



New calls are available at EuroAccess!

Within the framework of the **LIFE** programme, EU's funding instrument for the environment and climate action, the first calls of the period 2021-2027 have been published.

LIFE is one of the key contributors to the European Green Deal which aims to:

- transform the EU into a fair and prosperous society, with a modern, resource-efficient and competitive economy where there are no net emissions of greenhouse gases in 2050 and where economic growth is decoupled from resource use and
- protect, conserve and enhance the EU's natural capital, and protect the health and well-being of citizens from environment and climate related risks and impacts.

The **LIFE** Programme will contribute to these priorities through its four sub-programmes, in particular by:

- boosting and integrating the implementation of the EU's policy objectives for halting and reversing loss of wildlife habitats and species across all sectors
- supporting the transition to a circular economy and protecting and improving the quality of EU's natural resources, including air, soil and water among others
- supporting implementation of the 2030 energy and climate policy framework, the EU's climate neutrality objective by 2050, and the new EU strategy on adaptation to climate change and
- building capacity, stimulating investments and supporting implementation of policies focused on energy efficiency and small-scale renewables.

The **LIFE** Programme is structured in two fields and four sub-programmes:

Environment:

- sub-programme Nature and Biodiversity aiming at the protection and restoration of Europe's nature and halting and reversing biodiversity loss
- sub-programme Circular Economy and Quality of Life aiming at facilitating the transition toward a sustainable, circular, toxic-free, energy-efficient and climate-resilient economy and at protecting, restoring and improving the quality of the environment, either through direct interventions or by supporting the integration of those objectives in other policies

Climate Action:

- sub-programme Climate Change Mitigation and Adaptation aiming at contributing to the shift towards a sustainable, energy-efficient, renewable energy-based, climate-neutral and resilient economy, thereby contributing to sustainable development
- sub-programme Clean Energy Transition, building on the success of the Intelligent Energy Europe (2003-2013) and Horizon 2020 Energy Efficiency (2014-2020)

programmes, continues to support the delivery of EU policies in the field of sustainable energy, in particular, the European Green Deal, the Energy Union (2030 energy and climate targets) and the European Union's 2050 long-term decarbonisation strategy.

Following calls, which could be interesting for you, are published:

[Climate Change Mitigation](#)

[Climate Change Adaptation](#)

[Circular Economy, resources from Waste, Air, Water, Soil, Noise, Chemicals, Bauhaus](#)

[Climate Governance and Information](#)

[Technical Assistance preparation of CLIMA SIPs](#)

[Technical Assistance preparation of ENV SIPs](#)

[Technical Assistance preparation of SNAPs](#)

[Nature Governance](#)

[Nature and Biodiversity](#)

[Strategic Nature Projects](#)

[Strategic Integrated Projects - Environment](#)

[Strategic Integrated Projects - Climate Action](#)

[Environment governance](#)

[Community-driven clean energy transition in coal, peat and oil-shale regions](#)

[Multilevel climate and energy dialogue to deliver the energy governance](#)

[Technical support to clean energy transition plans and strategies in municipalities and regions](#)

[BUILD UP Skills – rebooting the National Platforms and Roadmaps](#)

[EU community of "Integrated Home Renovation Services" practitioners](#)

[Mainstreaming sustainable energy finance and integrating energy performance in EU sustainable finance criteria and standards](#)

[Disruptive PDA – Technical Assistance to advance market boundaries for sustainable energy investments](#)

[Addressing building related interventions for vulnerable districts](#)

[Developing support mechanisms for energy communities and other citizen-led initiatives in the field of sustainable energy](#)

[Large-scale rollout of industrialised deep renovation solutions](#)

[Facing the increase in cooling demand of buildings in the coming years](#)

[Establish innovative business models and contractual schemes for smart and sector-integrating energy services](#)

[Innovative financing schemes for sustainable energy investments](#)

[Towards an effective implementation of key legislation in the field of sustainable energy](#)

[Creating the conditions for a global improvement of smart readiness of European buildings](#)

[Uptake of energy audits recommendations for the energy transition of companies](#)

[Fostering sustainable energy uptake along the whole value chain in industry and services](#)

[Integrated Home Renovation Services](#)

[Operating grants Framework partnerships](#)

[SGA LIFE operating grants](#)

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Within the framework of the **Horizon Europe** a large number of calls have been published. Thus, the information provided is split into the the different clusters of **Pillar II - Global Challenges and European Industrial Competitiveness**.

The first set of calls covers **Cluster 1 - Health**. The aims of this cluster include improving and protecting the health and well-being of citizens of all ages by generating new knowledge, developing innovative solutions and integrating where relevant a gender perspective to prevent, diagnose, monitor, treat and cure diseases.

Further aims include developing health technologies, mitigating health risks, protecting populations and promoting good health and well-being in general and at work.

Finally, this cluster also aims to make public health systems more cost-effective, equitable and sustainable, prevent and tackle poverty-related diseases and support and enable patients' participation and self-management.

