



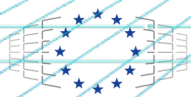
EPICURE

EPICURE : supporting EuroHPC users toward
a pan european HPC/AI application support
team European-level HPC Support

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Co-funded by
the European Union



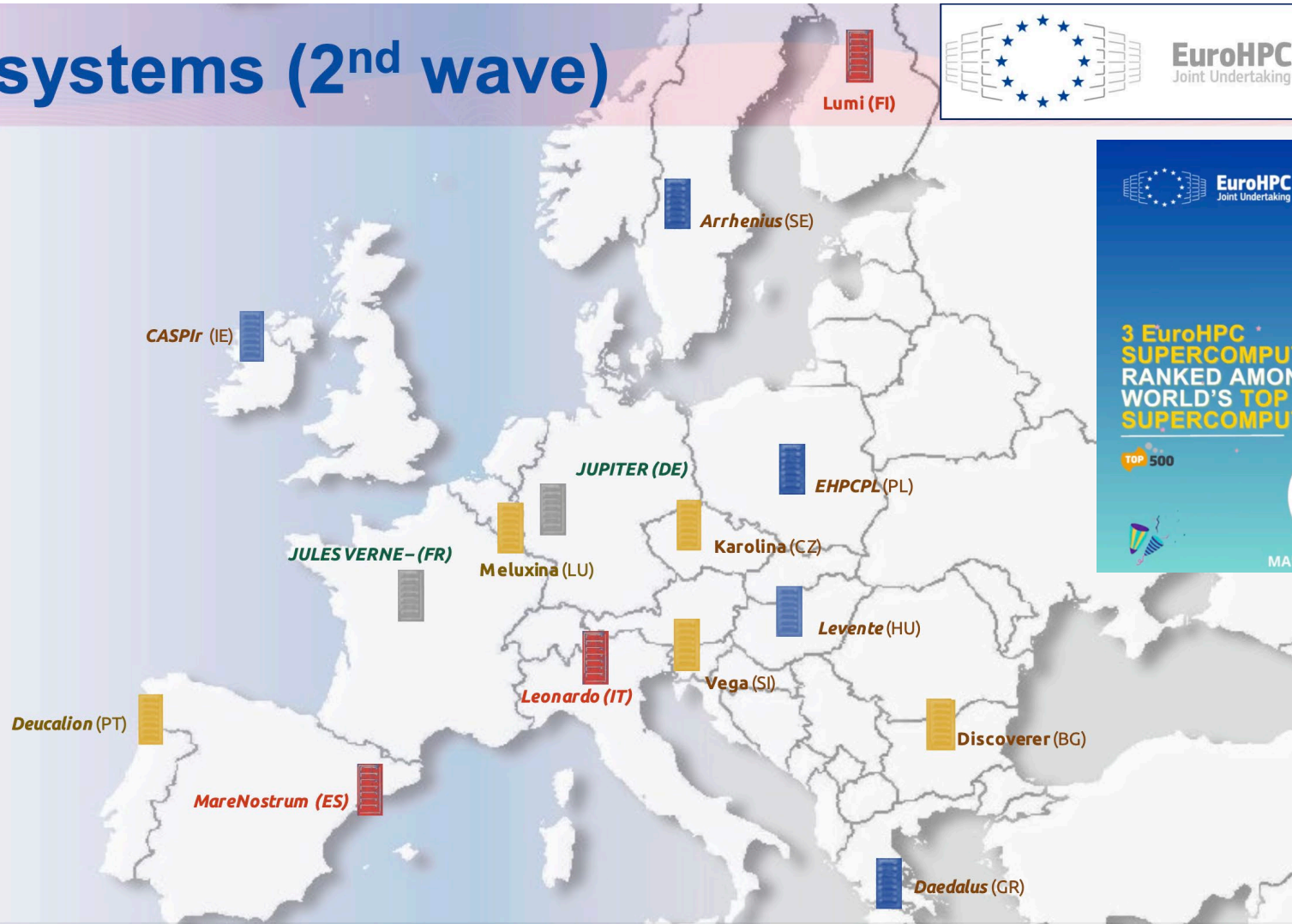
EuroHPC
Joint Undertaking

This project has received funding from the European High-Performance Computing Joint
Undertaking under grant agreement No.101139786.

