale e Robotica: i nuovi orizzonti della robotica verso la Physical AI

Partecipanti al panel:

Per l'Accademia:
Alberto Castellini, *Università degli Studi di Verona*
Nicola Pedrocchi, *Consiglio Nazionale delle Ricerche*

Per l'Industria:
Dario Daprà, Tiesse Robot, Visano, Brescia
Michele A. Pedretti, ABB Robotics Italy, Milano

Conclude:
Domenico Appendino, Presidente SIRI

Modera:
Alberto Finzi, *Università degli Studi di Napoli Federico II*

Temi di discussione

Intelligenza Artificiale e Robotica: i nuovi orizzonti della robotica verso la Physical AI

1. **Cosa funziona già?**
   Quali applicazioni sono già mature e quali i benefici industriali

2. **Cosa potremmo già fare, ma non facciamo?**
   Opportunità frenate da sicurezza, riservatezza, normative e integrazione

3. **Quali limiti tecnologici restano da superare?**
   Cosa manca per applicazioni di Physical AI affidabili e adattabili in ambito industriale?

4. **Evoluzione o rivoluzione?**
   Nuovi paradigmi produttivi o miglioramento dell'automazione esistente?

5. **Dove vedremo il maggiore impatto?**
   Piattaforme e applicazioni con il maggior potenziale industriale

6. **Il sistema Italia è pronto?**
   Punti di forza, ritardi, prospettive per le PMI e impatto sul lavoro

Temi di discussione

Intelligenza Artificiale e Robotica: i nuovi orizzonti della robotica verso la Physical AI

1. Cosa funziona già?
Quali applicazioni dell'AI nella robotica industriale sono realmente mature e adottate? Dove si osservano benefici concreti, dalla visione alla programmazione, dalla pianificazione all'interazione uomo-robot?

2. Cosa potremmo già fare, ma non facciamo?
Quali opportunità sono frenate da vincoli di sicurezza, riservatezza dei dati, normative o difficoltà di integrazione? Come superare queste barriere senza rallentare l'innovazione?

3. Quali limiti tecnologici restano da superare?
Cosa manca per applicazioni di Physical AI affidabili e adattabili in ambito industriale? Dati, capacità computazionale, robustezza e apprendimento? Quale contributo possono dare i modelli fondazionali e le nuove tecniche di AI?

Temi di discussione

Intelligenza Artificiale e Robotica: i nuovi orizzonti della robotica verso la Physical AI

4. Evoluzione o rivoluzione?
L'AI sta cambiando i paradigmi della produzione, rendendola più flessibile e riconfigurabile, oppure sta soprattutto migliorando le tecnologie di automazione esistenti?

5. Dove vedremo il maggiore impatto?
Robot industriali tradizionali, collaborativi, mobili o umanoidi: quali piattaforme e applicazioni offrono oggi le opportunità più concrete e dove si prospettano le trasformazioni maggiori?

6. Il sistema Italia è pronto?
Quali sono i nostri punti di forza e i ritardi rispetto allo scenario internazionale? Le PMI italiane stanno cogliendo queste opportunità? Quali competenze, investimenti e cambiamenti nel lavoro saranno necessari?


35 bimu
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fieramilano
13-16/10/2026
bimu.it
ROBOT HEART
THE ART OF SMART ROBOTICS
GRAZIE per l'Attenzione!
fondata nel 1975
SIRI
Associazione Italiana di Robotica e Automazione
I-RIM
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UCIMU
UCIMU-SISTEMI PER PRODURRE
EFIM
ISF
FIERA MILANO
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ITALIAN ASSOCIATION OF INTERNATIONAL EXHIBITIONS