



MIMER

The Mimer AI Innovation Factory

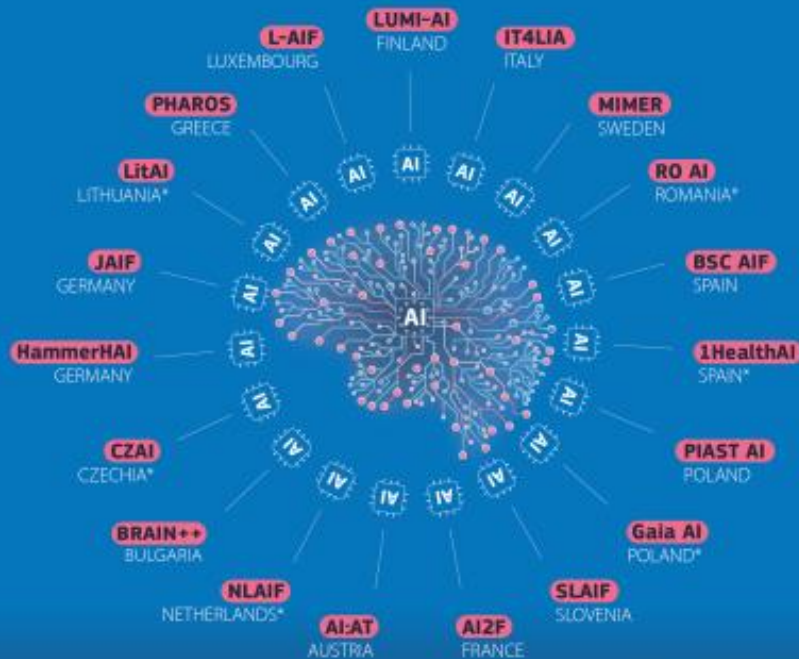
Thor Wikfeldt, Co-director @ RISE





EuroHPC AI Factories

are ecosystems formed around supercomputers that will facilitate European startups, SMEs, and researchers, to develop AI as well as boost EU competitiveness and sustainable prosperity.



*Selected in October 2025

EuroHPC JU

LEADING THE WAY IN EUROPEAN SUPERCOMPUTING

European Commission Initiative

19 AI Factories across Europe managed by EuroHPC JU

Soon also many AI Factory Antennas

Facilitating AI innovation for SMEs and the public sector



RL
SE



NAISS



Objectives

Build a Sovereign AI Infrastructure for Europe

Enable AI-Driven Scientific Discovery (AI4Science)

Empower Industry and SMEs

Strengthen Sweden's and Europe's AI Ecosystem

Build AI Competence and Capacity

Promote Responsible and Sustainable AI

Ensure Long-Term Impact and Sustainability



2025-2027+

I know where Othin's eye is hidden, Deep in the wide-famed well of Mimir;

Mead from the pledge of Othin each morn Does Mimir drink: would you know yet more?

--Snorri Sturlusson, 13 century

Focus areas

Life Sciences

Autonomous
systems

Material
Sciences

Gaming

What do I get as an SME or researcher?



Access to supercomputing
infrastructure



Test and evaluation
Compliance by design



Training/CoLabs/
Events/Workshops



Data quality, privacy, support
and access to data



Scaling and deployment
support



Access to tests in real world
testbeds in TEFs towards customers



Access to AI experts



Tools for Ethical by design

Operational characteristics

A pure AI system – Cloud environment

- Kubernetes, IaaS, SaaS, instant resources, Jupyter, web interfaces

AI on tap, for standardized workloads.

Sensitive data ready.

Free access for selected excellent projects, including SMEs under de minimis rules.

Open to further customers.





User engagement spectrum

Advanced users
Low support need

Emerging users
High Support Need



Compute Access Only

Experienced users,
self-sufficient in AI
workflows

- Access to HPC
- Minimal support - helpdesk/onboarding only

Tech Guidance & Tools

Moderately advanced users
needing help integrating
AI/HPC

- Tool selection, workflow optimisation
- Short consultations or mentoring

Collaborative PoCs

Co-development with
Mimer experts

- Implementation of models or data pipelines
- Knowledge transfer and capacity building

Full Co-Development

Low AI maturity users (often
SMEs, startups)

- Mimer experts embedded in project teams
- End-to-end support from scoping to deployment

Training & Upskilling Pathways (cross-cutting)

