Webinar | Unlocking European AI potential: AI Factories for innovation & competitiveness

Wednesday 21st of October 2026 @ 10-11:30 (CET)



Introduction and welcome to the session

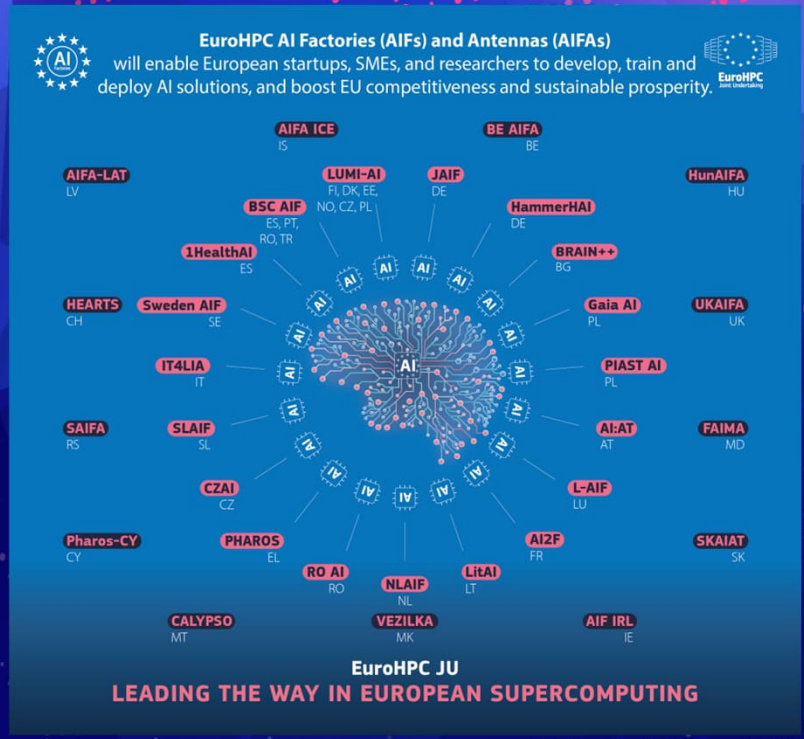
AI Factories: one-stop innovation hubs, helping start-ups, SMEs, researchers, and industry leaders develop, test, and scale AI solutions across Europe.

- AI Factory = compute + data + talent

Today's webinar brings together stakeholders from across the European AI ecosystem to:

- Provide a clear understanding of how European AIFs and AIFAs can support organisations throughout their AI journeys.
- Showcase real-world examples of how AI infrastructure enables innovation, business growth, and sector-specific AI adoption
- Foster dialogue within European AI ecosystem on unlocking Europe's AI innovation potential.

Key takeaway: Participants will leave with a better understanding on the AI Factories, available resources and opportunities for collaboration in European AI innovation ecosystem.



Session programme

Setting the scene: Welcoming remarks from Session Chair 5 minutes	**Sara Garavelli**, *CSC / IT Center for Science / LUMI AI Factory*
AI Factories and upcoming AI Gigafactories supporting the implementation of European AI policies 15 minutes	**Lilit Axner**, *EuroHPC Joint Undertaking*
Pitches from European AI Factories and AI Factory Antennas 15 minutes	**Aleksi Kallio**, *CSC – IT Center for Science / LUMI AI Factory*, **Mariona Sanz Ausàs**, *BSC / BSC AI Factory*, **Mariusz Sterzel**, *Cyfronet / Gaia AI Factory*, **Anny Bhan**, *LUXINNOVATION / Luxembourg AI Factory*, **Sabine Demey**, *IMEC / Belgian AI Factory Antenna*
Panel discussion: AI Factories enabling European AI innovation in key industry sectors 40 minutes	**Moderator:** Sara Garavelli **Panelists:** Lilit Axner, Aleksi Kallio, Mariona Sanz Ausàs, Mariusz Sterzel, Anny Bhan, Sabine Demey
Wrap-up by session chair 5 minutes	

Housekeeping

- Please note that the webinar is recorded
  - The recording and slides will be made available on the LUMI AIF website after the webinar
- Please mute yourself during presentations to ensure smoother facilitation of the session
- Audience questions:
  - ➢ You can ask questions and leave comments throughout the session in chat and Q&A
  - ➢ During the panel discussion, you can also raise your hand to ask questions. Please wait until the moderator calls you up before opening your microphone
- Audience questions and comments will be addressed during the panel discussion



Meet our speakers!

Session chair



Sara Garavelli,
CSC - IT Center for Science / LUMI AI Factory

Speakers



Lilit Axner,
EuroHPC JU



Aleksi Kallio,
LUMI AI Factory



Mariona Sanz Ausàs,
BSC AI Factory



Sabine Demey,
Belgian AI Factory Antenna



Mariusz Sterzel,
Gaia *AI Factory*



Anny Bhan,
Luxembourg AI Factory



The European High Performance Computing Joint Undertaking

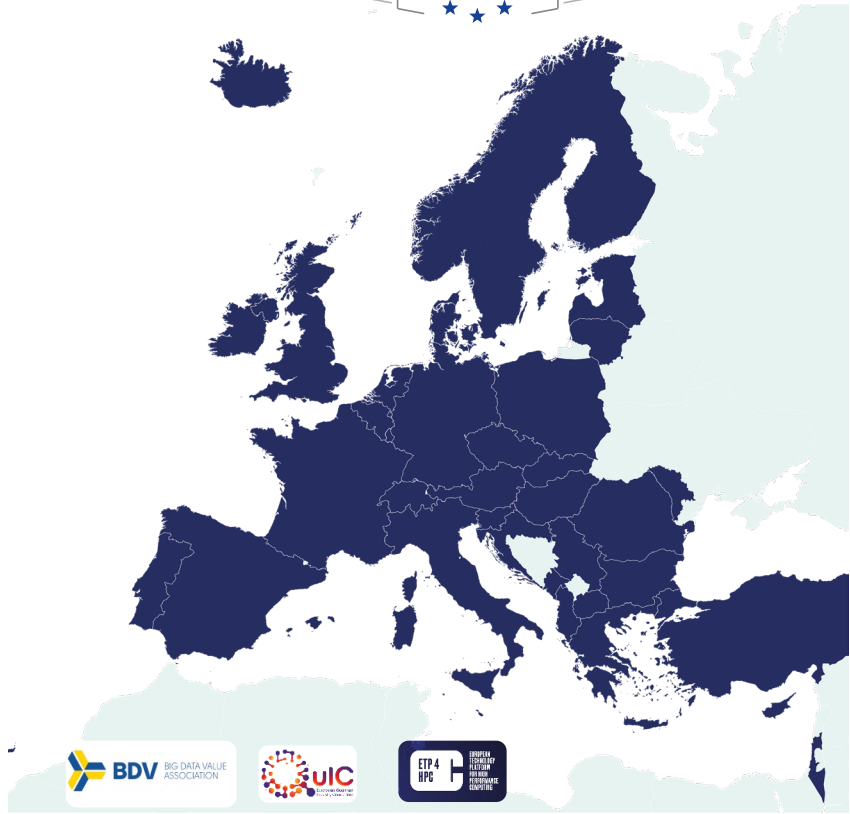
EuroHPC
Joint Undertaking

Dr. Lilit Axner
Programme Manager Infrastructure- EuroHPC JU

ABOUT THE EUROHPC JOINT UNDERTAKING

EuroHPC Joint Undertaking

- An EU body and funding entity based in Luxembourg, established in 2018 and autonomous since 2020
- Governed by a Board composed of the European Commission, 38 Participating States and 3 Private Members



Digital Europe Programme

1.98B EUR

- **Infrastructure**
- **Federation of supercomputing services**
- **Widening usage and skills**

Horizon Europe Programme

900 M EUR

- **Technology**
- **Applications**
- **International Cooperation**

Connecting Europe Facility

200 M EUR

- **Hyperconnectivity**
- **Data Connectivity**

- Procure, deploy and maintain **High Performance Computing, AI Factories, AI Gigafactories and Quantum infrastructure** in Europe
- **Fund innovative Research and Innovation projects**, to develop European skills, applications, software and hardware and foster a European supply chain
- Provide **access to High Performance Computing, AI Factories, AI Gigafactories and Quantum resources** and user support
- Support state-of-the-art fundamental and applied research and innovation in **Quantum technologies**



NINE PILLARS OF EUROHPC JU

EuroHPC Joint Undertaking

New! Quantum Technologies

Technology

Skills and Usage

Federation and Hyper connectivity

International Cooperation

Applications

Infrastructure

AI Factories

AI Gigafactories New!



