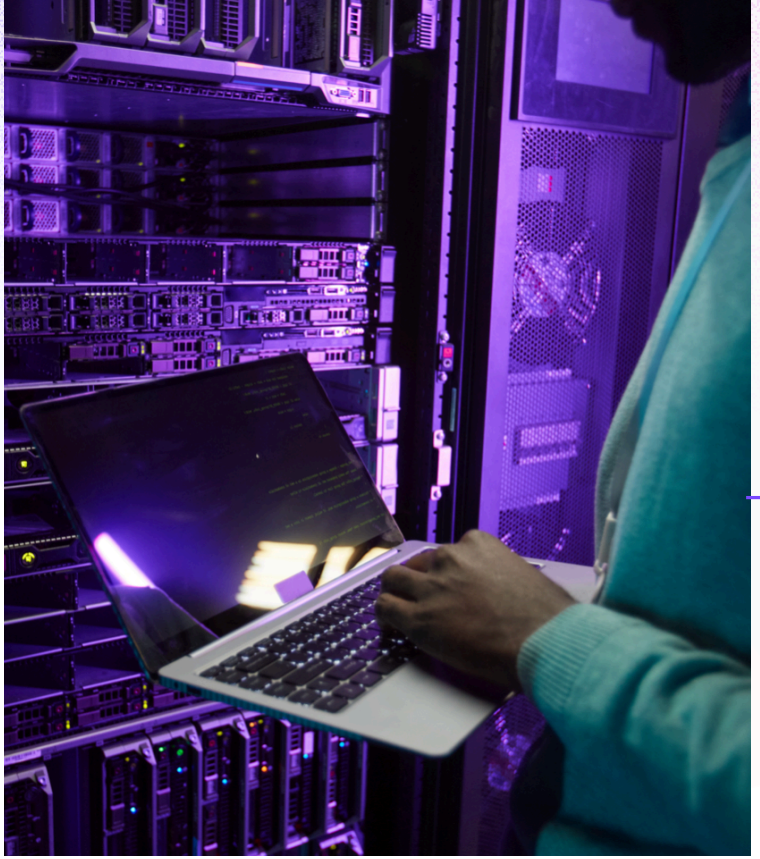
MEET OUR PARTNERS



HANAMI

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

FOLLOW US

Funded by the European Union

EuroHPC Joint Undertaking

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OBJECTIVES

HANAMI seeks to promotes scientific projects involving both Europe and Japanese institutes, and will support the researchers' access to supercomputers in Japan and Europe. The project features leading research institutes and supercomputing centres to address the exascale area and beyond.

GENERAL INFORMATION

- Started in March 2024.
- About 60 researchers involved, from 14 research organisations.
- 6 CoEs on board (MaX, EoCoE, TREX, RAISE, EsiWACE and PerMedCoE).

SCIENTIFIC AREAS

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.

MATERIALS SCIENCE

The project's materials scientists will develop innovative computational tools to advance large scale simulations towards the optimisation of materials for cleaner energy solutions.

BIOMEDICAL SCIENCE

Our researchers will integrate new methods for computing long-range interactions as well as for integration experimental and machine-learning information into European and Japanese biomolecular simulation packages.

MISSION

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

- Advise on the facilitation of reciprocal access of European and Japanese researchers to advanced Japanese and EuroHPC JU supercomputing resources.

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

- Co-develop European and Japanese application of interest within biomedical, materials science, seismic/tsunami and/or weather and climate modelling, performance measuring, test and optimisation for different architectures.

Promote the exchange of researchers and engineers between Japan and the EU and elaborate a roadmap for future actions to boost cooperation.

Advise and promote a sustainable collaboration between Europe and Japan for the HPC community.