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1. /BMBF*/ Kooperation mit Japan zum Thema Grüner Wasserstoff, Frist: 10.09.2021

Dieser Förderaufruf erfolgt im Rahmen der Strategie der Bundesregierung zur Internationalisierung von Bildung, Wissenschaft und Forschung, der Nationalen Wasserstoffstrategie, der Hightech-Strategie 2025 der Bundesregierung sowie im Kontext des Förderprogramms „Die europäische Innovationsunion - Deutsche Impulse für den Europäischen Forschungsraum" unter der Rahmenbekanntmachung zur Richtlinie zur Förderung von Zuwendungen für internationale Projekte zum Thema Grüner Wasserstoff.

Diese Maßnahme zielt darauf ab, gemeinsame Forschungs- und Entwicklungsprojekte von gegenseitigem Interesse zu fördern und damit zu einer Intensivierung der wissenschaftlich-technologischen Zusammenarbeit (WTZ) mit Japan beizutragen. Ziel ist die Förderung der Forschungszusammenarbeit im Themenfeld Grüner Wasserstoff seitens der deutschen und japanischen Partner, welche einen Mehrwert für die beteiligten Forschungs- und Kooperationspartner generiert. Durch Austausch von Wissen und durch gemeinsame Entwicklungen sollen nachhaltige internationale Wissens- und Innovationsnetzwerke geknüpft sowie eine dauerhafte Forschungs-, Entwicklungs- und Innovationspartnerschaft geschaffen werden.

Konkret soll die Zusammenarbeit von deutschen und japanischen Partnern aus Wissenschaft und Industrie (2+2) in Form von internationalen Verbundforschungsvorhaben entsprechend Modul C der Rahmenbekanntmachung zur Förderung von Zuwendungen für internationale Projekte zum Thema Grüner Wasserstoff gefördert werden.

Gefördert werden im Rahmen dieses Förderaufrufs Forschungsprojekte als Verbundvorhaben, die in internationaler Zusammenarbeit mit Partnern aus Japan eines oder mehrere der nachfolgenden Themen bzw. Unterthemen bearbeiten:

1. Effiziente und nachhaltige Materialien für Wasserstofftechnologien; Entwicklung neuartiger Ansätze für geeignete Materialien einschließlich Lebenszyklus-Analysen
2. Nachhaltige Antriebssysteme für die Schifffahrt auf der Grundlage Grüner Wasserstofftechnologien

o Innovative, hocheffiziente synthetische Brennstoffe auf Grundlage von Grünem Wasserstoff: Synthese, chemische Prozesse und Nutzungskonzepte einschließlich unkonventioneller Syntheseverfahren wie beispielsweise die Gewinnung von „grünem Ammonium" als Brennstoff

o Erforschung und Analyse von Verbrennungsprozessen mithilfe von beispielsweise Künstlicher Intelligenz, Numerischen Analysen und der Dynamik von Fluiden in Bezug auf Entwicklungsprozesse unter Thema 1

o Design und Analyse von neuen Verbrennungssystemen

o Innovationen für hocheffiziente Brennstoffzellen als Schiffsantrieb

Ansprechpartner ist der DLR Projektträger, Europäische und internationale Zusammenarbeit.

Bitte richten Sie Ihre Fragen an:

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Weitere Informationen:

<https://www.bmbf.de/foerderungen/bekanntmachung-3672.html>

2. /EU Horizon Europe*/ Trans-national cooperation among Marie Skłodowska-Curie National Contact Point (NCP) (HORIZON-MSCA-2021-NCP-01), Deadline: 31.08.2021 17:00 Brussels time

Projects are expected to contribute to the following outcomes:

- o An improved and professionalised NCP service across Europe, thereby helping simplify access to Horizon Europe calls, lowering the entry barriers for newcomers, and raising the average quality of proposals submitted;
- o Harmonised and improved trans-national cooperation between NCPs;
- o More consistent level of NCP support services across Europe and beyond, notably in widening countries;
- o Increased participation of third-country NCPs in the activities of the action.

The objective is to facilitate the trans-national co-operation between National Contact Points (NCPs) for the MSCA, including those established in Third Countries, with a view to identifying and sharing good practices and raising the general standard of support to applicants, taking into account the diversity of actors and experiences.

Support will be given to a consortium of formally nominated MSCA NCPs. The activities will be tailor-made to the needs and priorities of the NCPs concerned and may include benchmarking, joint workshops, enhanced cross-border brokerage events, training sessions linked to the MSCA and wider R&I priorities and tools, twinning and mentoring schemes. Special attention will be given to enhancing the competence of MSCA NCPs, including helping newcomers and less experienced NCPs to rapidly acquire the know-how accumulated by their peers. Cooperation with other EU networks such as Euraxess Worldwide, Enterprise Europe Network, COST, will be encouraged to increase the visibility to potential beneficiaries, especially in the non-academic sector.

There still is a research and innovation gap across Europe and discrepancies remain between European countries in their capacity to attract funding and researchers. This gap is observed in the MSCA as well. Particular emphasis on continuing the efforts to close this gap will mark the first years of the MSCA under Horizon Europe. Therefore, specific measures to support the NCPs in "widening countries," such as training and mentorship schemes, should be organised to stimulate more high-quality applications with beneficiaries in these countries and increase their success rate in MSCA.

The MSCA are the main EU instrument to attract researchers from Third Countries to Europe. Specific measures to encourage Third-Country NCPs to create contacts and participate in the activities of the project (e.g. training, twinning, mentoring, and other capacity building and networking activities) should be foreseen. The focus throughout should be on issues specific to the MSCA and should not duplicate actions foreseen in the NCP network under "Widening participation and strengthening the European Research Area". The consortium should have a good representation of experienced and less experienced NCPs and include NCPs from widening countries.

Submission of a single proposal is encouraged. NCPs choosing not to participate as a member of the consortium are nevertheless invited and encouraged to participate in the project activities (e.g. workshops). The expected duration of the action will be 36 months.

Further Information:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-detail/s/horizon-msca-2021-ncp-01-01;callCode=null;freeTextSearchKeyword=marie%20;matchWholeText=true;typeCodes=1,0;statusCodes=31094501,31094502,31094503;programmePeriod=2021%20-%202027;programCcm2Id=43108390;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=startDate;orderBy=asc;onlyTenders=false;topicListKey=topicSearchTablePageState>

3. /EU Horizon Europe*/ MSCA Postdoctoral Fellowships 2021 (HORIZON-MSCA-2021-PF-01-01), Deadline: 12.10.2021 17:00 Brussels time

The goal of MSCA Postdoctoral Fellowships is to enhance the creative and innovative potential of researchers holding a PhD and who wish to acquire new skills through advanced training, international, interdisciplinary and inter-sectoral mobility. MSCA Postdoctoral Fellowships will be open to excellent researchers of any nationality. The scheme also encourages researchers to work on research and innovation projects in the non-academic sector and is open to researchers wishing to reintegrate in Europe, to those who are displaced by conflict, as well as to researchers with high potential who are seeking to restart their careers in research.

