



DATA ECONOMY PER L'INTERNAZIONALIZZAZIONE

21 GENNAIO 2025 16:00 - 18:30

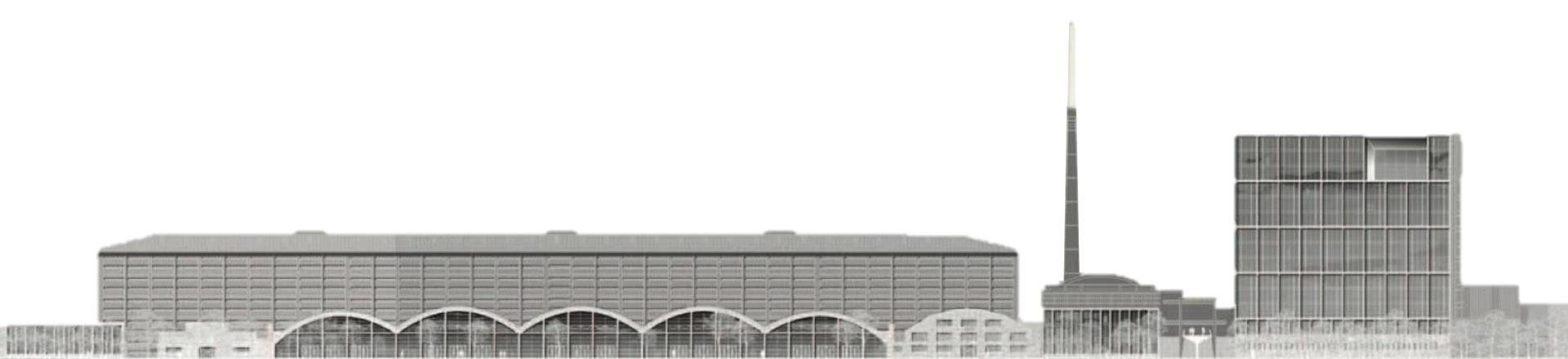




Francesco Ubertini

DATA ECONOMY PER L'INTERNAZIONALIZZAZIONE

21 gennaio, 2025 hpc.cineca.it



The future of European competitiveness

Part A | A competitiveness strategy for Europe

SEPTEMBER 2024













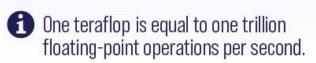






Based on the TOP500 ranking of supercomputers MAXIMUM PERFORMANCE 5.5 TFLOPS United States # OF COMPUTERS IN TOP500 RANKING 172 298k 941_K 474 K 319k France China Switzerland 🔀 Japan 🔎 63 405K 98K Nether-lands 104K Taiwan 222k Germany **===** Spain === 838k 85K Italy ____ 391 K 213_K Saudi Arabia ₋ Finland ---S. Korea 😂 13 Russia **71**K 13 Other **697K** 84





Where are specialized AI hubs emerging?

Countries outpacing the US on AI funding growth and headcount growth

Country	YoY change in Al equity funding	Median YoY headcount growth*	Select local AI startups gaining traction (recently funded + headcount growth)
Italy	449%	15%	BENDING SPEENS MMT (iGenius
Australia Australia	17433	19%	SafetyCulture InDebted RDC
Norway	151%	16%	1 ★ THORVALD Findable*
India	33%	11%	GoKwik Rewspace HABER
Switzerland	33%	14%	DLEM LONCEPT LatticeFlow
South Korea	29%	18%	42dot rebellions_ iqpstage ≠

Source: CB Insights data as of 11/8/2024. Excludes countries that received < \$200M in Al funding over the last year. *To measure median headcount growth, we started with 15,000+ Al companies and filtered for those with disclosed change in headcount over the last year, grouped them by HQ, and filtered out countries with fewer than 10 companies meeting the criteria.





