EU: European "green" supercomputer MareNostrum 5 inaugurated in Spain. 314 million billion calculations per second

Today, MareNostrum 5, the latest world-class European supercomputer, was inaugurated in Barcelona, Spain. Currently ranked as one of the 10 most powerful supercomputers in the world, it is hosted at the Barcelona Supercomputing Centre and "will be accessible to a wide range of European scientific and industry users from March 2024", the European Commission explains. Besides having "a peak performance of 314 Petaflops, or 314 million billion calculations per second", MareNostrum 5 is also the greenest supercomputer in Europe. It will be highly energy efficient and fully powered with sustainable energy. The heat it generates will be used to heat the building where it is located". MareNostrum 5 was "specifically designed to solve complex scientific problems. It will help advance Europe's work in several areas. For example, it will help European medical research by supporting drug and vaccine development and carrying out virus spread simulations". MareNostrum 5 can also be used "for traditional supercomputing applications, in areas such as climate research, engineering, materials science and Earth sciences". The new system represents a total investment of over €151 million "to cover its acquisition and maintenance, with 50% coming from the EU and 50% from a Spanish-led consortium which also includes Portugal and Türkiye".

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