

THE



PULSE

1st edition

April, 2026

Welcome to the first edition of **ACHIEVE Pulse**

We are excited to launch this new space where we will share the latest updates, achievements, events, and opportunities from the ACHIEVE community.

In each edition, we will take you behind the scenes of our work, highlight key milestones, and keep you informed about events, learning opportunities, and developments in **cloud computing and HPC education** across Europe.

Are you ready to boost your computing skills and **ACHIEVE** your ambitions?

About the project

Challenge

Europe is rapidly expanding its **investments in high-performance computing (HPC), cloud infrastructure, and advanced digital systems**, but there is a shortage of professionals to design and operate them.

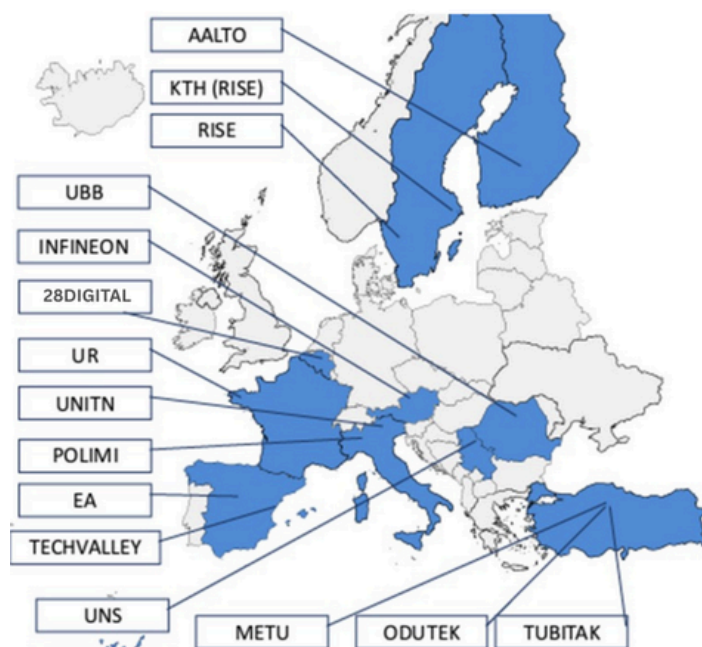
ACHIEVE's response:

An EU-funded initiative developing a **joint European Master's programme** focused on cloud systems, networking infrastructure, and HPC technologies.

The bigger picture:

Strengthening Europe's digital sovereignty and technical workforce.

Our consortium



ACHIEVE brings together a consortium of 15 partners working collaboratively to design, deliver, and sustain the programme. This includes **eight leading universities, four industry and research organisations, and three innovators and SMEs.**

By combining academic expertise with industry perspectives, the consortium ensures the curriculum responds to real-world needs in advanced computing.

Find out who we are HERE.

Master's programme implementation

The main objective of ACHIEVE is the **development of a double-degree Master's programme** (120 ECTS) focused on **Cloud, Networking and HPC**, combined with **a minor in Innovation and Entrepreneurship**.

Students enrolled in the programme will study at two different European universities:

an **Entry University** in the first year and an **Exit University** in the second year, gaining an international and interdisciplinary learning experience together with mobility across European institutions and strong engagement with industry.

| YEAR 1, ENTRY UNIVERSITY | YEAR 2, EXIT UNIVERSITY |
|---|---|
| Polytechnic University of Milan, Italy | Università di Trento, Italy |
| Università di Trento, Italy | University of Rennes, France |
| University of Rennes, France | KTH Royal Institute of Technology, Sweden |
| KTH Royal Institute of Technology, Sweden | Aalto University, Finland |
| Aalto University, Finland | Babeş-Bolyai University, Romania |
| Babeş-Bolyai University, Romania | Middle East Technical University, Turkey |
| Middle East Technical University, Turkey | |