In July 2021, the Council adopted a new regulation on establishing the new European High Performance Computing JU. It sets out an ambitious mission and is accompanied by a substantially larger budget of €7 billion for the 2021-2027 period. EuroHPC brings together 32 participating countries, and 3 private partners.



eurohpc-ju.europa.eu





CINECA HPC **High Performance Computing**

Get Inspired

SEE SUCCESS STORIES

SEE USE CASES



HANDYTRACK: HPC FOR HAND **GESTURE DATASET GENERATION AND** DEEP LEARNING TRAINING FOR **DETECTION AND TRACKING**

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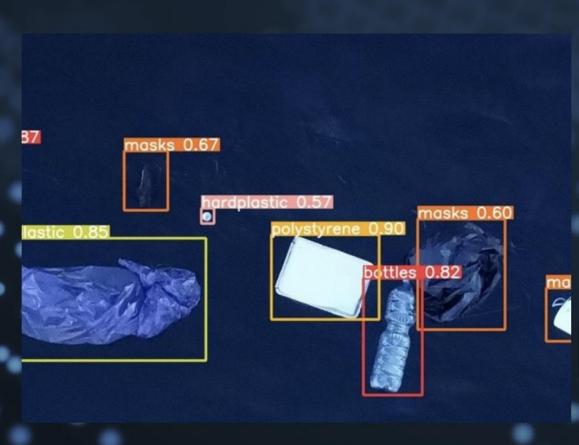


OUR ACTIVITIES

SYSTEMS

WEATHERAI

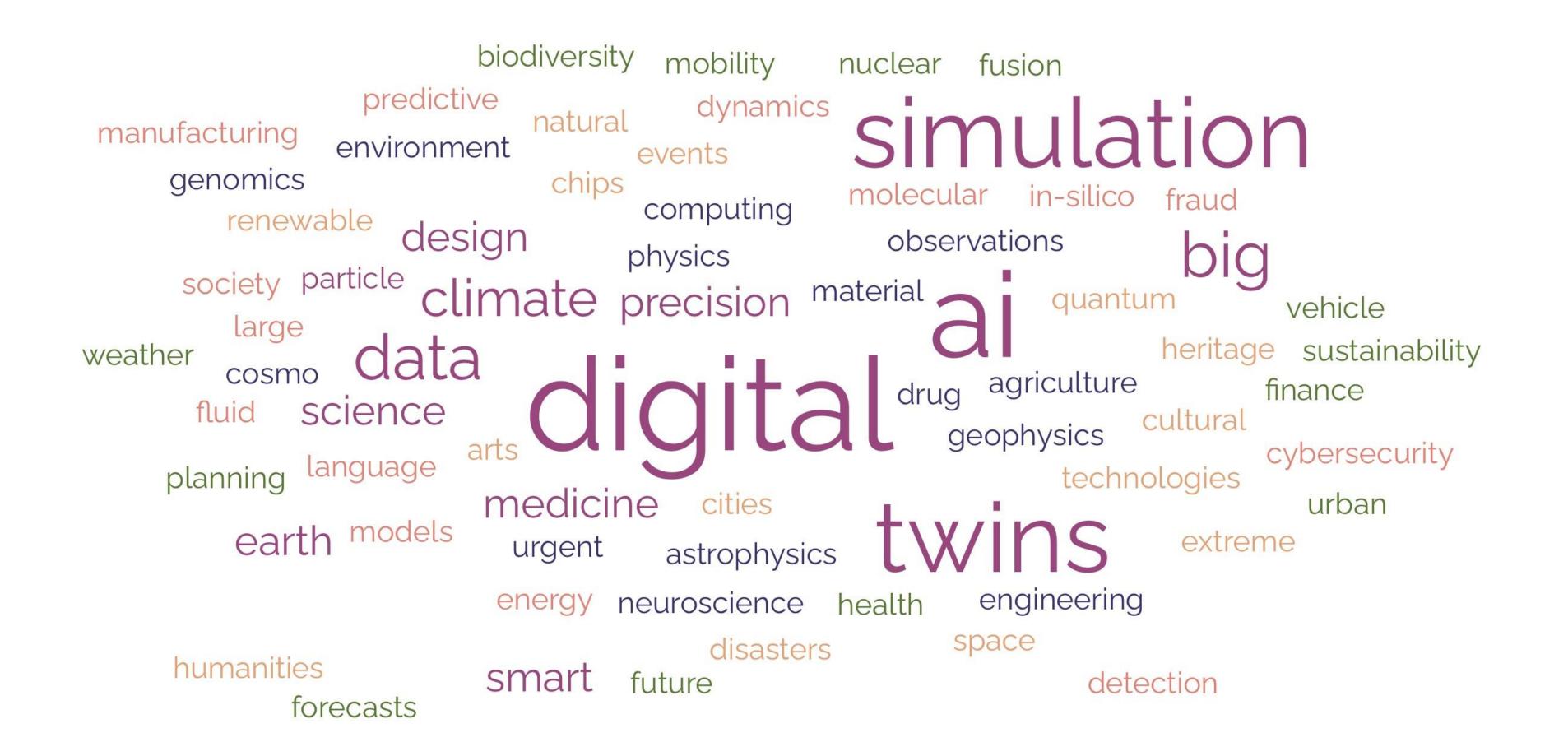
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HPC-BASED NAVIGATION SYSTEM FOR MARINE LITTER HUNTING

