

Pillar 2: Global Challenges and European Industrial Competitiveness

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. The expected impacts of this cluster are contained in the [Horizon Europe strategic plan](#).

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

Policy information

- [Research area: Health](#)
- [Mission area: Cancer](#)
- [Candidates for European Partnerships in this cluster](#)

Call / ID	Opening Date	Deadline Date
Coordination of complementary actions for missions - HORIZON-MISS-2021-COOR-01-01	22 June 2021	14 September 2021
Towards a molecular and neurobiological understanding of mental health and mental illness for the benefit of citizens and patients - HORIZON-HLTH-2021-STAYHLTH-01-02	22 June 2021	21 September 2021

Building a European partnership for pandemic preparedness - HORIZON-HLTH-2021-DISEASE-04-06	22 June 2021	21 September 2021
Mobilising a network of National Contact Points (NCPs) for the Health Cluster - HORIZON-HLTH-2021-STAYHLTH-01-05	22 June 2021	21 September 2021
Promoting a trusted mHealth label in Europe: uptake of technical specifications for quality and reliability of health and wellness apps - HORIZON-HLTH-2021-IND-07-03	22 June 2021	21 September 2021
A roadmap towards the creation of the European partnership on One Health antimicrobial resistance (OH AMR) - HORIZON-HLTH-2021-DISEASE-04-05	22 June 2021	21 September 2021
Indoor air quality and health - HORIZON-HLTH-2021-ENVHLTH-02-02	22 June 2021	21 September 2021
Innovative tools for use and re-use of health data (in particular of electronic health records and/or patient registries) - HORIZON-HLTH-2021-TOOL-06-03	22 June 2021	21 September 2021
Green pharmaceuticals - HORIZON-HLTH-2021-IND-07-01	22 June 2021	21 September 2021
Healthy Citizens 2.0 - Supporting digital empowerment and health literacy of citizens - HORIZON-HLTH-2021-STAYHLTH-01-03	22 June 2021	21 September 2021
Health impacts of climate change, costs and benefits of action and inaction - HORIZON-HLTH-2021-ENVHLTH-02-03	22 June 2021	21 September 2021
Innovative approaches to enhance poverty-related diseases research in sub-Saharan Africa - HORIZON-HLTH-2021-DISEASE-04-03	22 June 2021	21 September 2021
A roadmap for personalised prevention - HORIZON-HLTH-2021-STAYHLTH-01-04	22 June 2021	21 September 2021
Data-driven decision-support tools for better health care delivery and policy-making with a focus on cancer - HORIZON-HLTH-2021-CARE-05-02	22 June 2021	21 September 2021

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

Policy information

Research area: [Social Sciences and Humanities](#)

Call / ID	Opening Date	Deadline Date
Coordination of complementary actions for missions - HORIZON-MISS-2021-COOR-01-01	22 June 2021	14 September 2021
The future of liberal democracy in Europe - HORIZON-CL2-2021-DEMOCRACY-01-01	22 June 2021	07 October 2021
Politics and governance in a post-pandemic world - HORIZON-CL2-2021-DEMOCRACY-01-05	22 June 2021	07 October 2021
Coordination of European cultural heritage research and innovation among Member States - HORIZON-CL2-2021-HERITAGE-02-02	22 June 2021	07 October 2021
Feminisms for a new age of democracy - HORIZON-CL2-2021-DEMOCRACY-01-03	22 June 2021	07 October 2021
Democratic politics in the EU's neighbourhood - HORIZON-CL2-2021-DEMOCRACY-01-04	22 June 2021	07 October 2021
Mobilising the network of National Contact Points in Cluster 2 - HORIZON-CL2-2021-HERITAGE-02-01	22 June 2021	07 October 2021
Green technologies and materials for cultural heritage - HORIZON-CL2-2021-HERITAGE-01-01	22 June 2021	07 October 2021
Integration of emerging new technologies into education and training - HORIZON-CL2-2021-TRANSFORMATIONS-01-05	22 June 2021	07 October 2021
Estimates of irregular migrants in Europe - stakeholder network - HORIZON-CL2-2021-TRANSFORMATIONS-01-01	22 June 2021	07 October 2021