Motivations for EPICURE

EuroHPC systems (2nd wave)

- Exascale
- Pre-exascale
- Petascale
- Mid-range



- Use of massive hybrid CPU/GPU configurations
- Mix of HPC/HPDA/AI
- # of applications in Europe



**USER SUPPORT IS KEY TO
BENEFIT FROM EUROHPC
SYSTEMS**

- > 15 000 nVIDIA A100, 4400 nVIDIA H100 and 11 700 AMD MI250x
- Soon close to 24 000 nVIDIA H200 (Jupiter)
- Not counting the ongoing HPC/quantum deployment and 2nd Exascale system

Motivations for EPICURE

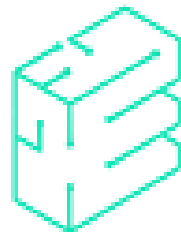
EuroHPC JU is deploying a HPC infrastructure, comprising supercomputers, that range from petascale, to future exascale systems

Support services are currently limited primarily to Level 1 and 2 support which mostly entails a help desk support for day-by-day operational issues and problems

ASTs, established in some of EuroHPC Hosting Entities, will provide their services aiming primarily at Level 2 and 3 application support (porting and optimization)

Hosting Entities have complementary skills in applications-based development and optimization

EPICURE aims at leveraging and expanding this offering by establishing and operating a distributed but coordinated European-wide HPC (Level 2 and 3) application support service