Through the implementation of an original and personalised research project, MSCA Postdoctoral Fellowships aim to foster excellence through training and mobility and to equip researchers with new skills and competences in order to identify solutions to current and future challenges. Postdoctoral researchers are encouraged to reach out to society at large to make the results of their research visible to citizens. Fellowships will be provided to excellent researchers, undertaking international mobility either to or between EU Member States or Horizon Europe Associated Countries, as well as to non-associated Third Countries. Applications will be made jointly by the researcher and a beneficiary in the academic or non-academic sector.

Further Information:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-detail/s/horizon-msca-2021-pf-01-01;callCode=null;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1,0;statusCodes=31094501,31094502,31094503;programmePeriod=2021%20-%202027;programCcm2Id=43108390;programDivisionCode=43108473;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=topicSearchTablePageState>

4. /EU Horizon Europe*/ MSCA Doctoral Networks 2021 (HORIZON-MSCA-2021-DN-01-01), Deadline: 16.11.2021 17:00 Brussels time

The MSCA Doctoral Networks aim to train creative, entrepreneurial, innovative and resilient doctoral candidates, able to face current and future challenges and to convert knowledge and ideas into products and services for economic and social benefit.

The MSCA Doctoral Networks will raise the attractiveness and excellence of doctoral training in Europe. They will equip researchers with the right combination of research-related and transferable competences and provide them with enhanced career perspectives in both the academic and non-academic sectors through international, interdisciplinary and inter-sectoral mobility combined with an innovation-oriented

mind-set.

MSCA Doctoral Networks will implement doctoral programmes, by partnerships of universities, research institutions and research infrastructures, businesses including SMEs, and other socio-economic actors from different countries across Europe and beyond. MSCA Doctoral Networks are indeed open to the participation of organisations from third countries, in view of fostering strategic international partnerships for the training and exchange of researchers.

These doctoral programmes will respond to well-identified needs in various R&I areas, expose the researchers to the academic and non-academic sectors, and offer training in research-related, as well as transferable skills[1] and competences relevant for innovation and long-term employability (e.g. entrepreneurship, commercialisation of results, Intellectual Property Rights, communication). Proposals for doctoral networks can reflect existing or planned research partnerships among the participating organisations.

Further Information:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-detail/s/horizon-msca-2021-dn-01-01;callCode=null;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1,0;statusCodes=1,0;statusCodes=31094501,31094502,31094503;programmePeriod=2021%20-%202027;programCcm2Id=43108390,0;programDivisionCode=43108473;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;scoreCode=null;programmeDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;contentTypeCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=false;topicListKey=topicSearchTablePageState>

5. /EU Horizon Europe*/ Cluster 1: Staying Healthy (2021) (HORIZON-HLTH-2021-STAYHLTH-01), 4 calls open, Deadline: 21.09.2021 17:00 Brussels time

Calls for proposals under this destination are directed towards the Key Strategic Orientation KSO-D 'Creating a more resilient, inclusive and democratic European society' of Horizon Europe's Strategic Plan 2021-2024. Research and innovation supported under this destination should contribute to the impact area 'Good health and high-quality accessible health care' and in particular to the following expected impact, set out in the Strategic Plan for the health cluster: 'citizens of all ages stay healthy and independent in a rapidly changing society thanks to healthier lifestyles and behaviours, healthier diets, healthier environments, improved evidence-based health policies, and more effective solutions for health promotion and disease prevention'. In addition, research and innovation supported under this destination could also contribute to the following impact areas: 'High quality digital services for all', 'Sustainable food systems from farm to fork on land and sea', and 'Climate change mitigation and adaptation'.

People's health care needs are different, depending on their age, stage of life and socio-economic background. Their physical and mental health and well-being can be influenced by their individual situation as well as the broader societal context they are living in. Furthermore, health education and behaviour are important factors. Currently, more than 790 000 deaths per year in Europe are due to risk factors such as smoking, drinking, physical inactivity, and obesity. Upbringing, income, education levels, social and gender aspects also have an impact on health risks and how disease can be prevented. Moreover, people's health can be impacted by a rapidly changing society, making it challenging to keep pace and find its way through new technological tools and societal changes, which both are increasing demands on the individual's resilience. In order to leave no one behind, to reduce health inequalities and to support healthy and active lives for all, it is crucial to provide suitable and tailor-made solutions, including for people with specific needs.

Under this destination the EU has published four calls for proposals that are open for admission:

1. 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)

2. Healthy Citizens 2.0 - Supporting digital empowerment and health literacy of citizens (HORIZON-HLTH-2021-STAYHLTH-01-03)
3. A roadmap for personalised prevention (HORIZON-HLTH-2021-STAYHLTH-01-04)
4. Mobilising a network of National Contact Points (NCPs) for the Health Cluster (HORIZON-HLTH-2021-STAYHLTH-01-05)

Further Information:

<https://www.euhoerschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-WIDERA-2021-ERA-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodeCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;spect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDeliveryOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableStatechTableState>

6. /EU Horizon Europe*/ Cluster 1: Environment and health (2021) (HORIZON-HLTH-2021-ENVHLTH-02), 4 calls open, Deadline: 21.09.2021 17:00 Brussels time

Calls for proposals under this destination are directed towards the Key Strategic Orientation KSO-D 'Creating a more resilient, inclusive and democratic European society' of Horizon Europe's Strategic Plan 2021-2024. Research and innovation supported under this destination should contribute to the impact area 'A resilient EU prepared for emerging threats' and in particular to the following expected impact, set out in the Strategic Plan for the health cluster: 'living and working environments are health-promoting and sustainable thanks to better understanding of environmental, occupational, social and economic determinants of health'. In addition, research and innovation supported under this destination could also contribute to the following impact areas: 'Good health and high quality accessible health care', 'Climate change mitigation and adaptation', and 'Clean and healthy air, water and soil'.

The environment we live and work in is a major determinant of our health and well-being. It has direct or indirect beneficial or adverse impact on our health and well-being. Environmental factors are estimated to account for almost 20% of all deaths in Europe. Opinion surveys have shown that European citizens are concerned about the impact of pollution on their health. The impacting factors on both physical and mental health and well-being are not all identified nor their effects comprehensively understood and accounted for to support evidence-based policy- and decision-making. Furthermore, agreed methodologies to estimate health-related costs of exposure to environmental stressors are lacking.

Under this destination the EU has published four calls for proposals that are open for admission:

1. Exposure to electromagnetic fields (EMF) and health (HORIZON-HLTH-2021-ENVHLTH-02-01)
2. Indoor air quality and health (HORIZON-HLTH-2021-ENVHLTH-02-02)
3. Health impacts of climate change, costs and benefits of action and inaction (HORIZON-HLTH-2021-ENVHLTH-02-03)
4. European partnership for the assessment of risks from chemicals (PARC) (HORIZON-HLTH-2021-ENVHLTH-03-01)

Further Information:

<https://www.euhoerschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-HLTH-2021-ENVHLTH-02;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;prospect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

7. /EU Horizon Europe*/ Cluster 1: Tackling diseases (2021), 7 calls open, Deadline: 21.09.2021 17:00 Brussels time

In this work programme, destination 3 will focus on major societal challenges linked to the Commission's political priorities such as the fight against cancer and other non-communicable diseases, better diagnosis and treatment of rare diseases, preparedness and response to and surveillance of health threats and epidemics, reduction of the number of antimicrobial-resistant infections, improving vaccination rates, demographic change, mental health and digital empowerment in health literacy. In particular, the topics under this destination will support activities aiming at: i) better understanding of diseases, their drivers and consequences, including pain and the causative links between health determinants and diseases, and better evidence-base for policy-making; ii) better methodologies and diagnostics that allow timely and accurate diagnosis, identification of personalised treatment options and assessment of health outcomes, including for patients with a rare disease; iii) development and validation of effective intervention for better surveillance, prevention, detection, treatment and crisis management of infectious disease threats; iv) innovative health technologies developed and tested in clinical practice, including personalised medicine approaches and use of digital tools to optimise clinical workflows; v) new and advanced therapies for non-communicable diseases, including rare diseases developed in particular for those without approved options, supported by strategies to make them affordable for the public payer; and vi) scientific evidence for improved/tailored policies and legal frameworks and to inform major policy initiatives at global level (e.g. WHO Framework Convention on Tobacco Control; UNEA Pollution Implementation Plan).

