



HPC National Competence Center (NCC)





CaSToRC is one of four research centers of The Cyprus Institute that undertakes:

- ❖ *Computation-based research and education and*
- ❖ *Provision of computational resources and knowhow to the user communities*

CaSToRC has been designated by the Government as the **HPC National Competence Center (NCC) for Cyprus** with the mission to:

- *Cultivate the use of High Performance Computing (HPC), Simulation and Data Science and*
- *Serve the needs for compute- and data-intensive applications for academia, government and industry.*



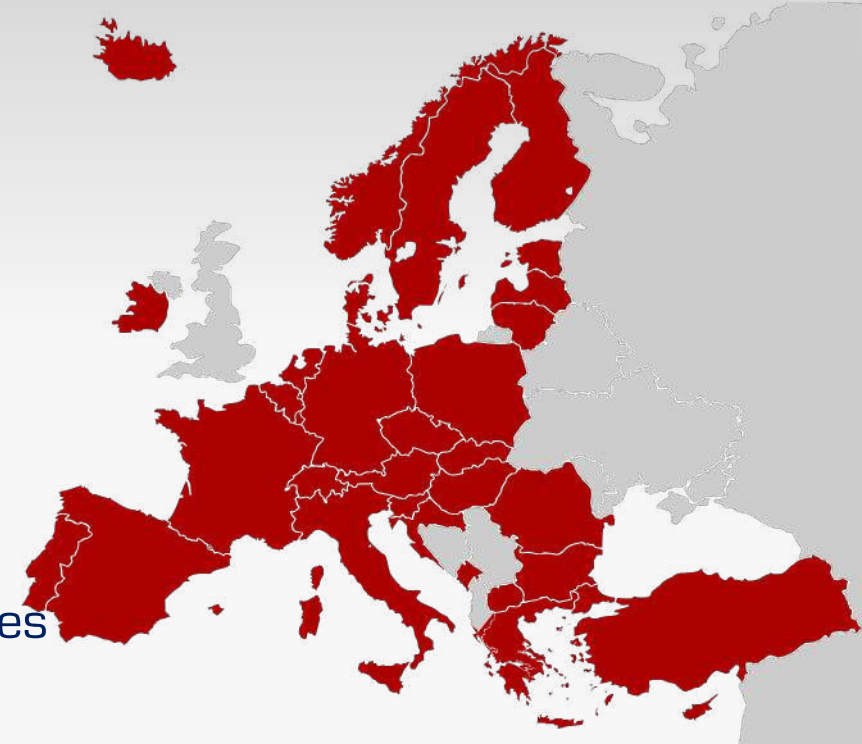
What is the EuroHPC Joint Undertaking?



The European High Performance Computing Joint Undertaking (EuroHPC JU) is a pan-European HPC action for scientific discovery and innovation

EuroHPC JU will provide funding for:

1. Pan-European network of supercomputers
2. Development of innovative exascale supercomputing technologies
3. Supporting actions for increasing the uptake of HPC by member countries