AI FACTORIES SERVICES

EuroHPC Joint Undertaking

Sophisticated hardware and software environment

Data

Expert consultation

AI Factories

Testing and Modelling

AI legislations consultation

Software and hardware expertise



Example: Complying with AI ACT

The EU AI Act is the world's first comprehensive legal framework for artificial intelligence. It uses a **risk-based approach** to categorize and regulate AI, ensuring that systems placed on the market are safe, respect fundamental European rights, and foster trustworthy AI.

1.Global Reach: The law applies to any organization developing, importing, or deploying AI systems in the EU market.

2.Prohibited Unacceptable Risk: AI applications that threaten human safety, livelihoods, and rights are outright banned

3.Regulated High-Risk Systems: AI used in critical areas—such as healthcare, employment (e.g., CV-sorting), law enforcement, and critical infrastructure—must undergo strict assessments.

4.High-Risk Obligations: Developers and deployers of high-risk AI must establish quality management systems, maintain detailed technical documentation, ensure automatic logging, and provide human oversight.

5. Limited Risk & Transparency: Systems like AI chatbots and deepfakes carry light transparency obligations. Providers must clearly notify end-users when they are interacting with AI.

6. General Purpose AI (GPAI) Rules: Foundation and general-purpose models must comply with transparency requirements, respect EU copyright laws, and publish summaries of their training data.

7. **Minimal Risk:** The vast majority of AI systems (like spam filters or AI-enabled video games) are considered minimal risk and face no mandatory obligations under the act.

8. Phased Enforcement: The regulations apply in stages.

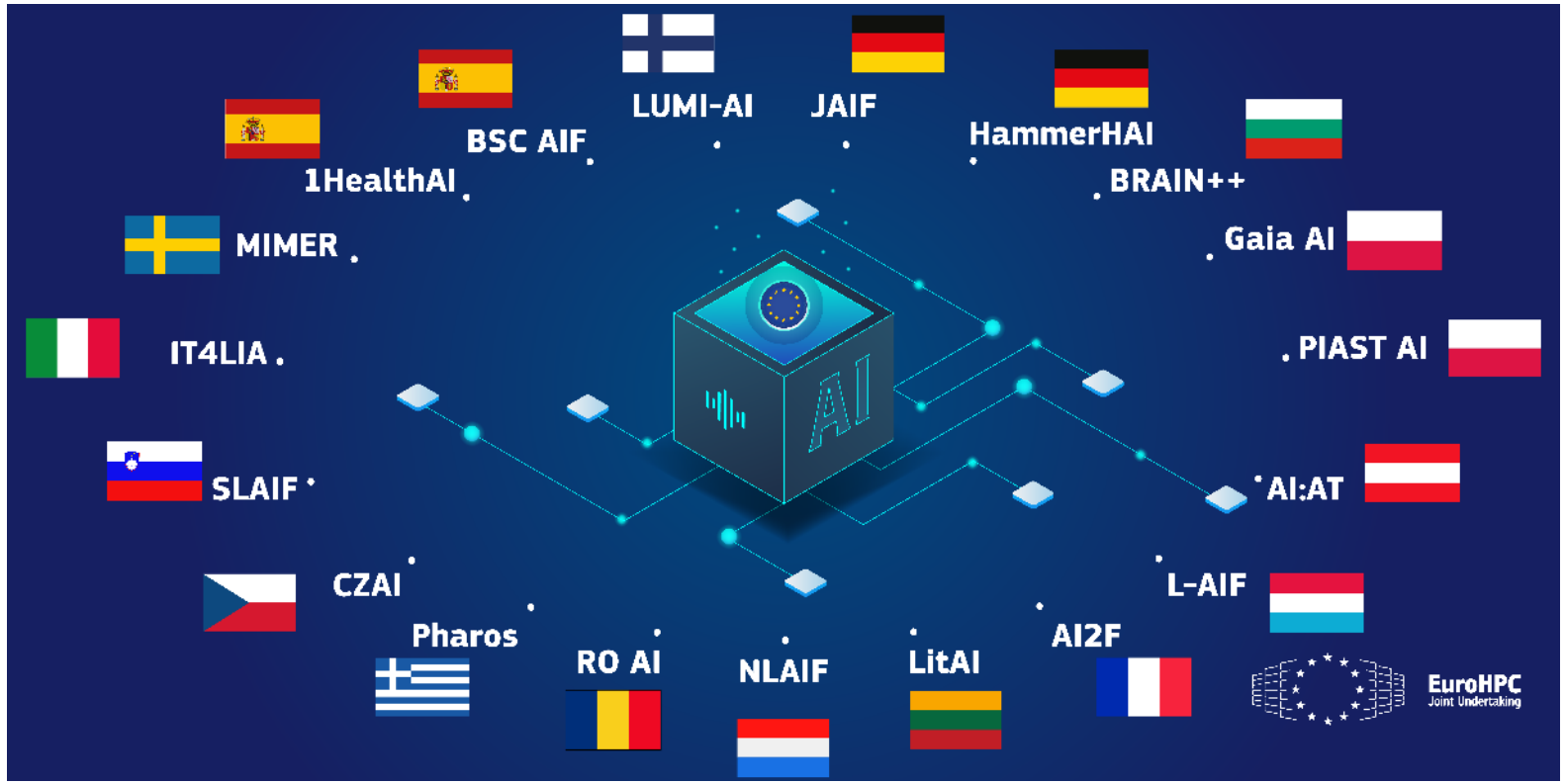
9. AI Literacy Mandate: Organizations operating in the EU are required to ensure adequate AI literacy for their employees involved in using and deploying AI systems.

10. Hefty Penalties: Non-compliance can lead to massive financial fines, ranging up to 35 million Euros or 7% of a company's global annual turnover, whichever is higher.



19 AI FACTORIES → MORE THAN 30 KEY SECTORS

Agriculture
Autonomous Systems
Food
Health
Cybersecurity
Life Sciences
Finance
Biotechnology
Fintech
Robotics
Earth Sciences
Aerospace
Physics
Consumer Goods
Dual Use



Green economy
Law Tech
Digital Society
Culture
Sustainability
Languages
Manufacturing
Engineering
Media
Public sector
Insurance
Material Sciences
Space
Universe
Gaming Industry