Areas of intervention

- health throughout the life course
- environmental and social health determinants
- non-communicable and rare diseases
- infectious diseases including poverty-related and neglected diseases
- tools, technologies and digital solutions for health and care including personalised medicine
- health care systems

Following calls, which could be interesting for you, are published:

[A roadmap for personalised prevention](#)

[Towards a molecular and neurobiological understanding of mental health and illness](#)

[Mobilising a network of National Contact Points \(NCPs\) for the Health Cluster](#)

[Healthy Citizens 2.0 - Supporting digital empowerment and health literacy of citizens](#)

[Exposure to electromagnetic fields \(EMF\) and health](#)

[Indoor air quality and health](#)

[Health impacts of climate change, costs and benefits of action and inaction](#)

[European partnership for the assessment of risks from chemicals \(PARC\)](#)

[Improved supportive, palliative, survivorship and end-of-life care of cancer patients](#)

[Building a European innovation platform for the repurposing of medicinal products](#)

[Innovative approaches to enhance poverty-related diseases research in sub-Saharan Africa](#)

[Clinical validation of artificial intelligence \(AI\) solutions for treatment and care](#)

[Personalised medicine and infectious diseases: understanding the individual host response to viruses \(e.g. SARS-CoV-2\)](#)

[A roadmap towards the creation of the European partnership on One Health antimicrobial resistance \(OH AMR\)](#)

[Building a European partnership for pandemic preparedness](#)

[Enhancing quality of care and patient safety](#)

[Data-driven decision-support tools for better health care delivery and policy-making with a focus on cancer](#)

[Health care innovation procurement network](#)

[Next generation advanced therapies to treat highly prevalent and high burden diseases with unmet medical needs](#)

[Innovative tools for use and re-use of health data \(in particular of electronic health records and/or patient registries\)](#)

[Smart medical devices and their surgical implantation for use in resource-constrained settings](#)

[Green pharmaceuticals](#)

[Development, procurement and responsible management of new antimicrobials](#)

[Promoting a trusted mHealth label in Europe: uptake of technical specifications for quality and reliability of health and wellness apps](#)

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The second set of calls covers **Cluster 2 - Culture, Creativity and Inclusive society**. This cluster aims to strengthen European democratic values, including rule of law and fundamental rights, safeguarding our cultural heritage, and promoting socio-economic transformations that contribute to inclusion and growth.

Areas of intervention

- democracy
- cultural heritage
- social and economic transformations

Following calls, which could be interesting for you, are published:

[The future of liberal democracy in Europe](#)

[Economic models and modern democracies](#)

[Feminisms for a new age of democracy](#)

[Democratic politics in the EU's neighbourhood](#)

[Politics and governance in a post-pandemic world](#)

[Green technologies and materials for cultural heritage](#)

[New ways of participatory management and sustainable financing of museums and other cultural institutions](#)

[Cultural and creative industries as a driver of innovation and competitiveness](#)

[Preserving and enhancing cultural heritage with advanced digital technologies](#)

[Mobilising the network of National Contact Points in Cluster 2](#)

[Coordination of European cultural heritage research and innovation among Member States](#)

[Estimates of irregular migrants in Europe - stakeholder network](#)

[Providing support in a changing world of work and social protection](#)

[Determining key drivers of inequality trends](#)

[Addressing poor learning outcomes in basic skills and early school leaving at national, regional and local level in Europe](#)

[Integration of emerging new technologies into education and training](#)

[Towards a new normal? Employment and social impacts of changing supply chains and declining trade intensities](#)

[Upgrading Independent Knowledge on Contemporary China in Europe](#)

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The twelfth set of calls covers **Cluster 3 - Civil security for society**. This cluster responds to the challenges arising from persistent security threats, including cybercrime, as well as natural and man-made disasters.

Areas of intervention

- disaster-resilient societies
- protection and security
- cybersecurity

Following calls, which could be interesting for you, are published:

[Terrorism and other forms of serious crime countered using travel intelligence](#)

[Disinformation and fake news are combated and trust in the digital world is raised](#)

[Lawful interception using new and emerging technologies \(5G & beyond, quantum computing and encryption\)](#)

[Improved access to fighting crime and terrorism research data](#)

[Modern biometrics used in forensic science and by police](#)

[Domestic and sexual violence are prevented and combated](#)

[Improved preparedness on attacks to public spaces](#)

[Fight against trafficking in cultural goods](#)

[Fight against organised environmental crime](#)

[Fight against firearms trafficking](#)

[Prevention of child sexual exploitation](#)

[Online identity theft is countered](#)

[Enhanced security and management of borders, maritime environment, activities and transport, by increased surveillance capability, including high altitude, long](#)

endurance aerial support

Increased safety, security, performance of the European Border and Coast Guard and of European customs authorities

Improved border checks for travel facilitation across external borders and improved experiences for both passengers and border authorities' staff

Advanced detection of threats and illicit goods in postal and express courier flows

Improved detection of concealed objects on, and within the body of, persons

Dynamic business continuity and recovery methodologies based on models and prediction for multi-level Cybersecurity

Improved security in open-source and open-specification hardware for connected devices

AI for cybersecurity reinforcement

Scalable privacy-preserving technologies for cross-border federated computation in Europe involving personal data

Improved understanding of risk exposure and its public awareness in areas exposed to multi-hazards

Integrated Disaster Risk Reduction for extreme climate events: from early warning systems to long term adaptation and resilience building

Enhanced assessment of disaster risks, adaptive capabilities and scenario building based on available historical data and projections