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EUROPE'S CHOICE

POLITICAL GUIDELINES FOR THE NEXT EUROPEAN COMMISSION 2024–2029 Through our Artificial Intelligence (AI), Europe is already leading the way on making AI safer and more trustworthy, and on tackling the risks stemming from its misuse.

We must now focus our efforts on becoming a global leader in AI innovation.

In the first 100 days, we will ensure access to new, tailored supercomputing capacity for AI start-ups and industry through an AI Factories initiative.

We will also develop with Member States, industry and civil society an **Apply AI Strategy** to boost new industrial uses of AI and to improve the delivery of a variety of public services, such as healthcare.

In this spirit, I will propose to set up a **European AI Research Council** where we can pool all of our resources, similar to the approach taken with CERN.

Putting research and innovation at the heart of our economy

Europe's competitiveness – and its position in the race to a clean and digital economy – will depend on starting a new age of invention and ingenuity. This requires putting research and innovation, science and technology, at the centre of our economy.

We will increase our research spending to focus more on strategic priorities, on groundbreaking fundamental research and disruptive innovation, and on scientific excellence.

To do this, we will expand the European Research Council and the European Innovation Council.

2024 Innovation Package: from Al Factories to GENAI4EU

EUR 2 bn





UNIVERSITIES

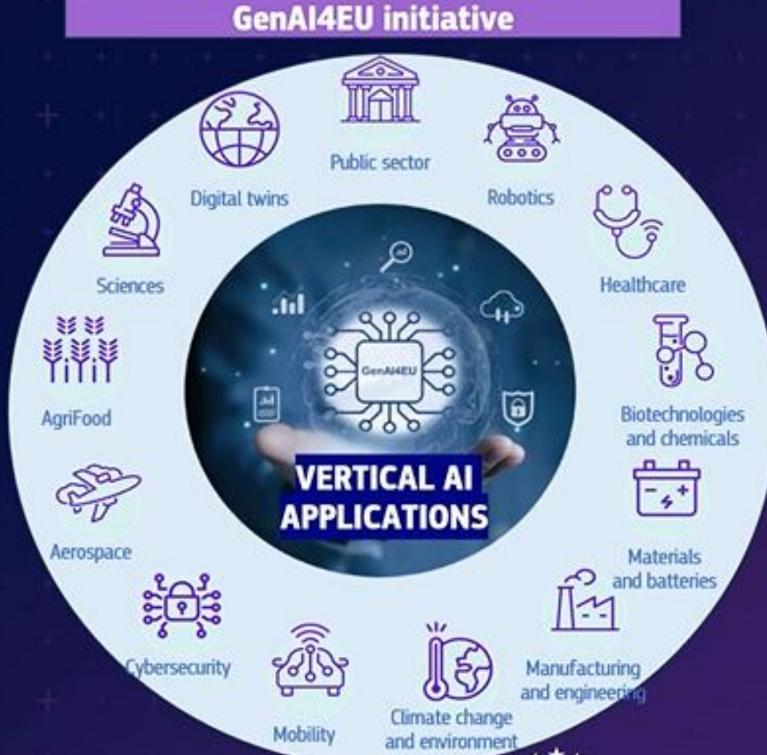




About 6300 Al Startups in the European Union



About 300 are generative AI Startups



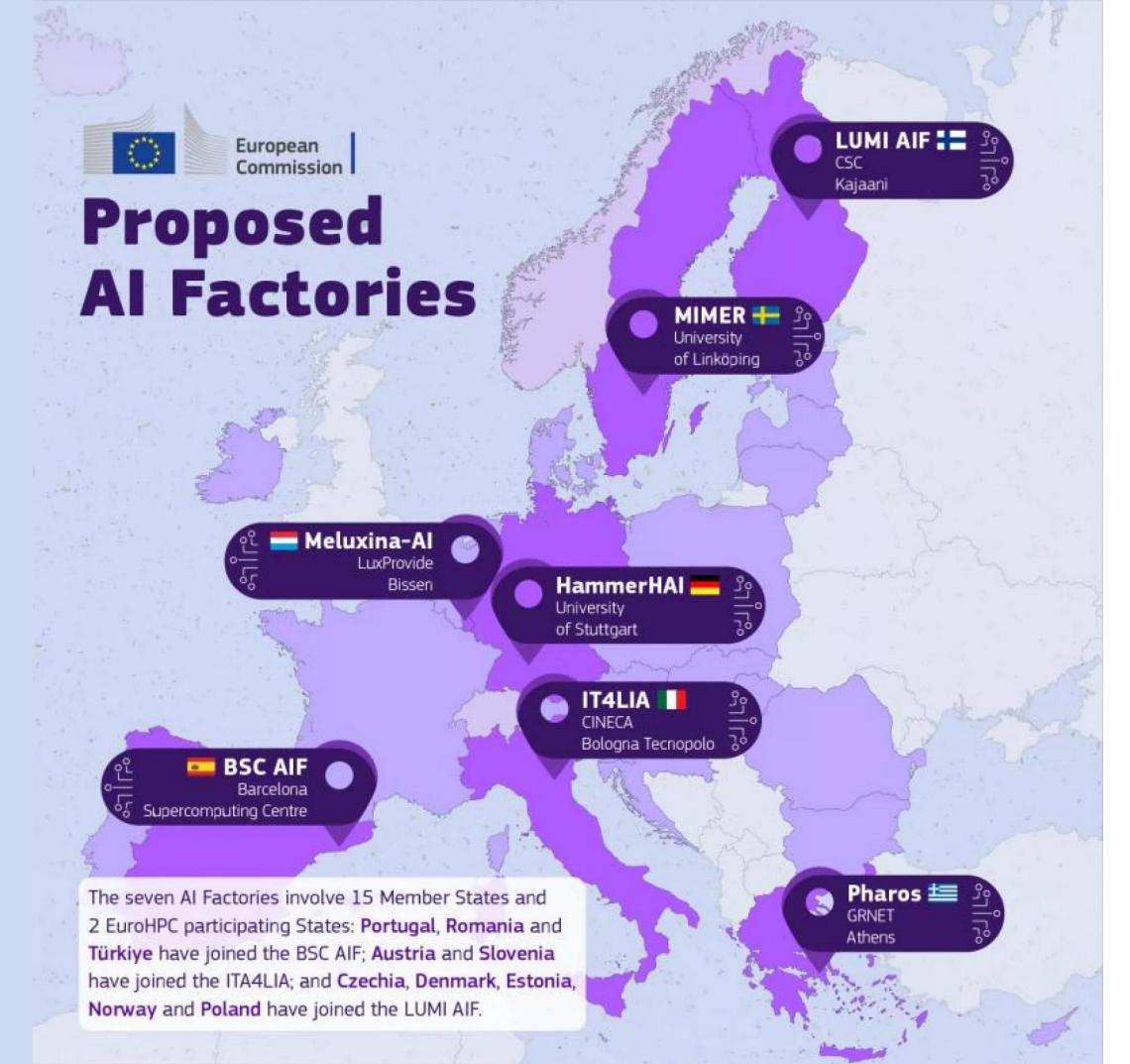
EUROPEAN ARTIFICIAL

INTELLIGENCE OFFICE

EUR 500 million in applications



Towards GenAl solutions « Made in Europe »