EPICURE

Unlocking European-level HPC support

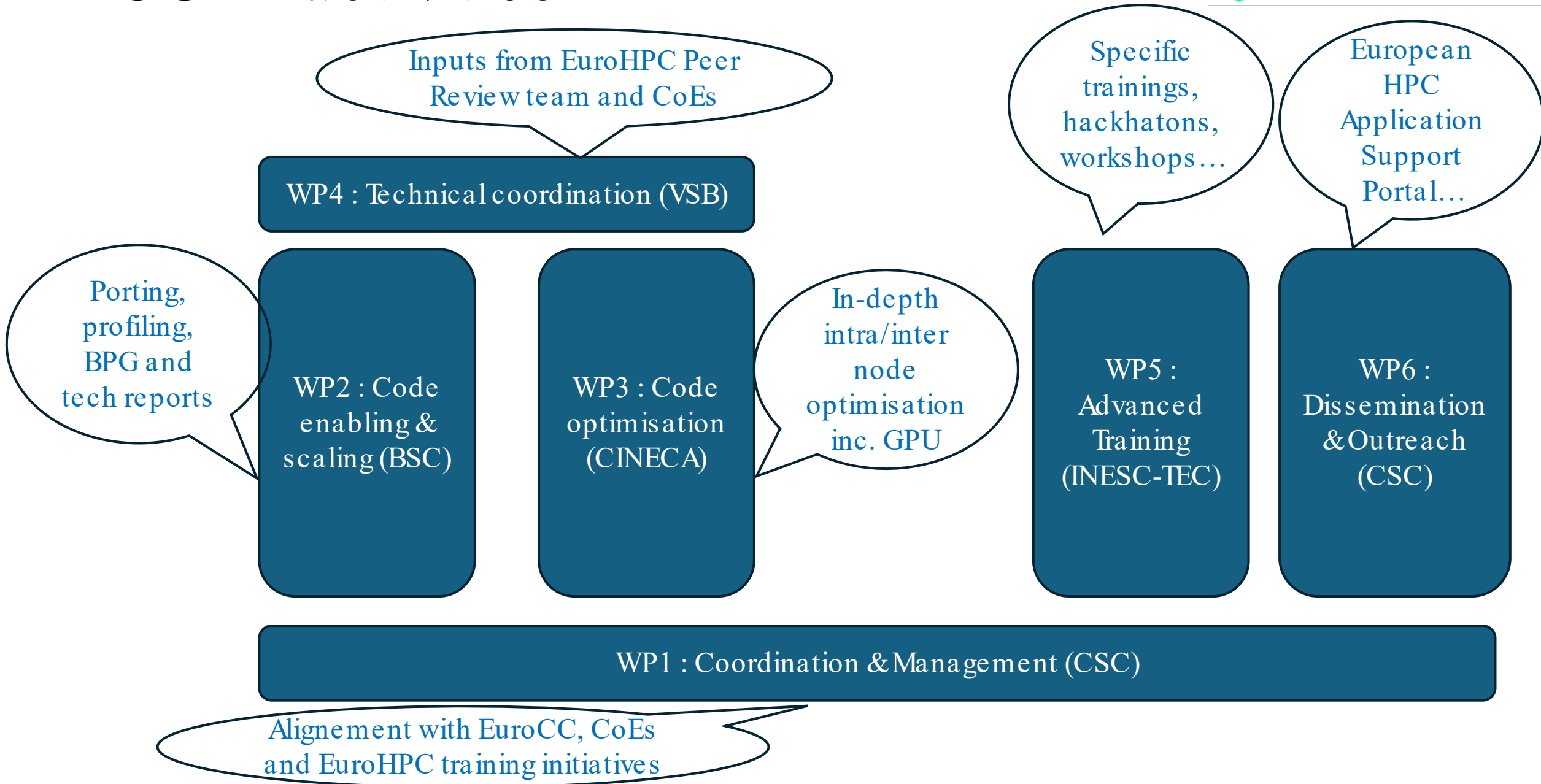


EPICURE in a nutshell

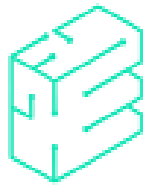
- EPICURE = Eurohpc aPpLIcAtion sUpport pRojEct
 - Selected in the field of call DIGITAL-EUROHPC-JU-2022-APPSUPPORT-01
- 4 years from 01.02.2024 until 31.12.2028
- Budget = 10M€ (5M€ EuroHPC + 5M€ MS)
- Leader of the consortium = CSC (Finland)
- Consortium: 16 partners from 14 countries --> all the existing petascale + pre-exascale (LUMI, BSC, Cineca)+ future exascale (Jülich + GENCI) EuroHPC systems
 - Will **amplify** at the EU level efforts provided locally by Hosting Entities
 - Will **provide** mainly Level 2 and 3 application support services
 - Will **collaborate** with EuroCC, CoEs, EUMaster4HPC programme, strategic projects (Destination Earth...) and technological projects (EPI, EUPEX, RISC-V...)
- 1 to 4 FTE per partner → a first distributed task force of 28 experts



EPICURE activities



Skills will be the key of the HPC/AI global stake



EPICURE
Unlocking European-level HPC support



A blue and dark blue banner for a new call. At the top, a white box contains the text "NEW CALL" flanked by two white megaphone icons. Below this, the text "DIGITAL-EUROHPC-JU-2023-AISC-03" is displayed in white, followed by "SUPPORT CENTRE FOR HPC-POWERED ARTIFICIAL INTELLIGENCE (AI) APPLICATIONS". In the bottom right corner, it says "CLOSING DATE 27 February 2024". At the bottom center, there is a small logo for EuroHPC with the text "EuroHPC Joint Undertaking".

- Many examples in Europe demonstrated the importance of joint HPC and AI support teams
- Importance to reach a critical mass in EU for the support – 150 to 200p globally?
- So EPICURE is just a start !

At the end technology is always a story of human skills

