

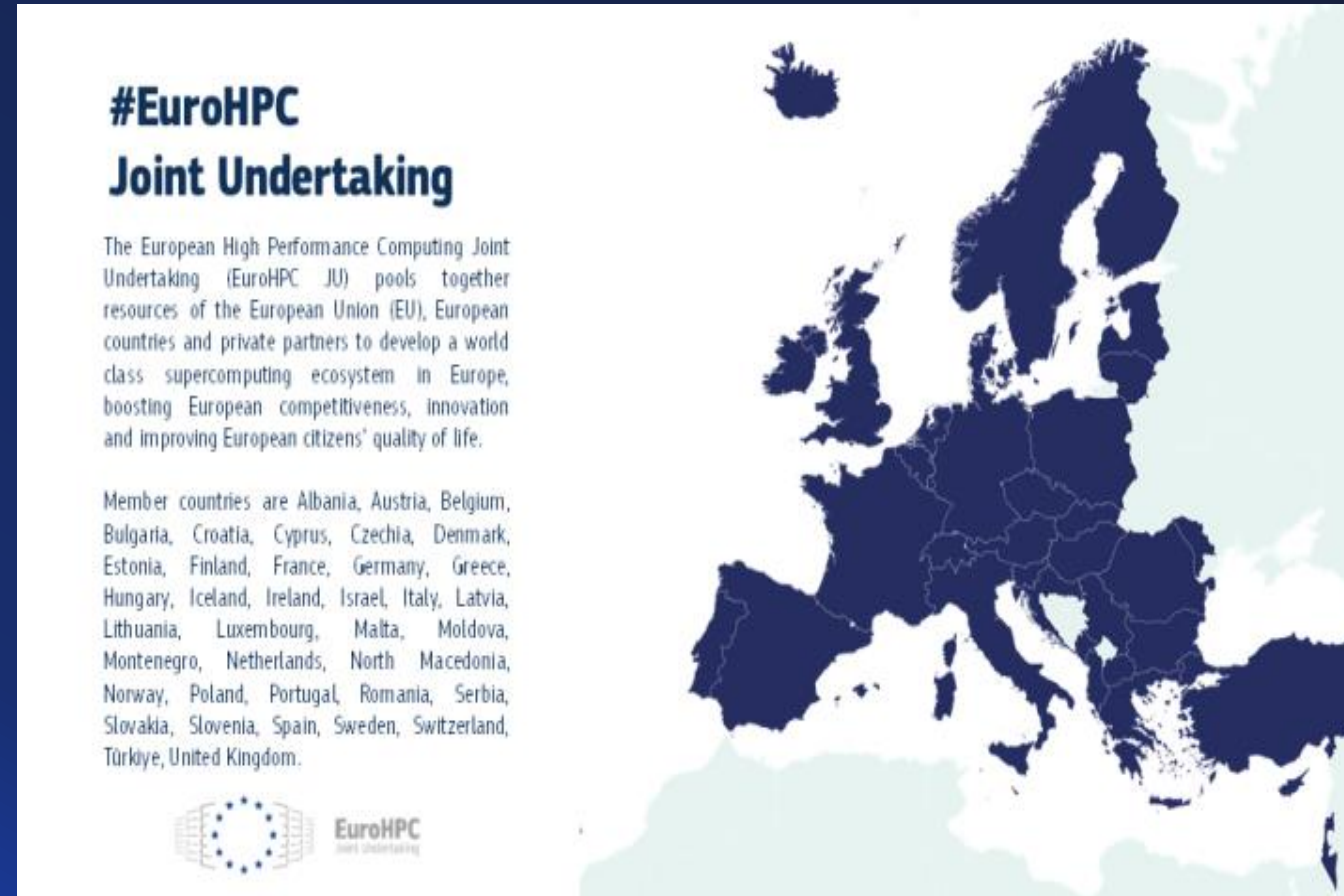


High-Performance Computing AI Factories/AI Gigafactories

March 2026

The EuroHPC Joint Undertaking 2021-2027


- EU body and funding entity, established in 2018, based in Luxembourg
- Governed by a Board composed of the EC, 37 Participating States, and 3 Private Members
- Mission:
 - Acquire, deploy and maintain a HPC and quantum Infrastructure in Europe
 - Fund R&I projects to develop HPC applications, software and hardware and foster a European supply chain
 - Provide access to HPC and quantum users across Europe and support the development of skills
 - Develop and operate AI Factories to support the growth of a competitive and innovative AI ecosystem in Europe



#EuroHPC
Joint Undertaking

The European High Performance Computing Joint Undertaking (EuroHPC JU) pools together resources of the European Union (EU), European countries and private partners to develop a world class supercomputing ecosystem in Europe, boosting European competitiveness, innovation and improving European citizens' quality of life.

