PRACE
in Numbers

PRACE

PRACE provides world-class HPC services and systems to enable Europe's best and most important science. With so much calculating power in the PRACE portfolio, data on PRACE itself has become increasingly significant. This data highlights the impact of PRACE on HPC-based research, on HPC know-how in Europe, and on European industry engagement in HPC.

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PRACE in Numbers...

Since 2010 PRACE has allocated over **21 billion core hours** on **7 worldclass machines** with a total capability of nearly **~110 Petaflops**. These machines are hosted in **5 European Countries**: France, Germany, Italy, Spain and Switzerland. Resources have been awarded to **688 scientific and industrial projects** from **42 countries**.

▶ **The PRACE Key Performance Indicators** – approved by the PRACE Council in 2014 and covering the first half of the PRACE initial period up to the 5th PRACE Call for Proposals for Project Access – tell us that:

- With start of **PRACE 2**, there has been an increase in the number of projects awarded, which combined with the increase of resources (started in Call 14)

- Two-thirds (**63%**) of the resources awarded under the Early Acess Call through the 15th Call, are awarded to "foreign projects" (i.e. projects with PIs from a different country recorded as the primary institution of the PI than the machine on which the research is executed) demonstrates PRACE's impact in the enhancement of European and international collaboration.

- Around **50%** of PIs who submitted to the Calls 16 and 17 for Proposals for Project Access were recurrent applicants.

- PRACE has awarded over **60** industrial projects for a total of almost **400M** core hours to **56** unique companies.

The total funding of the PRACE Projects amounts to **€162M** over 9 years (2010 – 2019) of which **€121M** is provided by the European Commission (EC). The PRACE Hosting Members contributed a total of **€400M** during the first phase of PRACE, which started in 2010, for free of charge access.

▶ **PRACE is providing** top-class education and training for the next generation of HPC experts via its 10 PRACE Training Centres (PTCs). Between 2008 until 2019 (July) the PTCs:

- Organised **640** training events

- Provided **49 100** participant-days of training through attendance-based courses

- Welcomed **16 000** individuals.

PRACE also organises seasonal schools, workshops, campus schools and more. PRACE is an organising partner of the International HPC Summer School. All training activities are free of charge to eligible participants.

▶ **Throughout the PRACE Implementation Phases** over **253** White Papers, more than **19** Best Practice Guides, **18** Newsletters, **10** User Documentation packages and countless press releases were published. Each year a PRACE Digest magazine and a PRACE Annual Report is released. The second Scientific Case for Computing (2018-2026) was published in October 2018. All PRACE publications are online available.

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