Cultural and creative industries as a driver of innovation and competitiveness - HORIZON-CL2-2021-HERITAGE-01-03	22 June 2021	07 October 2021
Upgrading Independent Knowledge on Contemporary China in Europe - HORIZON-CL2-2021-TRANSFORMATIONS-01-07	22 June 2021	07 October 2021
Providing support in a changing world of work and social protection - HORIZON-CL2-2021-TRANSFORMATIONS-01-02	22 June 2021	07 October 2021
Economic models and modern democracies - HORIZON-CL2-2021-DEMOCRACY-01-02	22 June 2021	07 October 2021
New ways of participatory management and sustainable financing of museums and other cultural institutions - HORIZON-CL2-2021-HERITAGE-01-02	22 June 2021	07 October 2021
Preserving and enhancing cultural heritage with advanced digital technologies - HORIZON-CL2-2021-HERITAGE-01-04	22 June 2021	07 October 2021
Addressing poor learning outcomes in basic skills and early school leaving at national, regional and local level in Europe - HORIZON-CL2-2021-TRANSFORMATIONS-01-04	22 June 2021	07 October 2021
Determining key drivers of inequality trends - HORIZON-CL2-2021-TRANSFORMATIONS-01-03	22 June 2021	07 October 2021
Towards a new normal? Employment and social impacts of changing supply chains and declining trade intensities - HORIZON-CL2-2021-TRANSFORMATIONS-01-06	22 June 2021	07 October 2021

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. The expected impacts of this cluster are contained in the [Horizon Europe strategic plan](#).

Areas of intervention

- disaster-resilient societies
- protection and security
- cybersecurity

Policy information

EU civil security research is one of the building blocks of the **Security Union**. Research in this cluster supports the following policies

- **fighting crime and terrorism** (including **organised crime** and **cybercrime**)
- **border management** (including **customs security** and **maritime security**)
- **resilient infrastructure**
- **cybersecurity** (including **security of network and information systems** and **certification**)
- **disaster-resilient societies** (including against **chemical, biological, radiological and nuclear (CBRN) incidents**; climate-related risks and extreme events; geological disasters, such as earthquakes, volcanic eruptions and tsunamis; pandemics)

Call / ID	Opening Date	Deadline Date
Stronger grounds for pre-commercial procurement of innovative security technologies - HORIZON-CL3-2022-SSRI-01-03	30 June 2022	23 November 2022
Social innovations as enablers of security solutions and increased security perception - HORIZON-CL3-2022-SSRI-01-04	30 June 2022	23 November 2022
Enhanced assessment of disaster risks, adaptive capabilities and scenario building based on available historical data and projections - HORIZON-CL3-2021-DRS-01-03	30 June 2022	23 November 2022
Security research technologies driven by active civil society engagement: transdisciplinary methods for societal impact assessment and impact creation - HORIZON-CL3-2021-SSRI-01-05	30 June 2022	23 November 2022

Terrorism and other forms of serious crime countered using travel intelligence - HORIZON-CL3-2021-FCT-01-01	30 June 2022	23 November 2022
Enhanced fight against the abuse of online gaming culture by extremists - HORIZON-CL3-2022-FCT-01-03	30 June 2022	23 November 2022
A maturity assessment framework for security technologies - HORIZON-CL3-2021-SSRI-01-01	30 June 2022	23 November 2022
Public spaces are protected while respecting privacy and avoiding mass surveillance - HORIZON-CL3-2022-FCT-01-04	30 June 2022	23 November 2022
Fight against trafficking in cultural goods - HORIZON-CL3-2021-FCT-01-08	30 June 2022	23 November 2022
Improved quality assurance / quality control of data used in decision-making related to risk management of natural hazards, accidents and CBRN events - HORIZON-CL3-2022-DRS-01-03	30 June 2022	23 November 2022
Better understanding the influence of organisational cultures and human interactions in the forensic context as well as a common lexicon - HORIZON-CL3-2022-FCT-01-02	30 June 2022	23 November 2022
Fight against firearms trafficking - HORIZON-CL3-2021-FCT-01-10	30 June 2022	23 November 2022
Improved impact forecasting and early warning systems supporting the rapid deployment of first responders in vulnerable areas - HORIZON-CL3-2022-DRS-01-05	30 June 2022	23 November 2022
Improved access to fighting crime and terrorism research data - HORIZON-CL3-2021-FCT-01-04	30 June 2022	23 November 2022
Knowledge Networks for security Research & Innovation - HORIZON-CL3-2022-SSRI-01-02	30 June 2022	23 November 2022
Nature-based Solutions integrated to protect local infrastructure - HORIZON-CL3-2022-INFRA-01-01	30 June 2022	23 November 2022
Demand-led innovation for situation awareness in civil protection - HORIZON-CL3-2021-SSRI-01-04	30 June 2022	23 November 2022
Disinformation and fake news are combated and trust in the digital world is raised - HORIZON-CL3-2021-FCT-01-03	30 June 2022	23 November 2022
Prevention of child sexual exploitation - HORIZON-CL3-2021-FCT-01-11	30 June 2022	23 November 2022