Under this destination the EU has published seven calls for proposals that are open for admission:

1. Improved supportive, palliative, survivorship and end-of-life care of cancer patients (HORIZON-HLTH-2021-DISEASE-04-01)
2. Building a European innovation platform for the repurposing of medicinal products (HORIZON-HLTH-2021-DISEASE-04-02)
3. Innovative approaches to enhance poverty-related diseases research in sub-Saharan Africa (HORIZON-HLTH-2021-DISEASE-04-03)
4. Clinical validation of artificial intelligence (AI) solutions for treatment and care (HORIZON-HLTH-2021-DISEASE-04-04)
5. A roadmap towards the creation of the European partnership on One Health antimicrobial resistance (OH AMR) (HORIZON-HLTH-2021-DISEASE-04-05)
6. Building a European partnership for pandemic preparedness (HORIZON-HLTH-2021-DISEASE-04-06)
7. Personalised medicine and infectious diseases: understanding the individual host response to viruses (e.g. SARS-CoV-2) (HORIZON-HLTH-2021-DISEASE-04-07)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-HLTH-2021-DISEASE-04;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;prospect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

8. /EU Horizon Europe*/ Cluster 1: Tools and technologies for a healthy society (HORIZON-HLTH-2021-TOOL-06), 3 calls open, Deadline: 21.09.2021

Proposals for topics under this destination should set out a credible pathway towards unlocking the full potential of new tools, technologies and digital solutions for a healthy society, and more specifically to several of the following expected impacts:

- o Europe's scientific and technological expertise and know-how, its capabilities for innovation in new tools, technologies and digital solutions, and its ability to take-up, scale-up and integrate innovation in health care is world-class.
- o Citizens benefit from targeted and faster research resulting in safer, more efficient, cost-effective and affordable tools, technologies and digital solutions for improved (personalised) disease prevention, diagnosis, treatment and monitoring for better patient outcome and well-being, in particular through increasingly shared health resources (interoperable data, infrastructure, expertise, citizen/patient driven co-creation).[[Commission Communication on the digital transformation of health and care; COM(2018) 233 final.]]
- o The EU gains high visibility and leadership in terms of health technology development, including through international cooperation.
- o The burden of diseases in the EU and worldwide is reduced through the development and integration of innovative diagnostic and therapeutic approaches, personalised medicine approaches, digital and other people-centred solutions for health care.
- o Both the productivity of health research and innovation, and the quality and outcome of health care is improved thanks to the use of health data and innovative analytical tools, such as artificial intelligence (AI) supported decision-making, in a secure and ethical manner, respecting individual integrity and underpinned with public acceptance and trust.

Under this destination the EU has published three calls for proposals that are open for admission:

1. Smart medical devices and their surgical implantation for use in resource-constrained settings (HORIZON-HLTH-2021-TOOL-06-01)
2. Next generation advanced therapies to treat highly prevalent and high burden diseases with unmet medical needs (HORIZON-HLTH-2021-TOOL-06-02)
3. 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)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-HLTH-2021-TOOL-06;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2ld=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableStatehTableState>

9. /EU Horizon Europe*/ Cluster 1: A competitive health-related industry (2021) (HORIZON-HLTH-2021-IND-07), 3 calls open, Deadline: 21.09.2021 17:00 Brussels time

The health industry is a key driver for growth and has the capacity to provide health technologies to the benefit of patients and providers of health care services. The relevant value chains involve a broad variety of key players from supply, demand and regulatory sides. In addition, the path of innovation in health is long and complex. The development of novel health technologies is generally associated with uncertainties and market barriers due to expensive and risky development (e.g. attrition rate in pharmaceutical development), high quality and security requirements (e.g. clinical performance, safety, data privacy and cybersecurity) and market specificities (e.g. strong regulation, pricing and reimbursement issues). In addition, the growing concern about environmental issues is putting more pressure on this industry. Therefore, there is a need for research and innovation integrating various stakeholders to facilitate market access of innovative health technologies (medical technologies, pharmaceuticals, biotechnologies, digital health technologies).

In order to address these challenges, in particular green and digital transitions and proper supply of health technologies and products, destination 6 will focus on research and innovation activities that aim at:

- o Production of pharmaceuticals in compliance with the objectives of the European Green Deal.
- o Methodologies, guidelines and standards, assessment studies, and structuring activities adapted to digital solutions and interventions for GDPR compliant translation into health care practice, including inter-operability, cyber-security and data confidentiality.
- o Public authorities supported with better methodologies and interdisciplinary approaches to assess and value new health technologies and interventions.
- o Development of pharmaceutical products meeting unmet medical needs in the context of market failures.

Under this destination the EU has published three calls for proposals that are open for admission:

1. Green pharmaceuticals (HORIZON-HLTH-2021-IND-07-01)
2. Development, procurement and responsible management of new antimicrobials (HORIZON-HLTH-2021-IND-07-02)
3. 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)

Further Information:

<https://www.euhochschnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-HLTH-2021-IND-07;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=3;des=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;subject=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableStateTableState>

10. /EU Horizon Europe*/ Cluster 2: Protecting and nurturing democracies (HORIZON-CL2-2021-DEMOCRACY-01), 5 calls open, Deadline: 07.10.2021 17:00 Brussels time

Democracies are more fragile and more vulnerable than in the past. The Freedom in the World Report (2020) shows that democracies across the globe are in crisis. At the same time, various European surveys show declining levels of trust in the political institutions of democracy. In terms of legitimacy, there are signs of a potential shift from governance based on expertise, multilateralism and consensual policymaking towards majoritarianism, unilateralism, nationalism, populism and polarization. Research on the past and present challenges and tensions in democracy can help to better understand and strengthen democracy, its resilience and stability. It will foster democracy's further development with a view to enhancing representation, participation, openness, pluralism, tolerance, the effectiveness of public policy, non-discrimination, civic engagement, the protection of fundamental rights and the rule of law. These reflect the European Union's values as defined in Article 2 of the EU Treaty.

Expected impact:

Proposals for topics under this Destination should set out a credible pathway to contributing to the following expected impacts of the Horizon Europe Strategic Plan:

Democratic governance is reinvigorated by improving the accountability, transparency, effectiveness and trustworthiness of rule-of-law based institutions and policies and through the expansion of active and inclusive citizenship empowered by the safeguarding of fundamental rights.

