

PRACE Annual Report 2017 – From the minuscule to the gigantic

The [online version](#) of the Partnership for Advanced Computing in Europe (PRACE) Annual Report 2017 is now available. It highlights 8 success stories on a variety of research projects undertaken in Europe with the support of PRACE's supercomputers. The paper version will be available at [PRACEdays18](#), which will be held from 29 to 31 May 2018 in Ljubljana (Slovenia), for the third time under the umbrella of the [European HPC Summit Week](#).

PRACE Annual Report 2017 gives the reader a snapshot of the variety of HPC-supported science. It features a selection of projects, passing from the minuscule (molecules and atoms), to the gigantic (supernovae and solar winds), including projects between those extremes (rocket engine turbulence and oceanic chaos). This variety demonstrates the ability of PRACE to support a broad scope of research while also showing that some projects work on different aspects of the same field.

Serge Bogaerts, PRACE Managing Director, underlines that *"In the coming year, with the arrival of exascale computing, it will be possible to combine more often the results of different research groups into larger projects that find synergy and inspiration in the exchanges between them. PRACE will be at the forefront of this development, fostering exchanges between academic researchers as well as between science and industry."*

The Annual Report highlights the [new membership of Luxembourg](#). *"I am very pleased to welcome Luxembourg as the 25th member of PRACE. Luxembourg recognizes the importance of HPC for science and industry, and joining PRACE will offer many synergy benefits to all members. I am looking forward to a fruitful partnership with Luxembourg in the coming years,"* said **Prof. Dr. Anwar Osseyran, Chair of the PRACE Council**

In addition to the usual space for **PRACE Scientific Steering Committee** and PRACE User Forum, the Annual Report includes for the first time an article from the **PRACE Industrial Advisory Committee**. It also gives the floor to **Thomas Skordas**, from the **European Commission**, with an overview on the EC's support to HPC in the coming year. And as PRACE does not exist solely in the European HPC ecosystem, but actively engages with peer organisations on other continents, the Annual Report features an interview with **Ugo Varetto, Executive Director at Pawsey Supercomputing Centre**, providing an Australian perspective on HPC.

Last but not least, the report gives an overview of the events where PRACE was present, of the PRACE Training and Outreach activities and an update of the PRACE Key Performance indicators. Some highlights from that article:

- Since the 14th Call, an average of 1.9 thousand million core hours has been offered to the HPC scientific community, totalling currently nearly 17.6 thousand million core hours awarded to 610 projects (including the [16th Call for Proposals](#) in 2018)
- In 2017, the number of participants attending PRACE courses was 1858
- The average participation of industry in PTC trainings was 19.7% in 2017. Over 360 industrial participants were trained by PRACE in 2017.

"I am proud that PRACE is able to support such a broad scope of research, and I use this opportunity to call upon all researchers who consider the use of HPC in whichever domain they are active, to reach out to PRACE: our Implementation Phase Projects offers a number of ways to receive support to start working with HPC," concludes **Serge Bogaerts, Managing Director**.



About PRACE

The Partnership for Advanced Computing in Europe (PRACE) is an international non-profit association with its seat in Brussels. The PRACE Research Infrastructure provides a persistent world-class high performance computing service for scientists and researchers from academia and industry in Europe. The computer systems and their operations accessible through PRACE are provided by 5 PRACE members (BSC representing Spain, CINECA representing Italy, ETH Zurich/CSCS representing Switzerland, GCS representing Germany and GENCI representing France). The Implementation Phase of PRACE receives funding from the EU's Horizon 2020 Research and Innovation Programme (2014-2020) under grant agreement 730913. For more information, see www.prace-ri.eu

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Or contact Marjolein Oorsprong, Communications Officer: Telephone: +32 2 613 09 27 E-mail: [communication\[at\]prace-ri.eu](mailto:communication[at]prace-ri.eu)
