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EU-Japan Alliance in HPC

Hpc AlliaNce for Applications and supercoMputing Innovation: the Europe - Japan collaboration

Funded by: EuroHPC JU

Basis for EU-JAPAN Cooperation in High-Performance Computing



- Significant investments in High-Performance Computing (#5, #6, #8, #9 supercomputers in the world)
- Long tradition in developing competences in HPC, and a commitment for the future
- Current global environment requires cooperation among value-based, science and innovation-oriented and technologically advanced regions
- Strong political commitment through the Digital Partnership between the EU and Japan.
- HANAMI consortium brings together key organizations committed to developing sustainable collaboration



Mission

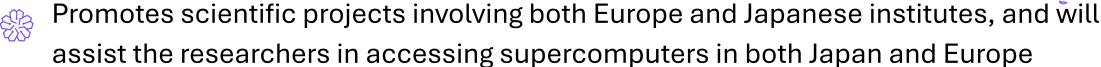


- Support the implementation of the Japan-EU Digital Partnership in order to strengthen cooperation with Japan
- So-develop European and Japanese applications of interest within the priority domains, as well as performance measuring, testing and optimization for different architectures.
- Promote the exchange of researchers and engineers between Japan and the EU
- Improved international cooperation of EU-Japan HPC communities on advanced HPC application development
- Fostering the sustainability of the collaboration between EU-Japan HPC communities, propose a roadmap for future actions to enhance cooperation



HANAMI







































11 Organizations from Japan



























HANAMI brings together a large community of European and Japanese researchers and HPC experts – more than 60 experts and researchers



World's fastest supercomputers powering up the EU-Japan collaboration



HANAMI is using the most powerful supercomputers in the world





General Information



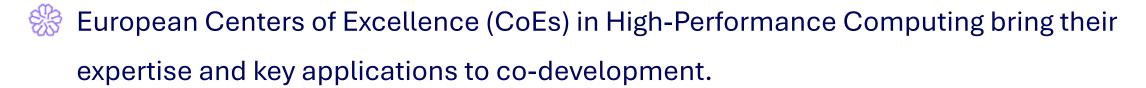
- Started in March 2024 (3-year project)
- Core teams enhancing and co-developing key applications
- Travel grants for HANAMI researchers
- European Centres of Excellence (CoE) for HPC applications¹ (MaX, EoCoE, TREX, RAISE, EsiWACE, BioExcel and PerMedCoE)
- High-level symposium to discuss requirements for the collaboration, benefits of the collaboration, and long-term aims, plans and requirements for sustainable HPC collaboration between Europe and Japan

¹CoE promote the use of upcoming exascale and extreme performance computing capabilities and scale up existing computing codes towards exascale performance.

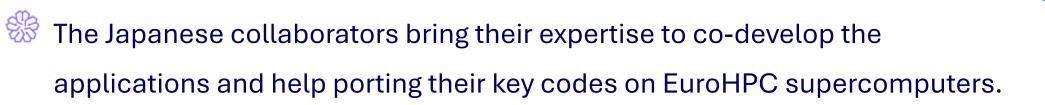


IMPACT IN SCIENTIFIC AREAS





- Climate & weather science applications
- Biomedical sciences applications
- Materials science applications
- War High-Performance Computing and Artificial Intelligence







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