The implementation of the research activities of the destination will assist in the re-invigoration and modernisation of democratic governance. The aim is to develop evidence-based innovations, policies and policy recommendations, as well as institutional frameworks that expand political participation, social dialogue, civic engagement, gender equality and inclusiveness. Activities will also contribute to enhancing the transparency, effectiveness, accountability and legitimacy of public policy-making. They will help improving trust in democratic institutions, safeguarding liberties and the rule of law and protecting democracy from multidimensional threats. Rich historical, cultural and philosophical perspectives, including a comparative dimension, will set the frame for soundly understanding present developments and help to map future pathways. In the medium to long term, the knowledge, data, scientifically robust recommendations and innovations generated will enhance decision making on all aspects relevant to democratic governance. As the Destination aims directly at citizen engagement and at producing lasting change, it is of particular importance that the research and innovation actions promote the highest standards of transparency and openness. When applicable, it is encouraged to open up the process, criteria, methodologies and data to civil society in the course of the research.

Under this destination the EU has published five calls for proposals that are open for admission:

1. The future of liberal democracy in Europe (HORIZON-CL2-2021-DEMOCRACY-01-01)
2. Economic models and modern democracies (HORIZON-CL2-2021-DEMOCRACY-01-02)
3. Feminisms for a new age of democracy (HORIZON-CL2-2021-DEMOCRACY-01-03)

4. Democratic politics in the EU's neighbourhood (HORIZON-CL2-2021-DEMOCRACY-01-04)
5. Politics and governance in a post-pandemic world (HORIZON-CL2-2021-DEMOCRACY-01-05)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL2-2021-DEMOCRACY-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;e=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspectionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableTopicSearchTableState>

11. /EU Horizon Europe*/ Cluster 2: Research and innovation on cultural heritage and CCIs (: HORIZON-CL2-2021-HERITAGE-01), 4 calls open, Deadline: 07.10.2021 17:00 Brussels time

Concretely, R&I activities under this Destination and its calls will support these policy objectives by monitoring, safeguarding and transmitting cultural heritage, fostering the CCIs and promoting cultural diversity. They will aim at protecting historical sites and monuments, artefacts, heritage sites, cultural landscapes, museums and other cultural institutions, languages, customs, traditions and values. Through new or existing cutting-edge conservation and restoration technologies and methods, they will help restore and preserve monuments and artefacts in a green way. They will advance the protection of cultural heritage from natural hazards and anthropogenic threats, including the looting and illicit trafficking of cultural goods. Research and innovation across the cultural and creative sectors will foster their inbuilt innovation potential and will promote transformation in many parts of the economy and social development across Europe. Through new approaches, R&I will offer innovative, integrated, sustainable and participative management and business models for museums and other cultural institutions, with a view to spur inclusive growth, jobs, social cohesion and diversity. It will also contribute to develop a sustainable and quality-driven intervention on built environment in line with the New European Bauhaus initiative. Research in old and new forms of cultural and artistic expression will promote intercultural cooperation, while engaging citizens and young people. It will valorise traditional skills and the reuse of existing assets. Exploring the economic role of CCIs and investigating the impact of creative and artistic intervention into innovation processes will provide capacities to boost Europe's competitiveness. European cultural heritage, arts and creativity can be harnessed to further develop the design and identity of products, and to shape the public image of our countries and regions. Cultural and intellectual experiences can be marketed at a premium: CCIs are at the frontline of this action, by investing in knowledge and creativity. Furthermore, the use of existing and the development of new digital methodologies will offer innovative approaches to share and increase access to and engagement with cultural heritage. Altogether, these actions will enable real cooperation and participation of a wide range of communities, including stakeholders, citizens and industry.

Under this destination the EU has published four calls for proposals that are open for admission:

1. Green technologies and materials for cultural heritage (HORIZON-CL2-2021-HERITAGE-01-01)
2. New ways of participatory management and sustainable financing of museums and other cultural institutions (HORIZON-CL2-2021-HERITAGE-01-02)
3. Cultural and creative industries as a driver of innovation and competitiveness (HORIZON-CL2-2021-HERITAGE-01-03)
4. Preserving and enhancing cultural heritage with advanced digital technologies (HORIZON-CL2-2021-HERITAGE-01-04)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL2-2021-HERITAGE-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;respect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

12. /EU Horizon Europe*/ Cluster 2: Engagement with stakeholders (HORIZON-CL2-2021-HERITAGE-02), 2 calls open, Deadline: 07.10.2021 17:00 Brussels time

Concretely, R&I activities under this Destination and its calls will support these policy objectives by monitoring, safeguarding and transmitting cultural heritage, fostering the CCIs and promoting cultural diversity. They will aim at protecting historical sites and monuments, artefacts, heritage sites, cultural landscapes, museums and other cultural institutions, languages, customs, traditions and values. Through new or existing cutting-edge conservation and restoration technologies and methods, they will help restore and preserve monuments and artefacts in a green way. They will advance the protection of cultural heritage from natural hazards and anthropogenic threats, including the looting and illicit trafficking of cultural goods. Research and innovation across the cultural and creative sectors will foster their inbuilt innovation potential and will promote transformation in many parts of the economy and social development across Europe. Through new approaches, R&I will offer innovative, integrated, sustainable and participative management and business models for museums and other cultural institutions, with a view to spur inclusive growth, jobs, social cohesion and diversity. It will also contribute to develop a sustainable and quality-driven intervention on built environment in line with the New European Bauhaus initiative. Research in old and new forms of cultural and artistic expression will promote intercultural cooperation, while engaging citizens and young people. It will valorise traditional skills and the reuse of existing assets. Exploring the economic role of CCIs and investigating the impact of creative and artistic intervention into innovation processes will provide capacities to boost Europe's competitiveness. European cultural heritage, arts and creativity can be harnessed to further develop the design and identity of products, and to shape the public image of our countries and regions. Cultural and intellectual experiences can be marketed at a premium: CCIs are at the frontline of this action, by investing in knowledge and creativity. Furthermore, the use of existing and the development of new digital methodologies will offer innovative approaches to share and increase access to and engagement with cultural heritage. Altogether, these actions will enable real cooperation and participation of a wide range of communities, including stakeholders, citizens and industry.

Under this destination the EU has published 2 calls for proposals that are open for admission:

1. Mobilising the network of National Contact Points in Cluster 2 (HORIZON-CL2-2021-HERITAGE-02-01)
2. Coordination of European cultural heritage research and innovation among Member States (HORIZON-CL2-2021-HERITAGE-02-02)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL2-2021-HERITAGE-02;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;rospect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

13. /EU Horizon Europe*/ Cluster 2: Inclusiveness in times of change (HORIZON-CL2-2021-TRANSFORMATIONS-01), 7 calls open, Deadline: 07.10.2021 17:00 Brussels time

Europe is being transformed by changes that impact the livelihoods and wellbeing of its citizens. Such changes present important opportunities for the EU to innovate and shape forward looking inclusive societies and economies, while avoiding the mistakes of the past and promoting an inclusive recovery that strengthens economic and social resilience. However, demographic changes, digitalisation, automation, environmental degradation, the transition to a low carbon economy and globalisation all pose multidimensional, interconnected and complex social and economic challenges. At the same time, there has been an increase in inequality, poverty and social exclusion, a polarisation of skill needs in the labour market, and a slowdown in convergence in income and employment in most European countries. Inequalities threaten social and territorial cohesion, economic growth and wellbeing. Moreover, the COVID-19 pandemic has magnified the pervasive inequalities across European societies, with significant differences in the way losses and costs of the COVID-19 pandemic and the crisis that followed are distributed in society. To seize the opportunities emerging from socio-economic transformations in a strongly connected and integrated world, these challenges need to be better understood and tackled.