Developing a prioritisation mechanism for research programming in standardisation related to natural hazards and/or CBRN-E sectors

Fast deployed mobile laboratories to enhance situational awareness for pandemics and emerging infectious diseases

A maturity assessment framework for security technologies

Knowledge Networks for Security Research & Innovation

National Contact Points (NCPs) in the field of security and cybersecurity

Demand-led innovation for situation awareness in civil protection

Security research technologies driven by active civil society engagement: transdisciplinary methods for societal impact assessment and impact creation

European infrastructures and their autonomy safeguarded against systemic risks

[Ensured infrastructure resilience in case of Pandemics](#)

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The sixth set of calls covers **Cluster 4 - Digital, Industry and Space (Destination 1 - Climate Neutral, Circular and Digitised Production and Destination 2 - Increased Autonomy in Key Strategic Value Chains for Resilient Industry)**. The overarching vision behind the proposed investments under Cluster 4 is that of Europe shaping competitive and trusted technologies for a European industry with global leadership in key areas, enabling production and consumption to respect the boundaries of our planet, and maximising the benefits for all parts of society in the variety of social, economic and territorial contexts in Europe. This will build a competitive, digital, low-carbon and circular industry, ensure sustainable supply of raw materials, develop advanced materials and provide the basis for advances and innovation in global challenges to society.

Areas of intervention

- manufacturing technologies
- key digital technologies including quantum technologies
- emerging enabling technologies
- advanced materials
- artificial intelligence and robotics
- next generation internet
- advanced computing and Big Data
- circular industries
- low carbon and clean industries
- space including earth observation

Following calls, which could be interesting for you, are published:

[AI enhanced robotics systems for smart manufacturing \(AI, Data and Robotics - Made in Europe Partnerships\)](#)

[Zero-defect manufacturing towards zero-waste \(Made in Europe Partnership\)](#)

[Laser-based technologies for green manufacturing \(Photonics - Made in Europe Partnerships\)](#)

[Manufacturing technologies for bio-based materials \(Made in Europe Partnership\)](#)

[Artificial Intelligence for sustainable, agile manufacturing \(AI, Data and Robotics - Made in Europe Partnerships\)](#)

[Data-driven Distributed Industrial Environments \(Made in Europe Partnership\)](#)

[Digital permits and compliance checks for buildings and infrastructure](#)

[Automated tools for the valorisation of construction waste](#)

[Breakthrough technologies supporting technological sovereignty in construction](#)

[Deploying industrial-urban symbiosis solutions for the utilization of energy, water, industrial waste and by-products at regional scale \(Processes4Planet Partnership\)](#)

[Hubs for Circularity European Community of Practice \(ECoP\) platform \(Processes4Planet Partnership\)](#)

[Plastic waste as a circular carbon feedstock for industry \(Processes4Planet Partnership\)](#)

[Carbon Direct Avoidance in steel: Electricity and hydrogen-based metallurgy \(Clean Steel Partnership\)](#)

[Improvement of the yield of the iron and steel making \(Clean Steel Partnership\)](#)

[Reducing environmental footprint, improving circularity in extractive and processing value chains](#)

[Design and optimisation of energy flexible industrial processes \(Processes4Planet Partnership\)](#)

[Adjustment of Steel process production to prepare for the transition towards climate neutrality \(Clean Steel Partnership\)](#)

[Ensuring circularity of composite materials \(Processes4Planet Partnership\)](#)

[Identifying future availability of secondary raw materials](#)

[Developing climate-neutral and circular raw materials](#)

[Building EU-Africa partnerships on sustainable raw materials value chains](#)

[Innovation for responsible EU sourcing of primary raw materials, the foundation of the Green Deal](#)

[Building innovative value chains from raw materials to sustainable products](#)

[Establishing EU led international community on safe- and sustainable-by-design materials to support embedding sustainability criteria over the life cycle of products and processes](#)

[Promote Europe's availability, affordability, sustainability and security of supply of essential chemicals and materials](#)

[Paving the way to an increased share of recycled plastics in added value products](#)

[Safe- and sustainable-by-design polymeric materials](#)

[Safe- and sustainable-by-design metallic coatings and engineered surfaces](#)

[Development of more energy efficient electrically heated catalytic reactors](#)

[Creation of an innovation community for solar fuels and chemicals](#)

[Advanced materials for hydrogen storage](#)

[Antimicrobial, Antiviral, and Antifungal Nanocoatings](#)

[Biomaterials database for Health Applications](#)

[Sustainable Industry Commons](#)

[Innovation Radar, Tech Due Diligence and Venture Building for strategic digital technologies](#)

[Re-opening industrial sites preparatory action – Promoting a sustainable strategy for Europe's industrial future](#)

['Innovate to transform' support for SME's sustainability transition](#)

[European Technological and Social Innovation Factory](#)

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The seventh set of calls covers **Cluster 4 - Digital, Industry and Space (Destination 3 - World Leading Data and Computing Technologies and Destination 4 - Digital and Emerging Technologies for Competitiveness and Fit for the Green Deal)**. The overarching vision behind the proposed investments under Cluster 4 is that of Europe shaping competitive and trusted technologies for a European industry with global leadership in key areas, enabling production and consumption to respect the boundaries of our planet, and maximising the benefits for all parts of society in the variety of social, economic and territorial contexts in Europe. This will build a competitive, digital, low-carbon and circular industry, ensure sustainable supply of raw materials, develop advanced materials and provide the basis for advances and innovation in global challenges to society.