Integrated Disaster Risk Reduction for extreme climate events: from early warning systems to long term adaptation and resilience building - HORIZON-CL3-2021-DRS-01-02	30 June 2022	23 November 2022
Improved understanding of risk exposure and its public awareness in areas exposed to multi-hazards - HORIZON-CL3-2021-DRS-01-01	30 June 2022	23 November 2022
Dynamic business continuity and recovery methodologies based on models and prediction for multi-level Cybersecurity - HORIZON-CL3-2021-CS-01-01	30 June 2022	23 November 2022
Effective fight against illicit drugs production and trafficking - HORIZON-CL3-2022-FCT-01-06	30 June 2022	23 November 2022
Effective fight against trafficking in human beings - HORIZON-CL3-2022-FCT-01-07	30 June 2022	23 November 2022
Domestic and sexual violence are prevented and combated - HORIZON-CL3-2021-FCT-01-06	30 June 2022	23 November 2022
Fight against organised environmental crime - HORIZON-CL3-2021-FCT-01-09	30 June 2022	23 November 2022
Improved border checks for travel facilitation across external borders and improved experiences for both passengers and border authorities' staff - HORIZON-CL3-2021-BM-01-03	30 June 2022	23 November 2022
Effective fight against corruption - HORIZON-CL3-2022-FCT-01-05	30 June 2022	23 November 2022
Better understanding of citizens' behavioural and psychological reactions in the event of a disaster or crisis situation - HORIZON-CL3-2022-DRS-01-04	30 June 2022	23 November 2022
Lawful interception using new and emerging technologies (5G & beyond, quantum computing and encryption) - HORIZON-CL3-2021-FCT-01-02	30 June 2022	23 November 2022

Cluster 5: Climate, Energy and Mobility

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. The expected impacts of this cluster are contained in the [Horizon Europe strategic plan](#).

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

Policy information

- **Research area: Climate action**
- **Research area: Energy**
- **Research area: Transport**
- **Mission area: Adaptation to climate change including societal transformation**
- **Mission area: Climate-neutral and smart cities**
- **Candidates for European Partnerships in this cluster**

Call / ID	Opening Date	Deadline Date
Collaborative local governance models to accelerate the emblematic transformation of urban environment and contribute to the New European Bauhaus initiative and the objectives of the European Green Deal - HORIZON-MISS-2021-CIT-01-02	22 June 2021	14 September 2021
Supporting national, regional and local authorities across Europe to prepare for the transition towards climate neutrality within cities - HORIZON-MISS-2021-CIT-01-01	22 June 2021	14 September 2021
Better prepared regional and local authorities to adapt to climate change - HORIZON-MISS-2021-CLIMA-01-01	22 June 2021	14 September 2021
Preparation for deployment of lighthouse demonstrators and solution scale ups and cross-cutting citizen and stakeholder involvement - HORIZON-MISS-2021-OCEAN-01-01	22 June 2021	14 September 2021
Innovative on-board energy saving solutions (ZEWTP Partnership) - HORIZON-CL5-2021-D5-01-10	22 June 2021	14 September 2021

Support for dissemination events in the field of Transport Research - HORIZON-CL5-2021-D5-01-17	22 June 2021	14 September 2021
Analysis of socio-economic and environmental impacts and assessment of societal, citizen and user aspects for needs based CCAM solutions (CCAM Partnership) - HORIZON-CL5-2021-D6-01-05	24 June 2021	19 October 2021
Support to the activities of the European Geological Services - HORIZON-CL5-2021-D3-02-14	24 June 2021	19 October 2021
More efficient and effective multimodal freight transport nodes to increase flexibility, service visibility and reduce the average cost of freight transport - HORIZON-CL5-2021-D6-01-07	24 June 2021	19 October 2021
Integration of CCUS in hubs and clusters, including knowledge sharing activities - HORIZON-CL5-2021-D3-02-12	24 June 2021	19 October 2021
Sustainability and educational aspects for renewable energy and renewable fuel technologies - HORIZON-CL5-2021-D3-02-02	24 June 2021	05 January 2022
Clean Energy Transition - HORIZON-CL5-2021-D3-01-04	24 June 2021	19 October 2021
Co-Funded Partnership: Driving Urban Transitions to a sustainable future (DUT) - HORIZON-CL5-2021-D2-01-16	24 June 2021	19 October 2021
Strengthening Social Sciences and Humanities (SSH) research communities in climate, energy and mobility disciplines - HORIZON-CL5-2021-D2-01-13		

Cluster 6: Food, Bioeconomy Natural Resources, Agriculture and Environment

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. Research and innovation activities under cluster 6 will contribute to the objectives of the [European Green Deal](#) related to the [Biodiversity Strategy to 2030](#), the [Farm to Fork strategy](#), the [European Climate Pact](#) and initiatives under [sustainable industry](#) and [eliminating pollution](#), as well as the [long-term vision for rural areas](#), and the Sustainable Development Goals. The expected impacts of this cluster are contained in the [Horizon Europe strategic plan](#).