All users can engage in training, workshops, or “train-the-trainer” sessions

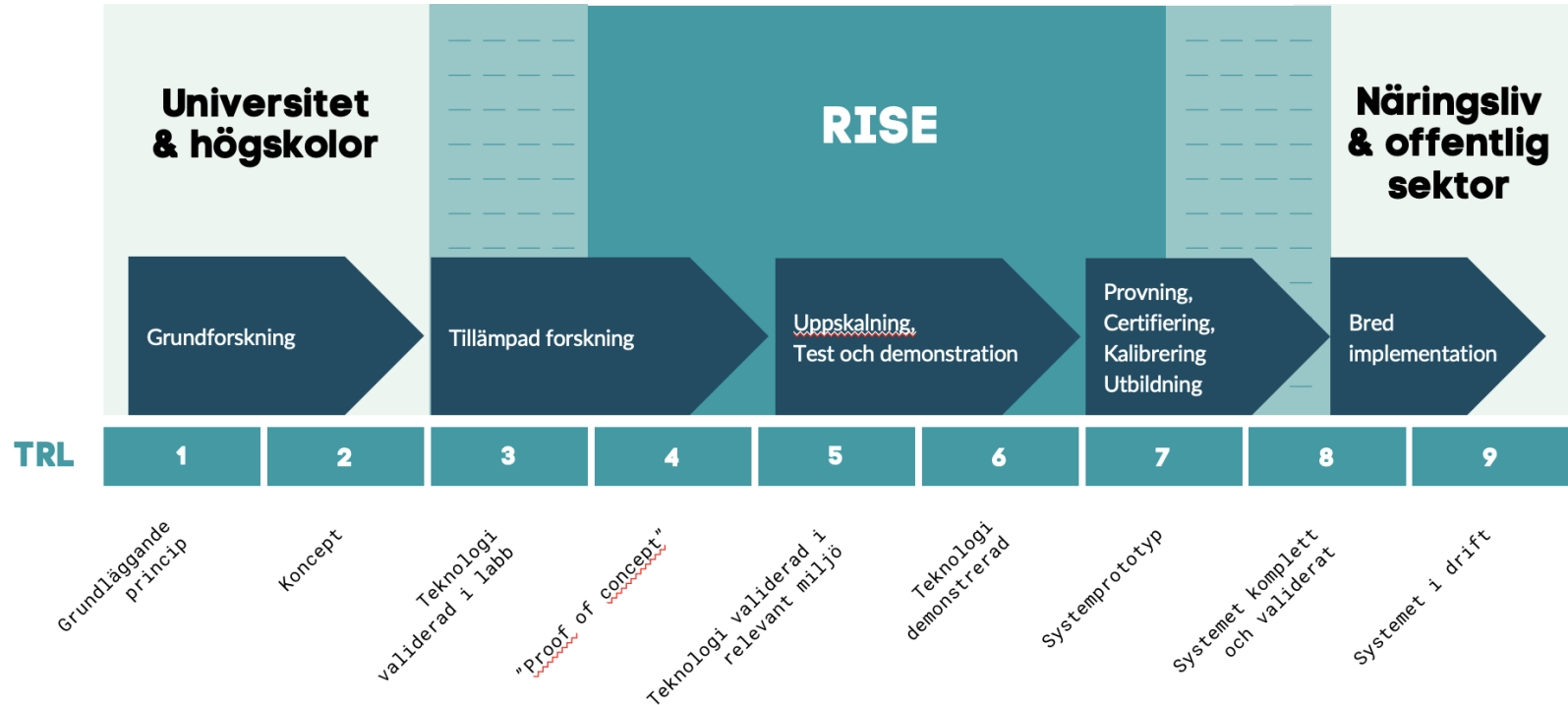
Sweden's research institute – your innovation partner

We create a bridge between academia and industry

- Test and demo infrastructure
- Joint development
- Research project (Horizon / Vinnova)
- Process services
- Lab and Office space
- Local and international ecosystem / network



RISE in the innovation value chain

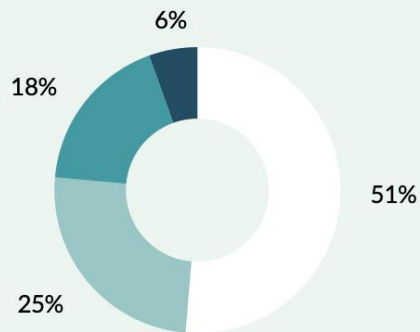


4 329

Nettoomsättning, Mkr

Justerat rörelseresultat: 145 Mkr

Justerad rörelsemarginal: 3,3 %



Fördelning av omsättningen

Näringsliv	2 222 Mkr
Offentliga finansiärer	1 087 Mkr
Statlig basfinansiering	783 Mkr
EU-medel	237 Mkr