Areas of intervention

- manufacturing technologies
- key digital technologies including quantum technologies
- emerging enabling technologies
- advanced materials
- artificial intelligence and robotics
- next generation internet
- advanced computing and Big Data
- circular industries
- low carbon and clean industries
- space including earth observation

Following calls, which could be interesting for you, are published:

[Technologies and solutions for compliance, privacy preservation, green and responsible data operations \(AI, Data and Robotics Partnership\)](#)

[Technologies for data management \(AI, Data and Robotics Partnership\)](#)

[Future European platforms for the Edge: Meta Operating Systems](#)

[Coordination and Support of the 'Cloud-Edge-IoT' domain](#)

[Roadmap for next generation computing and systems technologies](#)

[Open Source Hardware for ultra-low-power, secure processors](#)

[Ultra-low-power, secure processors for edge computing](#)

[Advanced optical communication components \(Photonics Partnership\)](#)

[Advanced Photonic Integrated Circuits \(Photonics Partnership\)](#)

[AI, Data and Robotics for the Green Deal \(AI, Data and Robotics Partnership\)](#)

[AI, Data and Robotics at work \(AI, Data and Robotics Partnership\)](#)

[Pushing the limit of robotics cognition \(AI, Data and Robotics Partnership\)](#)

[European Network of Excellence Centres in Robotics](#)

[Academia-Industry Forum on Emerging Enabling Technologies](#)

[Advanced spintronics: Unleashing spin in the next generation ICs](#)

[Next generation quantum sensing technologies](#)

[International cooperation with Canada](#)

[Coordination of European Smart Network actions](#)

[Development of technologies/devices for bio-intelligent manufacturing](#)

[Investing in new emerging quantum computing technologies](#)

[Functional electronics for green and circular economy](#)

[Support and coordination of the Quantum Technologies Flagship Initiative](#)

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The eighth set of calls covers **Cluster 4 - Digital, Industry and Space (Destination 6 - A Human-centred and Ethical Development of Digital and Industrial Technologies)**. The overarching vision behind the proposed investments under Cluster 4 is that of Europe shaping competitive and trusted technologies for a European industry with global leadership in key areas, enabling production and consumption to respect the boundaries of our planet, and maximising the benefits for all parts of society in the variety of social, economic and territorial contexts in Europe. This will build a competitive, digital, low-carbon and circular industry, ensure sustainable supply of raw materials, develop advanced materials and provide the basis for advances and innovation in global challenges to society.

Areas of intervention

- manufacturing technologies
- key digital technologies including quantum technologies
- emerging enabling technologies
- advanced materials
- artificial intelligence and robotics
- next generation internet
- advanced computing and Big Data
- circular industries
- low carbon and clean industries
- space including earth observation

Following calls, which could be interesting for you, are published:

[Verifiable robustness, energy efficiency and transparency for Trustworthy AI: Scientific excellence boosting industrial competitiveness \(AI, Data and Robotics Partnership\)](#)

[European coordination, awareness, standardisation & adoption of trustworthy European AI, Data and Robotics \(AI, Data and Robotics Partnership\)](#)

[European Network of AI Excellence Centres: Pillars of the European AI lighthouse](#)

[Trust & data sovereignty on the Internet](#)

[Trustworthy open search and discovery](#)

[Innovation for Media, including eXtended Reality \(IA\)](#)

[Next Generation Internet community-building and outreach](#)

[NGI International Collaboration - Transatlantic fellowship programme](#)

[NGI Tech Review](#)

[eXtended Reality Modelling](#)

[Awareness raising on Intellectual property \(IP\) management for European R&I](#)

[eXtended Reality for All – Haptics](#)

[Fostering standardisation to boost European industry's competitiveness](#)

[Testing innovative solutions on local communities' demand](#)

[Piloting a new industry-academia knowledge exchange focussing on companies' needs](#)

[Art-driven use experiments and design](#)

[Tackling gender, race and other biases in AI](#)

[eXtended Collaborative Telepresence](#)

[Workforce skills for industry 5.0](#)

[AI to fight disinformation](#)

[eXtended Reality Ethics, Interoperability and Impact](#)

[Support for transnational activities of National Contact Points in the thematic area of Digital](#)

[Support for transnational activities of National Contact Points in the thematic area of Industry](#)

[Support for transnational activities of National Contact Points in the thematic area of Space](#)

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The fourth set of calls covers **Cluster 5 - Climate, Energy and Mobility (Destination 1 - Climate Sciences and Responses for the Transformation towards Climate Neutrality and Destination 2 - Cross-sectoral Solutions for the Climate Transition)**. This clusters aims to fight climate change by better understanding its causes, evolution, risks, impacts and opportunities, and by making the energy and transport sectors more climate and environment-friendly, more efficient and competitive, smarter, safer and more resilient.

