



# EU-JAPAN ALLIANCE IN HPC



This project received funding from the European High Performance Computing Joint Undertaking (EuroHPC JU) under the European Union's Horizon Europe framework program for research and innovation and Grant Agreement No. 101136269. Views and opinions expressed are, however, those of the author(s) only and do not necessarily reflect those of the European Union or EuroHPC Joint Undertaking. Neither the European Union nor the granting authority can be held responsible for them.

# **HPC ALLIANCE FOR APPLICATIONS AND SUPERCOMPUTING INNOVATION: THE EUROPE - JAPAN COLLABORATION**



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# MISSION



Support the implementation of the Japan-EU Digital Partnership in order to strengthen cooperation with Japan

- Advance on the facilitation of reciprocal access of EuroHPC JU and Japanese supercomputing resources for European and Japanese researchers.





Address the priority domains that are climate and weather modeling, biomedical and materials science of the HPC collaboration

- Co-develop European and Japanese application of interest within biomedical, materials science, weather and climate modeling, performance measuring, test and optimization for different architectures;

# MISSION



-  Promote the exchange of researchers and engineers between Japan and the EU, and elaborate a roadmap for future actions to enhance cooperation
-  Advise and promote a sustainable collaboration between Europe and Japan for the HPC community

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# GENERAL INFORMATION

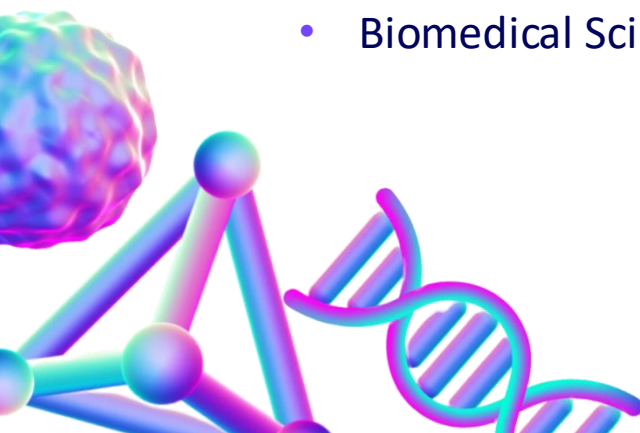
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 HANAMI is gathering 14 research organizations in Europe and 10 in Japan

- HANAMI promotes scientific projects involving both Europe and Japanese institutes, and will assist the researchers to access supercomputers in both Japan and Europe

 The project focuses on:

- High-Performance Computing and Artificial Intelligence
- Climate Modeling
- Materials Science
- Biomedical Science



# GENERAL INFORMATION



## HANAMI in a nutshell:

- Started in March 2024
- About 60 researchers involved
- 1 Open Symposium per year
- Travel grants for HANAMI researchers
- 6 European Centres of Excellence (CoE) for HPC applications<sup>1</sup> on board (MaX, EoCoE, TREX, RAISE, EsiWACE and PerMedCoE)

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



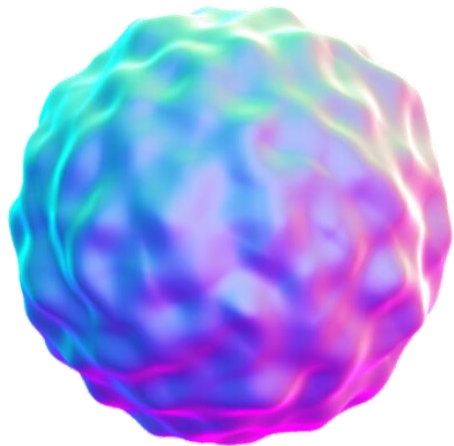
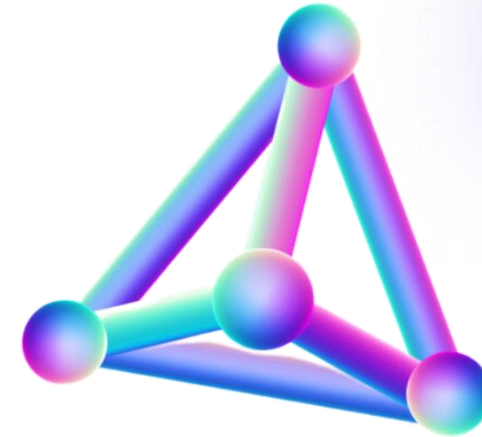
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# SCIENTIFIC AREAS



## MATERIALS SCIENCE

This collaboration between Japan and Europe aims to progress discovery and enhance sustainability of **materials** for energy production and storage. To reach this objective, materials scientists develop innovative computational tools to advance large scale simulations towards the optimization of materials for cleaner energy solutions.



## CLIMATE MODELING

HANAMI will establish common benchmarks to measure the performance and replicability of **weather** and **climate models** across different HPC platforms. This will contribute to further improvement and sustainability of the world-leading models in both Japan and Europe.

# SCIENTIFIC AREAS



## **BIOMEDICAL SCIENCE**

HANAMI will leverage the work of leading European and Japanese life science researchers to establish collaborations in long-term research in algorithms, software, workflows, and data development.

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# CONSORTIUM

## 15 Organizations from Europe



## 11 Organizations from Japan



# THANK YOU!

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