

[New European Supercomputer inaugurated in Portugal](https://digital-strategy.ec.europa.eu/en/news/new-european-supercomputer-inaugurated-portugal) **(<https://digital-strategy.ec.europa.eu/en/news/new-european-supercomputer-inaugurated-portugal>)**

Earlier this week, the Commission and the European High Performance Computing Joint Undertaking (EuroHPC JU) together with the Portuguese Prime Minister Antonio Costa and the Portuguese Foundation for Science and Technology inaugurated “Deucalion”, the latest EuroHPC supercomputer. “Deucalion” is located at the Azurém Campus, Guimarães, Portugal.



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The new world-class system will be used to advance research and development in domains such as energy efficient technologies, weather forecasts, and sea and oceanic research. It will also help develop industrial applications in drug discovery, new materials design, neuroscience, climate-friendly energy systems, and other areas.

Deucalion, the seventh EuroHPC supercomputer installed in the European Union, is the most powerful and advanced computational resource in Portugal. It represents an investment of €20 million including €7 million of EU funding and has a peak performance of 10 Petaflops – or 10 million billion calculations per second. Moreover, it offers a unique architecture in Europe, providing European users access to a pioneering design that will complement and enrich the diverse set of computing architectures made available by the EuroHPC systems.

Deucalion joins the existing supercomputers of the EuroHPC JU already in operation: [Discoverer](https://eurohpc-ju.europa.eu/discoverer-powers-bulgarian-eurohpc-supercomputer-inaugurated-2021-10-21_en) (https://eurohpc-ju.europa.eu/discoverer-powers-bulgarian-eurohpc-supercomputer-inaugurated-2021-10-21_en) in Bulgaria, [MeluXina](https://eurohpc-ju.europa.eu/meluxina-live-eurohpc-ju-supercomputer-luxembourg-operational-2021-06-07_en) (https://eurohpc-ju.europa.eu/meluxina-live-eurohpc-ju-supercomputer-luxembourg-operational-2021-06-07_en) in Luxembourg, [Vega](https://eurohpc-ju.europa.eu/vega-online-eu-first-eurohpc-supercomputer-operational-2021-04-20_en) (https://eurohpc-ju.europa.eu/vega-online-eu-first-eurohpc-supercomputer-operational-2021-04-20_en) in Slovenia, [Karolina](https://www.it4i.cz/en/infrastructure/karolina) (<https://www.it4i.cz/en/infrastructure/karolina>) in Czechia, [LEONARDO](https://ec.europa.eu/commission/presscorner/detail/en/ip_22_7119) (https://ec.europa.eu/commission/presscorner/detail/en/ip_22_7119) in Italy, and [LUMI](https://eurohpc-ju.europa.eu/inauguration-lumi-fastest-greenest-supercomputer-europe-2022-06-13_en) (https://eurohpc-ju.europa.eu/inauguration-lumi-fastest-greenest-supercomputer-europe-2022-06-13_en) in Finland. Deucalion's inauguration will be shortly followed by the third European pre-exascale [MareNostrum5](https://eurohpc-ju.europa.eu/marenostrum5-new-eurohpc-world-class-supercomputer-spain-2022-06-) (<https://eurohpc-ju.europa.eu/marenostrum5-new-eurohpc-world-class-supercomputer-spain-2022-06->

[16_en](#)) supercomputer in Spain, which will be inaugurated this coming autumn.

More information

- [Press release of the EuroHPC Joint Undertaking](https://eurohpc-ju.europa.eu/deucalion-new-eurohpc-supercomputer-has-been-inaugurated-2023-08-30_en)
(https://eurohpc-ju.europa.eu/deucalion-new-eurohpc-supercomputer-has-been-inaugurated-2023-08-30_en)
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