Areas of intervention

- climate science and solutions
- energy supply
- energy systems and grids
- buildings and industrial facilities in energy transition
- communities and cities
- industrial competitiveness in transport
- clean, safe and accessible transport and mobility
- smart mobility
- energy storage

Following calls, which could be interesting for you, are published:

[Improved understanding of greenhouse gas fluxes and radiative forcers, including carbon dioxide removal technologies](#)

[Modelling the role of the circular economy for climate change mitigation](#)

[Maximising the impact and synergy of European climate change research and innovation](#)

[Enhanced integrated assessment in pursuit of global climate goals](#)

[Better understanding of the interactions between climate change impacts and risks, mitigation and adaptation options](#)

[Supporting and standardising climate services](#)

[Improved economic methods for decision-making on climate and environmental policies](#)

[Restoration of natural wetlands, peatlands and floodplains as a strategy for fast mitigation benefits; pathways, trade-offs and co-benefits](#)

[The contribution of forest management to climate action: pathways, trade-offs and co-benefits](#)

[Sustainable processing, refining and recycling of raw materials \(Batteries Partnership\)](#)

[Advanced high-performance Generation 3b \(high capacity / high voltage\) Li-ion batteries supporting electro mobility and other applications \(Batteries Partnership\)](#)

[Advanced high-performance Generation 4a, 4b \(solid-state\) Li-ion batteries supporting electro mobility and other applications \(Batteries Partnership\)](#)

[Manufacturing technology development for solid-state batteries \(SSB, Generations 4a - 4b batteries\) \(Batteries Partnership\)](#)

[Environmentally sustainable processing techniques applied to large scale electrode and cell component manufacturing for Li ion batteries \(Batteries Partnership\)](#)

[Sustainable, safe and efficient recycling processes \(Batteries Partnership\)](#)

[Support for establishment of R&I ecosystem, developing strategic forward-looking orientations to ensure future skills development, knowledge and technological leadership](#)

[Emerging technologies for a climate neutral Europe](#)

[Methane cracking to usable hydrogen and carbon](#)

[Technologies for non- CO2 greenhouse gases removal](#)

[Direct atmospheric carbon capture and conversion](#)

[Fostering a just transition in Europe](#)

[Strengthening Social Sciences and Humanities \(SSH\) research communities in climate, energy and mobility disciplines](#)

[Accelerating the climate transition in difficult contexts: transition super-labs \(pilot\)](#)

[Fostering cooperation between Horizon Europe cluster 5 National Contact Points \(NCPs\)](#)

[Co-Funded Partnership: Driving Urban Transitions to a sustainable future \(DUT\)](#)

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The fifth set of calls covers **Cluster 5 - Climate, Energy and Mobility (Destination 3 - Sustainable, Secure and Competitive Energy Supply and Destination 4 - Efficient, Sustainable and Inclusive Energy Use)**. This clusters aims to fight climate change by better understanding its causes, evolution, risks, impacts and opportunities, and by making the energy and transport sectors more climate and environment-friendly, more efficient and competitive, smarter, safer and more resilient.

Areas of intervention

- climate science and solutions
- energy supply
- energy systems and grids
- buildings and industrial facilities in energy transition
- communities and cities
- industrial competitiveness in transport
- clean, safe and accessible transport and mobility
- smart mobility
- energy storage

Following calls, which could be interesting for you, are published:

[Establish the grounds for a common European energy data space](#)

[Laying down the basis for the demonstration of a Real Time Demonstrator of Multi-Vendor Multi-Terminal HVDC with Grid Forming Capability: Coordinated action](#)

[Interoperability community](#)

[Clean Energy Transition](#)

[Demonstration of wave energy devices to increase experience in real sea condition](#)

[Sustainability and educational aspects for renewable energy and renewable fuel technologies](#)

[Market Uptake Measures of renewable energy systems](#)

[Novel tandem, high efficiency Photovoltaic technologies targeting low cost production with earth abundant materials](#)

[Electricity system reliability and resilience by design: High-Voltage, Direct Current \(HVDC\)-based systems and solutions](#)

[Increasing energy system flexibility based on sector-integration services to consumers \(that benefits system management by DSOs and TSOs\)](#)

[Reliability and resilience of the grid: Measures for vulnerabilities, failures, risks and privacy](#)

[Energy Sector Integration: Integrating and combining energy systems to a cost-optimised and flexible energy system of systems](#)

[Demonstration of superconducting systems and elpipes](#)

[Demonstration of advanced Power Electronics for application in the energy sector](#)

[Reinforcing digitalisation related know how of local energy ecosystems](#)

[Integration of CCUS in hubs and clusters, including knowledge sharing activities](#)

[Cost reduction of CO2 capture \(new or improved technologies\)](#)

[Support to the activities of the European Geological Services](#)

[Support to the activities of the ETIPs and technology areas of the SET Plan](#)

[Advanced energy performance assessment and certification](#)

[Industrialisation of deep renovation workflows for energy-efficient buildings](#)

[Advanced data-driven monitoring of building stock energy performance](#)

[Full-scale demonstration of heat upgrade technologies with supply temperature in the range 90 - 160°C](#)

[Industrial excess \(waste\) Heat-to-Power conversion based on organic Rankine cycles](#)

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The third set of calls covers **Cluster 5 - Climate, Energy and Mobility (Destination 5 - Clean and Competitive Solutions for all Transport Modes and Destination 6 - Safe, Resilient Transport and Smart Mobility Services for Passengers and Goods)**. This clusters aims to fight climate change by better understanding its causes, evolution, risks, impacts and opportunities, and by making the energy and transport sectors more climate and environment-friendly, more efficient and competitive, smarter, safer and more resilient.