Member countries are Albania, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Latvia, Lithuania, Luxembourg, Malta, Moldova, Montenegro, Netherlands, North Macedonia, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye, United Kingdom.



The EuroHPC Supercomputing Network



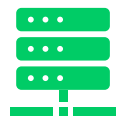
EXASCALE



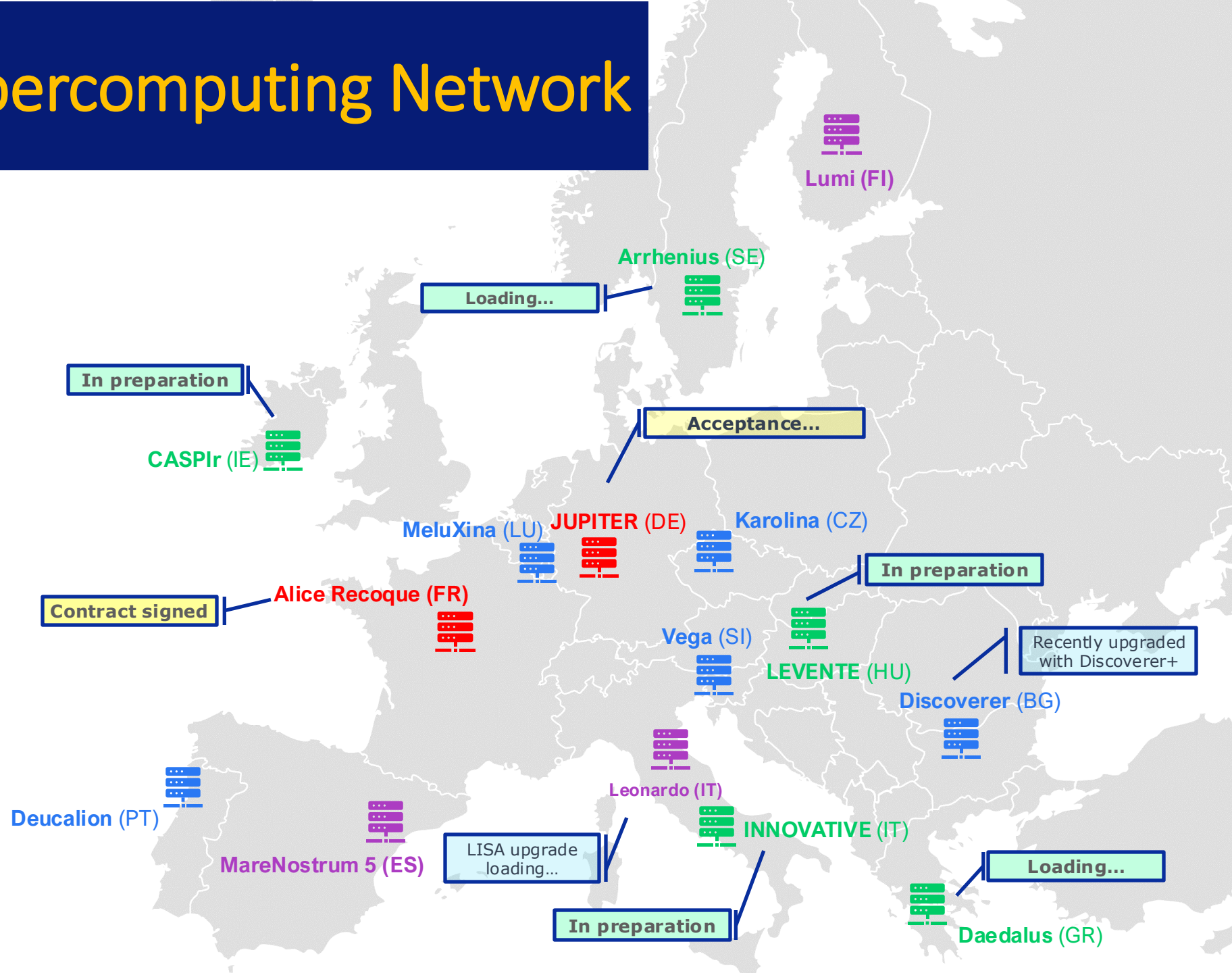
