Flagships

The European Commission has launched various flagships to address the major science and technology challenges and boost innovation in the EU.

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/)

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/)

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/)**

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/)**

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/)**: The European Research Area Network Coordinating National and Regional Funding for the Future and Emerging Technology Flagship


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

**All news on flagships**

EVENT | 04 September 2023 - 08 September 2023

The annual Graphene Week events are designed to bring together researchers, industry leaders and policymakers from all over Europe to learn from one another and generate new ideas and possibilities for innovating and collaborating. This year marks the Graphene Flagship’s 10-year anniversary celebration.

DIGIBYTE | 29 March 2023
The Human Brain Project Summit highlighted the achievements of the Flagship project.

EVENT | 26 January 2021
Connect University Online Session on: Intraneural stimulation: the role in restoring sensory, motor and autonomic neural functions

Neuroengineering is a novel discipline combining engineering including micro and nanotechnology, electrical and mechanical, and computer science with cellular, molecular, cognitive neuroscience with two main goals: (i) increase our basic knowledge of how the nervous system works; (ii) develop systems able to restore functions in people affected by different types of neural disability. In the past years, several breakthroughs have been reached by neuroengineers in particular on the development of neurotechnologies able to restore sensorimotor functions in disabled people.

EVENT | 12 November 2020
Graphene Flagship Innovation Workshop Electronics: a networking opportunity for research and industry players

The Innovation Workshop Electronics is a networking event where participants can turn their research and innovation ideas into fruitful collaborations.

Browse FET Flagships and Large Research Initiatives
The Quantum Technologies Flagship is a long-term research and innovation initiative that aims to put...

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