Areas of intervention

- climate science and solutions
- energy supply
- energy systems and grids
- buildings and industrial facilities in energy transition
- communities and cities
- industrial competitiveness in transport
- clean, safe and accessible transport and mobility
- smart mobility
- energy storage

Following calls, which could be interesting for you, are published:

[Nextgen vehicles: Innovative zero emission BEV architectures for regional medium freight haulage \(2ZERO\)](#)

[Nextgen EV components: Integration of advanced power electronics and associated controls \(2ZERO\)](#)

[System approach to achieve optimised Smart EV Charging and V2G flexibility in mass-deployment conditions \(2ZERO\)](#)

[LCA and design for sustainable circularity - holistic approach for zero-emission mobility solutions and related battery value chain \(2ZERO & Batteries Partnership\)](#)

[Greenhouse gas aviation emissions reduction technologies towards climate neutrality by 2050](#)

[Next generation digital aircraft transformation in design, manufacturing, integration and maintenance](#)

[Enabling the safe and efficient on-board storage and integration within ships of large quantities of ammonia and hydrogen fuels \(ZEWT Partnership\)](#)

[Enabling the full integration of very high power fuel cells in ship design using co-generation and combined cycle solutions for increased efficiency with multiple fuels \(ZEWT Partnership\)](#)

[CSA identifying waterborne sustainable fuel deployment scenarios \(ZEWT Partnership\)](#)

[Innovative on-board energy saving solutions \(ZEWT Partnership\)](#)

[Hyper powered vessel battery charging system \(ZEWT Partnership\)](#)

[Assessing and preventing methane slip from LNG engines in all conditions within both existing and new vessels \(ZEWT Partnership\)](#)

[Digital Twin models to enable green ship operations \(ZEWT Partnership\)](#)

[Proving the feasibility of a large clean ammonia marine engine \(ZEWT Partnership\)](#)

[Development and demonstration of cost affordable and adaptable retrofit solutions for tailpipe and brake polluting emissions](#)

[Assessment of noise and particle emissions of L category vehicles from real driving conditions](#)

[More powerful and reliable on-board perception and decision-making technologies addressing complex environmental conditions \(CCAM Partnership\)](#)

[Common approaches for the safety validation of CCAM systems \(CCAM Partnership\)](#)

[Physical and Digital Infrastructure \(PDI\), connectivity and cooperation enabling and supporting CCAM \(CCAM Partnership\)](#)

[Cyber secure and resilient CCAM \(CCAM Partnership\)](#)

[Analysis of socio-economic and environmental impacts and assessment of societal, citizen and user aspects for needs based CCAM solutions \(CCAM Partnership\)](#)

[Framework for better coordination of large-scale demonstration pilots in Europe and EU-wide knowledge base \(CCAM Partnership\)](#)

[More efficient and effective multimodal freight transport nodes to increase flexibility, service visibility and reduce the average cost of freight transport](#)

[New delivery methods and business/operating models to green the last mile and optimise road transport](#)

[Climate resilient and environmentally sustainable transport infrastructure, with a focus on inland waterways](#)

[Testing safe lightweight vehicles and improved safe human-technology interaction in the future traffic system](#)

[Radical improvement of road safety in low and medium income countries in Africa](#)

[Controlling infection on large passenger ships](#)

[Safe automation and human factors in aviation – intelligent integration and assistance](#)

[Support for dissemination events in the field of Transport Research](#)

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New calls are available at EuroAccess!

Within the framework of the **Horizon Europe** programme a large number of calls have been published. Thus, the information provided is split into the different clusters of **Pillar II - Global Challenges and European Industrial Competitiveness**.

The ninth set of calls covers **Cluster 6 - Food, Bioeconomy, Natural Resources, Agriculture and Environment (Destination 1 - Biodiversity and Ecosystem Services and Destination 2 - Fair, Healthy and Environmentally-friendly Food Systems from Primary Production to Consumption)**. This cluster aims at reducing environmental degradation, halting and reversing the decline of biodiversity on land, inland waters and sea and better managing natural resources through transformative changes of the economy and society in both urban and rural areas. It will ensure food and nutrition security for all within planetary boundaries through knowledge, innovation and digitalisation in agriculture, fisheries, aquaculture and food systems and steer and accelerate the transition to a low carbon, resource efficient circular economy and sustainable bioeconomy, including forestry.