AI FACTORIES

BUILDING AN AI ECOSYSTEM IN EUROPE

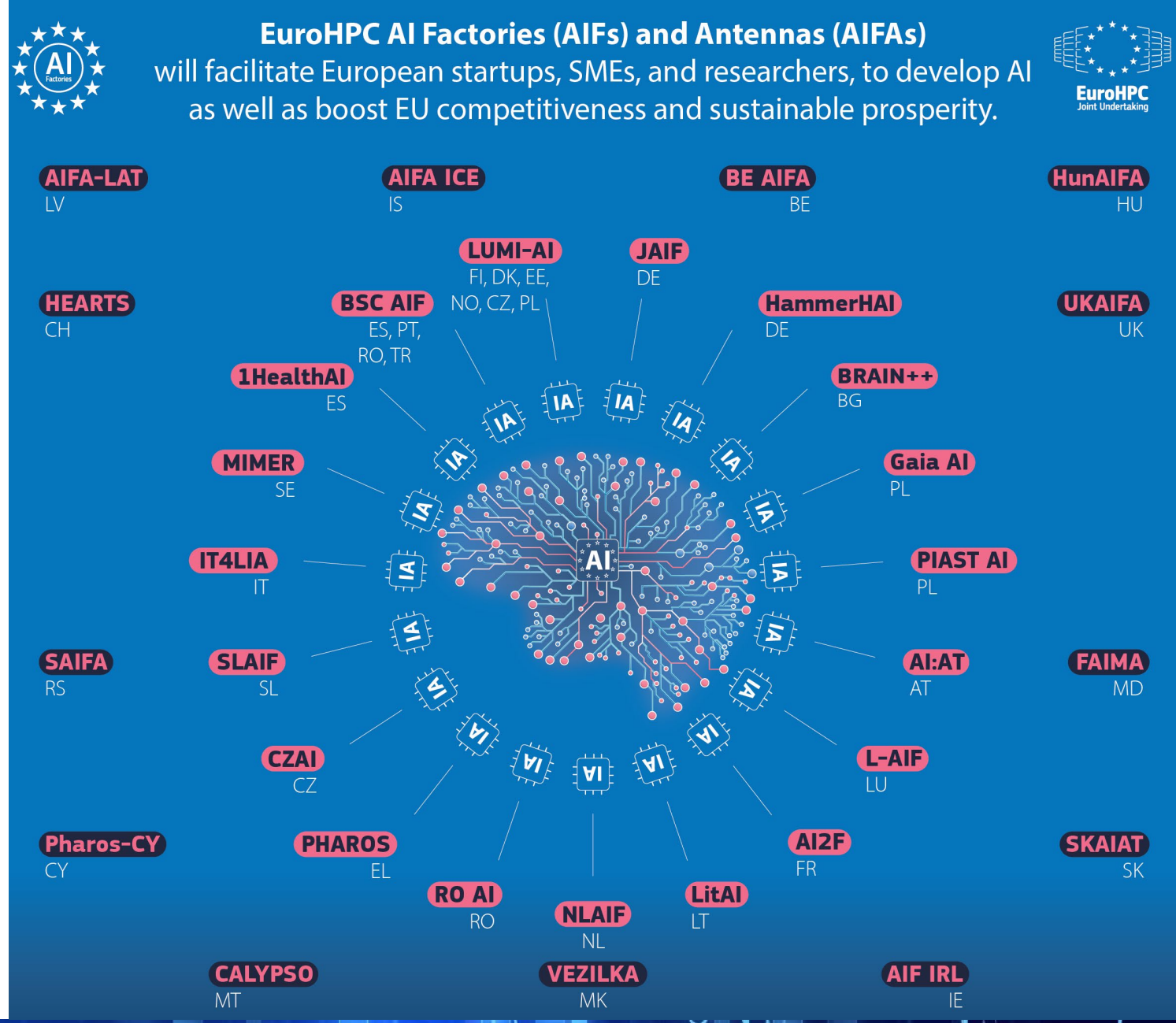
€2.6 billion investment

19 AI Factories in 16 European countries

13 AI Factory **Antennas**

EuroHPC AI Factories (AIFs) and Antennas (AIFAs)
will facilitate European startups, SMEs, and researchers, to develop AI as well as boost EU competitiveness and sustainable prosperity.

EuroHPC Joint Undertaking



EUROHPC SUPERCOMPUTERS

JUPITER



LUMI



Leonardo/LISA



MareNostrum5



MeluXina



Vega



Discoverer/Discoverer+



Karolina



Deucalion



Arrhenius



Ongoing Development

DAEDALUS



Alice Recoque



CASPIr



LEVENTE



INNOVATE
Industrial System

AI System procurements

Contracted – Under installation to become operational within 2027
- **MN5** Upgrade (BSC-AIF | BSC) (**Signed** | FSAS/Telefonica)
- **HammerHAI** (HLRS) (**Signed** | HPE)
- **MIMER** (Linköping University) (**Signed** | Bull)
- **IT4LIA** (CINECA) (**Signed** | E4/Dell)
- **MeluXina AI** (L-AIF | LuxProvide) (**Signed** | E4/Dell)
- **LUMI AI** (LAIF | CSC) (**Signed** | Bull)

Call for Tenders (Open Procedure)
- **Discoverer++** (BRAIN++ | Sofia Tech Park) (closed 16/10/2026)

Call to participate in Competitive Dialogue
- **AI:AT** (AIF Austria | ACA) (Dialogue stage)
- **NLAIF** (AIFNL) (Deadline) (Dialogue stage)

Under preparation
- **PIAST AIF** (PSNC)
- **Vega-AI** (SLAIF | IZUM)
- **CZAI** (IT4I)
- **ROAI** (ICI Bucharest)
- **1HealthAI** (CESGA)
- **LitAI** (VU)
- **GAIA** (Cyfronet)

AIFs relying on systems from previous calls (Operational or Under Installation)
- **JUPITER** (JAIF | JSC)
- **Alice Recoque** (AI2F | GENCI)
- **Daedalus** (Pharos | GRNET)



FEDERATION PLATFORM & HYPERCONNECTIVITY

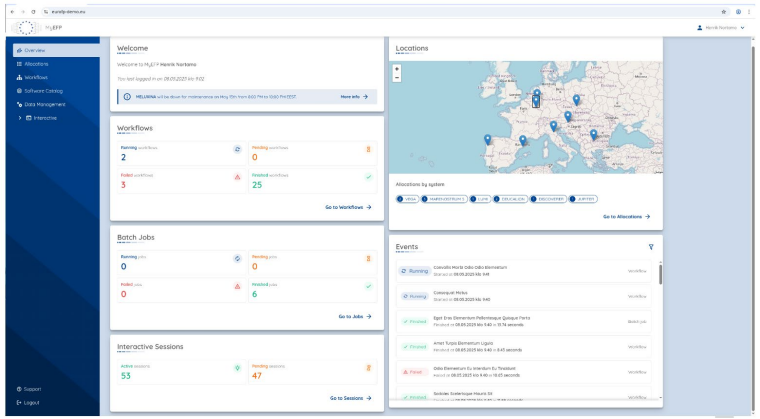
“EuroHPC JU aim to develop, deploy, extend and maintain in the EU a world-leading federated, secure and hyper-connected supercomputing, quantum computing, service and data infrastructure ecosystem”

Federation Platform

Designed to support an expanding range of workflows and enable innovative approaches to complex challenges.

Timeline

- Jan 2025: Start of development
- Sept 2025: Collaboration agreements with EuroHPC Hosting Entities to streamline integration
- April 2026: Initial release



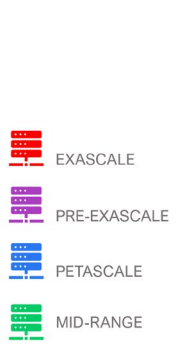
HyperConnectivity

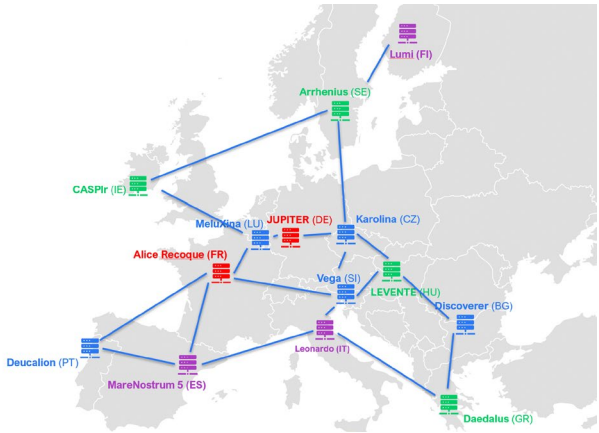
Deliver terabit-per-second capacity with robust security, flexible, and future-proof services.