33 countries are participating in EuroHPC JU

Upcoming Budget (2021 - 2033): 8 billion Euro

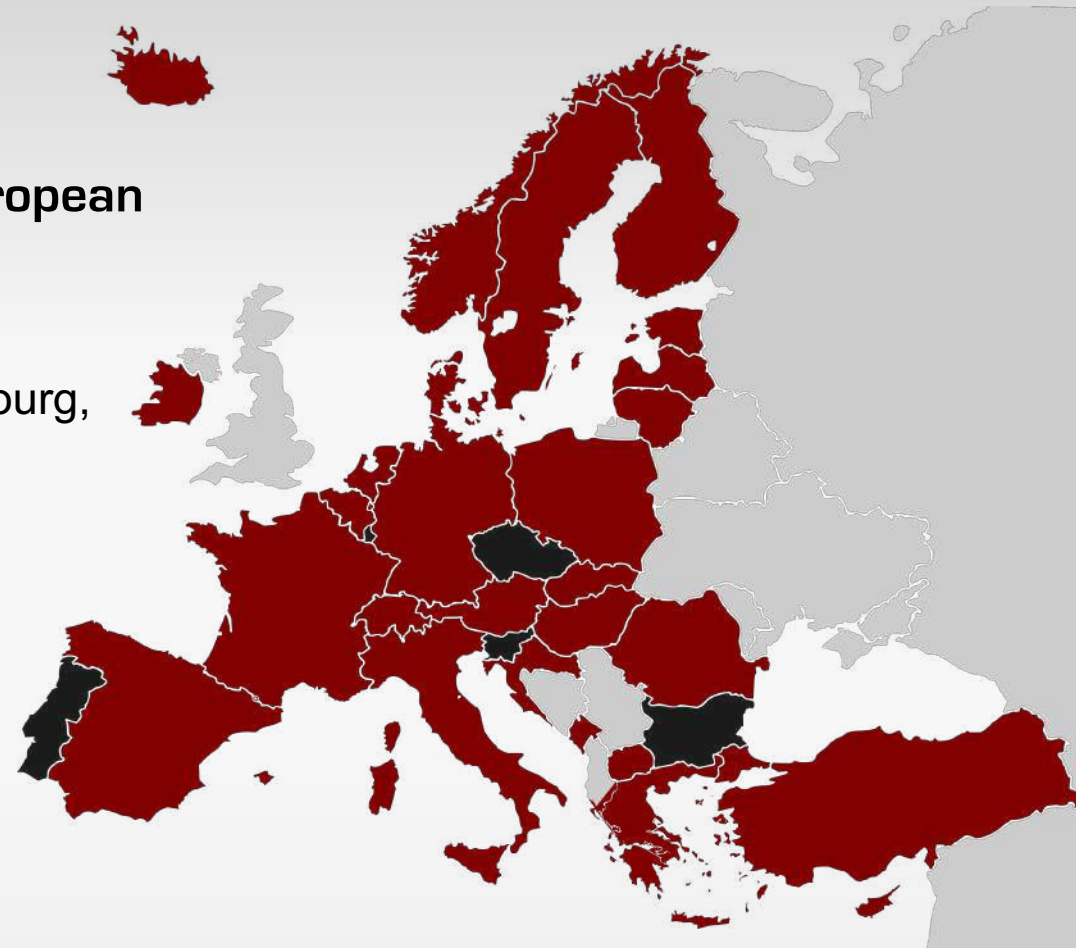


Activities within EuroHPC Joint Undertaking (I)



The Euro Joint Undertaking is currently co-financing pan-European supercomputers for member countries:

- 5 PetaFlop machines in Bulgaria, Czech Republic, Luxembourg, Slovenia, Portugal





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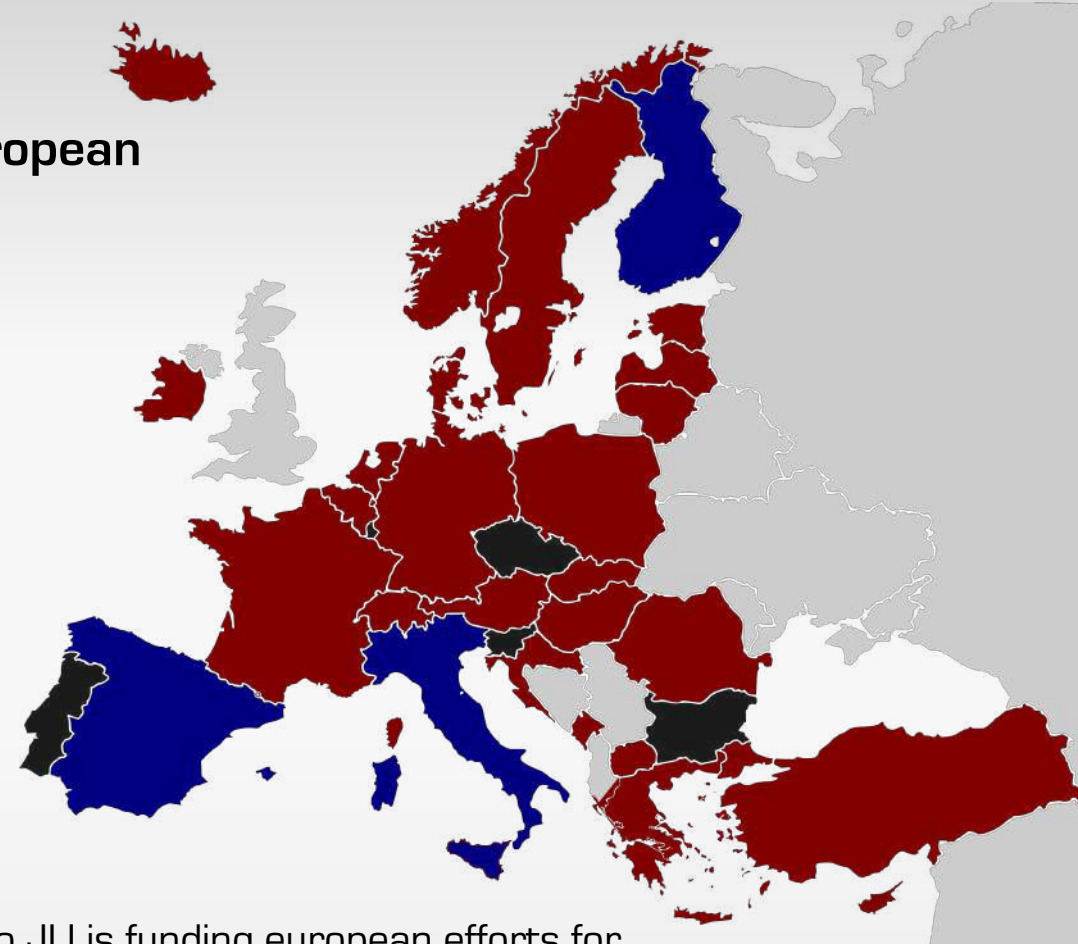
The Euro Joint Undertaking is currently co-financing pan-European supercomputers for member countries:

- **5 petaflop/s machines** in Bulgaria, Czech Republic, Luxembourg, Slovenia, Portugal
- **3 pre-exascale machines** in Finland, Spain and Italy

Next step: 2 Exascale machines using European technology



Euro JU is funding european efforts for processor development



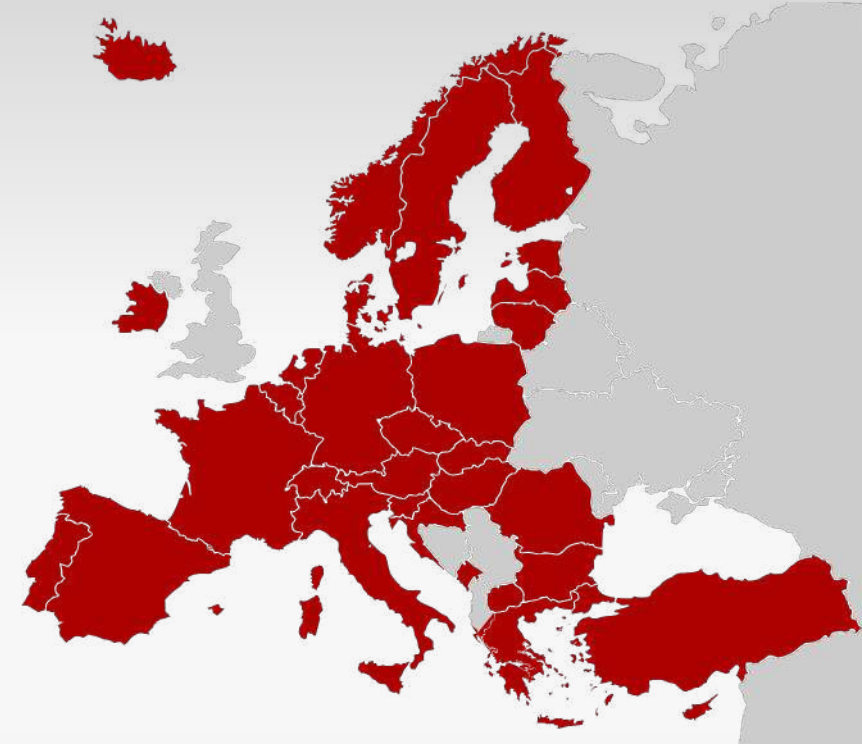


Activities within EuroHPC Joint Undertaking (II)



The Euro Joint Undertaking is currently co-financing research and innovation activities to develop a European supercomputing ecosystem for enhancing EU's competitiveness:

- **EuroCC Project** for enhancing the EU uptake of HPC by academia and industry by creating a national competence center for HPC in each member country



