

Connecting Research and Innovation in Austria's Quantum Ecosystem

Helene Hainzer

17.7.2026

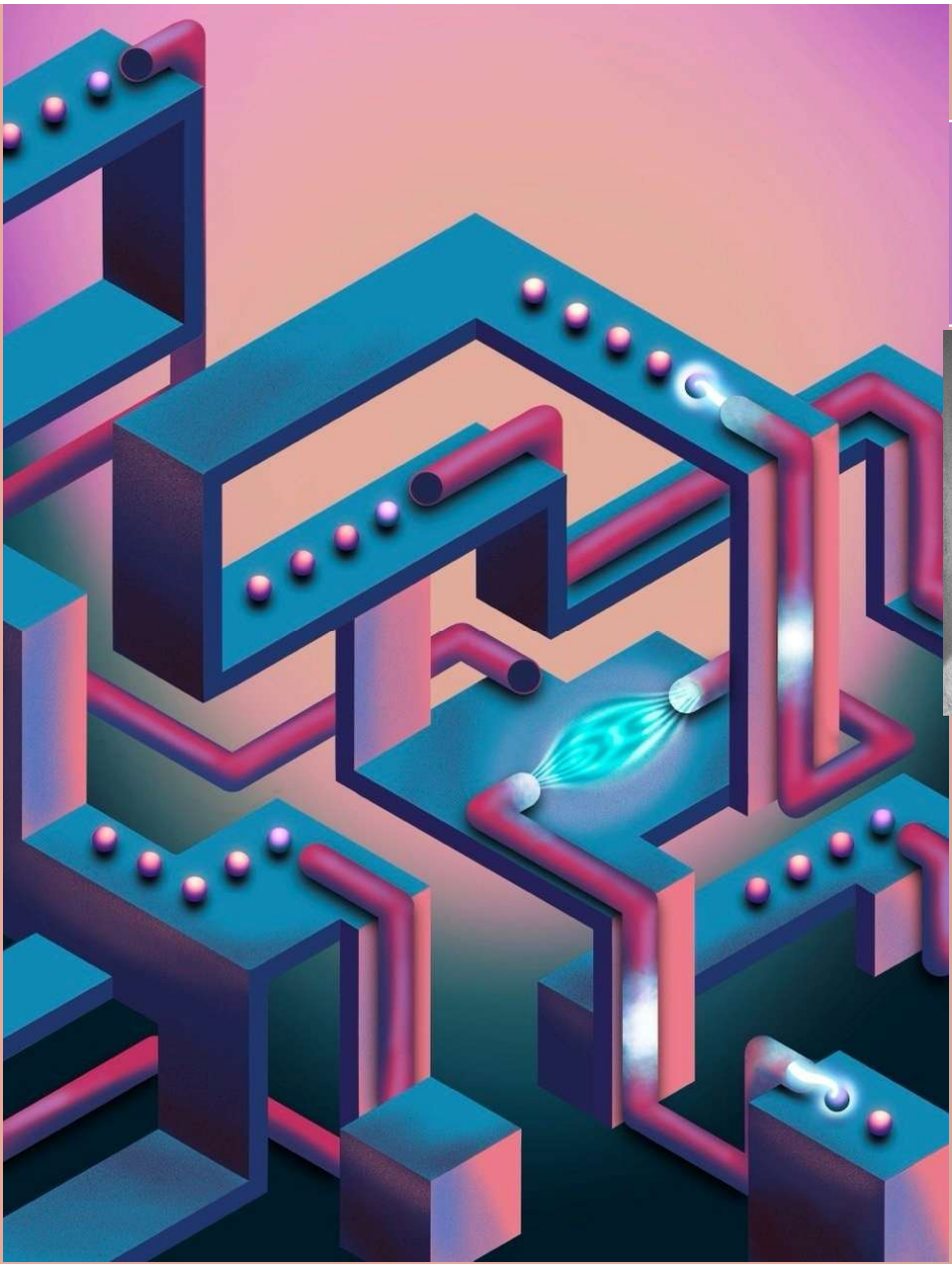


VCQ

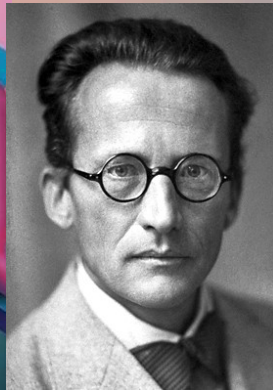
Vienna Center for Quantum
Science and Technology