Cirka

3 300

anställda

4:e

största institut i Europa
efter Fraunhofer, CEA och TNO

130+

Test- och demonstrationsmiljöer

Våra
anläggningar
finns runtom i
Sverige

Dessutom har vi
verksamhet i Norge
och Frankrike



77

Nöjd Kund Index

RISE Quantum

- Semiconductor materials and devices
 - Material development platform and process line for semiconductors
 - GaN and SiC based single photon sources
- Quantum communication
 - QKD (Kista link between RISE and Ericsson, within NQCIS)
 - PQC (complementary to QKD)
- Quantum computation (including QC, ML etc.)
 - e.g. 'Quantum Monte Carlo for banking' workshop contribution
- Quantum optical fiber
 - Poled fiber for quantum applications (e.g. quantum memory)
- Quantum measurement
- Regulations for quantum as an emerging technology



Offer

- Test and demo infrastructure
- Joint development
- Process services
- Lab and Office space
- Local and international ecosystem / network



MIMER

AI FACTORY

NAISS



**RI
SE**

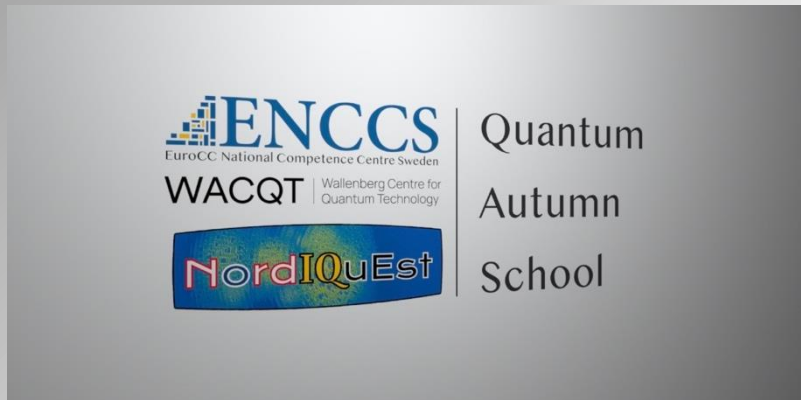
EuroHPC Ecosystem



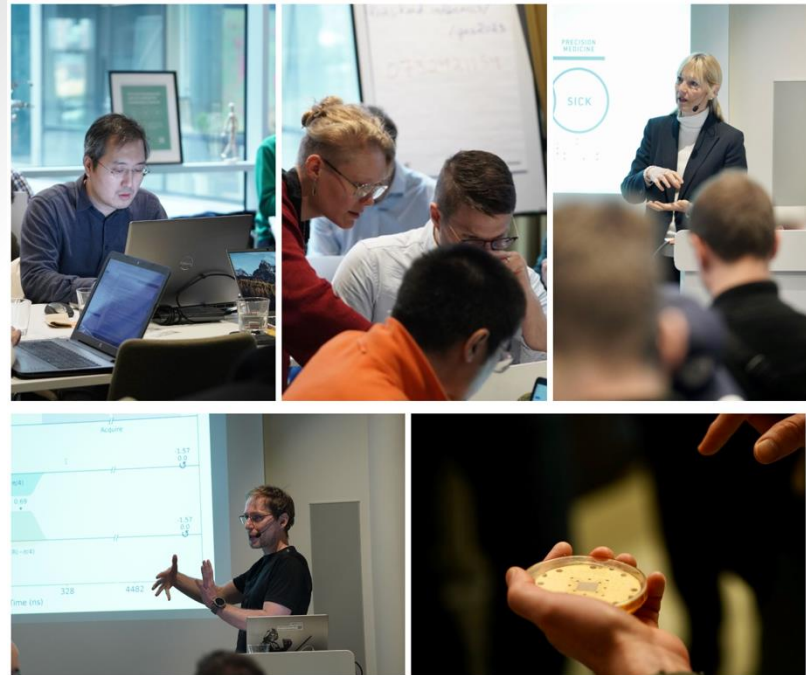
“Develop, deploy, extend and maintain in the EU a world-leading federated, secure and hyper-connected supercomputing, quantum computing, service and data infrastructure ecosystem”

- **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
- **AI Factories:** Environments tailored for AI innovation.

