



Flagships

Flagships refer to long-term and large-scale research initiatives, paving the way with an ambitious vision. The EU's flagships in digital focus on future and emerging technologies and run for around 10 years. They mobilise researchers, academics, industry and national programmes to tackle major challenges in science and technology. The result can bring positive changes that benefit society and the economy, and advance EU leadership in technology and industry.

Current flagships

[Battery 2030+ \(https://battery2030.eu/\)](https://battery2030.eu/)

The Battery 2030+ initiative aims to develop high-performance, safe and sustainable batteries. This would put Europe in the lead of battery development across Europe.

[Graphene flagship \(https://graphene-flagship.eu/\)](https://graphene-flagship.eu/)

The graphene flagship focuses on taking graphene and related two-dimensional materials and applying them in European technology. By finding new uses for these materials, the flagship can help to stimulate economic growth, create new jobs and improve society.

[Human brain project flagship \(https://www.humanbrainproject.eu/en/\)](https://www.humanbrainproject.eu/en/)

The human brain project flagship mobilises neuroscientists, computer and robotics experts. It supports our understanding of the human brain. It also improves knowledge about neurological diseases and helps to advance medicine. Since it began 10 years ago, the project has [produced impressive results](https://www.humanbrainproject.eu/en/science-development/scientific-achievements/highlights/) harnessing the power of big data and supercomputing to improve treatment in Alzheimer's, depression, epilepsy and much more. The project also developed the [EBRAINS Research Infrastructure](https://ebrains.eu/) and are now looking to expand this initiative.

[Quantum technologies flagship \(https://qt.eu/\)](https://qt.eu/)

The quantum technologies flagship aims to accelerate the development and uptake of quantum technologies. It will place Europe in a leadership position for the second quantum revolution.

Funding and support

Together, these flagships receive over €1 billion through the EU framework programmes for research and innovation and EU countries.

EU countries and association countries organise their support through dedicated networks of local funding initiatives:

- [FLAG-ERA \(https://www.flagera.eu/\)](https://www.flagera.eu/): The European Research Area Network Coordinating National and Regional Funding for the Future and Emerging Technology Flagship
- [QUANT-ERA \(https://www.quantera.eu/?start=20\)](https://www.quantera.eu/?start=20): European Research Area Network (ERA-NET) Cofund Programme in the field of quantum technologies.

As well as these networks, there is a board of funders. This facilitates cooperation between the European Commission, EU countries, and associated countries.

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