universität
wien

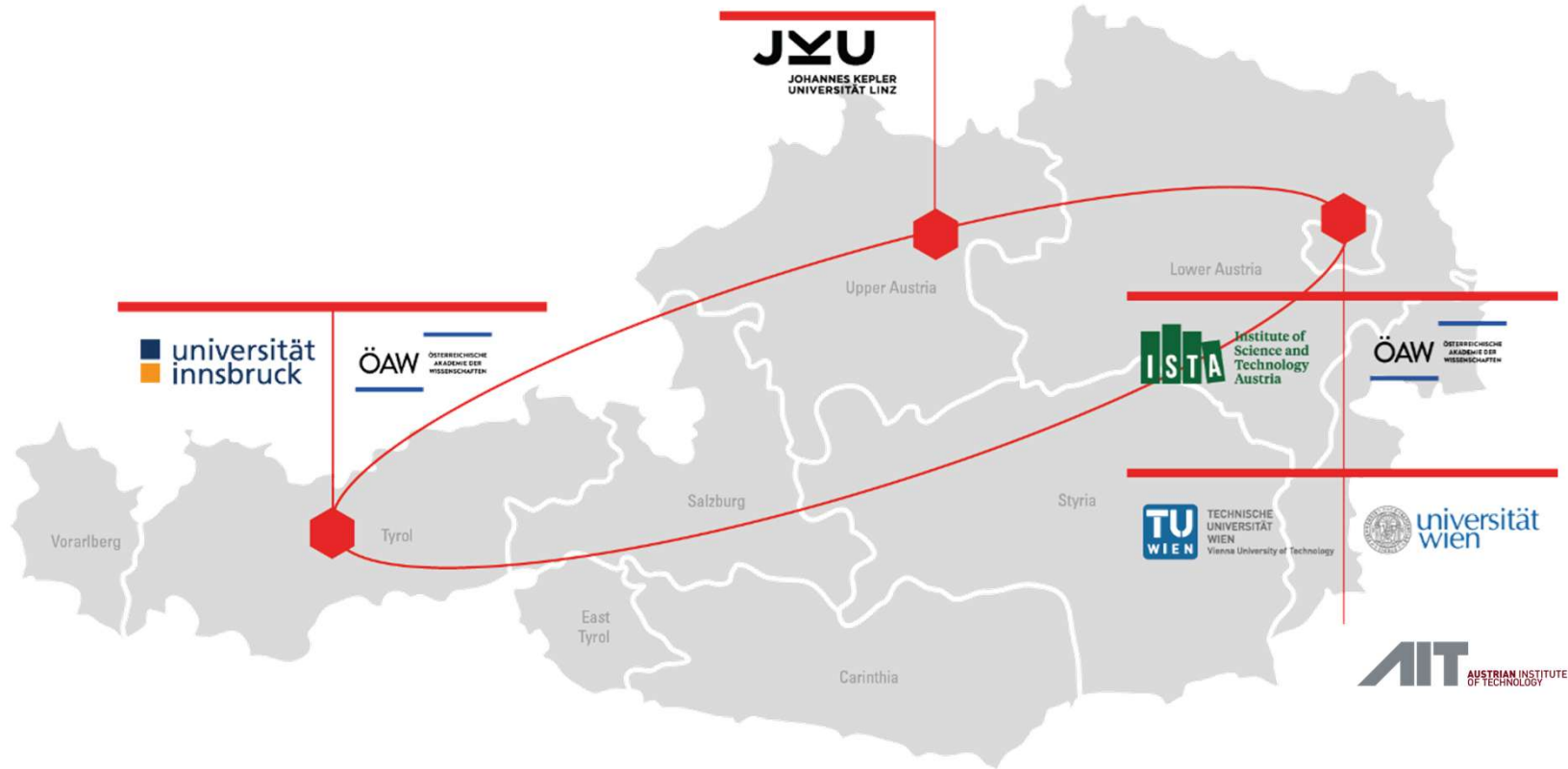


Austria has pioneered quantum science and technology since 1926

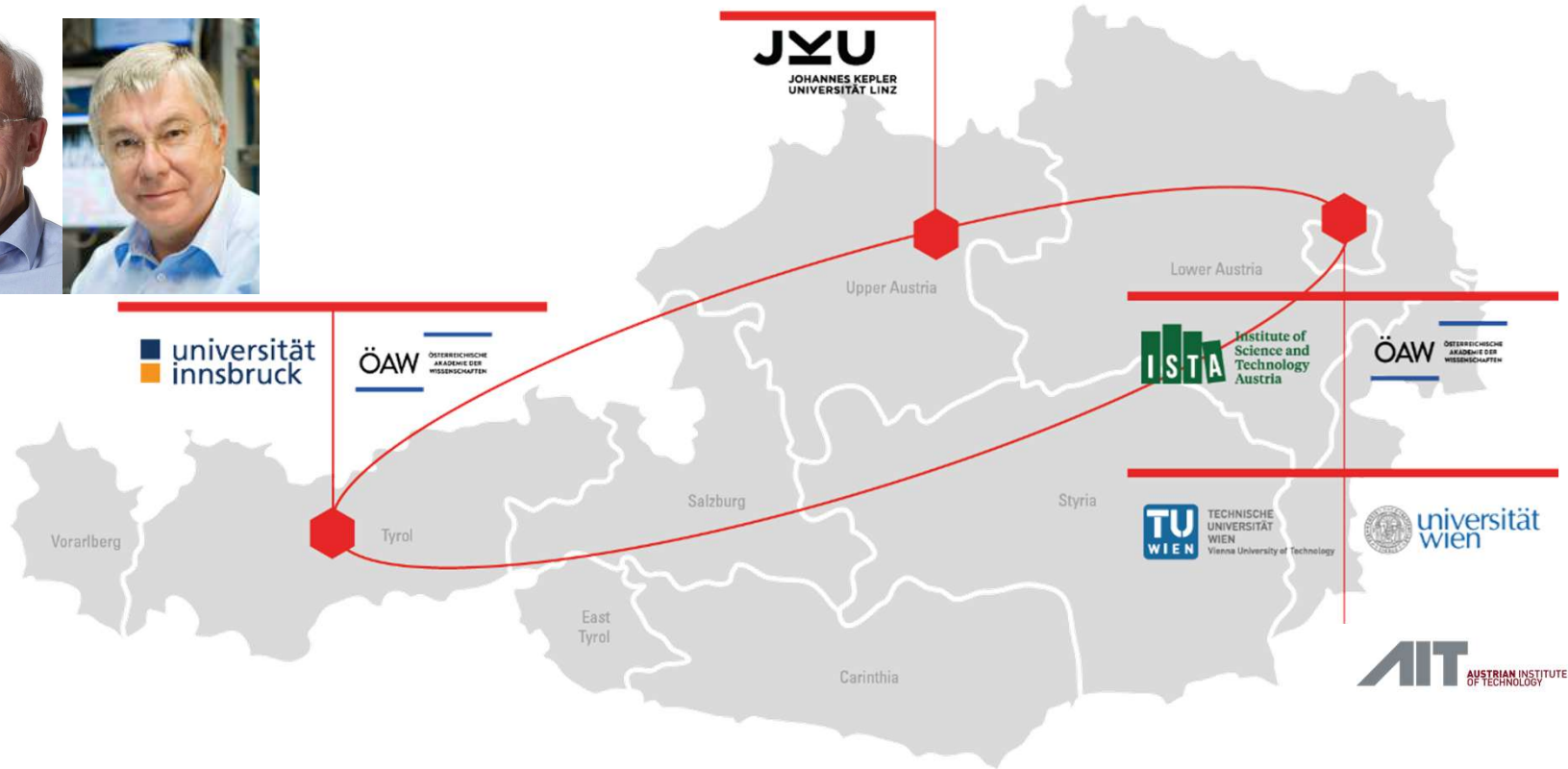


Entanglement
GHZ states
Quantum teleportation
Quantum computing with ions
Measurement-based quantum computation
Quantum repeaters
Quantum communication over long distance
BEC of molecules
Efimov states
Supersolids
Interference of macromolecules
Ground state cooling of nanoparticles
Quantum machine learning