+ Segui

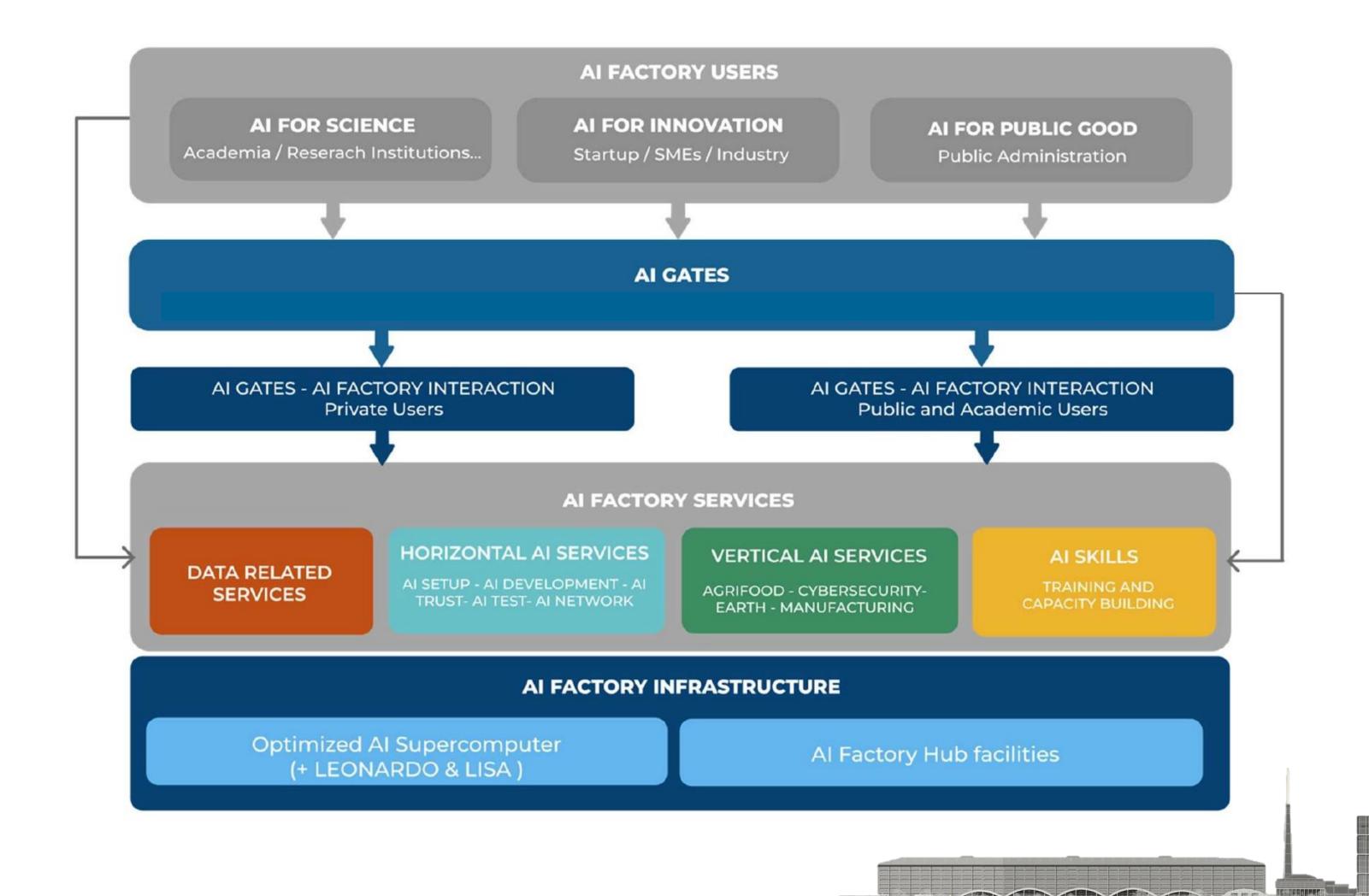
Today we are launching a call for AI Factories.

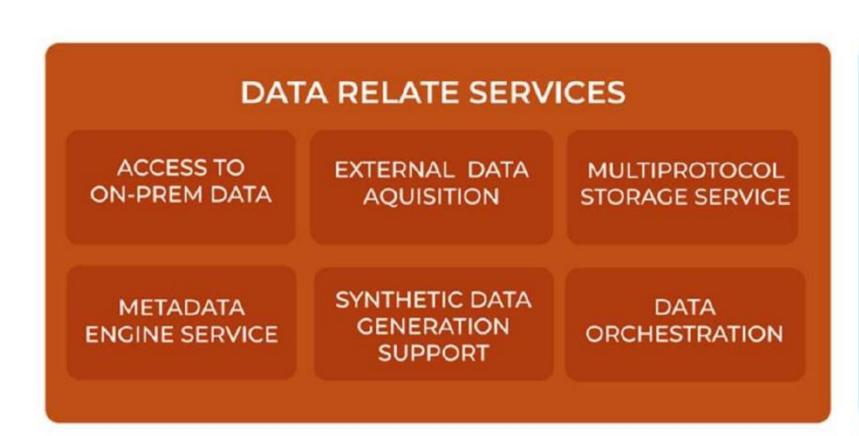
We are making EU funding available to set up facilities that will provide European AI start-ups and industry with all the ingredients for success →