Students must choose a different country and university for entry AND exit years

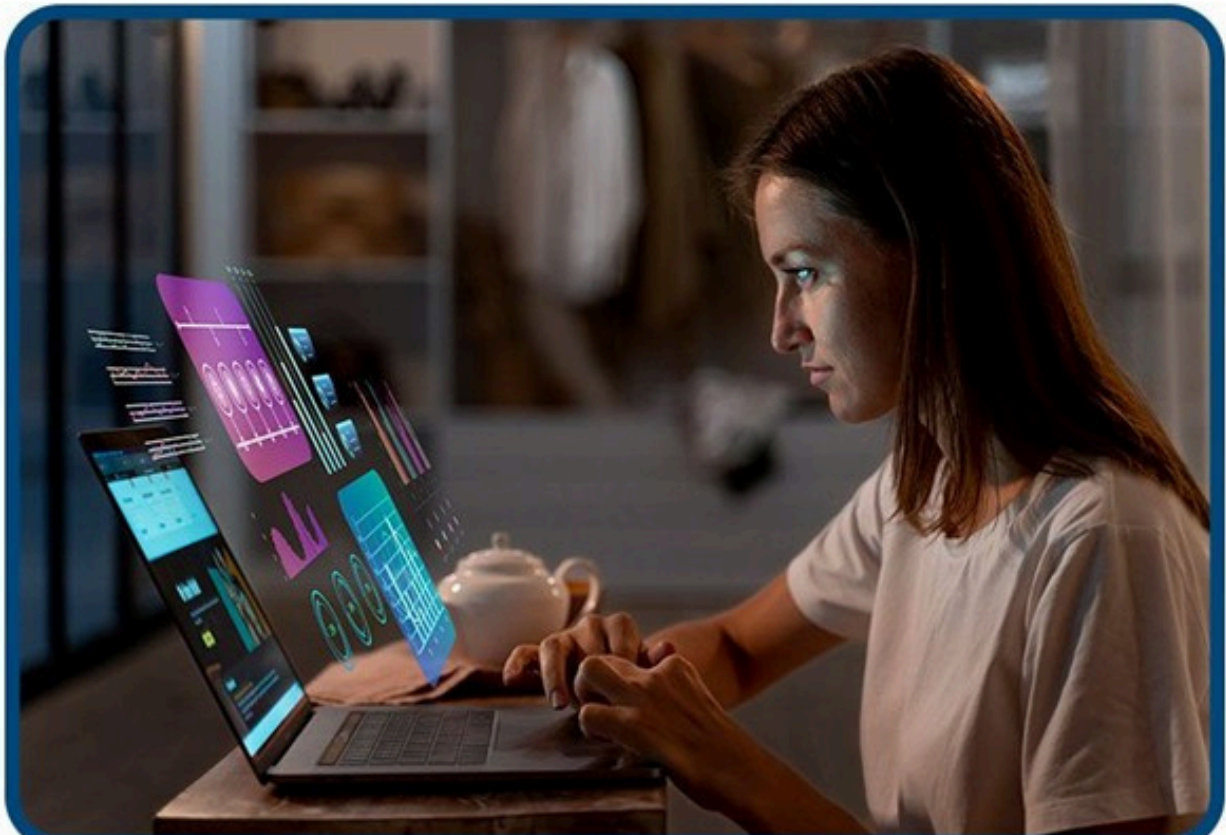
Self-learning modules

ACHIEVE is also developing **flexible self-learning modules** on topics such as cloud infrastructures, HPC architectures, and distributed computing.

These modules are designed to **support up-skilling and re-skilling** as well as lifelong learning, can be taken independently, and will provide **certificates upon completion**.

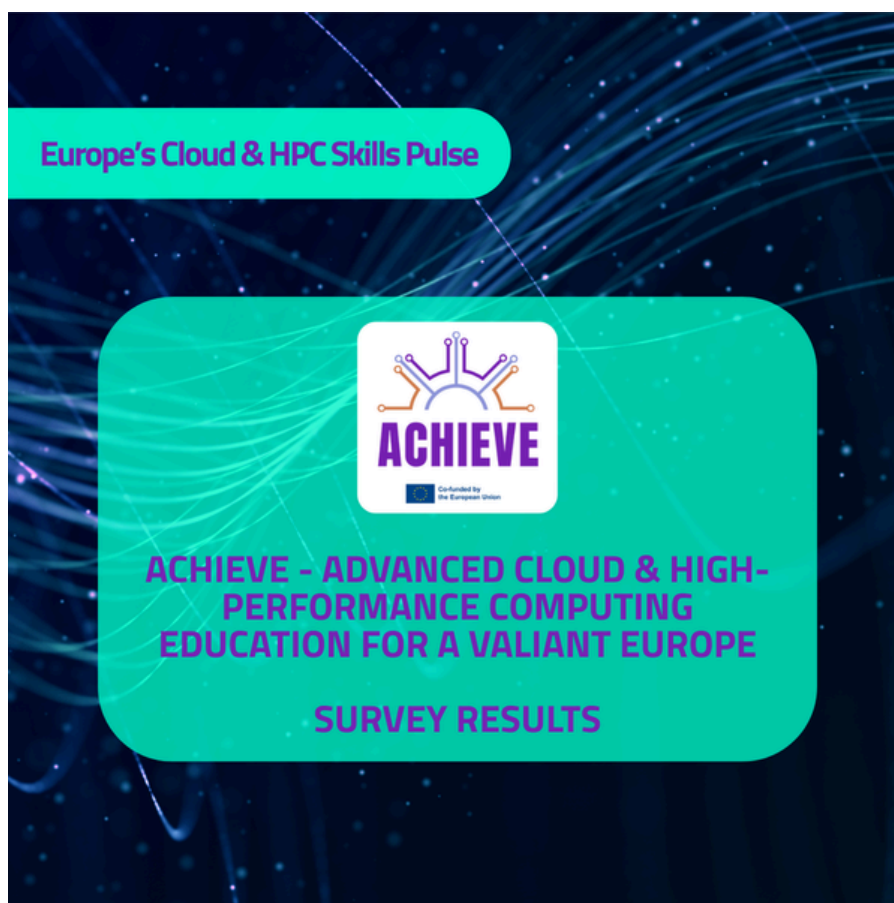
To ensure our educational content keeps pace with the speed of silicon, **ACHIEVE leverages the ICARUS AI platform as its technical backbone.** ICARUS is a digital orchestration layer designed to deliver high-stakes technical training.