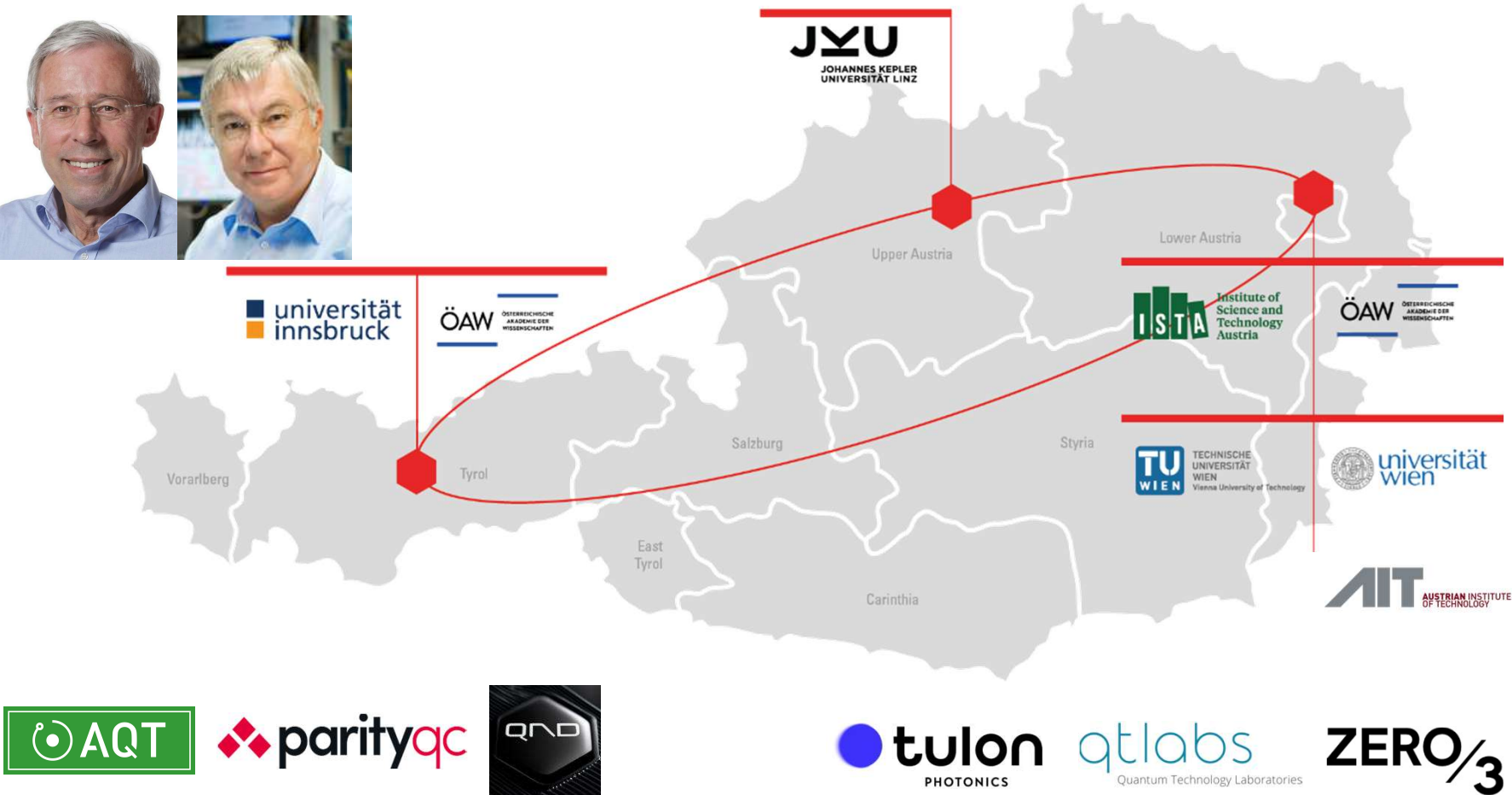
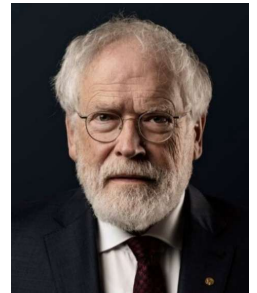
National Quantum Research and Spinoff Landscape