Timeline

- Sep 2025: Framework Contract Signed
- 2026: High Level Design (HLD) and HyperConnectivity Service Area (HCSA) delivered
- 2029: Fully hyperconnected ecosystem in operation











AI FACTORIES ACCESS MODES for SMEs and Start-ups

PLAYGROUND

- Access within **2 working days** and on a rolling basis
- Duration of allocations: **1, 2 or 3 months**
- Fixed allocation: **5,000 GPU hours**



FASTLANE

- Access within **4 working days** and on a rolling basis
- Duration of allocations: **1, 2 or 3 months**
- Flexible allocation: **10,000 – 50,000 GPU hours**



LARGE SCALE

Peer-reviewed

- Access within **10 working days** after the cut-off date
- Duration of allocations: **3, 6 and 12 months**
- Flexible allocation: **> 50,000 GPU hours**





AI GIGAFACTORIES

EuroHPC Joint Undertaking

Taking AI Factories 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.**

Federated with the **EuroHPC network of AI Factories** and sovereign cloud.

Essential for Europe to be able to **compete on the global level** and ensure its **strategic autonomy in science and in critical industrial sectors**.

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.



AI GIGAFACTORIES

- A new class of **energy-efficient,** very large-scale facilities designed to **develop, train, run inference, and deploy the next generation AI models at an unprecedented scale**.
- A strategic milestone in advancing the **Union's digital and technological sovereignty**, for the development of a resilient, sovereign European AI ecosystem.
- The AIGF infrastructure must be **located in EU Member States and led by a Coordinator that is established, owned, and controlled** within the EU.
- AIGFs are taking AI Factories to the next level by integrating coherently massive computing power, **beyond 75 000 state-of-the-art advanced AI processors (H100 equivalent)**.
- Focus is on **power capacity**, **supply chain**, **cutting-edge networks**, **energy-efficiency**, and **AI-driven automation**.
- AIGFs are industry-led initiatives that must demonstrate clear financial viability and long-term sustainability.
- Need for **public-private partnerships** given the magnitude of the required investments.

One call – Two lots

Lot 1: Medium-Scale AIGF

Target: 4 winning consortia

Phase 1: minimum 25 000 GPUs (H100 equivalent)

Phase 2: full scale AIGF, minimum 75 000 GPUs

Lot 2: Large-Scale AIGF

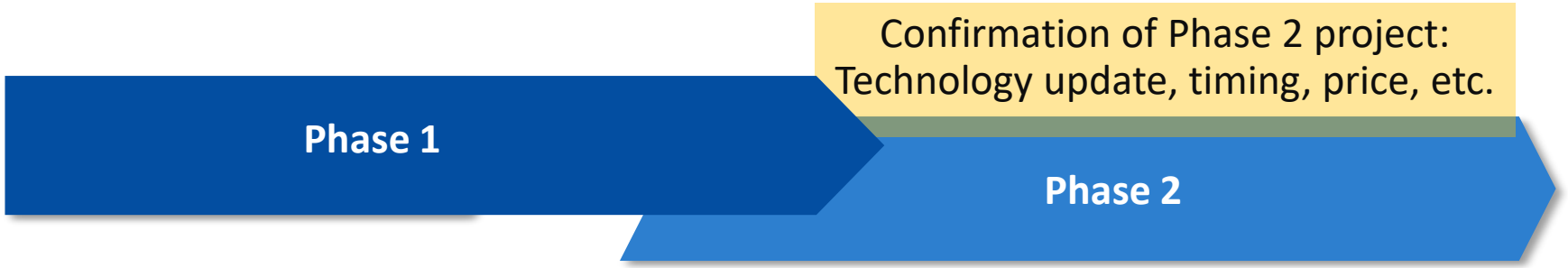
Target: 3 winning consortia

Phase 1: minimum 40 000 GPUs (H100 equivalent)

Phase 2: full scale AIGF, minimum 100 000 GPUs

- **SINGLE-COUNTRY:**
  - Mono-site
  - Multi-site
- **MULTI-COUNTRY:**
  - AIGF sites (full scale) in one or more Member States
  - AIGF Antennas

ONE single procurement implemented in TWO LINKED Phases



	Deployment of Phase 1 of an AIGF (budgets per AIGF project)	Expansion of AIGF (Phase 2)
EU Budget:	➔ Lot 1 AIGFs: €100M ➔ Lot 2 AIGFs: €200M	Estimated/Foreseen: ➔ Lot 1: + €400M ➔ Lot 2: + €800M
EU Financial Programme:	Current MFF, **secured**	Activated upon availability of funds in next MFF (2028-2035)
MS Contrib.:	Matching the EU's budget contribution	In line with Regulation and availability of EU funds

➔ **Funds are allocated per AIGF project**

➔ **MS budget will match the EU's one**

For more information: Visit our website and follow us on social media

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EuroHPC
Joint Undertaking

LUMI AI Factory

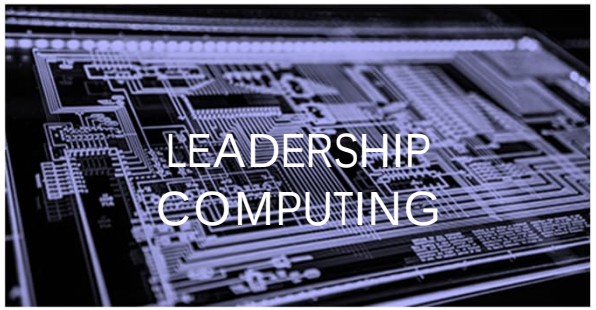
Empowering the European AI ecosystem

Aleksi Kallio, Director of LUMI AI Factory Services

Webinar: Unlocking European AI potential - AI Factories for innovation & competitiveness, October 21, 2026

lumi-ai-factory.eu

LUMI AI Factory in a nutshell



Largest AI supercomputers in Europe

- Different sized packages on supercomputing environment & Kubernetes. Quantum computing capacity also integrated.
- Scalable AI training up to foundation model range
- Agentic AI interfaces & platform



Access to high value data (Dataset-as-a-Service)

- Integration of data streams
- Confidential and secure data environment
- Data consultation
- LUMI hosting is ISO 27001 certified



AI expertise from a consortium of 200+ specialists

- Consultation for all phases of AI development
- Special skills in large scale AI and code optimization
- Tailored training in AI and high-performance computing

Explore our services at https://lumi-ai-factory.eu/service-catalogue/

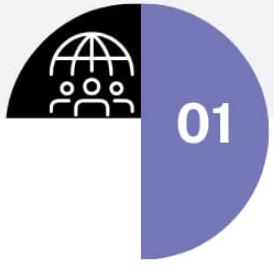
Images: Adi Goldstein, Jaffer Nizami, and John all on Unsplash

Four easy steps to our services

LUMI AI Factory

Time

2-5 days



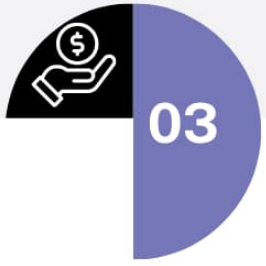
CONTACT US

- Explore our reference cases and the services available to you.
- Fill in the contact form, and a customer manager will schedule a meeting with you.



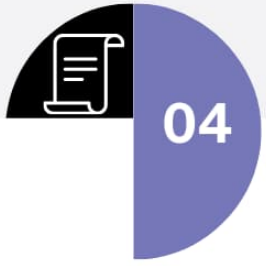
IDENTIFY YOUR NEEDS

- We help you identify the services needed (Map your AI journey)
- LUMI AIF country partners provide guidance on national service options.
- Once services are defined, you can apply for access from EuroHPC JU or your country's LUMI AIF access programs.



APPLY FOR ACCESS

- Services are mostly free for startups and SMEs; competitively priced for large enterprise
- If you are outside LUMI AIF countries, you can apply for LUMI resources through EuroHPC JU Innovation for AI Calls



GET TO WORK

- You get access to LUMI, its documentation, and full support throughout your project.
- Our experts provide on-boarding and off-boarding support, as does our agentic AI environment.