PRE-EXASCALE



PETASCALE

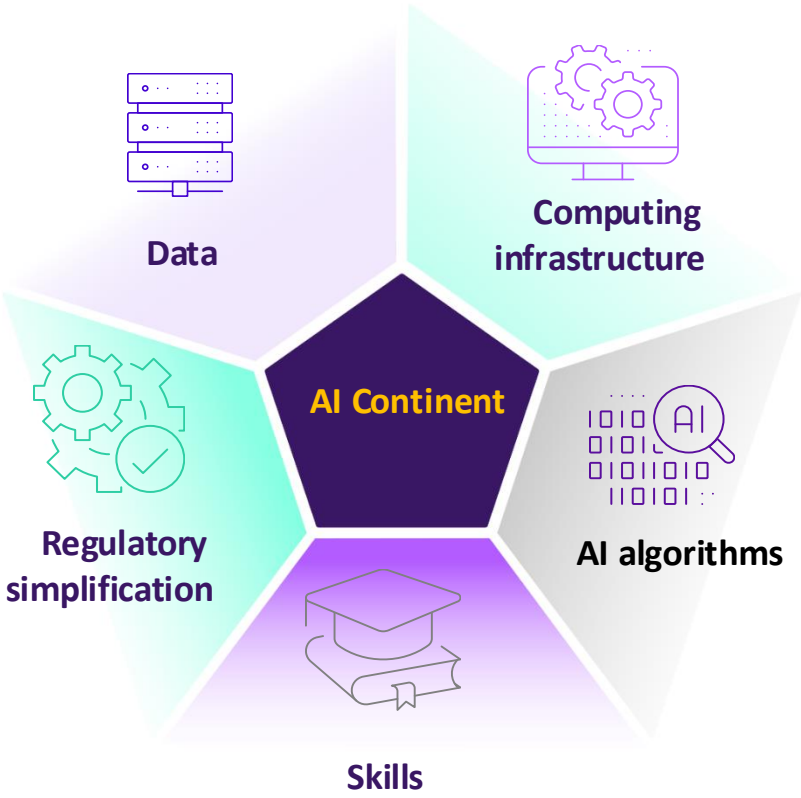


MID-RANGE



The AI Continent Action plan

<https://digital-strategy.ec.europa.eu/en/library/ai-continent-action-plan>

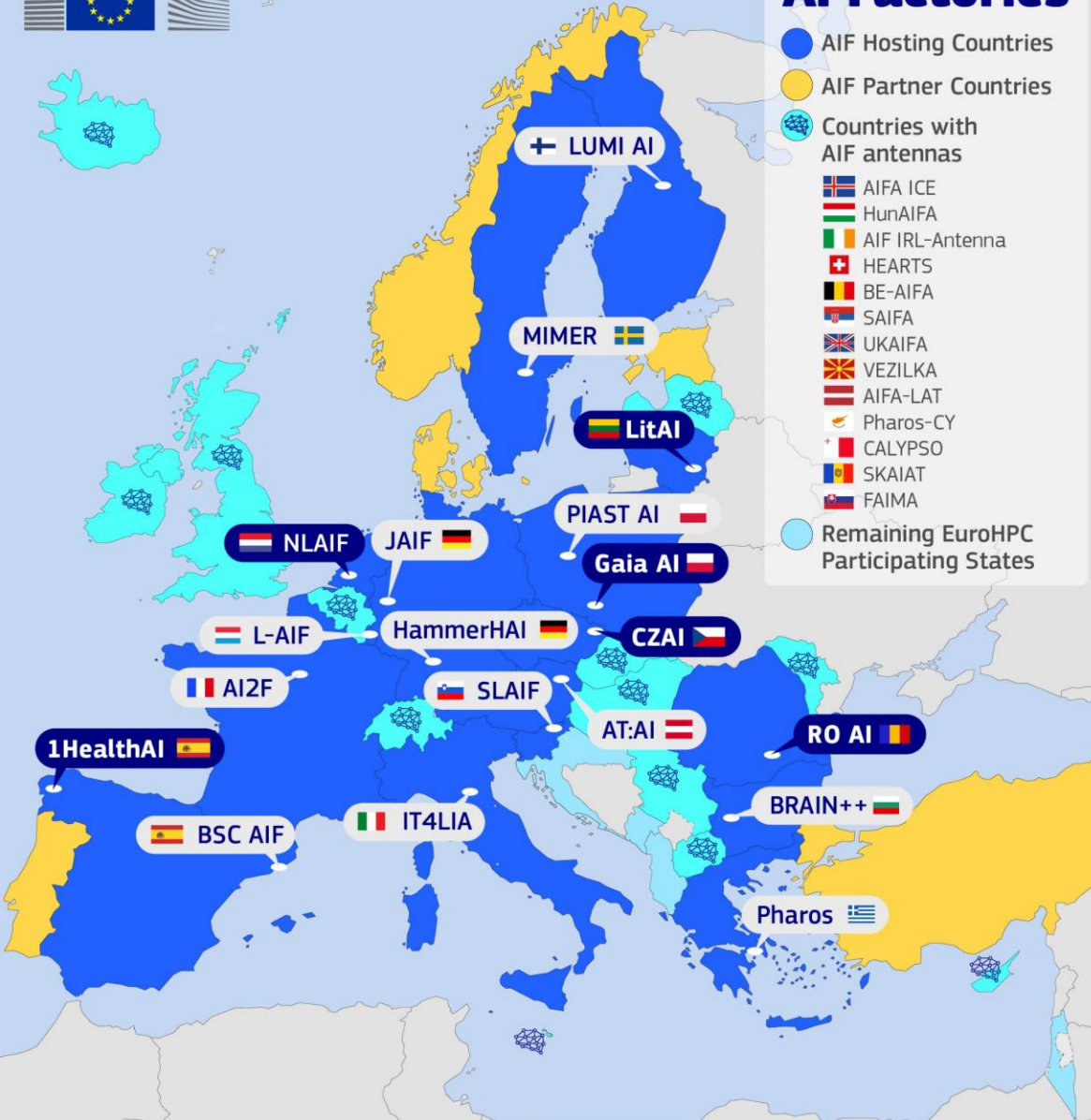


-  **Von der Leyen's Vision**
Up to 5 AIGFs to supercharge Europe's AI approach through strategic infrastructure investment
-  **Ensuring EU Sovereignty**
-  **Cornerstone Infrastructure**
-  **Novel Partnership Model**



AI Factories

- AIF Hosting Countries
- AIF Partner Countries
- 🌐 Countries with AIF antennas
- 🇩🇪 AIFA ICE
- 🇭🇺 HunAIFA
- 🇮🇪 AIF IRL-Antenna
- 🇨🇭 HEARTS
- 🇧🇪 BE-AIFA
- 🇸🇪 SAIFA
- 🇬🇧 UKAIFA
- 🇨🇪 VEZILKA
- 🇱🇹 AIFA-LAT
- 🇨🇾 Pharos-CY
- 🇷🇺 CALYPSO
- 🇧🇪 SKAIAT
- 🇷🇺 FAIMA
- 🌐 Remaining EuroHPC Participating States