National Quantum Research and Spinoff Landscape



National Quantum Research and Spinoff Landscape



Uni Vienna

The Vienna Center for Quantum Science and Technology



VCQ

Vienna Center for Quantum
Science and Technology

4 Institutions



universität
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ÖAW

ÖSTERREICHISCHE
AKADEMIE DER
WISSENSCHAFTEN



TECHNISCHE
UNIVERSITÄT
WIEN



Institute of
Science and
Technology
Austria

The Vienna Center for Quantum Science and Technology



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4 Institutions



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WIEN



Institute of
Science and
Technology
Austria

- Founded in 2013
- One of the largest quantum hubs in Europe
- 4 pillars:

Research



Education



Outreach



Innovation



The Vienna Center for Quantum Science and Technology

4 Institutions



Research



35 groups
(increased by 50%
since 2020):

Quantum foundations
to technologies

- Funding of >50€M (since 2020, 11 ERC, 7 FWF START, ...)
- 400+ publications (since 2020, Nature, Science, ...)
- 2022 Nobel Prize in Physics (A. Zeilinger)

The Vienna Center for Quantum Science and Technology

4 Institutions



Research



Education



189 PhD students

ÖAW

ISTA

TU Wien

UniVie

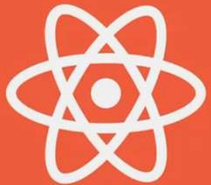
Talent pipeline in quantum and photonics

QUANTUM CAREER DAY

11.4.2025

- Alumni talks and Q&A
- Connect with companies
- CV check
- Quantum Technologies

Find your career path



PHOTONICS
AUSTRIA



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QUANTUM CAREER DAY

11. April, 14.00

Festsaal BMK

Radetzkystraße 2, 1030 Vienna

Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
Innovation and Technology

■ Alumni talks and Q&A

Learn about the diverse career paths possible in industry and academia

■ Connect with companies

Find out about career and internship opportunities

■ CV check

Get your application documents reviewed by a professional

■ Quantum Technologies

Learn about recent developments in Austria



Find your career path



PHOTONICS
AUSTRIA



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The Vienna Center for Quantum Science and Technology

4 Institutions



Research



Education



Outreach



Innovation



9 spin-offs

Platforms for exchange

- Status and potential of quantum tech
- New collaborations and partnerships
- What is needed to strengthen the ecosystem?



What is needed?



Awareness
building



Teaching and Mentoring



Support and Connections



Innovation Labs @ the University of Vienna

our programmes

Our programs are designed for various sectors and bring together diverse, interdisciplinary teams. Being part of our ilabs means joining a **vibrant community of like-minded individuals** who are passionate about having an impact on society.



digital ilab

3-month intensive programme for master students and PhD candidates.



open ilab

6-month self-paced programme for teams working on ideas with societal impact through flexible training and mentoring.



quantum ilab

2-week programme for researchers from various universities to identify the commercial potential of quantum technologies.



xbio

2-month programme for early career researchers in collaboration with other institutions.



u:seed

3-month intensive programme for advanced teams to bridge the gap between early development and market entry

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The Quantum Innovation Lab

Established in 2024

The Quantum Innovation Lab

An entrepreneurship program focused on quantum tech
Open to all from Master students to PIs - also from related fields