Advancing digital healthcare decision-making with LUMI



Image: Adobe Stock

JST Healthcare Solutions uses the LUMI AI Factory and the LUMI supercomputer to develop AI-assisted symptom assessment tools for healthcare professionals and patients. By leveraging LUMI's computing power, the company is advancing the development of its own Finnish-language AI models to better recognize medical terminology, symptom descriptions, and regional language variations. This supports more accurate digital care needs assessment and strengthens the development of Finnish health technology solutions.

IMPACT:

- Through LUMI AI Factory, JST Healthcare Solutions was enabled to develop and test its own AI and RAG-based language models using extensive Finnish symptom vocabulary data.
- The company improved its ability to recognise Finnish symptom descriptions, including different expressions and dialects used by patients.
- LUMI AI Factory resources help accelerate innovation in regulated healthcare environments while supporting the development of trusted AI solutions.

Read JST Healthcare Solutions' whole story behind the QR code or this link

> Johannes Kallio
> Chief Medical Officer and Founder,
> JST Healthcare Solutions
>
> *It's great that AI models can be trained in Finland efficiently and to a high standard to meet healthcare needs-*

JST Healthcare Solutions is a Finnish health technology company whose Smart Symptom Check software supports care needs assessment, patient guidance, and clinical decision-making across digital and telephone healthcare services.

Advancing 4G and 5G telecom with LUMI AI Factory



Image: Poutanet

Poutanet uses LUMI AI Factory Services and the LUMI supercomputer to develop AI-powered tools that simplify 4G and 5G network operations, troubleshooting, and technical support. By fine-tuning domain-specific language models with proprietary data, the company is working towards more user-friendly, reliable, and data-sovereign network management solutions.

IMPACT:
- LUMI enabled faster experimentation and more fine-tuning iterations without hardware limitations.
- AI-powered tools can simplify network troubleshooting and reduce operational complexity.
- The case demonstrates how European AI infrastructure can support telecom innovation while strengthening data sovereignty and resilience.

Read Poutanet's whole story behind the QR code or this link

> Martti Ylikoski, Managing Director at Poutanet
>
> *With using LUMI supercomputer, we are no longer hardware limited but can run many more fine-tuning iterations compared to using our own servers. In other words, we wanted to put the constraint on our side in our ability to generate and gather enough training data, Ylikoski continues.*

Poutanet, a Finnish provider of private mobile networks, develops portable 4G and 5G solutions that can be deployed rapidly wherever connectivity is needed.

LUMI AI Factory



Aleksi Kallio

Director of LUMI AI Factory Services
CSC - IT Center for Science

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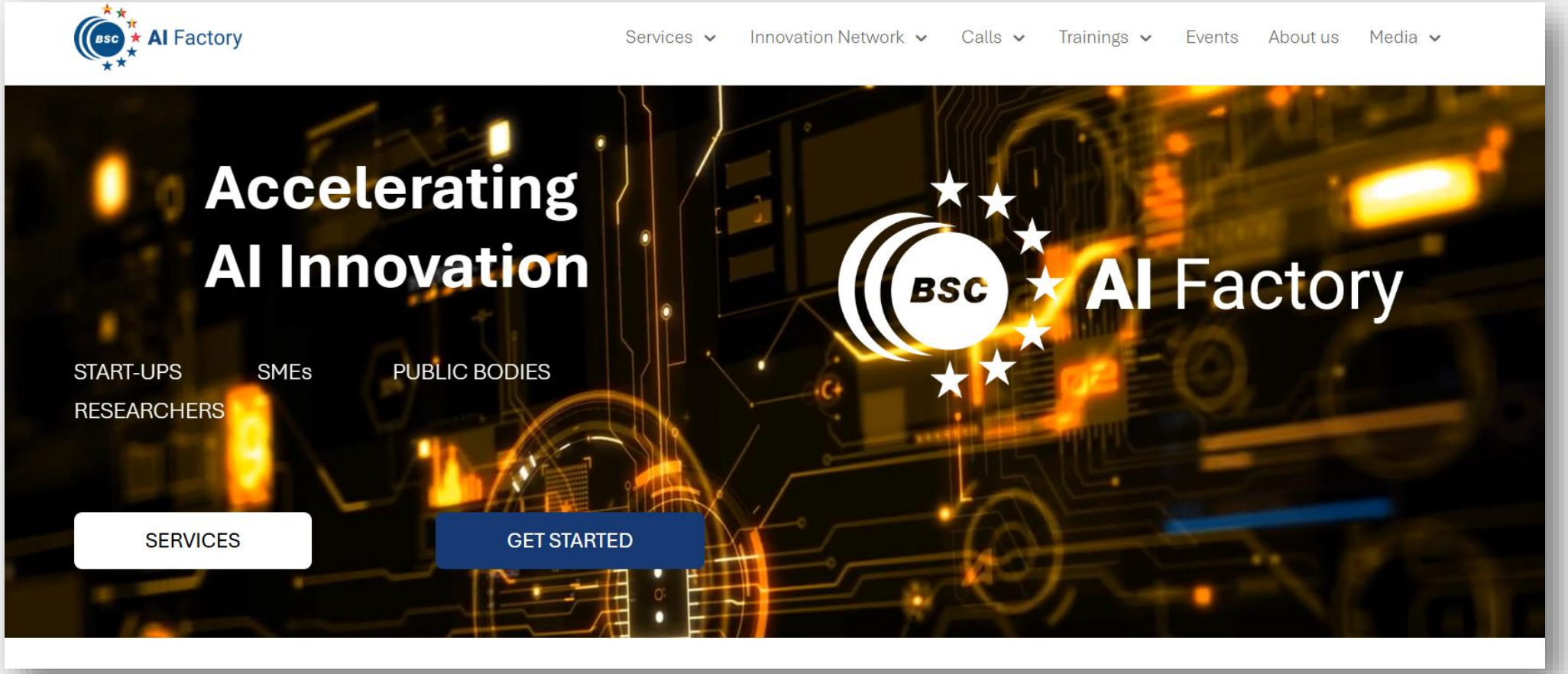
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http://www.lumi-ai-factory.eu/

The LUMI AI Factory Service Center is funded jointly by the EuroHPC Joint Undertaking and the Participating States FI, CZ, DK, EE, NO, PL.

https://bsc-aifactory.eu/



BSC AI Factory

BSC AI Factory: Consortium & Investment

A European initiative developed in collaboration with reference centres

Project start: 01/04/2025

Partners

Spain

Barcelona Supercomputing Center (BSC-CNS)

Portugal

Fundação para a Ciência e a Tecnologia (FCT)

Türkiye

The Scientific and Technological Research Council of Türkiye (TÜBITAK)

Romania

National Institute for Research & Development in Informatics (ICI Bucharest)

Affiliated Entities

UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH

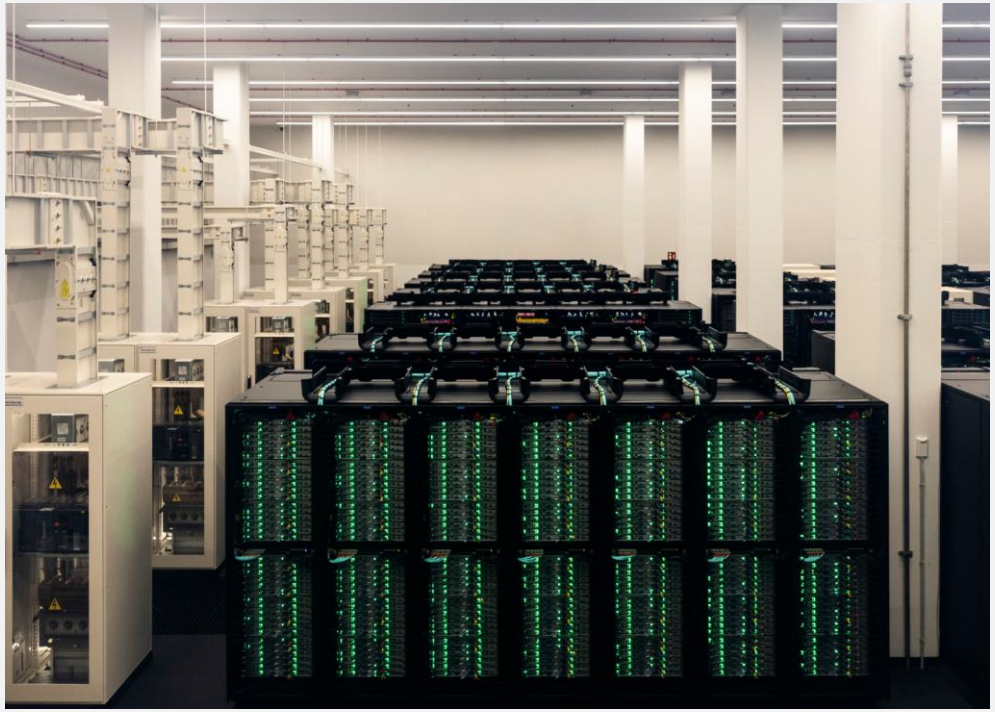
Centro Nacional de Computação Avançada

Investment: €197.28 M

- €42 M: AI services
- €154 M: MareNostrum 5 AI upgrade
- €1.28 M: Advanced Experimental Platform