Under this destination the EU has published seven calls for proposals that are open for admission:

1. Estimates of irregular migrants in Europe - stakeholder network (HORIZON-CL2-2021-TRANSFORMATIONS-01-01)
2. Providing support in a changing world of work and social protection (HORIZON-CL2-2021-TRANSFORMATIONS-01-02)
3. Determining key drivers of inequality trends (HORIZON-CL2-2021-TRANSFORMATIONS-01-03)
4. 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)
5. Integration of emerging new technologies into education and training (HORIZON-CL2-2021-TRANSFORMATIONS-01-05)
6. Towards a new normal? Employment and social impacts of changing supply chains and declining trade intensities (HORIZON-CL2-2021-TRANSFORMATIONS-01-06)
7. Upgrading Independent Knowledge on Contemporary China in Europe (HORIZON-CL2-2021-TRANSFORMATIONS-01-07)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL2-2021-TRANSFORMATIONS-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionCode=null;meDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performance=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

14. /EU Horizon Europe*/ Cluster 3: Fighting Crime and Terrorism 2021 (HORIZON-CL3-2021-FCT-01), 12 calls open, Deadline: 23.11.2021 17:00 Brussels time

The goal of this Destination is to bring improved prevention, investigation and mitigation of impacts of crime, including of new/emerging criminal modi operandi (such as those exploiting digitisation and other technologies). Such an approach needs to be based on a deeper knowledge of human and social aspects of relevant societal challenges, such as child sexual exploitation, violent radicalisation, trafficking of human beings, disinformation and fake news, corruption and cyber criminality, including support to victims. Research can further help to transpose such knowledge into the operational activities of Police Authorities[[In the context of this Destination, 'Police Authorities' means public authorities explicitly designated by national law, or other entities legally mandated by the competent national authority, for the prevention, detection and/or investigation of terrorist offences or other criminal offences, specifically excluding police academies, forensic institutes, training facilities as well as border and customs authorities.]], as well as civil society organisations.

Research and innovation will support Police Authorities and, when applicable, other relevant end-users in better tackling crime, including cybercrime, and terrorism as well as different forms of serious and organised crime (such as smuggling, money laundering, identity theft, counterfeiting of products, trafficking of illicit drugs and of falsified/substandard medicines, environmental crime or illicit trafficking of cultural goods) by developing new technologies, tools and systems (including digital tools, e.g. artificial intelligence, interoperability solutions, etc.). This support refers especially to capabilities to analyse in near-real-time large volumes of data to forestall criminal activities, or to combat disinformation and fake news with implications for security.

Under this destination the EU has published 12 calls for proposals that are open for admission:

1. Terrorism and other forms of serious crime countered using travel intelligence (HORIZON-CL3-2021-FCT-01-01)
2. Lawful interception using new and emerging technologies (5G & beyond, quantum computing and encryption) (HORIZON-CL3-2021-FCT-01-02)
3. Disinformation and fake news are combated and trust in the digital world is raised (HORIZON-CL3-2021-FCT-01-03)
4. Improved access to fighting crime and terrorism research data (HORIZON-CL3-2021-FCT-01-04)
5. Modern biometrics used in forensic science and by police (HORIZON-CL3-2021-FCT-01-05)
6. Domestic and sexual violence are prevented and combated (HORIZON-CL3-2021-FCT-01-06)
7. Improved preparedness on attacks to public spaces (HORIZON-CL3-2021-FCT-01-07)
8. Fight against trafficking in cultural goods (HORIZON-CL3-2021-FCT-01-08)
9. Fight against organised environmental crime (HORIZON-CL3-2021-FCT-01-09)
10. Fight against firearms trafficking (HORIZON-CL3-2021-FCT-01-10)
11. Prevention of child sexual exploitation (HORIZON-CL3-2021-FCT-01-11)
12. Online identity theft is countered (HORIZON-CL3-2021-FCT-01-12)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL3-2021-FCT-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

15. /EU Horizon Europe*/ Cluster 3: Border Management 2021 (HORIZON-CL3-2021-BM-01), 5 calls open, Deadline: 23.11.2021 17:00 Brussels time

Regarding security in the movements of goods across external borders, research will address requirements identified by the European Commission and EU customs authorities and should contribute to capabilities for detecting illegal activities both at external border crossing points and through the supply chain. EU customs authorities face increasing volumes of commerce, trade and traffic of goods, as well as having a range of tasks to fulfil besides security. International smuggling has the potential to become more sophisticated and/or increase in the coming years and decades, and could be facilitated by cybercrime. Criminal networks may exploit potential weaknesses of global supply chains, transport and logistics to pursue illicit trade and other crimes. At the same time, threats and hazards that may need to be detected in the flow of goods are very diverse and often need different sensors and technologies to be detected (from chemical, biological, nuclear, radiological and explosive material to drugs, firearms, money, waste, trafficked wildlife, cultural goods, etc.). Hence, customs need innovation to enable detection and to ensure security without at the same time disrupting or unnecessarily hampering trade flows. Capabilities built through research will contribute to the implementation of the new EU Customs Union action plan to reinforce customs risk management and effective controls. Capabilities include those on threat detection in postal flows; automated controls and detection that reduce the need to open or stop containers, packages, baggage or cargo; decision support; portability of control solutions; and technologies to track cross-border illicit trade.

Under this destination the EU has published five calls for proposals that are open for admission:

1. Enhanced security and management of borders, maritime environment, activities and transport, by increased surveillance capability, including high altitude, long endurance aerial support (HORIZON-CL3-2021-BM-01-01)
2. Increased safety, security, performance of the European Border and Coast Guard and of European customs authorities (HORIZON-CL3-2021-BM-01-02)
3. 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)
4. Advanced detection of threats and illicit goods in postal and express courier flows (HORIZON-CL3-2021-BM-01-04)
5. Improved detection of concealed objects on, and within the body of, persons (HORIZON-CL3-2021-BM-01-05)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL3-2021-BM-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

16. /EU Horizon Europe*/ Cluster 3: Resilient Infrastructure 2021 (HORIZON-CL3-2021-INFRA-01), 2 calls open, Deadline: 23.11.2021 17:00 Brussels time

The reliable, robust and resilient operation of infrastructures is vital for the security, well-being and economic prosperity of people in Europe. They provide the basis for our daily lives, connect people to each other and guarantee different kinds of social and economic interactions. To be able to allow for such interactions, be it in transport, communications or services, infrastructures has grown more complex to keep up with the development of modern societies, while at the same time ensuring their resilience against disasters and the impacts of climate change and other factors that affect society e.g. demographic changes. Infrastructures operate and function in a rapidly evolving socio-technological and threat environment with increasingly interconnected networks highly reliant upon one another, which presents both risks and opportunities for their protection. They must be resilient towards different expected and unexpected events, emerging risks, be they natural or man-made, unintentional, accidental or with malicious intent.