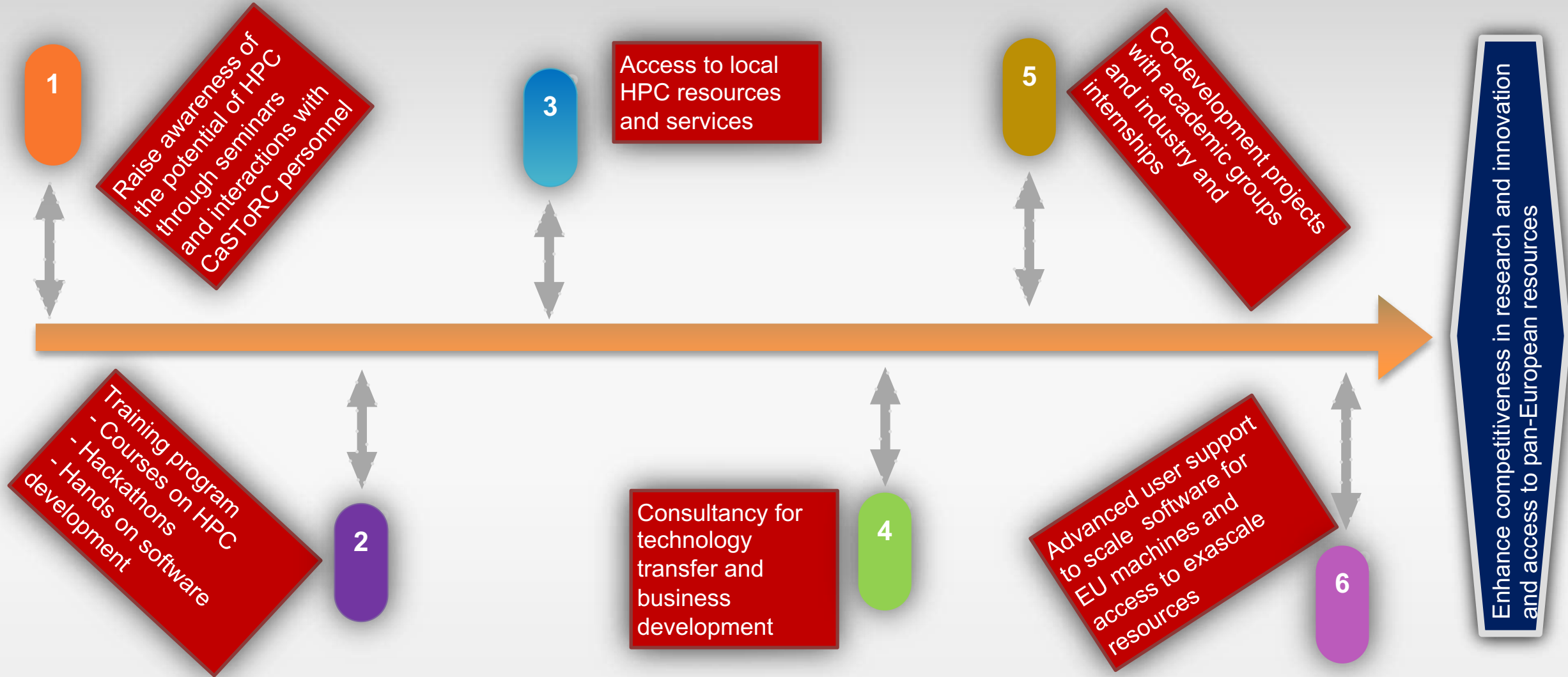


The EuroCC project



EuroCC will strengthen the HPC competences on the national level

- A National Competence Center for each country
- HLRS in Germany will coordinate activities among all 33 countries
- **CaSToRC is acting as the National Competence Center in HPC for Cyprus**
- Each NCC will target its local user communities to offer **HPC support and services** to enable:
 - **Scientific excellence**
 - **Innovation**
 - **Improve government efficiency**
 - **Raise awareness in society**
- Each will define its roadmap depending on the needs





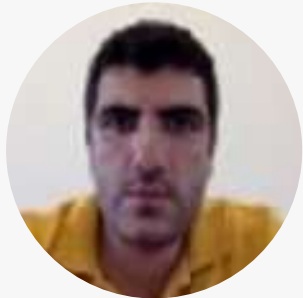
The Cyprus NCC people



High level support team of scientists



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Website: <https://castorc.cyi.ac.cy/national-hpc-competence-centre>

Thank you

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DEPUTY MINISTRY OF
RESEARCH, INNOVATION
AND DIGITAL POLICY
REPUBLIC OF CYPRUS



ΙΔΡΥΜΑ
ΕΡΕΥΝΑΣ ΚΑΙ
ΚΑΙΝΟΤΟΜΙΑΣ