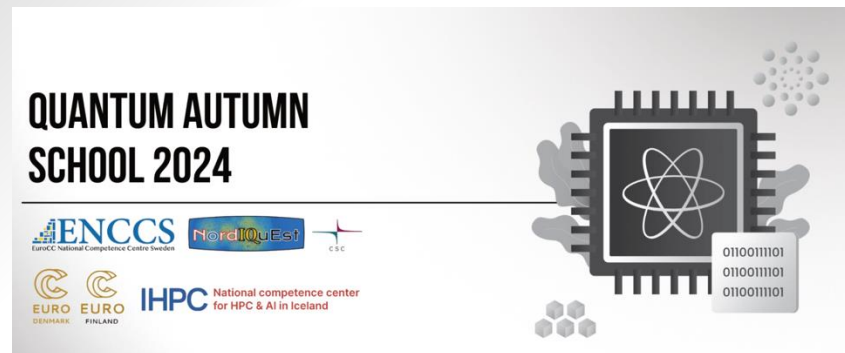
QUANTUM AUTUMN SCHOOL 2023



- In-person in Gothenburg – streamed online
- Collaboration with WACQT and NordIQuEst
- Speakers from academia and industry
- Hands-on on Helmi - 5 qubit quantum computer
- Lab visit to see the QAL9000 quantum computer



QUANTUM AUTUMN SCHOOL 2024

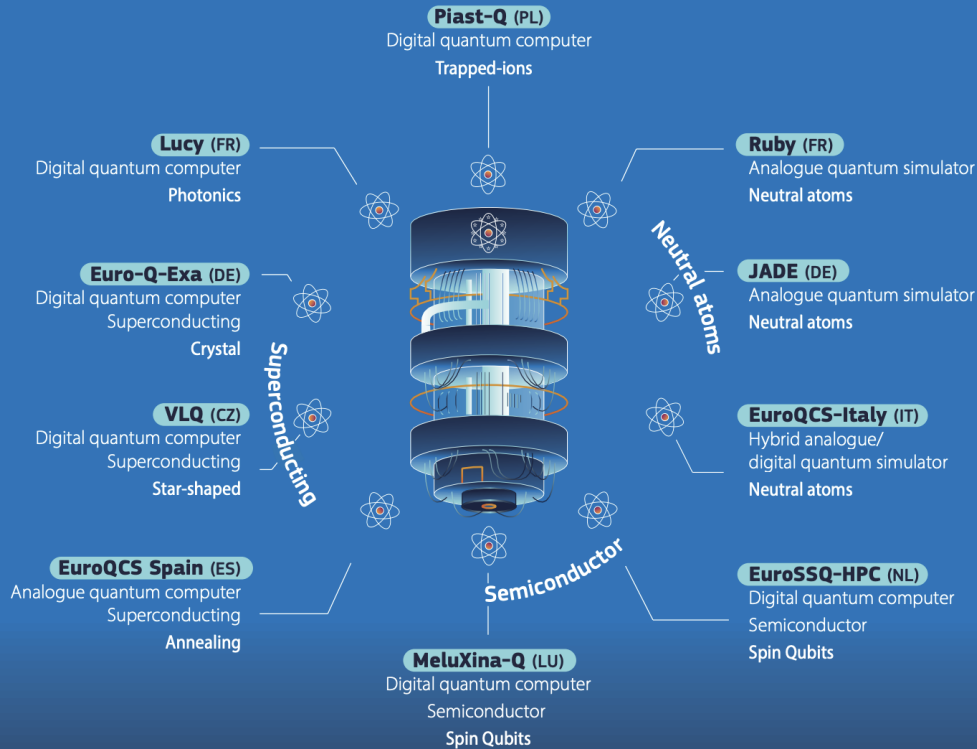


- In-person in Stockholm – streamed online
- Collaboration with NordQuEst and NCCs Denmark, Finland and Iceland
- Preceded by introductory online workshop in collaboration with IQM
- Speakers from academia and industry
- **Evolving into Nordic flagship event for quantum computing training**



EuroHPC quantum computers

are developed by European companies, and will help scientists to break unsolvable problems, boosting EU competitiveness, strategic autonomy and sustainable prosperity.

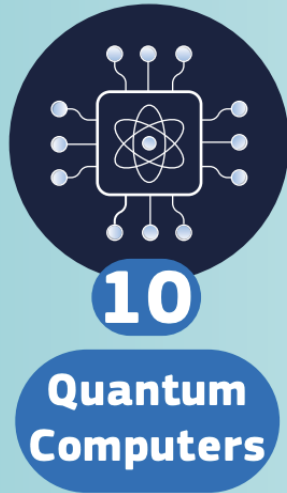


EuroHPC JU

LEADING THE WAY IN EUROPEAN SUPERCOMPUTING

- 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 Quantum Computers



EQUIPPING EUROPE FOR THE QUANTUM LEAP

The European Union is making history by building the world's first public network of cutting-edge quantum computers.



650

qubits in total
are available
starting 2025



120

**million EUR of EU
& national funds**
are invested in European
research & innovation



6

**different quantum
technologies**
are integrated in European
supercomputers



29

**partners from 17
European countries**
are involved
in the initiative