

## MultiXscale EuroHPC funded project launched to increase the productivity of software and workflows for scientists working in the field of multiscale simulation

- Funded for a period of four years, MultiXscale gathers 13 partners joining from the academic and industrial sectors across Europe

Barcelona, March 30th 2023 - The [National Institute of Chemistry](#) in Ljubljana, Slovenia, hosted from 23rd to 24th March the kick-off meeting of [MultiXscale project](#), one of the new 10 Centres of Excellence funded by the European High Performance Computing Joint Undertaking (EuroHPC JU) to support research and innovation actions that will develop and adapt HPC applications for the exascale and post-exascale era.

Previous to the meeting, carried out in two-days work sessions, a press conference was organized for journalists of different media, where Matej Praprotnik, the project coordinator underlined the goals of MultiXscale: 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.

"We are just a piece in a puzzle of a much larger picture, so what EuroHPC is funding is the creation of an ecosystem around a large set of computing resources", stated Alan O'Cais, from the University of Barcelona, and explained that the responsibility taken within this project "is making sure that the tools that scientists use on a day to day are functionally well, and **this has enormous implications, not just for scientists because they will get the answers quicker, but also means that we save power.** The resources we use are very expensive in terms of things like electricity. If we can make sure that people are running on the most efficient way possible, we can save a lot of energy".

Funded for a period of four years, MultiXscale gathers the following 13 partners joining from the academic and industrial sectors across Europe: National Institute of Chemistry, Forschungszentrum Jülich GmbH, University of Stuttgart, University of Barcelona, SURF BV, University of Groningen, Ghent University, University of Bergen, Barcelona Supercomputing Center, Sorbonne University, HPCNow!, Leonardo and the Italian Institute of Technology.



**More information:**

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

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## 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 since more than ten years ago 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.

The fact of 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.