

## **ChEESE2P-EU: Center of Excellence for Exascale in Solid Earth - Second Phase**

### **Description**

ChEESE-2P is the second phase of a successful research project that was coordinated by the Barcelona Supercomputing Center until 2022. It aims to address the multiple challenges posed by geohazards and accurate predictions with the help of exascale computers. The project primarily addresses European institutions responsible for operational monitoring networks but also at hardware developers, industrial stakeholders, public institutions and HPC centers. For this reason, this CoE pursues the following main objectives:

- To prepare 11 community flagship codes to address 12 domain-specific exascale Computational Challenges, enlarging the areas covered during the first implementation phase with additional disciplines.
- To develop a new generation of 9 Pilot Demonstrators for scientific problems requiring exascale computing.
- To use these Pilot Demonstrators in 15 Simulation Cases of particular relevance in terms of science, social relevance, or urgency.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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