



ChEeSE

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TO: Dr. Peter Bauer
Extreme Earth proposal Coordinator

Barcelona, 10th August 2018

SUBJECT: Letter of Support to the Extreme Earth proposal

Dear Sir,

The Center of Excellence for Exascale in Solid Earth (ChEeSE) has recently been funded under the H2020 topic INFRAEDI-02-2018 (grant number 823844). The ChEeSE project will prepare flagship codes and enable services for Exascale supercomputing in the area of Solid Earth (SE) as well as harness European institutions in charge of operational monitoring networks, tier-0 supercomputing centers, academia, hardware developers and third-parties from SMEs, Industry and public-governance. The scientific ambition of ChEeSE is to prepare 10 flagship codes to address Exascale Computing Challenging (ECC) problems on computational seismology, magnetohydrodynamics, physical volcanology, tsunamis, and data analysis and predictive techniques for earthquake and volcano monitoring, all in collaboration with the European Plate Observing System (EPOS) in order to facilitate the integration of HPC services to widen the access to codes to the SE users community.

All the objectives above are fully aligned with the Extreme Earth proposal for an EU flagship, particularly on the development of ultra-high-resolution modeling capabilities, development of Exascale computing systems and data platforms, capacity to observe and monitor the state of the Earth, and characterize their societal impact.

As Coordinator of ChEeSE, I will be delighted to collaborate with Extreme Earth and to promote synergies and alignment of objectives and efforts between both projects.

Yours faithfully

Dr. Arnau Folch
ChEeSE project coordinator