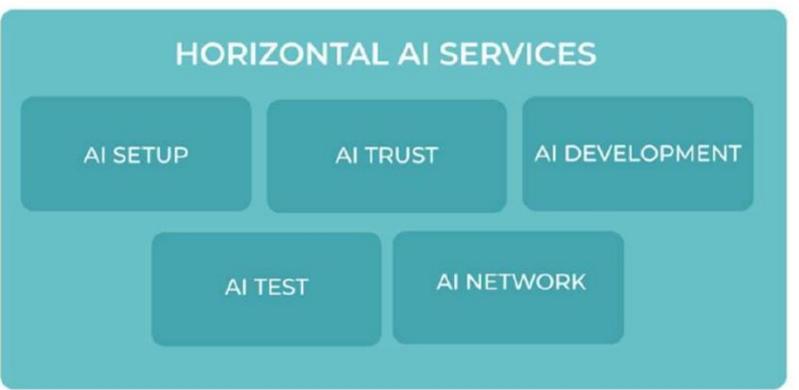
access to supercomputers, data, storage and a collaborative network.

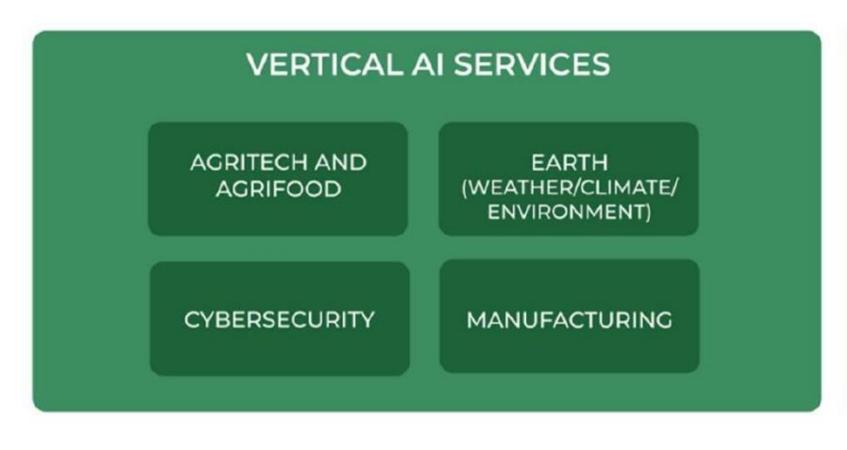
Mostra traduzione



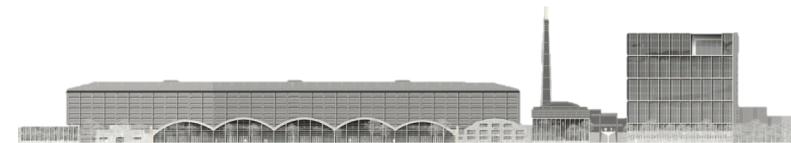
















HOW FAST IS FAST?