AI Factory

BSC AI Factory: Accelerating AI innovation



A complete ecosystem for building and scaling AI solutions

Scientific and technical expertise

From the BSC research teams

AI specialized support

Up to 30 hours of expert consulting

24+ services

Designed to ttransfer knowledge and accelerate AI adoption

HPC Resources

Up to 50,000 hours of supercomputing

Access to AI services and HPC to create real impact

BSC AI Factory

One-stop-shop: the path towards resources



Foundations & AI Expertise

Infrastructure & Computational Resources Access	AI Development Data-Related Services	AI Development Advisory Services	Trustworthy AI	Ad hoc AI Services & Expert Consulting
• Infrastructure & Computational Resources Access • Onboarding Support • High-level Technical Access Support	• Data Discovery • Data Stewardship • Data as a Service • Model & Dataset Publication	• Advisory on Model Fine-tuning • Advisory on Model Benchmarking • Advisory on Prompt Engineering • Advisory on RAG Systems	• Consultancy on Ethical & Legal AI Self-Assessment • AI Trustworthiness Consultancy	• Ad hoc AI Services • Healthcare & Clinical Environments • Climate & Earth System Analysis • LangTech Expert Briefings

Adoption, Skills & Ecosystem

Training & Skills Development	AI Ecosystem & Engagement	Enablement & Introductory Services
• Courses Catalogue • Learning Platform / Online Modules	• Events & Co-Marketing • Incubation Spaces	• Briefing about BSC AI Factory and initial customer assessment • Sectoral AI Maturity Assessment - Questionnaire • Issuance of BSC AIF Certificates

BSC AI Factory

https://bsc-aifactory.eu/service-catalogue/

BSC AIF - Service Catalogue – Onorato customer story



BSC AI Factory

https://www.youtube.com/watch?v=gyCMVsz8DrA

BSC AIF SUCCES STORY

mafer
AI for specialty chemicals.

MAFER:
Industrial Knowledge Assistant

THE CHALLENGE

Operational teams rely on dispersed technical documentation, procedures, and expert knowledge that can be difficult to access during maintenance and production activities.

THE AI SOLUTION

- **Industrial Assistant**: AI-powered access to procedures, manuals, and operational know-how.
- **Immediate Value:** Reduce time spent searching documentation and faster issue resolution.
- **Knowledge Retention:** Capture expert knowledge and make it accessible across the organization.

Data Discovery | Data Stewardship | Data As a Service | Advisory on RAG | Incubation spaces

BSC AI Factory



BSC AI Factory provided advisory support on Retrieval-Augmented Generation (RAG) approaches to enable secure access to technical documentation, operational procedures, and internal knowledge repositories.

The engagement helped identify suitable architectures, information retrieval strategies, and governance considerations for an AI-powered knowledge assistant.

Contact us

https://bsc-aifactory.eu

https://www.linkedin.com/company/bsc-ai-factory

https://www.youtube.com/@BSCAIFactory

SCAN ME

https://form.typeform.com/to/Pog9iEFH

BSC AI Factory

BSC AI Factory

BSC AI Factory

AI Factories

mariona.sanz@bsc.es

Co-funded by the European Union

EuroHPC Joint Undertaking

Gobierno de España · Ministerio para la Transformación Digital y de la Función Pública

Generalitat de Catalunya

Plan de Recuperación, Transformación y Resiliencia

This project has received funding from the European High-Performance Computing Joint Undertaking (JU) under grant agreement No 101234399 and Spain, Portugal, Romania and Türkiye. The JU receives support from the European Union's Horizon Europe Programme.

BSC AI Factory Partners

20 BSC YEARS

fct Fundação para a Ciência e a Tecnologia

TÜBİTAK

ICI

Affiliated entities

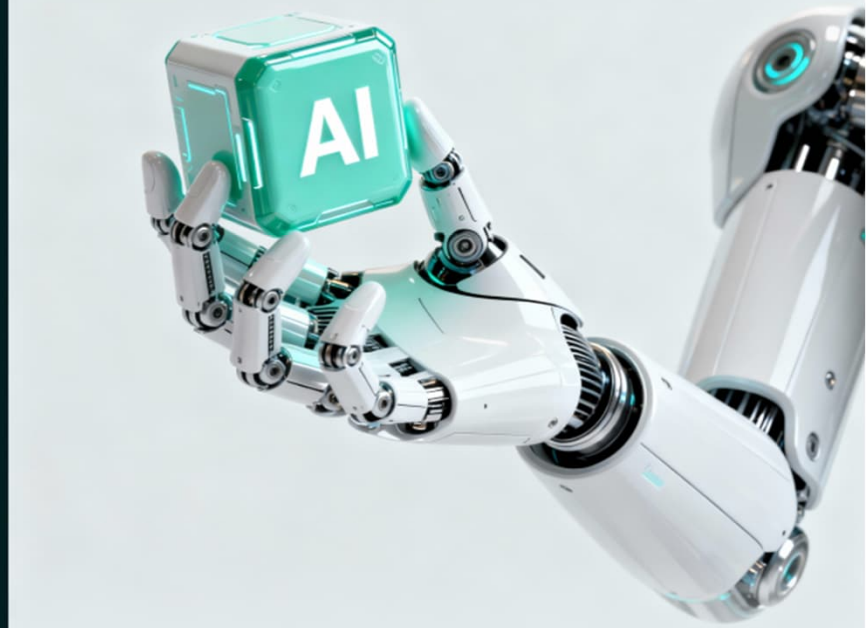
UPC Universitat Politècnica de Catalunya BarcelonaTech

CNCA Centro Nacional de Computação Avançada

Gaia
AI Factory

Gaia AI Factory

Mariusz Sterzel
ACC Cyfronet AGH
mariusz.sterzel@cyfronet.pl



EuroHPC Joint Undertaking
Republic of Poland
Co-funded by the European Union
Ministry of Science and Higher Education
Republic of Poland

Gaia
AI Factory

Gaia AIF in numbers

70
million euros total budget

12
partners

2028
planned launch of the system

6
months - launched may 2026

CYFRONET · AGH Faculty of Space Technologies · icm · National Centre for Nuclear Research Świerk · WCSS · citask · NASK · OPIPIB · Kraków Technology Park · sano · Małopolska Centre of Biotechnology · Institute of Mother and Child

Gaia Domains

Gaia AI Factory

Health

- Medical Sandbox
- AI Model Registry
- Data Access
- Integration with EHDS

LLMs

- Polish language models
- LLM for public administration
- Specialised translations
- Medical text analysis

Space technologies

- Satellite data analysis
- Predictive model
- Collaboration with European Space Agency

Gaia AI offer

We aim to provide solutions not just cycles...