Areas of intervention

- environmental observation
- biodiversity and natural resources
- agriculture, forestry and rural areas
- seas, oceans and inland waters
- food systems
- bio-based innovation systems in the EU's bioeconomy
- circular systems

Following calls, which could be interesting for you, are published:

[European participation in global biodiversity genomics endeavours aimed at identifying all biodiversity on Earth](#)

[Data and technologies for the inventory, fast identification and monitoring of endangered wildlife and other species groups](#)

[Understanding and valuing coastal and marine biodiversity and ecosystems services](#)

[Assess and predict integrated impacts of cumulative direct and indirect stressors on coastal and marine biodiversity, ecosystems and their services](#)

[The economics of nature-based solutions: cost-benefit analysis, market development and funding](#)

[Nature-based solutions, prevention and reduction of risks and the insurance sector](#)

[Ecosystems and their services for an evidence-based policy and decision-making](#)

[Supporting the development of a coherent and resilient Trans-European Nature Network](#)

[Supporting the development of a coherent and resilient Trans-European Nature Network](#)

[Demonstration of measures and management for coastal and marine ecosystems restoration and resilience in simplified socio-ecological systems](#)

[What else is out there? Exploring the connection between biodiversity, ecosystems services, pandemics and epidemic risk](#)

[Improved science based maritime spatial planning and identification of marine protected areas](#)

[Breeding for resilience: focus on root-based traits](#)

[Fostering organic crop breeding](#)

[Quantify impacts of the trade in raw and processed biomass on ecosystems, for offering new leverage points for biodiversity conservation, along supply chains, to reduce leakage effects](#)

[Biodiversity, water, food, energy, transport, climate and health nexus in the context of transformative change](#)

[Policy mixes, governance \(including financing\) and decision-making tools for transformative action on biodiversity](#)

[Understanding the impacts of and the opportunities offered by digital transformation, new emerging technologies and social innovation on biodiversity](#)

[A mechanism for science to inform implementation, monitoring, review and ratcheting up of the new EU biodiversity strategy for 2030 \('Science Service'\)](#)

[Support to processes triggered by IPBES and IPCC](#)

[Impact and dependence of business on biodiversity](#)

[Reaching the farm to fork target: R&I scenarios for boosting organic farming and organic aquaculture in Europe](#)

[Developing sustainable and competitive land-based protein crop systems and value chains](#)

[Digitalisation as an enabler of agroecological farming systems](#)

[Tackling outbreaks of plant pests](#)

[Animal welfare 2.0](#)

[Vaccines and diagnostics for priority animal diseases](#)

[Research & innovation roadmap for blockchain technologies in the agri-food sector](#)

[Uncovering lock-ins and levers to encourage farmers to move to and stay in sustainable, climate-neutral and biodiversity-friendly farming systems: from experiments to systemic mechanisms](#)

[Towards an EU approach to assess and internalise positive and negative externalities of food for incentivising sustainable choices](#)

[Sea to fork transparency and consumer engagement](#)

[Digital transition supporting inspection and control for sustainable fisheries](#)

[Filling knowledge gaps on the nutritional, safety, allergenicity and environmental assessment of alternative proteins and dietary shift](#)

[Evidence-based decision-making to change social norms towards zero food waste](#)

[Microbes for healthy and sustainable food and diets](#)

[Transition to healthy and sustainable dietary behaviour](#)

[Identification, assessment and management of existing and emerging food safety issues](#)

[Increasing the transparency of EU food systems to boost health, sustainability and safety of products, processes and diets](#)

[One Health approach for Food Nutrition Security and Sustainable Agriculture \(FNSSA\)](#)

[EU-China international cooperation on integrated pest management in agriculture](#)

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The tenth set of calls covers **Cluster 6 - Food, Bioeconomy, Natural Resources, Agriculture and Environment (Destination 3 - Circular Economy and Bioeconomy Sectors, Destination 4 - Clean Environment and Zero Pollution and Destination 5 - Land, Oceans and Water for Climate Action)**. This cluster aims at reducing environmental degradation, halting and reversing the decline of biodiversity on land, inland waters and sea and better managing natural resources through transformative changes of the economy and society in both urban and rural areas. It will ensure food and nutrition security for all within planetary boundaries through knowledge, innovation and digitalisation in agriculture, fisheries, aquaculture and food systems and steer and accelerate the transition to a low carbon, resource efficient circular economy and sustainable bioeconomy, including forestry.

Areas of intervention

- environmental observation
- biodiversity and natural resources
- agriculture, forestry and rural areas
- seas, oceans and inland waters
- food systems
- bio-based innovation systems in the EU's bioeconomy
- circular systems

Following calls, which could be interesting for you, are published:

[Circular Cities and Regions Initiative \(CCRI\)'s circular systemic solutions](#)

[Circular Cities and Regions Initiative's project development assistance \(CCRI-PDA\)](#)

[Innovative solutions to over-packaging and single-use plastics, and related microplastic pollution](#)

[Increasing the circularity in textiles, plastics and/or electronics value chains](#)

[Novel, non-plant biomass feedstocks for industrial applications](#)

[Contained biomass solutions for sustainable and zero-Indirect Land Use Change \(ILUC\) production systems for high value applications](#)

[Microbiomes for bio-based innovation and environmental applications](#)

[Mainstreaming inclusive small-scale bio-based solutions in European rural areas](#)

[Unlocking the potential of algae for a thriving European blue bioeconomy](#)

[Regional nitrogen and phosphorus load reduction approach within safe ecological boundaries](#)

[Optimisation of nutrient budget in agriculture](#)

[Preventing and managing diffuse pollution in urban water runoff](#)

[Achieving zero polluted seas and ocean](#)

[Environmental sustainability criteria for biological resources production and trade in bio-based systems: impacts and trade-offs](#)

