

European Master For High Performance Computing



EUMaster4HPC

Prof. Pascal Bouvry

EUMaster4HPC Project Coordinator
University of Luxembourg

22 October 2024



EuroHPC
Joint Undertaking

This project has received funding from the European High-Performance Computing Joint Undertaking under grant agreement No 101051997





EUR 7 million budget



4-year project

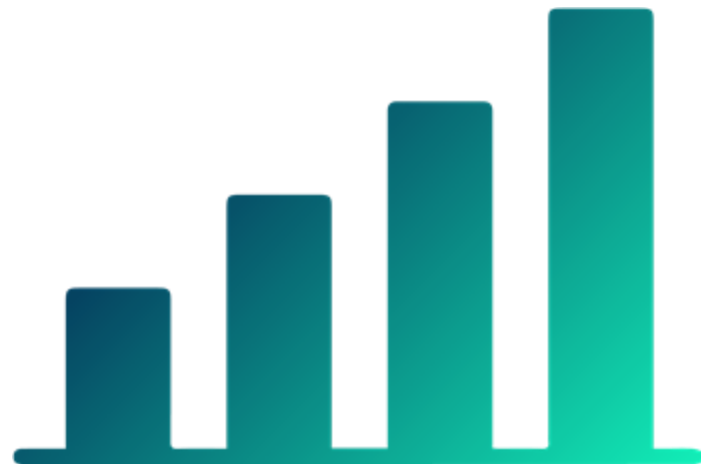


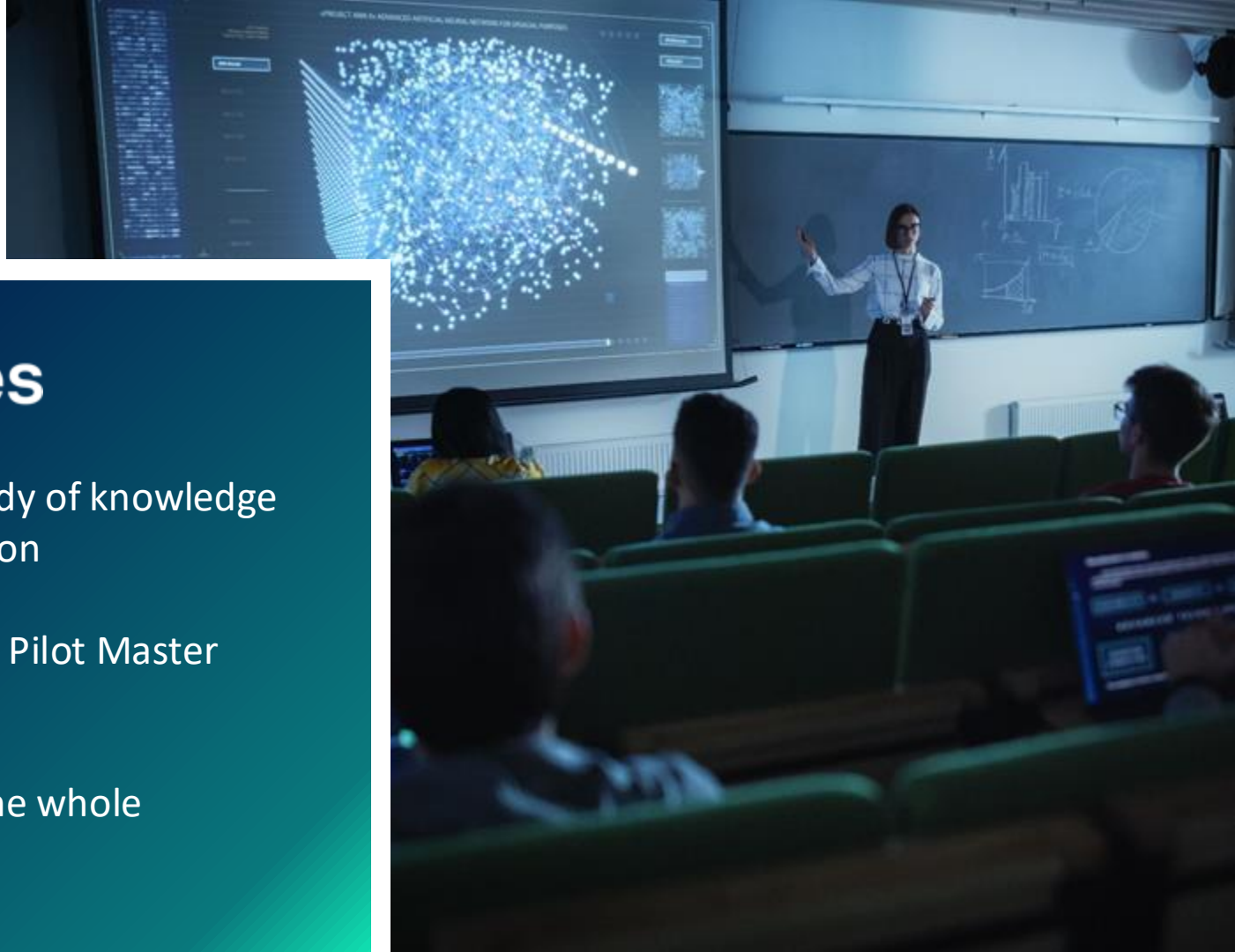
Starting on 1 January 2022

With the funding of



EuroHPC
Joint Undertaking





Objectives

→ Defining the body of knowledge for HPC education

→ Implementing a Pilot Master programme

Working with the whole

→ ecosystem

+23

European
Countries

+100

Partners from
Academia,
Industry,
CC, SMEs

+100

Students recruited





UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH



KTH
VETENSKAP
OCH KÖNST



SORBONNE
UNIVERSITÉ



FAU
Friedrich-Alexander-Universität
Erlangen-Nürnberg



POLITECNICO
MILANO 1863



Università
della
Svizzera
Italiana



UNIVERSITY OF
LUXEMBOURG

SOFIA UNIVERSITY
ST. KLIMENT OHRIDSKI





Key results

Two new HPC
Master's degree launched

+30

Dual-degree
agreements

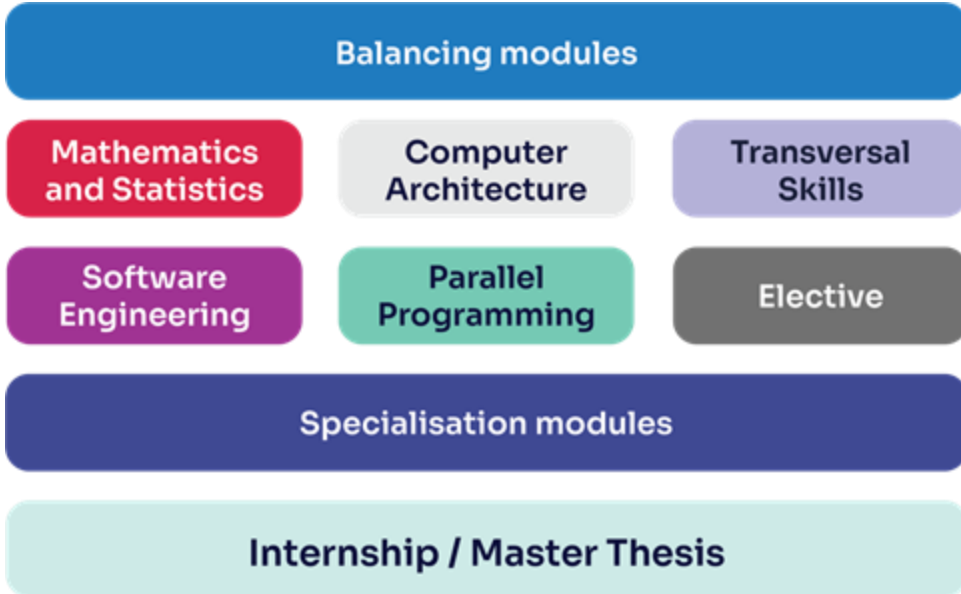


SOFIA UNIVERSITY
ST. KLIMENT OHRIDSKI

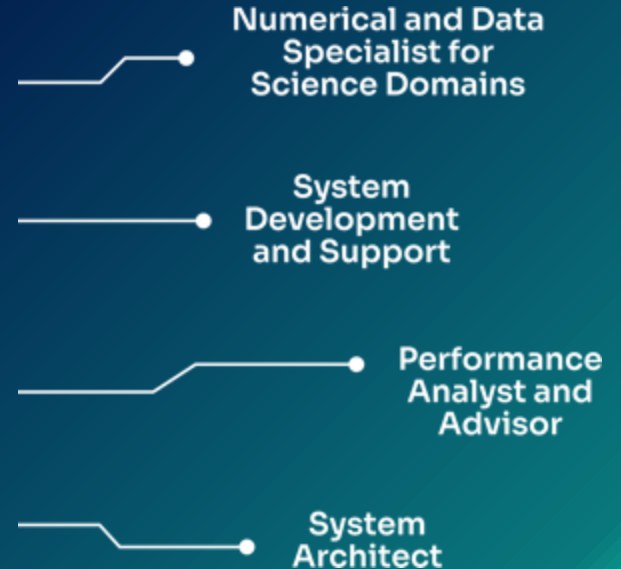


Key results

A commonly defined Curriculum



4 Specialisations



