

# New EU-funded project set to revolutionise the cloud services in Europe

NOUS is an EU-funded, 36-month project set to revolutionise the cloud services in Europe. The project was launched in January 2024 and was officially kicked off with a consortium meeting in Salamanca, Spain between 8-10 January.

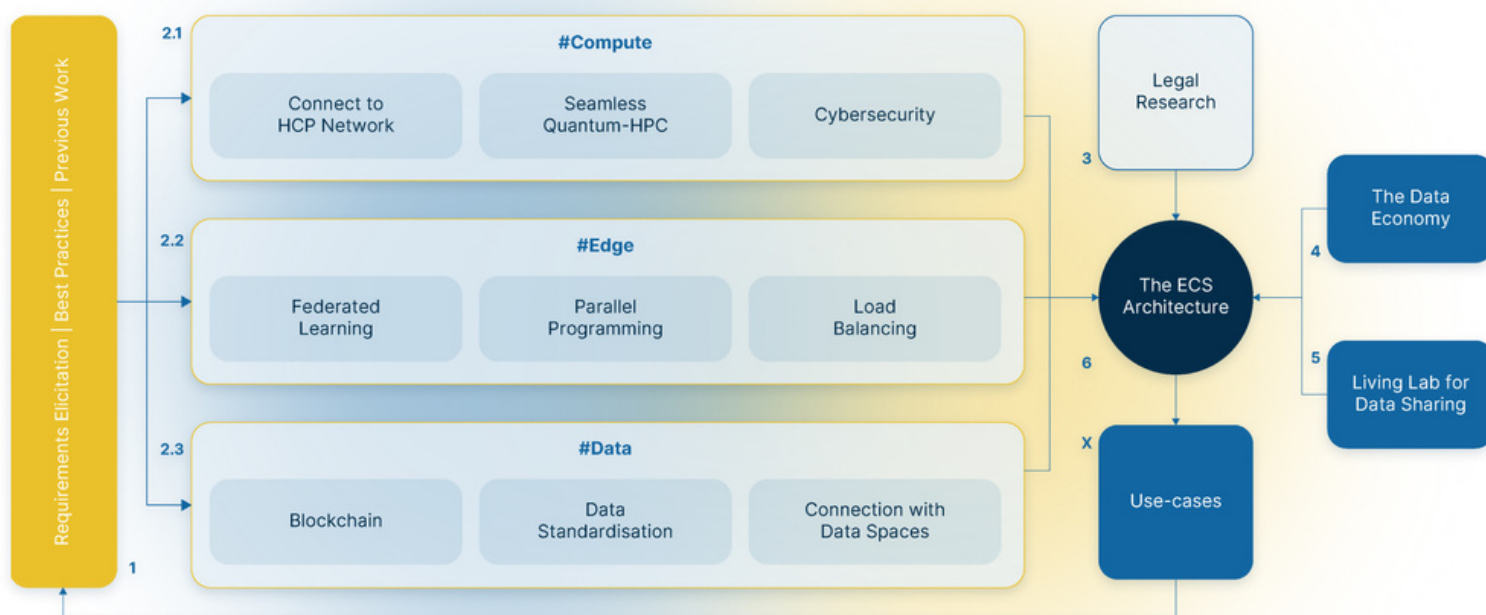
The NOUS Consortium consists of **19 core partners and 2 affiliated entities**, coming from 11 European countries: Spain, Greece, Italy, Luxembourg, Cyprus, Portugal, Belgium, Germany, Ireland, Slovenia and France.

During its lifetime, NOUS will develop the **architecture of a European Cloud Service** that allows computational and data storage resources to be used from edge devices as well as supercomputers, through the HPC network, and Quantum Computers. NOUS will be an Infrastructure-as-a-Service (IaaS)/Platform-as-a-Service (PaaS) cloud provider, harnessing edge computing and decentralisation paradigms to incorporate a wide array of devices and machines in its computational flow to provide leaps in Europe's capability to process vast amounts of data.

The pipeline of NOUS in the project will include three types of components:

- 🕒 **Computational components** that are responsible for executing computations;
- 🕒 **Edge components** that are responsible for communicating with edge devices (such as IoT sensors/ actuators/ devices);
- 🕒 **Data storage components** that are responsible for data storage and storage management.

*Curious how this is going to be achieved? Have a closer look at the methodology which NOUS has chosen to complete its ambitious task in a sustainable and comprehensive manner.*




The NOUS research method endeavours to delve into each component individually, unlocking its unique potential. Simultaneously, the consortium explores the synergy between these components, crafting a comprehensive architecture. This synergy extends to cloud-level services, including syndication with other platforms and the creation of virtual labs, enhancing the collaborative environment.


NOUS defines **four strategic use cases**, providing a real-world testing ground for the developed technologies, and addressing challenges faced by industry leaders.


In commitment to openness, the NOUS architecture will be made open source, inviting companies and organisations to capitalise on the project's advancements.


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