- **Computing Power** – GPUs on a scale never before seen in Poland
- **Data** – Curated datasets and a GDPR-compliant environment for sensitive data
- **Services** – Ready-to-use base models, MLOps, model registry, and implementation support
- **Expertise** – Training, consulting, and expert support at every stage



Polish ModernBERT

Family of language models

- Representation model for Polish text: document analysis, classification, information retrieval
- Runs on CPU, no GPU required
- Future development: other European languages
- huggingface.co/collections/OPI-PIB/pl-modernbert



Campus AI

AI education platform and community of experts, with courses, webinars, hands-on training and a 3D virtual campus

- Close collaboration on shared open webinars and technical workshops
- Expert office consultations for Campus AI coworking
- Shared open hackathons and challenges



Fostering Collaboration & Innovation



LUXEMBOURG AI FACTORY

aifactory.lu

Our Mission

FOSTERING AI ADOPTION

Accelerate AI adoption

Supporting companies of all sizes throughout their AI adoption journey

Tailored support

- Start-ups and SMEs interested in AI
- Companies deploying advanced solutions
- Infrastructure, expertise and compliance adapted to maturity level

Single entry point

- Sovereign infrastructure: the MeluXina supercomputer
- End-to-end support: assessment → deployment
- Technical sandboxes
- Skills development through a training catalogue
- Human and financial resources at every stage

Who we are

FOSTERING AI ADOPTION

200+ companies engaged in 2026

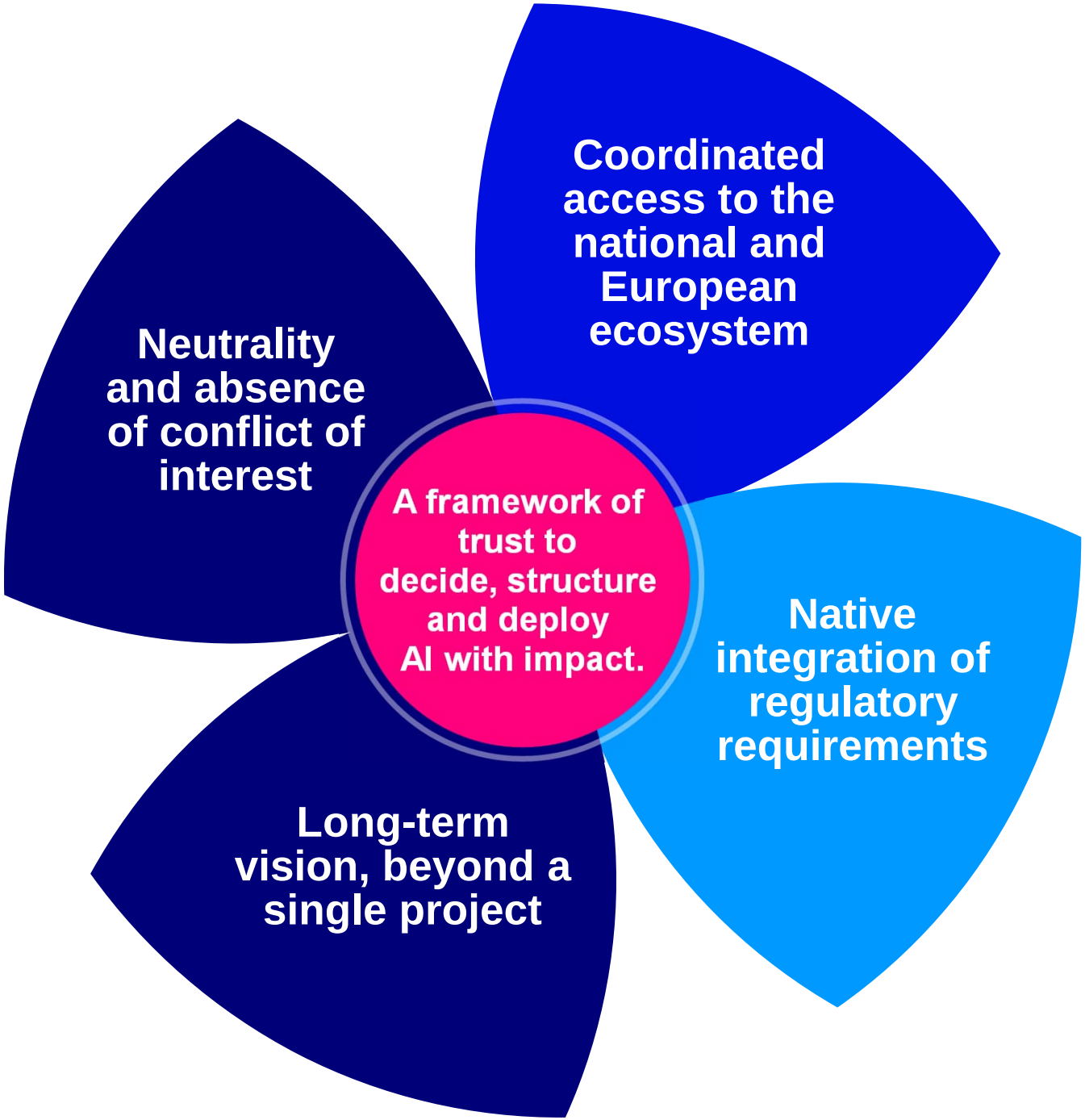
Five Partners

LUX PROVIDE
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LNDS
LIST

Seven Associated Partners

technoport® technology business incubator
clarence
Digital Learning Hub_
LSA LUXEMBOURG SPACE AGENCY
LHC Luxembourg House of Cybersecurity
dep by POST Group
the LHoFT

Why go through the Luxembourg AI Factory



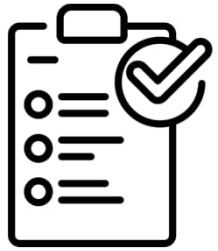
Concrete Examples

OUR SERVICES: RDI SUPPORT



SME

Manufactures and sells products for construction professionals



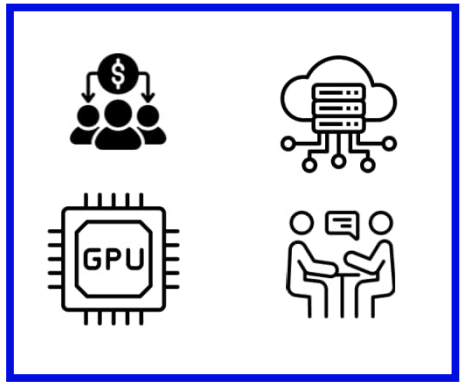
R&D project developed in-house

20 years of development data compiled in multiple silos, in different formats

Development of a chatbot to support R&D by leveraging 20 years of experience

LUXINNOVATION
#MakingInnovationHappen

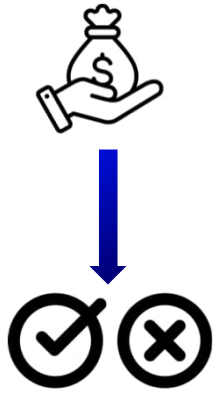
Support with filing the application



GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère de l'Économie

Application reviewer

Approval based on the degree of innovation and the various conditions for accessing funding



Concrete Examples

ACCESS TO THE SANDBOX



SME

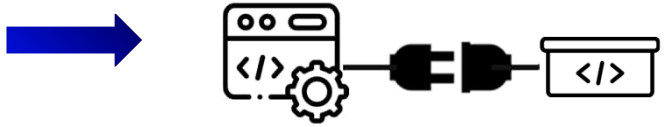
You develop your own AI solutions



You would like to know the performance and compliance of your model

LIST

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Technical report on the trustworthiness of your system, including:

- Robustness
- Technical security
- Bias detection
- Transparency

Concrete Examples

ACCESS TO SOVEREIGN COMPUTING POWER

MeluXina



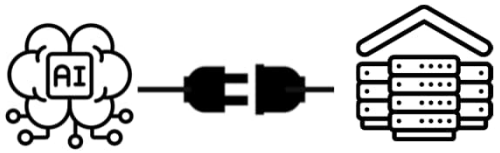
SME

You develop your own AI solutions



You need computing power to train your model

LUX PROVIDE



Model ready for production use

The Next Step

1. Evaluate your AI maturity
2. Discuss a specific business challenge
3. Identify an initial framework for action

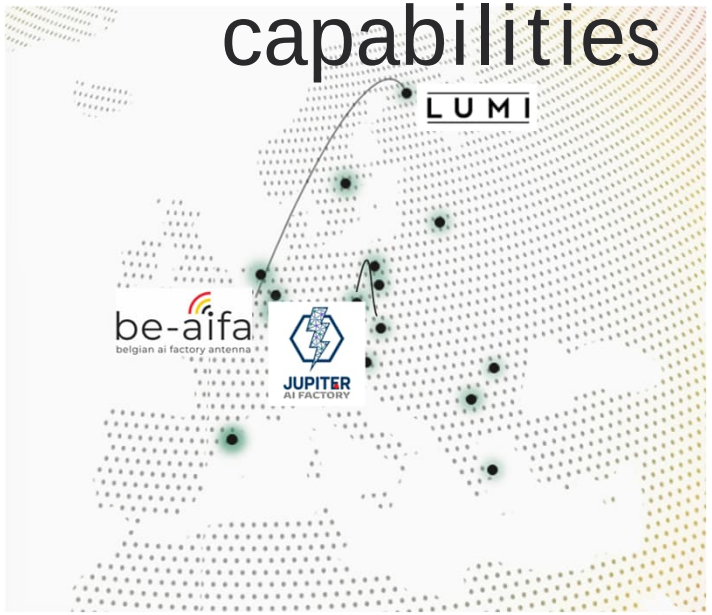
LUXEMBOURG
AI
FACTORY

EuroHPC Joint Undertaking
Co-funded by the European Union
This project has received funding from the European High Performance Computing Joint Undertaking (JU) under Grant Agreement No. 101234366. The JU receives support from the European Union's Horizon Europe research and innovation programme and from Luxembourg, Belgium, Croatia, Greece, Hungary, Ireland, Italy, the Netherlands, Poland, Portugal, Slovenia and Spain.

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Organisations in Belgium → be-aifa belgian ai factory antenna → European AI Factory capabilities



BE-AIFA is
the expert gateway

Co-funded by Belgian authorities:

Flanders State of the Art · Wallonie · be be.brussels · .be · Co-funded by the European Union · EuroHPC Joint Undertaking

A nationwide consortium brings Belgian expertise together in one gateway

Research Centres

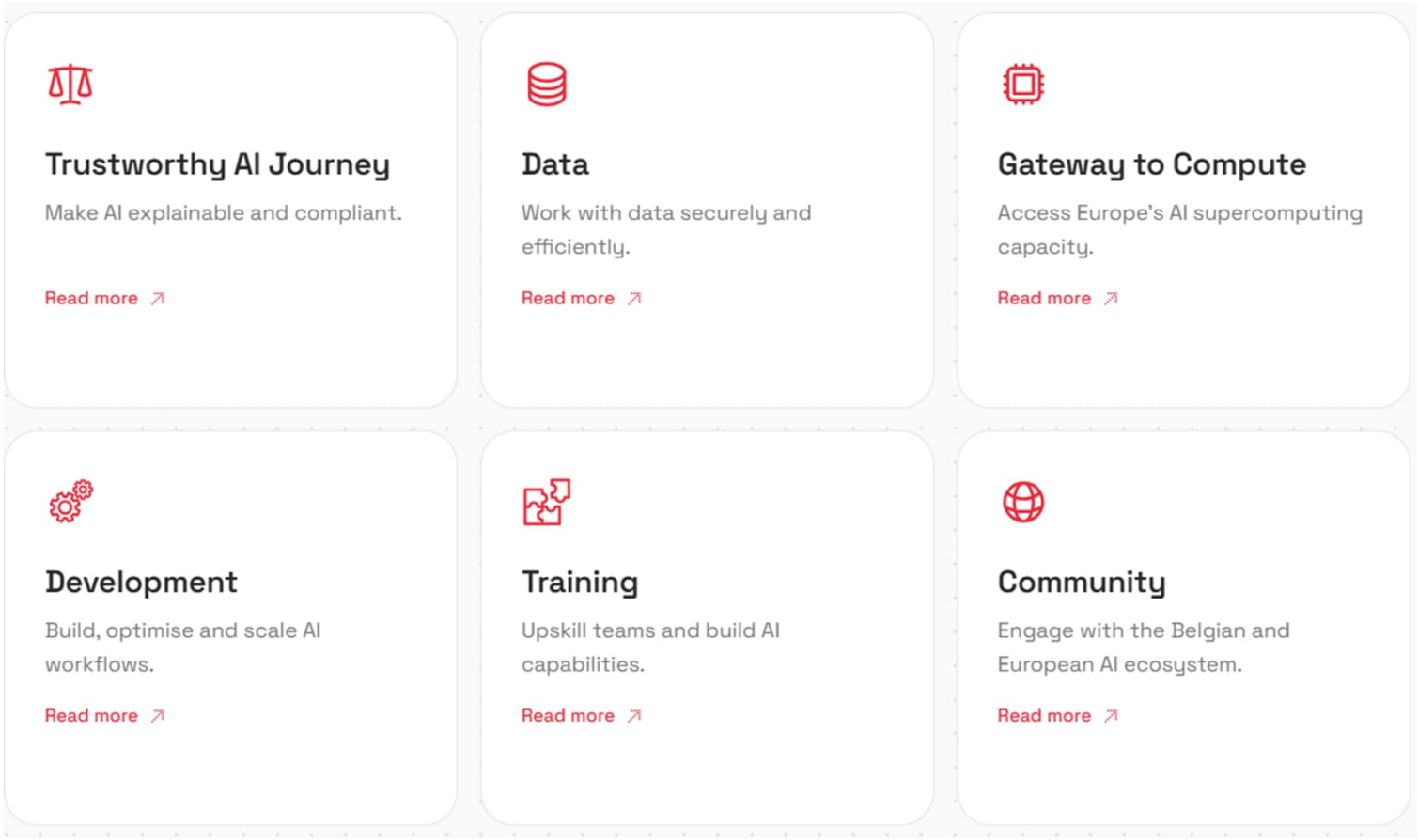
Imec, Cenaero,
Cetic, Multitel, Sciensano,
SCK CEN, Sirris, VIB

Universities

KU Leuven, UAntwerpen, UCLouvain,
UGent, UHasselt, ULB, ULiège, UMons,
UNamur, VUB

Public Organisations

Belspo, Belnet, FPS BOSA, FPS Economy,
Agence du Numérique



be-aifa



Advanced AI infrastructure reduced a two-month task to two weeks.

Maarten Larmuseau, Co-founder & CEO Nuclivision

Training our models on GPU clusters clarified the required data and computational resources



Yannick Molle, researcher and founder Impulsia



High-performance simulations combined with AI help design better ventilation systems in people's homes

Ruben Sevenois, Simulation Engineer DUCO

be-aifa

Panel discussion

Audience questions:

Ask questions and leave comments in chat and Q&A

OR

Raise your hand. Please wait until the moderator calls you up before opening your microphone

- Some of the audience questions and comments will be addressed during the panel discussion

LUMI AI Factory

Moderator



Sara Garavelli,
CSC - IT Center for Science / LUMI AI Factory

Panelists



Lilit Axner,
EuroHPC JU



Aleksi Kallio,
LUMI AI Factory



Mariona Sanz Ausàs,
BSC AI Factory



Sabine Demey,
Belgian AI Factory Antenna



Mariusz Sterzel,
Gaia *AI Factory*



Anny Bhan,
Luxembourg AI Factory

LUMI AI Factory

Thank you!



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Thank you!

The webinar recordings and slides will be made available in the event webpage.

Stay tuned!

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http://www.lumi-ai-factory.eu/

EuroHPC Joint Undertaking

Co-funded by the European Union

The LUMI AI Factory Service Center is funded jointly by the EuroHPC Joint Undertaking and the Participating States FI, CZ, DK, EE, NO, PL.