Europe advances the AI Continent with new AI Factories and AI Factory Antennas

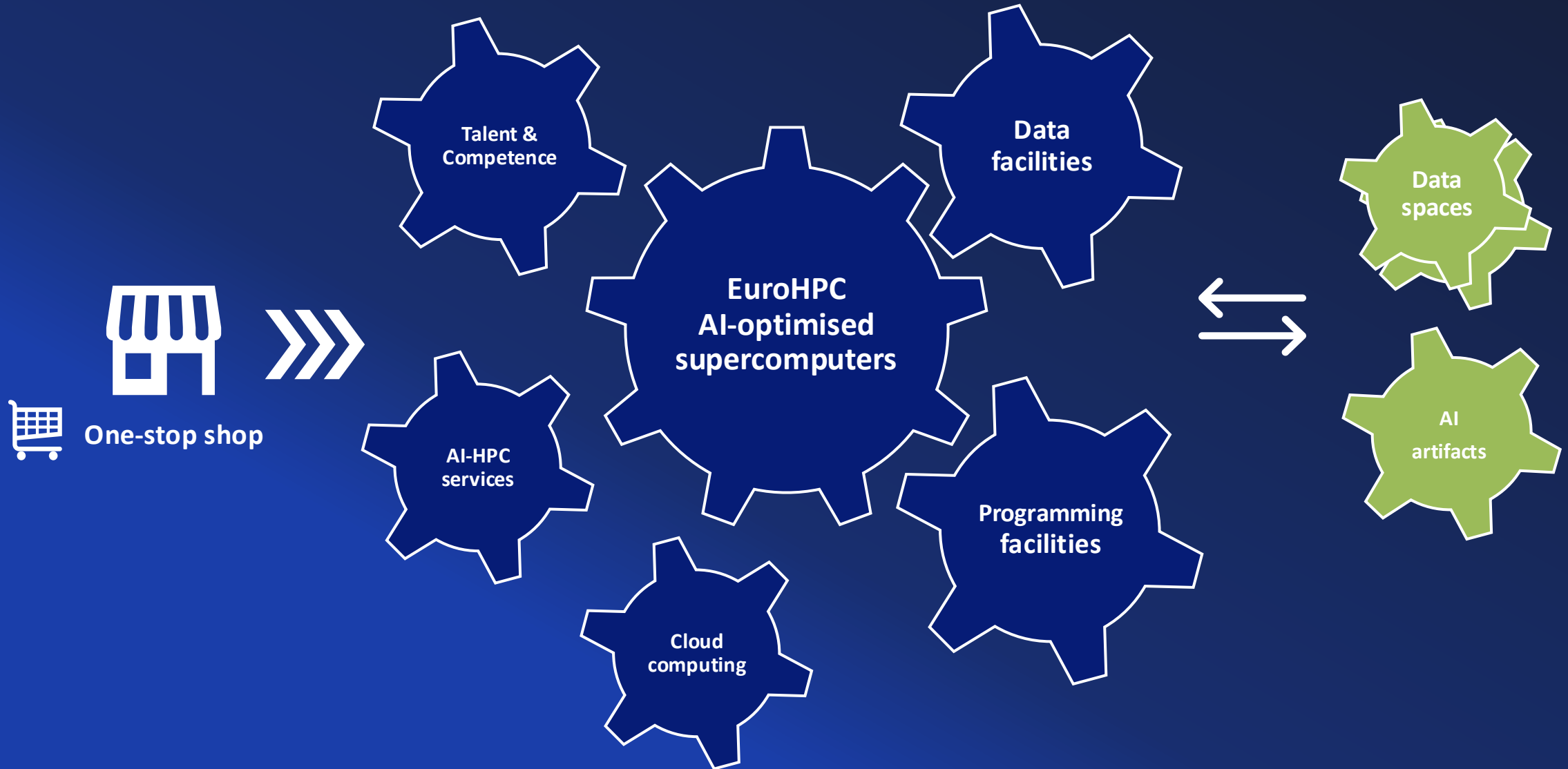
- **19 selected AI Factories + 13 AI Factory Antennas**, spanning MS, EuroHPC Participating States, and associated countries
- Deployment of a large pan-European infrastructure and service layer
- **15 new AI-optimised supercomputers** plus one major upgrade,
- **AI computing capacity in Europe to increase fivefold,**
- AI Factories and AI Factory Antennas have mobilised €2.6 billion for European AI excellence anchoring a sovereign, world-class AI and HPC ecosystem.
- **Interconnected AI Factories and Antennae** will operate as a federated network ensuring seamless collaboration, efficient resource sharing, and secure cross-border access—advancing **Europe’s strategic autonomy in critical digital capabilities**

Switzerland's participation is contingent upon the ratification of its accession to Horizon Europe.
 The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the European Union.
 This designation shall not be construed as recognition of a State of Palestine and is without prejudice to the individual positions of the Member States on this issue.
 Administrative boundaries: © EuroGeographics © OpenStreetMap
 Cartography: Eurostat – IMAGE, 05/2025

AI Factories

- **Dynamic ecosystems, including AI-optimised supercomputers, data capacities, programming and training facilities, and human capital** to support the EU AI industrial and research ecosystems in developing large AI models and applications.
- Novel approach to AI innovation based on a **network of public supercomputers providing an open environment to AI developers.**
- **AIFs & AIF Antennas gradually operational 2026.**
- **Strategic sectors:** Health/Life Science; Manufacturing; Climate/Environment; Space; Finance; Cybersecurity; Agri-tech/Agrifood; Education/Arts/Culture; and more.
- Largest AIFs expected to have each around **25 000 advanced AI processors.**
- Overall investments in supercomputing infrastructures and AI Factories around **EUR 10 billion (2021-2027).**

AI Factories




Gateway to AI Factories

AI Factories

AI Factories: computing power and customised support services for free!

Expanding and scaling business innovation for SMEs and Startups.

The European Union has established 13 new AI Factories that offer free, customised support to SMEs and Startups.