Under this destination the EU has published two calls for proposals that are open for admission:

1. European infrastructures and their autonomy safeguarded against systemic risks (HORIZON-CL3-2021-INFRA-01-01)
2. Ensured infrastructure resilience in case of Pandemics (HORIZON-CL3-2021-INFRA-01-02)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL3-2021-INFRA-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

17. /EU Horizon Europe*/ Cluster 3: Increases Cybersecurity 2021 (HORIZON-CL3-2021-CS-01), 4 calls open, Deadline: 21.10.2021 17:00 Brussels time

Europe is in the midst of a digital transformation. Digital technologies are profoundly changing our daily life, our way of working and doing business, and the way people travel, communicate and relate with each other. Digital communication, social media interaction, artificial intelligence, e-government, e-commerce

and digital enterprises are steadily transforming our world. They are generating an ever-increasing amount of data, which, if pooled and used, can lead to a completely new means and levels of value creation. The more interconnected we are, however, the more we are vulnerable to cyber threats.

Digital disruption, notably caused by malicious cyber activities, not only threaten our economies but also our way of life, our freedoms and values, and even try to undermine the cohesion and functioning of our democracy in Europe.

Regardless of the economic, political or personal motivations behind the cyber threats, securing our future wellbeing, freedoms, democratic governance, and prosperity depend on improving our capacity to shield the EU from malicious attacks and to address digital security weaknesses in general. The digital transformation requires improving cybersecurity substantially, so as to ensure the protection of the increasing number of connected devices and the safe operation of network and information systems, including the ones used in power grids, drinking water supply and distribution services, vehicles and transport systems, hospitals and the overall health system, finances, public institutions, factories, and homes. Europe must build resilience to cyber-attacks and create effective cyber deterrence, while making sure that data protection and freedom of citizens are strengthened. These efforts should include considerations for particularly vulnerable organisations and citizens.

The technological tools of cybersecurity are strategic assets, as well as being key growth technologies for the future. It is in the EU's strategic interest to ensure that the EU retains and develops the essential capacities to secure its digital economy, society and democracy, to protect critical hardware and software and to provide key cybersecurity services.

Under this destination the EU has published four calls for proposals that are open for admission:

1. Dynamic business continuity and recovery methodologies based on models and prediction for multi-level Cybersecurity (HORIZON-CL3-2021-CS-01-01)
2. Improved security in open-source and open-specification hardware for connected devices (HORIZON-CL3-2021-CS-01-02)
3. AI for cybersecurity reinforcement (HORIZON-CL3-2021-CS-01-03)
4. Scalable privacy-preserving technologies for cross-border federated computation in Europe involving personal data (HORIZON-CL3-2021-CS-01-04)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL3-2021-CS-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=310s=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;start=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;OfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableStateableState>

18. /EU Horizon Europe*/ Cluster 3: Disaster-Resilient Society 2021 (HORIZON-CL3-2021-DRS-01), 5 calls open, Deadline: 23.11.2021 17:00 Brussels time

The world and our societies are facing growing risks from anthropogenic and natural hazards, which call for enhanced capacities in risk and resilience management and governance[[Overview of natural and

man-made disaster risks the European Union may face, SWD(2020) 330.]], including instruments for better prevention and preparedness, technologies for first and second responders[[A "second responder" is a worker who supports "first responders" such as police, fire, and emergency medical personnel. They are involved in preparing, managing, returning services, and cleaning up sites during and after an event requiring first responders, including crime scenes and areas damaged by fire, storm, wind, floods, earthquakes, or other natural disasters. These types of services may include utility services (shutdown or reinstatement of electrical, gas, sewage, and/or water services), wireless or wireline communication services, specialty construction (i.e. shelter construction), hazardous waste clean-up, road clearing, crowd control, emergency services (i.e. Red Cross), first aid, food services, security services, social services (i.e., trauma counsellors), and sanitation.]], and where relevant for citizens, and overall societal resilience. The increasing severity and frequency of extreme weather events (e.g. floods, heat and cold waves, storms) and associated events (e.g. forest fires) resulting from climate change compounded vulnerabilities and exposure require a specific research focus while geological hazards (e.g. earthquakes, tsunamis, volcanic eruptions) and slow-onset trends (e.g. sea-level rise, glacier melt, droughts) also deserve a continuous attention. Anthropogenic threats also demand strengthened crisis management capacities, as shown by recent industrial accidents and terrorist attacks associated with chemical, biological, radiological, nuclear and explosive materials (CBRN-E). Finally, the COVID-19 crisis has demonstrated how societies have become more exposed and vulnerable to pandemic risks and has shown that existing global inequalities often exacerbate both the exposure and vulnerability of communities, infrastructures and economies.

Under this destination the EU has published five calls for proposals that are open for admission:

1. Improved understanding of risk exposure and its public awareness in areas exposed to multi-hazards (HORIZON-CL3-2021-DRS-01-01)
2. 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)
3. Enhanced assessment of disaster risks, adaptive capabilities and scenario building based on available historical data and projections (HORIZON-CL3-2021-DRS-01-03)
4. Developing a prioritisation mechanism for research programming in standardisation related to natural hazards and/or CBRN-E sectors (HORIZON-CL3-2021-DRS-01-04)
5. Fast deployed mobile laboratories to enhance situational awareness for pandemics and emerging infectious diseases (HORIZON-CL3-2021-DRS-01-05)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL3-2021-DRS-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;startCode=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;eOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableStateableState>

19. /EU Horizon Europe*/ Cluster 3: Support to Security Research and Innovation 2021 (HORIZON-CL3-2021-SSRI-01), 5 calls open, Deadline: 23.11.2021, 17:00 Brussels time

The extent to which innovative technologies developed thanks to EU R&I investment are industrialised and commercialised by EU industry, and later acquired and deployed by end-users, thus contributing to the development of security capabilities[[For the purpose of this work programme, the terms "Capability"

should be understood as "the ability to pursue a particular policy priority or achieve a desired operational effect". The term "capability" is often interchanged with the term "capacity", but this should be avoided. "Capacity" could refer to an amount or volume of which one organisation could have enough or not. On the other hand, "capability" refers to an ability, an aptitude or a process that can be developed or improved in consonance with the ultimate objective of the organisation.]], could give a valuable measure of the impact achieved with the programme. However, there are factors inherent to the EU security ecosystem (often attributed to the market) that hinder the full achievement of this impact. These include market fragmentation, cultural barriers, analytical weaknesses, programming weaknesses, ethical, legal and societal considerations or lack of synergies between funding instruments, among others. It is worth noting that such factors affect all the security domains addressed in Cluster 3; that there is not one predominant factor with sufficient leverage by itself to change the overall innovation uptake dynamics; and that they exhibit complex relationships among them which are difficult to disentangle. It should also be noted that the innovation uptake process starts before the R&I cycle is triggered, and it is not finalised with the successful termination of a research project. Therefore, the uptake challenge extends beyond the realm of R&I. However, from within R&I it is possible, if not to materialise the uptake in every case, at least to pave the way towards its materialisation.