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

Policy information

- [Research area: Environmental observation](#)
- [Research area: Agriculture, forestry and rural areas](#)
- [Research area: Oceans and seas](#)
- [Research area: Food systems](#)
- [Research area: Environment](#)
- [Mission area: Adaptation to climate change including societal transformation](#)
- [Mission area: Healthy oceans, seas and inland waters](#)
- [Mission area: Soil health and food](#)
- [Candidates for European Partnerships in this cluster](#)

Call / ID	Opening Date	Deadline Date
Better prepared regional and local authorities to adapt to climate change - HORIZON-MISS-2021-OCEAN-01-01	22 June 2021	14 September 2021
Developing EU advisory networks on consumer-producer chains - HORIZON-CL6-2021-GOVERNANCE-01-27	22 June 2021	06 October 2021
Transition to healthy and sustainable dietary behaviour - HORIZON-CL6-2021-FARM2FORK-01-15	22 June 2021	06 October 2021

Data economy in the field of agriculture – effects of data sharing and big data - HORIZON-CL6-2021-GOVERNANCE-01-20	22 June 2021	06 October 2021
Increasing the transparency of EU food systems to boost health, sustainability and safety of products, processes and diets - HORIZON-CL6-2021-FARM2FORK-01-17	22 June 2021	06 October 2021
Education on the bioeconomy including bio-based sectors for young people in primary and secondary education in Europe - HORIZON-CL6-2021-GOVERNANCE-01-11	22 June 2021	06 October 2021
Sea to fork transparency and consumer engagement - HORIZON-CL6-2021-FARM2FORK-01-10	22 June 2021	06 October 2021
Preventing and managing diffuse pollution in urban water runoff - HORIZON-CL6-2021-ZEROPOLLUTION-01-03	22 June 2021	06 October 2021
Research & innovation roadmap for blockchain technologies in the agri-food sector - HORIZON-CL6-2021-FARM2FORK-01-07	22 June 2021	06 October 2021
Expertise and training centre on rural innovation - HORIZON-CL6-2021-COMMUNITIES-01-02	22 June 2021	06 October 2021
Supporting the development of a coherent and resilient Trans-European Nature Network - HORIZON-CL6-2021-BIODIV-01-08	22 June 2021	06 October 2021
Policy mixes, governance (including financing) and decision-making tools for transformative action on biodiversity - HORIZON-CL6-2021-BIODIV-01-17	22 June 2021	06 October 2021
The economics of nature-based solutions: cost-benefit analysis, market development and funding - HORIZON-CL6-2021-BIODIV-01-05	22 June 2021	06 October 2021
Integrated urban food system policies – how cities and towns can transform food systems for co-benefits - HORIZON-CL6-2021-COMMUNITIES-01-05	22 June 2021	06 October 2021
Circular Cities and Regions Initiative (CCRI)'s circular systemic solutions - HORIZON-CL6-2021-CIRCBIO-01-01	22 June 2021	06 October 2021
Integrated urban food system policies – how cities and towns can transform food systems for co-benefits - HORIZON-CL6-2021-COMMUNITIES-01-05	22 June 2021	06 October 2021

Circular Cities and Regions Initiative (CCRI)'s circular systemic solutions - HORIZON-CL6-2021-CIRCBIO-01-01	22 June 2021	06 October 2021
Impact and dependence of business on biodiversity - HORIZON-CL6-2021-BIODIV-01-21	22 June 2021	06 October 2021
Development of the markets and use of digital technologies and infrastructure in agriculture – state of play and foresight: digital and data technologies for the agricultural sector in a fast changing regulatory, trade and technical environment - HORIZON-CL6-2021-GOVERNANCE-01-19	22 June 2021	06 October 2021
Circular Cities and Regions Initiative's project development assistance (CCRI-PDA) - HORIZON-CL6-2021-CIRCBIO-01-02	22 June 2021	06 October 2021
Revitalisation of European local communities with innovative bio-based business models and social innovation - HORIZON-CL6-2021-GOVERNANCE-01-09	22 June 2021	06 October 2021
Inside and outside: educational innovation with nature-based solutions - HORIZON-CL6-2021-COMMUNITIES-01-06	22 June 2021	06 October 2021
Nature-based solutions, prevention and reduction of risks and the insurance sector - HORIZON-CL6-2021-BIODIV-01-06	22 June 2021	06 October 2021