

## High Performance Innovation Conference

### ONLINE

High Performance Computing (HPC) helps companies achieving business innovation (High Performance Innovation) The Spanish Supercomputing Network (RES) and the Barcelona Supercomputing Center (BSC) organize the HPI Conference aimed at promoting the adoption of High Performance Computing (HPC) among the academic, business, and public administration sectors. The Centres of Excellence (CoE) develop leading edge technologies to promote the adoption of advanced HPC in industry and public administration, and increase competitiveness for European companies and SMEs through access to CoE expertise and services.

Further information [here](#).

### PROGRAM

09:00h Registration

09:30h Welcome address. Sergi Girona, Director Operations, RES Manager, BSC

09:35h Competence Centres in HPC. Their role in European innovation. Bastian Koller, HLRS, Stuttgart, Germany

10:10h The Centres of Excellence in HPC. Chair: Sergi Girona, Director Operations, RES Manager, BSC

10:15h Software availability for computational biomedicine. BIOEXCEL Josep Ll. Gelpí, INB Computational platform, Team Leader. Life Sciences Department, BSC

10:35h Simulating the effect of personalised medical treatments and interventions. COMPBIOMED Mariano Vázquez, High Performance Computational Mechanics Group Manager, CASE, BSC

10:55h Predicting techniques for global hazards, earthquakes and volcanos. CHEESE Arnau Folch, Environmental Simulations Group Manager, CASE, BSC

11:15h Coffee break

11:35h Towards exascale for low carbon energy. EOCO Herbert Owen, Director Wind for Energy Scientific Challenge, CASE, BSC

11:55h Enabling European weather and climate models to leverage the performance of pre-exascale systems. ESIWACE Kim Serradell, Computational Earth Sciences Group Leader, Earth Sciences Department, BSC

12:15h Millions to hundreds of millions of simulations are needed to optimise the properties and performances of a material or a device. MAX Rogeli Grima, Senior Researcher, CASE, BSC

12:35h Seeking further efficiency and scalability by standing on the shoulders of performance analysis. POP Marta Garcia, Best practices for Performance and Programmability Activity Leader, Computer Sciences

Dept., BSC

13:05h Exascale-enabling technologies for Engineering Applications. EXCELLERAT Daniel Mira, Senior Researcher, CASE, BSC

13:25h Q&A

13:45h Closing

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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