Qilab format

- bootcamp
- (webinars)
- demo day
- continued support by institutions



Bootcamp Modules

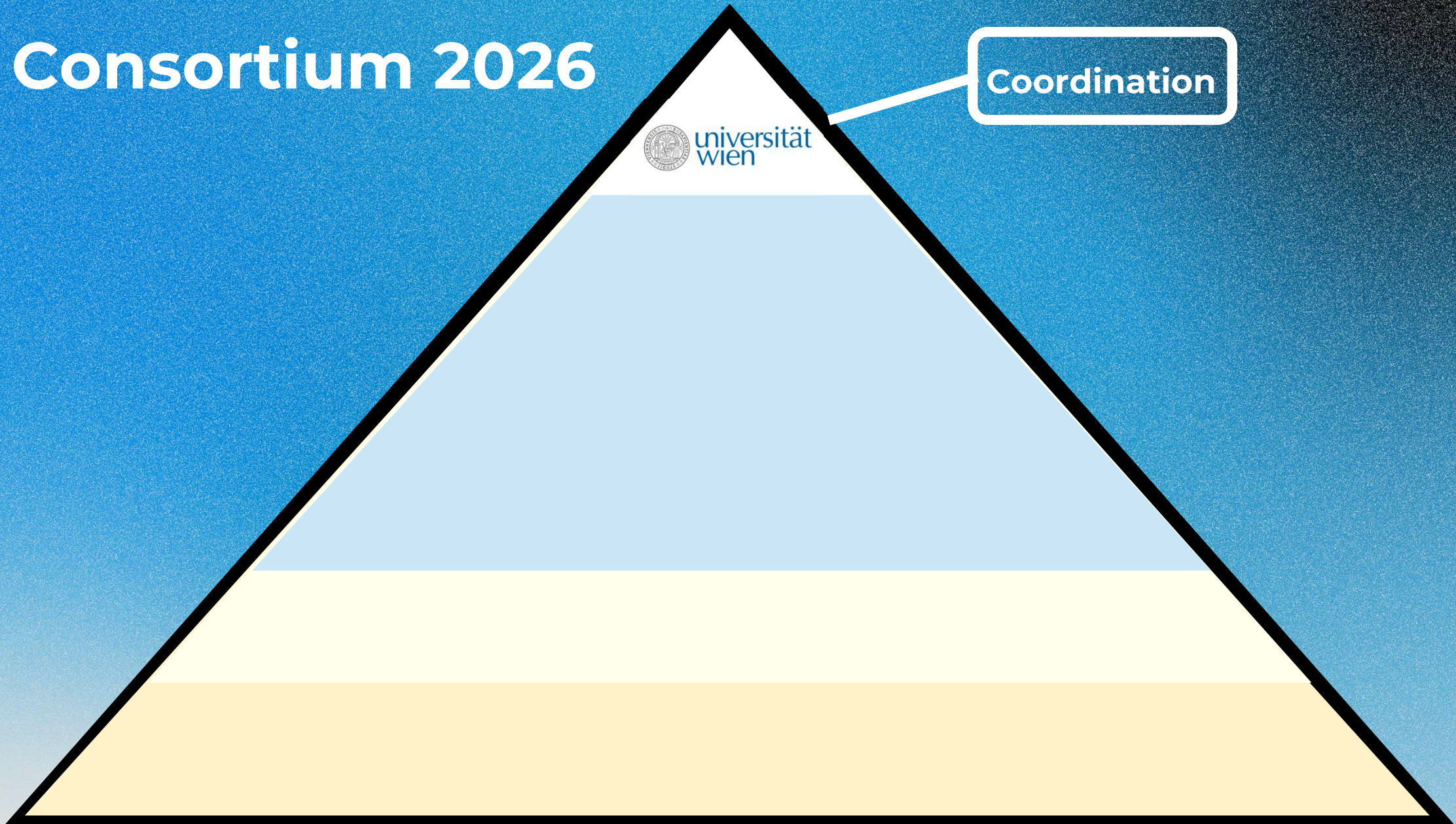


Consortium 2026



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Coordination



Consortium 2026

Coordination

Participating
institutions



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AUSTRIAN INSTITUTE
OF TECHNOLOGY



