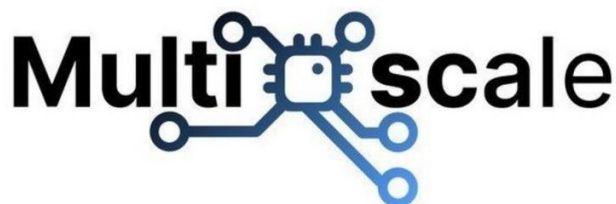


HPCNow! takes part in the New Centre of Excellence MultiXscale

- 13 partners are involved in this new project, joining from the academic and industrial sectors across Europe.

Barcelona, January 27th 2023 - On January 1, a new project called MultiXscale EuroHPC Centre of Excellence was launched, coordinated by the [National Institute of Chemistry of Slovenia](#). The project coordinator is Prof. Matej Praprotnik, Head of the Molecular Modelling Laboratory. HPCNow! is one of the 13 partners involved in this new project, joining from the academic and industrial sectors across Europe.

The goal of the MultiXscale EuroHPC Centre of Excellence is to **increase the performance, productivity, and portability ("the three P's")** of software and workflows for the full spectrum of scientists working in the field of multiscale simulation. It will shoulder much of the technical



burden of developing and disseminating domain-relevant applications for (pre-)exascale by co-designing applications for exascale technologies and providing exascale-oriented libraries and services. The goal is to encourage the community to adopt battle-tested, future-oriented, scalable workflows and portable technologies. Together, these efforts will enable application developers to drive domain-relevant scientific innovation without being overwhelmed by technical details, and enable industrial and academic application users to effortlessly deploy leading-edge technologies on any computing resources they have access to.

To drive library and service development and demonstrate the scientific and industrial potential of true multiscale approaches, MultiXscale will pursue three pilot use cases of societal and industrial importance:

- helicopter design and certification for civil transportation,
- battery applications to support the sustainable energy transition,
- ultrasound for non-invasive diagnostics and biomedical applications.

Under the HORIZON-EUROHPC-JU -2021- COE -01 call, 10 centres of excellence have been established across Europe, covering a wide range of applications and use cases, including climate and weather, drug development, astrophysics and cosmology, plasma science and engineering.

More information:

- [Cordis](#)
- [New Centre of Excellence MultiXscale](#)
- [Kick-off of 10 Centres of Excellence in HPC to support the transition towards exascale \(europa.eu\)](#)

Participating project partners in MultiXscale:



About HPCNow!

The use of supercomputing as a tool for solving problems in a wide variety of fields has grown exponentially in recent years. From its beginnings in the 80's and 90's, when the owners of the first supercomputers were mainly public entities such as universities, research centres, or the military, their use in the private sector has grown significantly. Thus, HPC has become a highly valuable, even indispensable tool in many important companies in industries such as defence, pharmaceutical, chemical, automotive, and/or aerospace.

This is the context in which HPCNow! was founded by three partners with wide experience in the management of high-performance computers and a thorough background in the use of scientific HPC codes. The company offers its expertise and knowledge with the aim of helping its customers to get the most out of HPC technologies by providing simple and efficient supercomputer usage.

Providing careful and detailed solutions and the successful customer response to our services has allowed HPCNow! to grow without external funding and to have the means to tackle any new challenge.