



Work Programme 2023

EIC Accelerator Challenge

Novel biomarker-based assays to guide personalised cancer treatment.



Budget : €65 million



IMPROVE THE EFFICACY, SAFETY AND UPTAKE OF THERAPEUTIC APPROACHES AGAINST REFRACTORY CANCERS.

Supporting and accelerating the preclinical validation and/or clinical phase 1 work to develop novel comprehensive predictive, prognostic and companion diagnostic assays to guide cancer treatment. Novel biomarker-based treatments will enable personalised treatments, minimise unnecessary side effects and allow a more effective clinical monitoring of the disease.



SIMPLIFIED APPLICATION PROCESS.

Send your short application via EIC AI platform anytime



Feedback within 4 weeks



Four cut-off dates for full applications



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Work Programme 2023

EIC Accelerator Challenge

Aerosol and surface decontamination
for pandemic management.



Budget : €65 million



STRENGTHEN EU'S INDUSTRY PREPAREDNESS AND COMPETITIVENESS IN THE AREA OF PANDEMIC SAFETY TECHNOLOGIES.

Facilitating social interaction in the context of pandemic emergencies by one or more approaches :

- Full systems for high-efficiency aerosol capture, pathogen deactivation and air circulation management in closed-environments.
- Next-generation face mask technologies with smart filtration materials and with improved retention/rejection of sub-micron particles.
- Rapid surface decontamination devices beyond state-of-the-art UV-C irradiation systems and biocidal agent dispersion.



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Energy storage.



Budget : €100 million



TRANSFORM THE EU INTO A RESOURCE-EFFICIENT ECONOMY AND ENSURE INCREASING EUROPE'S ENERGY INDEPENDENCE FROM UNRELIABLE SUPPLIERS AND VOLATILE FOSSIL FUELS WHILE PRESERVING EUROPE'S NATURAL ENVIRONMENT AND TACKLING CLIMATE CHANGE.

Groundbreaking innovations meeting the following objectives:

- To store electric and/or thermal energy at low cost, high density, high charging/discharging efficiency and enhanced durability.
- To design technological approaches for energy storage at different scales, duration and uses.
- To develop technologies minimising their carbon footprint, and integrated into products and services embrace circular and life cycle thinking approach supporting transition to a circular economy.



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Work Programme 2023

EIC Accelerator Challenge

New European Bauhaus and Architecture, Engineering and Construction (AEC) sector digitalisation for decarbonisation.



Budget : €65 million



PROVIDE TRANSFORMATIVE DIGITAL PRODUCTS OR DIGITALLY ENABLED SOLUTIONS FOR THE ARCHITECTURE, ENGINEERING AND CONSTRUCTION SECTOR.

Contributing to climate neutrality and human-centred quality values and principles of the New European Bauhaus:

- Building AEC value chains of the future by delivering digitally enabled AEC products and services in the areas of computational design, digital fabrication and alternative materials, leading to reduction or elimination of embedded building emissions;
- Aiming additionally at higher productivity, higher product quality, reduced material consumption and waste, improved construction logistic in the urban environment or increased safety.



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Work Programme 2023

EIC Accelerator Challenge

Emerging semiconductor or quantum technology components.



Budget : €100 million



A. SUPPORT THE EU IN TAKING A LEADING ROLE IN THE DEVELOPMENT OF CUTTING-EDGE QUANTUM COMPUTING, QUANTUM SENSING AND QUANTUM COMMUNICATIONS.

- Development of emerging fault-tolerant quantum computing hardware components, quantum sensors that work in real environment, as well as quantum communication devices that can be deployed in a real environment for practical applications.



B. SUPPORT THE DESIGN AND DEVELOPMENT OF INNOVATIVE SEMI-CONDUCTOR COMPONENTS AND INTELLECTUAL PROPERTY FOR ANALOGUE AND DIGITAL INTEGRATED CIRCUITS AND SYSTEMS.

- 1) Memory, logic, optical components, and sensors for AI, edge computing, IoT, electric and autonomous vehicles, 5G/6G, cybersecurity, health/wellness, environmental sustainability etc.,
- 2) Innovative design approaches addressing combination of different functionalities such as computing, RF, power, memory and sensing and
- 3) Advanced chips design



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Work Programme 2023

EIC Accelerator Challenge

Novel technologies for resilient agriculture.



Budget : €65 million



PROVIDE SOLUTIONS FOR A SUSTAINABLE AGRICULTURAL AND FOOD PRODUCTION SYSTEM RESILIENT TO ENVIRONMENTAL AND SOCIAL DISRUPTIONS.

- Interdisciplinary solutions for regenerative agriculture and soil health in the areas of sustainable fertilisation, crop protection, irrigation, soil management, protection and restoration, crop and livestock management.
- Novel processes, materials, equipment, management practises and microorganisms adapted to harsh environments, climate adaptation needs and resource scarcity.



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Work Programme 2023

EIC Accelerator Challenge

Customer-driven, innovative space technologies and services.



Budget : €65 million



STRENGTHENING EU STRATEGIC AUTONOMY IN SERVICING AND PROTECTING ITS SPACE INFRASTRUCTURE AND ENHANCING THE COMPETITIVENESS OF ITS SPACE INDUSTRY.

- To inspect spacecraft in orbit, to augment satellite capabilities and resilience;
- To develop autonomous and in-space capabilities for collision avoidance and mobility propulsion;
- To further mature in-orbit assembly and manufacturing;
- To collect space debris with a view for recycling, recovering and transforming purposes;
- To design and construct a R&I LEO unmanned platform assembled in orbit and to host in-orbit microgravity experiments or collect/re-use space debris;
- To scale up disruptive innovations for space situational awareness, in-space logistics, Earth observation, navigation, satellite communications (SATCOM), and others.



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