Apply for Access to AI Factories

Support and Training for Access













Contact us via email

Consult an expert







[Find more information on the Revised Access Policy of the EuroHPC Joint Undertaking](#)



AI Factories

 Finland <small>Czechia, Denmark, Estonia, Norway, and Poland Access: Ireland, Latvia and Switzerland</small>	 Luxembourg <small>Access: Ireland</small>	 Italy <small>Access: Switzerland, Serbia</small>	 Sweden <small>Access: Switzerland</small>
 Germany <small>JAF Access: Belgium, Hungary, Slovenia, Austria, United Kingdom</small>	 Spain <small>Portugal, Romania and Turkey</small>	 Greece <small>Access: Cyprus, Malta, North Macedonia and Serbia</small>	 France <small>Access: Ireland</small>
 Slovenia	 Bulgaria	 Austria <small>Access: Slovakia</small>	 Poland

New AI Factories

 Czechia <small>The Czech AI Factory (CZAI) will support the development and adoption of AI in Czechia.</small>	 Lithuania <small>LIAI Factory aims to transform Lithuania's HPC capabilities into a sovereign AI optimized infrastructure that can meet the needs of national and European ambitions.</small>	 Netherlands <small>The NLAI will be a nationally hosted, Europe colored project that aims to bridge the gap between AI research breakthroughs and their rapid, large-scale application in the Netherlands and Europe.</small>
 Spain 1Health AI <small>The Spanish 1HealthAI (One-Health AI Factory) aims to position European One-Health products, services, research, and the broader economy among global leaders.</small>	 Poland - Gaia AI Factory <small>The Gaia AI Factory project aims to accelerate the development and increase the adoption of cutting-edge AI technologies in Poland.</small>	 Romania <small>The RO AI Factory aims to transform SMEs from passive technology adopters into active AI innovators by prioritising services, training, and infrastructural access.</small>

Tailored access modes have been put in place by the EuroHPC JU to prioritise AI innovators – startups, scaleups, SMEs ensuring streamlined fast access to computing resources with minimal administrative overhead.



Access to EuroHPC Infrastructure



Access for "classical" HPC

AI Access

BENCHMARK	DEVELOPMENT	REGULAR	EXTREME SCALE
For scaling tests & benchmarks	For code and algorithm development	For projects that require large-scale HPC resources	For high-impact, high-gain projects that require extremely large-scale HPC resources
Fixed amount of allocation for 2 or 3 months	Fixed amount of allocation for 6 or 12 months	Allocation duration: for 12 months	Allocation duration: for 12 months
Continuously open with monthly cut-offs	Continuously open with monthly cut-offs	Continuously open with 2 cut-offs per year	Continuously open with 2 cut-offs per year
Results and access to system: 2 weeks from cut-off date	Results and access to system: 2 weeks from cut-off date	Peer-review process duration: 4 months	Peer review process duration: 6 months

AI AND DATA INTENSIVE for Collaborative Projects	INDUSTRIAL INNOVATION
For scientific projects intending to perform artificial intelligence and data-intensive activities	<ul style="list-style-type: none"> • PLAYGROUND • FAST LANE • LARGE SCALE
Fixed allocation for 12 months on first-in / first-served basis	SELECTION: AIF Industrial Innovation Group
Bimonthly cut-offs	
Peer-review process duration: 1 month	



AI Gigafactories

- Building on the concept of AI Factories, taking it to the next level by **integrating coherently** massive computing power, **beyond 100 000 advanced AI processors**.
- Large-scale facilities designed to **develop, train, and deploy the next generation most complex AI models at an unprecedented scale** (e.g., hundreds of trillions of parameters).
- Targeting several across Europe
 - Cost of 1 Gigafactory: **€4-5 bn**. Each being powered by around 100-250 MegaWatts
 - Total investment cost for infrastructure up to **€20 bn**
- Essential for Europe to be able to **UNION compete on the global level** and ensure its **strategic autonomy in science and in critical industrial sectors**.
KOMAROVSKY
26/02/2026
- Focus on **power capacity, supply chain, cutting-edge networks, energy-efficiency, and AI-driven automation**.
- Need for **public-private partnerships** given the magnitude of the required investments.
- AIGFs will be selected through an **official Call planned for Spring 2026**
- AI Factories together with AI Gigafactories will pave the way for truly sovereign AI

Potential areas of collaboration



- AI Infrastructure Supporting the advancement of Earth-system modelling
- Shared Data Ecosystems and Sovereignty
- End-to-End AI Journey
- Capacity Building and Skills Development
- Accelerating Europe's Twin Transition

THANK YOU