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Press Release

Atos unveils global High Performance Computing Test Lab in Angers, reinforcing its position as European leader in supercomputing

Angers, France, September 19, 2019 - Atos, a global leader in digital transformation, today officially inaugurates its new global High Performance Computing (HPC) Test Lab in Angers. The new 2,000 m² test center, which has the capacity to host the equivalent of approximately 48 BullSequana supercomputers, provides Atos' HPC customers worldwide with the unique opportunity to thoroughly test their supercomputing equipment under real conditions, to ensure it meets stringent benchmarking criteria, prior to receiving delivery on-premise.

This reaffirms the presence of Atos and its role in the region, and also strengthens the Group's unique positioning as the European leader in supercomputing, by supporting both its own and its clients' work to develop 'exascale' supercomputers (capable of processing a billion billion operations per second).

Optimised for energy efficiency

The lab's infrastructure is equipped with an energy-efficient cooling system which uses low-GWP (Global Warming Potential) refrigerant fluid and 'free-cooling' to chill the water which can result in energy savings of up to 75%*. It has an energy recovery system which reuses the energy generated by the operation of the lab to heat or cool the offices, operating at an energy-efficient COP** (coefficient of performance) of 6, twice as efficient than a standard system. It is also equipped with a 'green' roof, electric vehicle charging terminals, and photovoltaic roof panels (to be installed in 2020). Atos' latest hybrid supercomputer, the BullSequana XH2000, boasts optimum energy-efficiency with its 100% highly-efficient water-cooled patented DLC (Direct Liquid Cooling) solution, which minimizes energy

consumption by using warm water up to 40°C. Atos has 42 supercomputers in the GREEN500, 15 of which are in the Top 100.

An HPC Test Lab with a global reach in Angers

This HPC test Lab is another significant step in Atos' strategy to develop the Pays de la Loire region and the historical site of Angers, where the Group has been present for almost 60 years, as a strong center of technical expertise globally.

Since Atos' acquisition of Bull in 2014, Atos has continued to invest in Angers and business for the site has increased steadily. In concrete terms, over the period 2016 - 2019, Atos has produced nearly half an exaflop of computing power at the Angers plant. This corresponds to an increase in the production of computing servers (including supercomputers) from 3,000 in 2016 to 5,000 in 2019. In 2022, Atos will produce almost 10,000 machines at the Angers site, the equivalent of nearly 2 exaflops, making Atos one of the three most important HPC factories worldwide.

The inauguration ceremony was hosted by **Thierry Breton, Chairman and CEO at Atos**, with **Pierre Barnabé**, SEVP, Head of Big Data & Security at Atos and **Vincent Sarracanie**, SVP Manufacturing Procurement & Supply Chain, who welcomed **Christophe Béchu**, the mayor of Angers and President of Angers Loire metropole, and **Paul Jeanneteau**, Vice-President of the Pays de Loire Regional Council.

"I am delighted to officially open our new HPC Lab today in Angers, which underlines our commitment to continue to invest and develop our historical site and the region as a strong technical hub worldwide." said **Thierry Breton, Chairman and CEO of Atos**. *"This lab ensures that key HPC knowledge and skills are fostered and remain in Europe, so that we can maintain our own data sovereignty. It also plays a significant part in ensuring that Europe continues to grow as a major player in supercomputing globally."*

"I welcome Atos' decision to install its center in Angers. It highlights the attractiveness of our region and supports our ambition to create an international reputation for Angers in the technology industry. Supercomputing and quantum computing are strategic technologies which will have a major impact on every business" added **Christelle Morançais, President of the Pays de Loire region**.

"Atos has chosen Angers to install its Global HPC Test Center. This choice underscores the excellence of our territory, which has an extremely rich history in the field of electronics and has adapted to the technological and economic changes in the sector. Atos is at the forefront of these new technologies that contribute to the international

influence of Angers, especially with regards to supercomputing” added **Christophe Béchu, mayor of Angers and President of Angers Loire Metropole (Greater Angers).**

On to road to exascale in Angers

The Atos site in Angers employs 250 people in the development and construction of supercomputers including Atos’ exascale-ready supercomputer, the BullSequana XH2000. As Europe’s leading supercomputing manufacturer, Atos has 22 supercomputers in the Top500 ranking, which lists the 500 most powerful commercially available computer systems worldwide, 14 of which are in France.

In France the BullSequana X has already been sold to [the CEA \(French Alternative Energies and Atomic Energy Commission\), with a computing power of 12 petaflops](#), and to [GENCI \(Grand Équipement National de Calcul Intensif\)](#), and to other research institutions in Germany, UK, India, Netherlands, Norway, Finland, Czech Republic and the US.

This new lab is co-funded by European regional development funds with an investment of €600,000 from the Pays de la Loire region as part of government policy for economic development and €1,200,000 from FEDER European funds.

*Source: https://en.wikipedia.org/wiki/Free_cooling

** COP = ratio of heating/cooling provided to work required. Higher COPs equate to lower operating costs.

About Atos

Atos is a global leader in digital transformation with over 110,000 employees in 73 countries and annual revenue of over € 11 billion. European number one in Cloud, Cybersecurity and High-Performance Computing, the Group provides end-to-end Orchestrated Hybrid Cloud, Big Data, Business Applications and Digital Workplace solutions. The group is the Worldwide Information Technology Partner for the Olympic & Paralympic Games and operates under the brands Atos, Atos Syntel, and Unify. Atos is a SE (Societas Europaea), listed on the CAC40 Paris stock index.

The purpose of Atos is to help design the future of the information technology space. Its expertise and services support the development of knowledge, education as well as multicultural and pluralistic approaches to research that contribute to scientific and technological excellence. Across the world, the group enables its customers, employees and collaborators, and members of societies at large to live, work and develop sustainably and confidently in the information technology space.

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