By utilizing adaptive AI models, ICARUS ensures that our self-learning modules on Computing, Cloud and HPC are **synchronized with the learner's progress**, providing a seamless, scalable learning and collaborative environment.



Our survey: Mapping Europe's Cloud & HPC Skills Needs

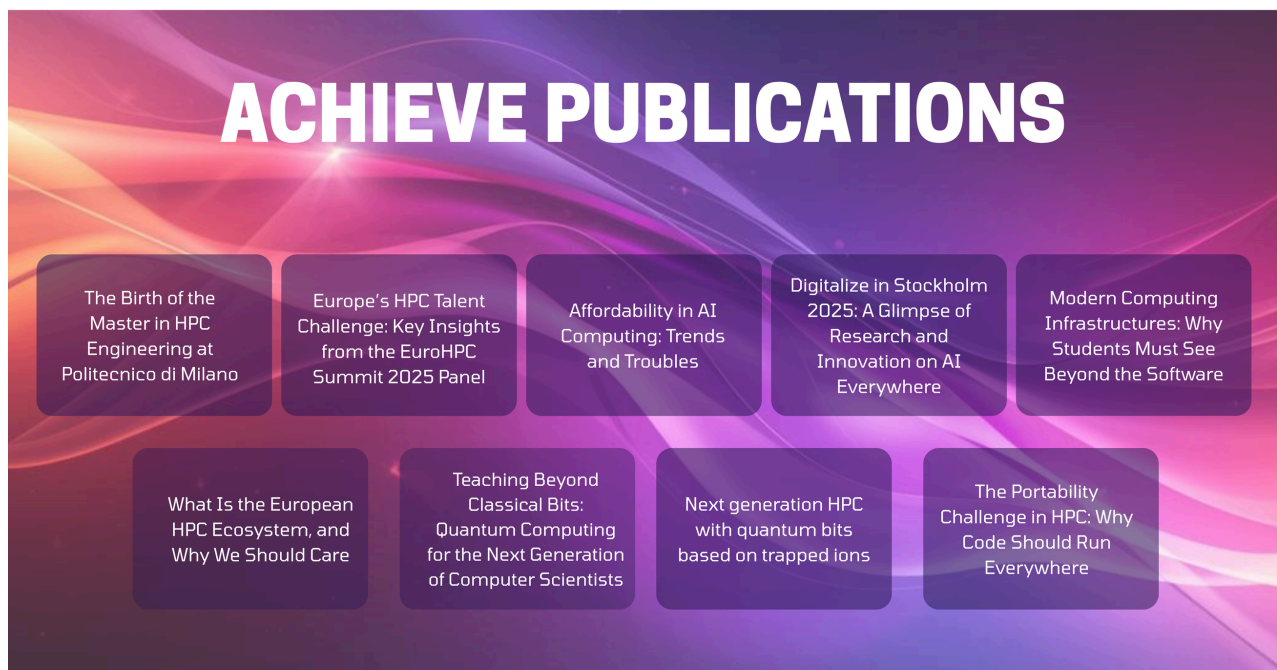
As part of ACHIEVE activities, a survey was conducted across sectors such as finance, aerospace, biotech, and digital health to **assess the demand for Cloud and HPC skills**. The results, titled “**Europe's Cloud & HPC Skills Pulse**”, are available on the ACHIEVE project page: [Deliverable D3.1:ACHIEVE Self-Standing Modules: Market Analysis and Curriculum Design](#)



Delivering results, sharing insights through ACHIEVE publications

ACHIEVE also made progress through a strong set of project outputs and publications. During the period, the consortium delivered key reports on curriculum design, dissemination, project management, enrolment and scholarship allocation.