Under this destination the EU has published five calls for proposals that are open for admission:

1. A maturity assessment framework for security technologies (HORIZON-CL3-2021-SSRI-01-01)
2. Knowledge Networks for Security Research & Innovation (HORIZON-CL3-2021-SSRI-01-02)
3. National Contact Points (NCPs) in the field of security and cybersecurity (HORIZON-CL3-2021-SSRI-01-03)
4. Demand-led innovation for situation awareness in civil protection (HORIZON-CL3-2021-SSRI-01-04)
5. Security research technologies driven by active civil society engagement: transdisciplinary methods for societal impact assessment and impact creation (HORIZON-CL3-2021-SSRI-01-05)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL3-2021-SSRI-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;subject=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

20. /EU Horizon Europe*/ Cluster 4: Twin Green and Digital Transition 2021 (HORIZON-CL4-2021-TWIN-TRANSITION-01), 17 calls open, Deadline: 23.09.2021 17:00 Brussels time

Accelerating the twin green and digital transitions will be key to building a lasting and prosperous growth, in line with the EU's new growth strategy, the European Green Deal. Europe's ability to lead the twin transitions will require new technologies, with investment and innovation to match. Research and innovation will be fundamental to create the new products, services and business models needed to sustain or enable EU industrial leadership and competitiveness, and to create new markets for climate neutral and circular products. The shift towards a sustainable and inclusive economic model will be further enabled by the broader diffusion and uptake of digital and clean technologies across key sectors. As Europe transitions towards climate neutrality, some sectors will have to make bigger and more transformative changes than others, due to their centrality in a variety of value chains and their large potential contribution to emissions reductions. Activities under this Destination focus on the twin green

and digital transition providing a green productivity premium to discrete manufacturing, construction and energy-intensive industries, including process industries. This will make an essential and significant contribution to achieving climate neutrality in the European Union by 2050, and to the achievement of a circular economy. It will also enhance the Union's open strategic autonomy with regard to the underlying technologies. To achieve these goals, the activities in this Destination are complementary to those in Destination 2, which will enhance open strategic autonomy in key strategic value chains for a resilient industry.

Under this destination the EU has published 17 calls for proposals that are open for admission:

1. AI enhanced robotics systems for smart manufacturing (AI, Data and Robotics - Made in Europe Partnerships) (IA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-01)
2. Zero-defect manufacturing towards zero-waste (Made in Europe Partnership) (IA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-02)
3. Laser-based technologies for green manufacturing (Photonics - Made in Europe Partnerships) (RIA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-03)
4. Manufacturing technologies for bio-based materials (Made in Europe Partnership) (RIA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-05)
5. Artificial Intelligence for sustainable, agile manufacturing (AI, Data and Robotics - Made in Europe Partnerships) (IA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-07)
6. Data-driven Distributed Industrial Environments (Made in Europe Partnership) (IA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-08)
7. Digital permits and compliance checks for buildings and infrastructure (IA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-10)
8. Automated tools for the valorisation of construction waste (RIA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-11)
9. Breakthrough technologies supporting technological sovereignty in construction (RIA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-12)
10. Deploying industrial-urban symbiosis solutions for the utilization of energy, water, industrial waste and by-products at regional scale (Processes4Planet Partnership) (RIA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-14)
11. Hubs for Circularity European Community of Practice (ECoP) platform (Processes4Planet Partnership) (CSA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-16)
12. Plastic waste as a circular carbon feedstock for industry (Processes4Planet Partnership) (IA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-17)
13. Carbon Direct Avoidance in steel: Electricity and hydrogen-based metallurgy (Clean Steel Partnership) (IA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-18)
14. Improvement of the yield of the iron and steel making (Clean Steel Partnership) (IA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-19)
15. Reducing environmental footprint, improving circularity in extractive and processing value chains (IA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-20)
16. Design and optimisation of energy flexible industrial processes (Processes4Planet Partnership) (IA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-21)
17. Adjustment of Steel process production to prepare for the transition towards climate neutrality (Clean Steel Partnership) (IA) (HORIZON-CL4-2021-TWIN-TRANSITION-01-22)

Further Information:

<https://www.euhoerschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL4-2021-TWIN-TRANSITION-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableTopicSearchTableState>

21. /EU Horizon Europe*/ Cluster 4: Digital and emerging technologies for competitiveness and fit for the green deal (HORIZON-CL4-2021-DIGITAL-EMERGING-01), 17 calls open, Deadline: 21.10.2021 17:00 Brussels time

Electronic and photonic components, and the software that defines how they work, are the key digital technologies that underpin all digital systems. As the digitalisation of all sectors accelerates, most industries depend on early access to digital components. Dependence on these technologies represents a clear threat to Europe's autonomy, particularly in periods of geopolitical instability, exposing Europe to risks of vulnerability. Actions under this Destination will build on EU strengths in low-power consumption and ultra-secure components, Europe needs to develop the essential electronic and photonic components for a wide range of applications such as healthcare equipment, electric and autonomous vehicles, manufacturing and production plants and equipment, telecom networks, aerospace vehicles, consumer products.

R&I initiatives on 6G technologies are now starting in leading regions world-wide, with the first products and infrastructures expected for the end of this decade. 6G systems are expected to offer a new step change in performance from Gigabit towards Terabit capacities and sub-millisecond response times, to enable new critical applications such as real-time automation or eXtended Reality ("Internet of Senses"). Europe must engage now to be among the top influencers of - and competitors in - these technologies and ensure that emerging network technology standards are defined following European values and energy-efficiency requirements. Main actions on 6G technologies will be undertaken in the Smart Networks and Services Joint Undertaking. Despite a strong European scientific community's on AI and robotics, Europe lags behind in AI diffusion. Actions under this Destination will develop world-class technologies serving the needs of all types of European industries (e.g. manufacturing, healthcare, transport, agriculture, energy, construction), providing top-performing solutions that businesses will trust and adopt to maintain their competitiveness and maximise their contribution to environmental sustainability.

Under this destination the EU has published 17 calls for proposals that are open for admission:

1. Ultra-low-power, secure processors for edge computing (RIA)
(HORIZON-CL4-2021-DIGITAL-EMERGING-01-01)
2. Open Source Hardware for ultra-low-power, secure processors (CSA)
(HORIZON-CL4-2021-DIGITAL-EMERGING-01-05)
3. Advanced optical communication components (Photonics Partnership) (IA)
(HORIZON-CL4-2021-DIGITAL-EMERGING-01-06)
4. Advanced Photonic Integrated Circuits (Photonics Partnership) (RIA)
(HORIZON-CL4-2021-DIGITAL-EMERGING-01-07)
5. AI, Data and Robotics for the Green Deal (AI, Data and Robotics Partnership) (IA)
(HORIZON-CL4-2021-DIGITAL-EMERGING-01-09)