Institute of
Science and
Technology
Austria



JOHANNES KEPLER
UNIVERSITÄT LINZ



Gateway
Exzellenz Start-up Center
Universität zu Köln

Munich
Quantum
Valley



ÖSTERREICHISCHE
AKADEMIE DER
WISSENSCHAFTEN



SAL
SILICON AUSTRIA LABS



TECHNISCHE
UNIVERSITÄT
WIEN



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innsbruck

Consortium 2026

Coordination

Participating institutions

Investment



Consortium 2026

Coordination

Participating institutions

Incubation, Services, Support

Investment + Funding



2 years of Qilab

41
Alumni

**Public &
private
funding**

2
**startups
founded**

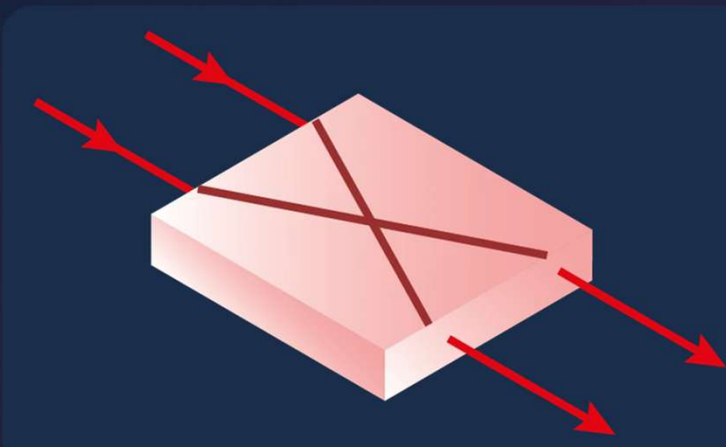
13
institutions

24
mentors

14
partners



Quantum Communication Solutions



FLAGSHIP PRODUCT

Low Loss 2x2 Optical Switch

Entanglement-preserving optical switch with ultra-low insertion loss, designed for single photon quantum applications.