Additional activities

- Workshops
- Summer School
- EuroHPC Summit
- ETP4HPC Conference
- HPC Challenges



Introducing a public Moodle platform for HPC teaching resources

- MOOCs
- Internship offers
- Events

Log in the EUMaster4HPC Moodle platform



A screenshot of the Moodle 'My courses' page. The page title is 'My courses' and it shows a 'Course overview' section. At the top, there are search and filter options. Below, there is a grid of course cards. Each card features a banner image, a title, and a progress indicator. The courses listed include: 'Cancer Genome Analysis Using SigProfiler Suite...', 'Energy Aware Parallel Computing', 'HPC Job Offers', 'HPC Internship Offers Cohort 2', 'Introduction to Quantum Computing', 'Massive Parallel Programming on GPUs and...', 'Workshop: Career and Programming Models', 'Workshop: Career Day and ERC Quantum Group...', and 'HPC and Multidisciplinary Fields? Workshop...'. Each card also has a small circular icon with the number '1' in the bottom right corner.

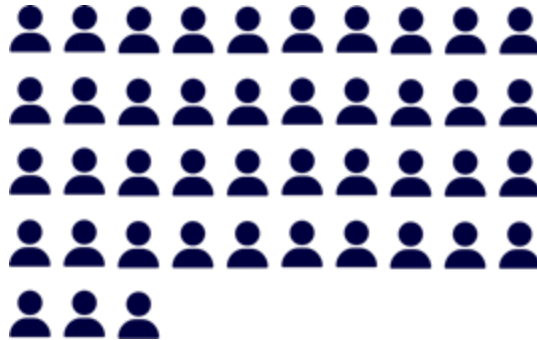
moodle.eumaster4hpc.eu

1st cohort



20 students

2nd cohort



43 students

3rd cohort



49 students



Learn more on
eumaster4hpc.uni.lu

Follow the project on Social Media



This project has received funding from the European High-Performance Computing Joint Undertaking under grant agreement No 101051997