[Increasing the environmental performance of industrial processes in bio-based sectors: construction, woodworking, textiles, pulp and paper and bio-chemicals](#)

[International and EU sustainability certification schemes for bio-based systems](#)

[New genomic techniques \(NGT\): understanding benefits and risks – focus on bio-based innovation](#)

[Environmental impacts and trade-offs of alternative fertilising products at global/local scale](#)

[Environmental services: improved bioremediation and revitalization strategies for soil, sediments and water](#)

[Improved understanding, observation and monitoring of water resources availability](#)

[European Partnership Water Security for the Planet \(Water4All\)](#)

[Key oceanic and polar processes driving regional & global climate change](#)

[Demonstration network on climate-smart farming – linking pilot farms](#)

[Agroecological approaches for climate change mitigation, resilient agricultural production and enhanced biodiversity](#)

[Resilient livestock farming systems under climate change](#)

[International Research Consortium on \(agricultural\) soil carbon](#)

[Agroforestry to meet climate, biodiversity and farming sustainability goals](#)

[Enhancing science-based knowledge on EU forests', including old-growth forests, capacities to mitigate climate change](#)

[EU-China international cooperation on increasing the resilience of forests](#)

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Within the framework of the **Horizon Europe** programme a large number of calls have been published. Thus, the information provided is split into the different clusters of **Pillar II - Global Challenges and European Industrial Competitiveness**.

The eleventh set of calls covers **Cluster 6 - Food, Bioeconomy, Natural Resources, Agriculture and Environment (Destination 6 - Resilient, Inclusive, Healthy and Green Rural, Coastal and Urban Communities and Destination 7 - Innovative Governance, Environmental Observations and Digital Solutions in Support of the Green Deal)**. This cluster aims at reducing environmental degradation, halting and reversing the decline of biodiversity on land, inland waters and sea and better managing natural resources through transformative changes of the economy and society in both urban and rural areas. It will ensure food and nutrition security for all within planetary boundaries through knowledge, innovation and digitalisation in agriculture, fisheries, aquaculture and food systems and steer and accelerate the transition to a low carbon, resource efficient circular economy and sustainable bioeconomy, including forestry.

Areas of intervention

- environmental observation
- biodiversity and natural resources
- agriculture, forestry and rural areas
- seas, oceans and inland waters
- food systems
- bio-based innovation systems in the EU's bioeconomy
- circular systems

Following calls, which could be interesting for you, are published:

[Grasping rural diversity and strengthening evidence for tailored policies enhancing the contribution of rural communities to ecological, digital and social transitions](#)

[Expertise and training centre on rural innovation](#)

[Smart XG, last-mile and edge solutions for remote farming, forestry and rural areas](#)

[Socio-economic empowerment of the users of the sea](#)

[Integrated urban food system policies – how cities and towns can transform food systems for co-benefits](#)

[Inside and outside: educational innovation with nature-based solutions](#)

[Mobilising the network of national contact points in Cluster 6](#)

[Furthering food systems science and federating researchers across the European Research Area](#)

[Preparatory action for the Horizon Europe Food System Partnership](#)

[Strengthening bioeconomy innovation and deployment across sectors and all governance levels](#)

[Fostering strategic advice and synergies between national and EU research and innovation agendas, including SCAR foresight](#)

[Environmental and social cross-compliance of marine policies](#)

[Regional governance models in the bioeconomy](#)

[Improving understanding of and engagement in bio-based systems with training and skills development](#)

[Revitalisation of European local communities with innovative bio-based business models and social innovation](#)

[Raising awareness of circular and sustainable bioeconomy in support of Member States to develop bioeconomy strategies and/or action plans](#)

[Education on the bioeconomy including bio-based sectors for young people in primary and secondary education in Europe](#)

[EU agriculture within a safe and just operating space and planetary boundaries](#)

[Modelling land use and land management in the context of climate change](#)

[User-oriented solutions building on environmental observation to monitor critical ecosystems and biodiversity loss and vulnerability in the European Union](#)

[Mapping and improving the data economy for food systems](#)

[Preparing for pre-commercial procurement \(PCP\) for end-user services based on environmental observation in the area of climate change adaptation and mitigation](#)

[Tools to support the uptake and accessibility/exploitability of environmental observation information at European and global level](#)

[Common European Green Deal data space to provide more accessible and exploitable environmental observation data in support of the European Green Deal priority actions](#)

[Development of the markets and use of digital technologies and infrastructure in agriculture – digital and data technologies for the agricultural sector in a fast changing regulatory, trade and technical environment](#)

[Data economy in the field of agriculture – effects of data sharing and big data](#)

[Potential of drones as multi-purpose vehicle – risks and added values](#)

[Assessing the impacts of digital technologies in agriculture – cost, benefits and potential for sustainability gains](#)

[Broaden EIP Operational Group outcomes across borders by means of thematic networks, compiling and sharing knowledge ready for practice](#)

[Supporting knowledge exchange between all AKIS actors in the Member States by means of an EU-wide interactive knowledge reservoir](#)

[Improving national AKIS organisation in a co-creative process across the EU](#)

[Deepening the functioning of innovation support](#)

[Developing EU advisory networks on consumer-producer chains](#)

[Thematic networks to compile and share knowledge ready for practice](#)

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