250.000.000.000.000 FLOPS

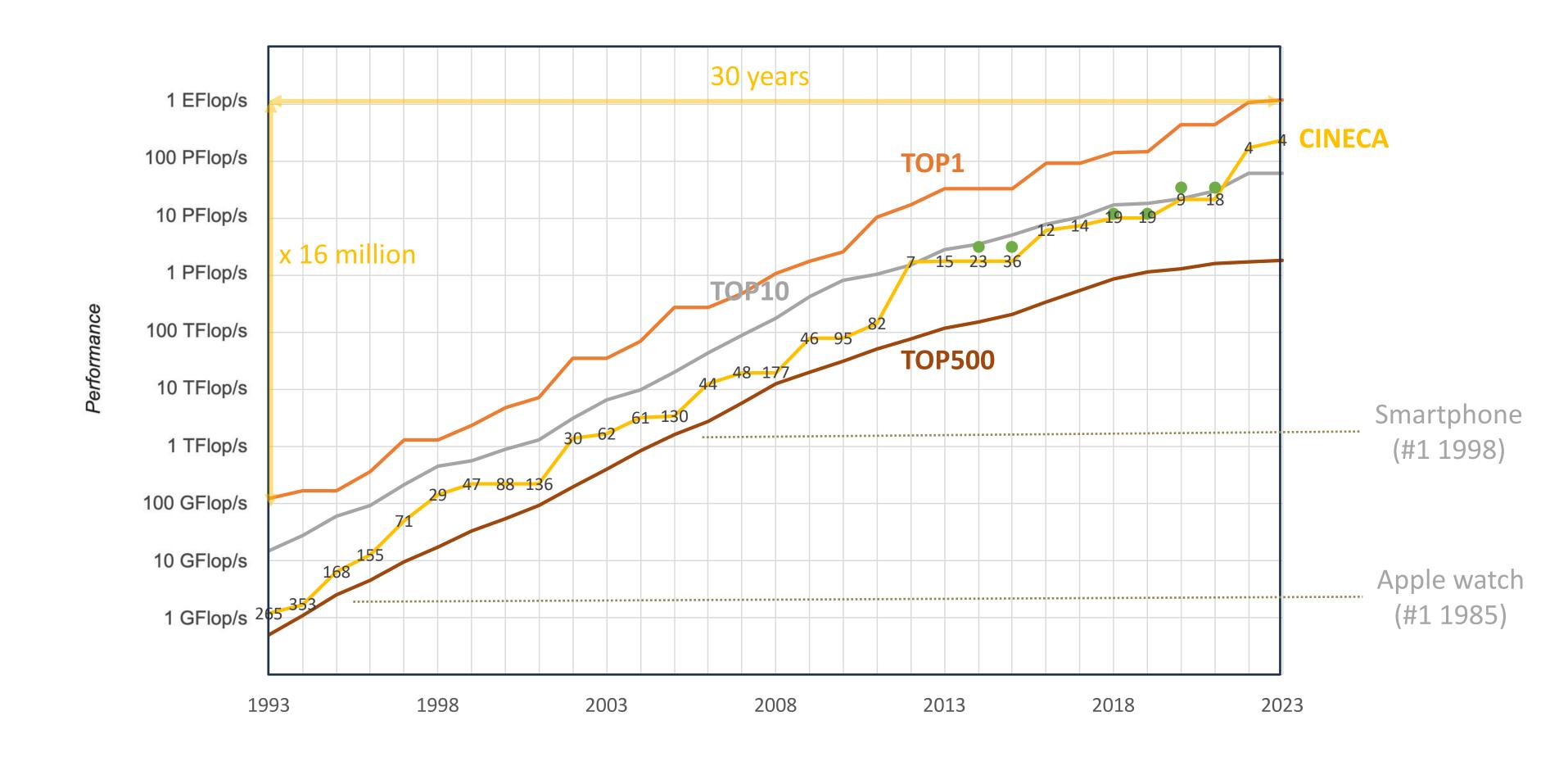






Tavola Rotonda

Big data, digitalizzazione e internazionalizzazione insieme, come antidoti alla trasformazione economica mondiale.

Coordina Giovanni Roncucci, Presidente Roncucci&Partners

Intervengono:

Stefano Cattorini, Direttore BI-REX

Luca Martuscelli, Responsabile strutturazione e monitoraggio partecipazioni SIMEST **Paolo Melone**, Responsabile Sviluppo Estero e Internazionalizzazione Imprese – Intesa Sanpaolo S.p.A

Marco Gasparri, CEO AEPI INDUSTRIE Srl Claudio Canellini, MD SARES MIRAMONDI IMPIANTI SpA

Conclusioni

Stefano Cattorini, Direttore BI-REX

La penetrazione dei Big Data nel sistema produttivo italiano: tecnologie 4.0 e innovazione per lo sviluppo della competitività internazionale

Seguirà aperitivo di networking.