The consortium also published articles on emerging topics such as quantum-enabled HPC, modern computing infrastructures, AI and innovation trends, Europe's HPC talent challenge:



Event Highlights

Since its launch, **ACHIEVE has strengthened its visibility through a range of outreach and promotional activities** across Europe. The programme was presented at several **education fairs and student-oriented events**, including the Study in Europe Fair Albania, Aalto University's Double Degree Day, the Master Fair Vienna, the Master Messe Berlin, and the Master Forum 2026 at ISTIC – University of Rennes.

Beyond these student-focused activities, ACHIEVE was also featured in a **wider set of ecosystem-oriented events**, including Infineon Technologies' Chip Traps Workshop in Villach, the Vojvodina ICT Cluster Annual Assembly, the launch of the first cohort in Bari, DSC Europe in Belgrade, and the HiPEAC Conference in Kraków.

Drop-in Sessions & Webinars

ACHIEVE was also featured during EIT Digital Master School drop-in sessions, (in 2026 held at Politecnico di Torino, Politecnico di Milano, and TalTech – Tallinn University of Technology.)

ACHIEVE was further promoted through online information sessions, including the **KTH MSc ICT Innovation Webinar** on 20 November 2025 and the dedicated webinar **Discover ACHIEVE: Your Pathway into Cloud and Networking Infrastructure and HPC (CNIHPC)** on 25 February 2026. These webinars helped introduce prospective applicants to the academic vision, structure, and opportunities offered by the programme.

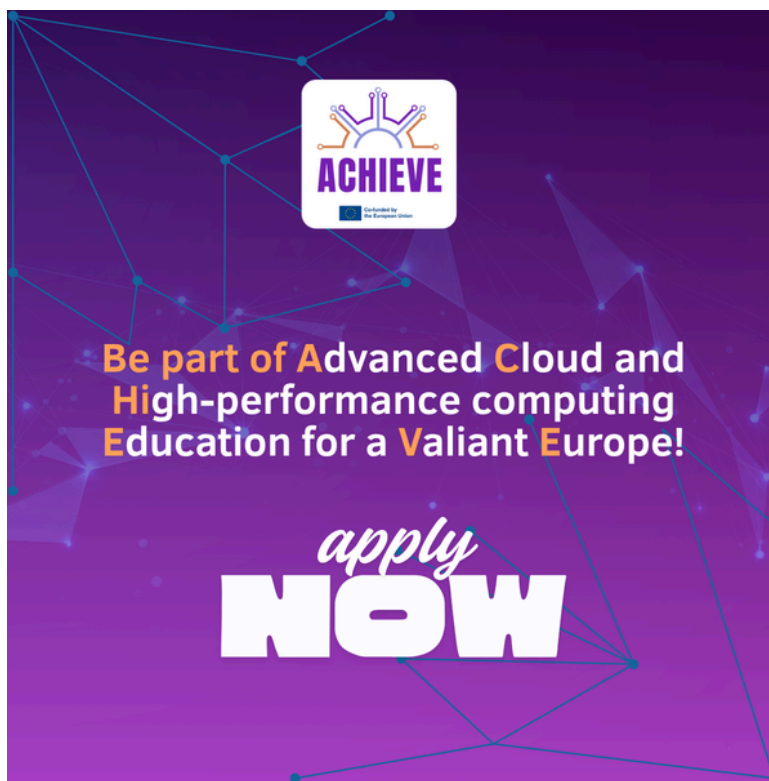


WHAT NEXT

ACHIEVE second-round applications close April 15th!

If you're still not convinced, our career outcomes speak for themselves.

92% of our alumni are employed after graduation, with 83% securing their first role within three months. Whether as cloud engineers, HPC specialists, or data scientists, our students are shaping Europe's digital infrastructure.



Europe is rolling out a **new generation of high-performance computing systems**, alongside **stronger integration between cloud and HPC environments and broader access for research and industry**. At the same time, efforts are intensifying around **energy-efficient infrastructures and new computing approaches**, shaping how advanced digital systems are being built and deployed across sectors.

**Stay tuned for more updates
from the ACHIEVE community!**

**Interested in the programme or
upcoming activities?**

**Follow our updates and
subscribe to the ACHIEVE Pulse**



**@ACHIEVE - Advanced Cloud & High-performance
computing Education for a Valiant Europe**



@Cloud and Networking Infrastructure and HPC (CNIHPC)