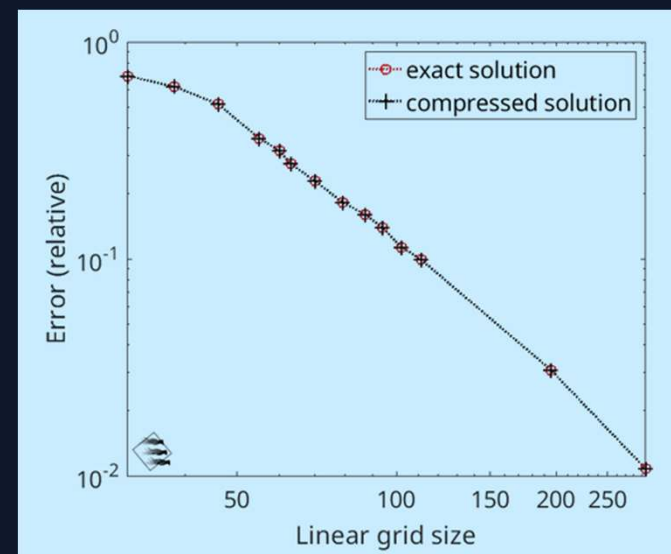
team part of 2025 cohort



Hydra Computing

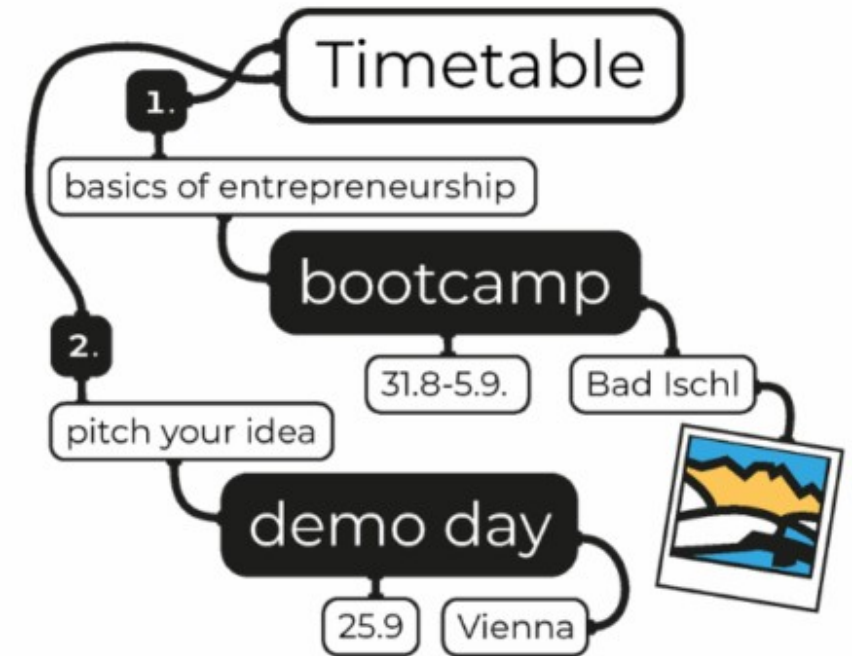
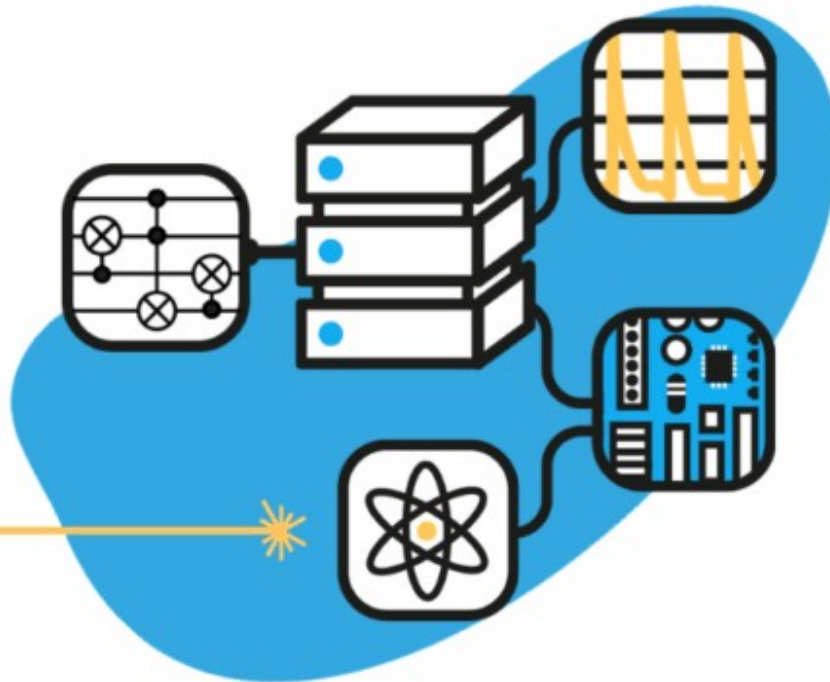
The Physics Company for the Ångström Era

Tensor-Network Powered Maxwell Solver High-NA Lithography Simulation Engine



1 co-founder part of 2024 cohort

Qilab 2026



Many opportunities to get involved

The quantum technology ecosystem is taking shape



Vienna Quantum
Technology Center

2033

30+ Mio.

CHAMP-ION funding for Austrian partners

Onsight Ventures

Onsight Ventures

Early-stage deep tech fund
in Innsbruck

Quantum Technologies

- Quantum Communication & Security
- Quantum Sensing
- Quantum Computing & Applications

New Compute

- Semiconductors
- Analog Computing
- Photonics
- New Architectures & Materials
- Quantum Computing Hardware

Previous investments in quantum include:



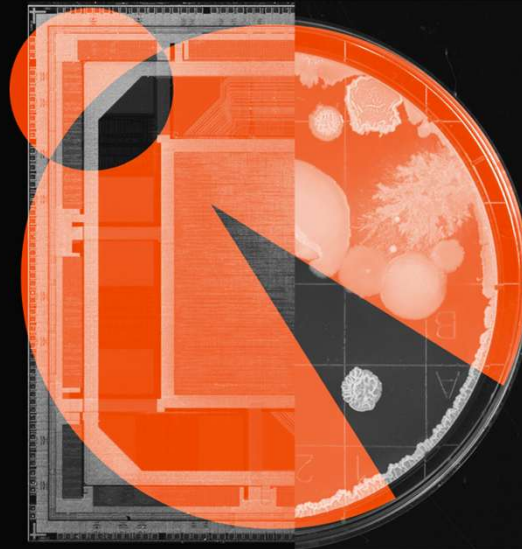


Helping Disruptive Technologies Commercialize in Europe

The Hermann Hauser Frontier Lab is a high-caliber program for ambitious deep tech founders ready to scale transformative companies, sharpen their execution, and build at the frontier of science and entrepreneurship.

September 28th to October 2nd, 2026, Graz (Styria), Austria

[APPLY HERE](#)



Looking for teams in:

(pre-seed to seed in the next year)



New Computing



Quantum Technologies



Energy & New Mobility



Space & Security



Biotechnology & Synthetic Biology



AI & Data Science

Thank you!

