







Thor Wikfeldt ENCCS Director RISE Research Institutes of Sweden The Swedish EuroCC Hub for High-Performance Computing

We help you access and use CPUs/GPUs on European Supercomputers for Free

WHO WE ARE



EuroHPC ecosystem



"Develop, deploy, extend and maintain in the EU a worldleading federated, secure and hyper-connected supercomputing, quantum computing, service and data infrastructure ecosystem."

- **Infrastructure**: Secure, hyper-connected network of supercomputers, quantum computers, and data infrastructures.
- **Federation**: Integrating EuroHPC resources across the EU to provide seamless access
- **Technology**: Creating cutting-edge European hardware components and software stacks
- **Applications:** Supporting the development and optimisation of software applications
- Usage and Skills: Investing in education, training, and national competence centres
- **International Cooperation**: Collaborating with global partners
- Al Factories: Environments tailored for Al innovation.















EuroHPC systems

















- Develop and operate a world-class HPC infrastructure in Europe
- Ensure European technological sovereignty by fostering innovation in supercomputing technologies
- Support scientific research & industrial innovation by providing cutting-edge computing resources
- Enhance European competitiveness in AI, big data, and advanced simulations
- Expand access to HPC for public and private users across Europe.











EuroHPC quantum computers



- Diverse quantum technologies and architectures
- Collaboration across 17 European countries to drive innovation and synergies
- Standardisation efforts for key components such as APIs and monitoring software
- Access for researchers across academia, industry, and the public sector
- Quantum-HPC integration
- Enabling scientific breakthroughs and industrial innovation.









EuroHPC AI Factories



Expanding EuroHPC AI Factories Ecosystem AI2F **BRAIN++ PIAST** March 2025

- **Fostering Innovation and Collaboration**
- Support Startups and SMEs in using Al
- Cater to Public sector and Academia

- **Enhance AI Capabilities**
- **Promote Trustworthy Al**
- **Drive Advancements in Various Sectors**





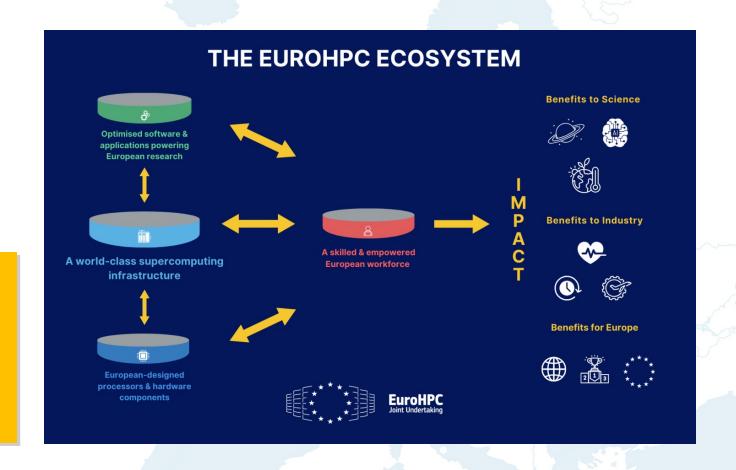




EuroCC National Competence Centres



The EuroCC activity brings together the necessary expertise to set up a network of National **Competence Centres in HPC across Europe** in 33 participating, member and associated states, and to provide a broad service portfolio tailored to the respective national needs of industry, academia and public administrations.













Training

EXPLORING BIOMOLECULAR MODELING

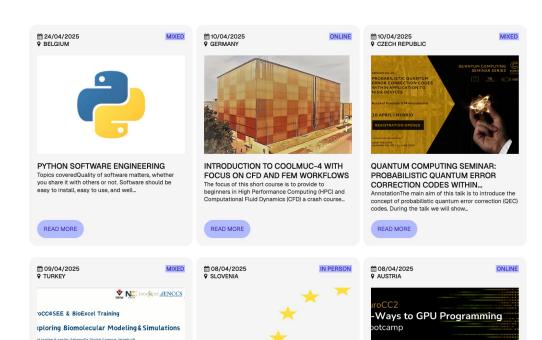
The training consists of four sessions: 1-) Integrative

modeling of biomolecular complexes with HADDOCK

AND SIMULATIONS

READ MORE

(lecture + hands-on)2-) Molecular ..



MODELING & SIMULATION OF FLUID-

STRUCTURE INTERACTIONS ACROSS

This workshop will bring together experts and

researchers to discuss recent advances in hydrodynamics modeling, multiscale coupling methods,

SCALES



- https://hpc-portal.eu/all-events-courses
- Training events on topics HPC, AI, HPDA and QC
 - Webinars, workshops, bootcamps, hackathons, ...
- Public and open source training material
- Offerings from NCCs and CoEs (later QECs & AIFs)





N-WAYS TO GPU PROGRAMMING

The N-Ways to GPU Programming Bootcamp covers

the basics of GPU programming and provides an

overview of different methods for porting scientific.

BOOTCAMP



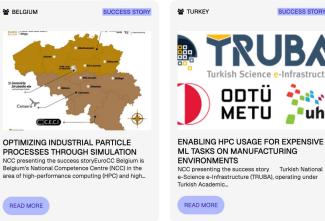


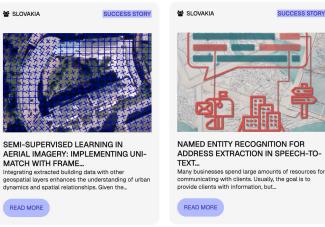


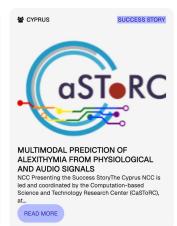


Proofs of concept













- https://hpc-portal.eu/hpc-services
- NCCs conduct pilot and PoC projects with partners from industry, academia and public sector
- Success stories focusing on business benefits resulting from the experiments













Funding and software support



"Driving SME and startup innovation by unleashing the potential of HPC and generative AI"



"Innovative algorithms for applications on European exascale supercomputers."



"High-level Specialised **Application Support Service** in High-Performance Computing"



Performance Optimisation and Productivity

A Centre of Excellence in HPC

"performance optimisation and productivity services for academic AND industrial code(s) in all domains!"











Outreach and awareness creation



NEW EPISODE EVERY 2 WEEKS









































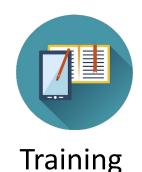






Kickstarting AI Factories







[NCC-X] empowers [country's] industry, academia and the public sector to leverage HPC, AI, HPDA and QC efficiently and effectively.

Standard Services

- **EuroHPC Access and Onboarding**
- Training Workshops, Bootcamps, Webinars, Hackathons
- **HPC Consulting and PoCs**
- Information and outreach events

Additional Services

- **HPC Maturity Assessment**
- Customised/one-on-one Training
- Funding, Matchmaking, Specialised Services
- **Compute Continuum Platform**















Call to action

- The AI Factories will significantly extend NCC services
- Whether your organisation is just starting with AI or already a power user and developer, there will be something for you
- Get in touch!
 - AI Factory Sweden MIMER: https://www.mimer-aifactory.eu/
 - Email: info@mimer-aifactory.eu
 - Social media: TBA
- We'll be hiring soon!











THANK YOU!





















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