

Establishing long-term EU-India collaboration for High Performance Computing applications to solve jointly identified problems.



Context

High-Performance Computing (HPC) is a critical enabler of cutting-edge research, innovation, and digital sovereignty. It describes the application of supercomputers and computer clusters to solve advanced problems, often referred to as domains. For both the EU and India, HPC provides the computational power needed to address societal challenges such as climate change, pandemic response, disaster management, advanced materials discovery, and AI-enabled applications. This cooperation directly supports the EU-India Trade and Technology Council (TTC) agenda and its Working Group 1 and contributes to global digital strategy objectives by ensuring open, interoperable, and sovereign access to next-generation HPC systems. to next-generation HPC systems.

Objectives



Strengthening the links between research communities in priority domains by supporting existing and establishing new collaborative activities.



Setting up and facilitating the exchange of expertise, capacity building and sharing of computing resources.

Our Approach



Current State of Cooperation

Through the India-EU Intent of Cooperation, signed in November 2022, HPC was formally made a key area for bilateral collaboration. In 2024, the EuroHPC Joint Undertaking and the Indian Ministry of Electronics and Information technology (MeitY) published a coordinated call for proposal, highlighting application domains such as climate change, natural hazards, and bioinformatics, thus translating the intent into concrete funding opportunities. This call laid the groundwork for structuring the GANANA EU-India Scientific HPC Partnership, approved in February 2025.

GANANA runs from 1 February 2025 to 31 March 2028. The EU (EuroHPC) provides funding (≈ €4.999 million) to participating EU institutions; Indian partners are funded by India.

Key Areas for Further Collaboration



Scaling the priority applications in climate, natural hazards, and life sciences across both EuroHPC and Indian supercomputers.



Expanding shared HPC infrastructure use to include a broader set of pre-exascale systems in India and the EU.

Moving Forward



Deliver and demonstrate practical results in scientific and industrial domains.



Position GANANA as a flagship project for global scientific partnerships, showcasing EU-India leadership in HPC applications.

Note: The name “GANANA” is derived from the Sanskrit word गणना (gaṇanā), meaning ‘calculation’ or ‘counting’. It reflects the project’s focus on computation and high-performance computing, while also symbolising the partnership with India.

About Us

The EU-India Digital Policy Dialogue is a multi-stakeholder initiative committed to advancing digital economy and policy cooperation under the EU-India Trade and Technology Council Working Group 1 on strategic technologies, digital governance, and digital connectivity.

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