6. AI, Data and Robotics at work (AI, Data and Robotics Partnership) (IA)
(HORIZON-CL4-2021-DIGITAL-EMERGING-01-10)
7. Pushing the limit of robotics cognition (AI, Data and Robotics Partnership) (RIA) (HORIZON-CL4-2021-DIGITAL-EMERGING-01-11)
8. European Network of Excellence Centres in Robotics (RIA)
(HORIZON-CL4-2021-DIGITAL-EMERGING-01-12)
9. Academia-Industry Forum on Emerging Enabling Technologies (CSA)
(HORIZON-CL4-2021-DIGITAL-EMERGING-01-13)
10. Advanced spintronics: Unleashing spin in the next generation ICs (RIA)
(HORIZON-CL4-2021-DIGITAL-EMERGING-01-14)
11. Next generation quantum sensing technologies (RIA) (HORIZON-CL4-2021-DIGITAL-EMERGING-01-21)
12. International cooperation with Canada (RIA) (HORIZON-CL4-2021-DIGITAL-EMERGING-01-23)
13. Coordination of European Smart Network actions (CSA)
(HORIZON-CL4-2021-DIGITAL-EMERGING-01-26)
14. Development of technologies/devices for bio-intelligent manufacturing (RIA)
(HORIZON-CL4-2021-DIGITAL-EMERGING-01-27)
15. Investing in new emerging quantum computing technologies (RIA)
(HORIZON-CL4-2021-DIGITAL-EMERGING-01-30)
16. Functional electronics for green and circular economy (RIA)
(HORIZON-CL4-2021-DIGITAL-EMERGING-01-31)
17. Support and coordination of the Quantum Technologies Flagship Initiative (CSA)
(HORIZON-CL4-2021-DIGITAL-EMERGING-01-32)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL4-2021-DIGITAL-EMERGING-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;s=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableTopicSearchTableState>

22. /EU Horizont Europe*/ A Human-Centered and Ethical Development of Digital and Industrial Technologies 2021 (HORIZON-CL4-2021-HUMAN-01), 24 calls open, Deadline: 21.11.2021 Brussels time

Actions under this Destination will support EU objectives of inclusiveness, by supporting a human-centred approach to technology development that is aligned with European social and ethical values, as well as sustainability. These actions will further contribute to addressing the challenges faced by European industry and support the creation of sustainable, high-quality jobs by targeting skills mismatches, the need to empower workers, and ethical considerations relating to technological progress.

Actions should devote particular attention to openness of the solutions and results, and transparency of the research process. To ensure trustworthiness, public awareness and support, wide adoption by user communities for the benefit of society, actions should promote the highest standards of transparency and openness. Actions should ensure that the processes and outcomes of research and innovation align with the needs, values and expectations of society, in line with Responsible Research and Innovation.

Under this destination the EU has published 24 calls for proposals that are open for admission:

1. Verifiable robustness, energy efficiency and transparency for Trustworthy AI: Scientific excellence boosting industrial competitiveness (AI, Data and Robotics Partnership) (RIA) (HORIZON-CL4-2021-HUMAN-01-01)
2. European coordination, awareness, standardisation & adoption of trustworthy European AI, Data and Robotics (AI, Data and Robotics Partnership) (CSA) (HORIZON-CL4-2021-HUMAN-01-02)
3. European Network of AI Excellence Centres: Pillars of the European AI lighthouse (RIA) (HORIZON-CL4-2021-HUMAN-01-03)
4. Trust & data sovereignty on the Internet (RIA) (HORIZON-CL4-2021-HUMAN-01-04)
5. Trustworthy open search and discovery (RIA) (HORIZON-CL4-2021-HUMAN-01-05)
6. Innovation for Media, including eXtended Reality (IA) (HORIZON-CL4-2021-HUMAN-01-06)
7. Next Generation Internet community-building and outreach (CSA) (HORIZON-CL4-2021-HUMAN-01-07)
8. NGI International Collaboration - Transatlantic fellowship programme (CSA) (HORIZON-CL4-2021-HUMAN-01-08)
9. NGI Tech Review (CSA) (HORIZON-CL4-2021-HUMAN-01-09)
10. eXtended Reality Modelling (RIA) (HORIZON-CL4-2021-HUMAN-01-13)
11. Awareness raising on Intellectual property (IP) management for European R&I (CSA) (HORIZON-CL4-2021-HUMAN-01-17)
12. eXtended Reality for All - Haptics (RIA) (HORIZON-CL4-2021-HUMAN-01-14)
13. Fostering standardisation to boost European industry's competitiveness (CSA) (HORIZON-CL4-2021-HUMAN-01-18)
14. Testing innovative solutions on local communities' demand (CSA) (HORIZON-CL4-2021-HUMAN-01-19)
15. Piloting a new industry-academia knowledge exchange focussing on companies' needs (CSA) (HORIZON-CL4-2021-HUMAN-01-20)
16. Art-driven use experiments and design (RIA) (HORIZON-CL4-2021-HUMAN-01-21)
17. Tackling gender, race and other biases in AI (RIA) (HORIZON-CL4-2021-HUMAN-01-24)
18. eXtended Collaborative Telepresence (IA) (HORIZON-CL4-2021-HUMAN-01-25)
19. Workforce skills for industry 5.0 (RIA) (HORIZON-CL4-2021-HUMAN-01-26)
20. AI to fight disinformation (RIA) (HORIZON-CL4-2021-HUMAN-01-27)
21. eXtended Reality Ethics, Interoperability and Impact (CSA) (HORIZON-CL4-2021-HUMAN-01-28)
22. Support for transnational activities of National Contact Points in the thematic area of Digital (CSA) (HORIZON-CL4-2021-HUMAN-01-29)
23. Support for transnational activities of National Contact Points in the thematic area of Industry (CSA) (HORIZON-CL4-2021-HUMAN-01-30)
24. Support for transnational activities of National Contact Points in the thematic area of Space (CSA) (HORIZON-CL4-2021-HUMAN-01-31)

Further Information:

<https://www.euhochschnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL4-2021-HUMAN-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;prospect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableStatehTableState>

23. /EU Horizon Europe*/ Cluster 5: Climate sciences and responses (HORIZON-CL5-2021-

Europe has been at the forefront of climate science and should retain its leadership position to support EU policies as well as international efforts for a global uptake of climate action in line with the Paris Agreement and the Sustainable Development Goals (SDGs), including biodiversity objectives. Advancing climate science and further broadening and deepening the knowledge base is essential to inform the societal transition towards a climate neutral and climate resilient society by 2050, as well as towards a more ambitious greenhouse gas reduction target by 2030. It will involve research that furthers our understanding of past, present and expected future changes in climate and its implications on ecosystems and society, closing knowledge gaps, and develops the tools that support policy coherence and the implementation of effective mitigation and adaptation solutions. Due to the inherent international character of this subject, international collaboration is encouraged for topics under this destination.

The activities implemented under this section will enable the transition to a climate-neutral and resilient society and economy through improving the knowledge of the Earth system and the ability to predict and project its changes under different natural and socio-economic drivers, including a better understanding of society's response and behavioural changes, and allowing a better estimation of the impacts of climate change and the design and evaluation of solutions and pathways for climate change mitigation and adaptation and related social transformation.

Under this destination the EU has published 9 calls for proposals that are open for admission:

1. Improved understanding of greenhouse gas fluxes and radiative forcers, including carbon dioxide removal technologies (HORIZON-CL5-2021-D1-01-01)
2. Modelling the role of the circular economy for climate change mitigation (HORIZON-CL5-2021-D1-01-02)
3. Maximising the impact and synergy of European climate change research and innovation (HORIZON-CL5-2021-D1-01-03)
4. Enhanced integrated assessment in pursuit of global climate goals (HORIZON-CL5-2021-D1-01-04)
5. Better understanding of the interactions between climate change impacts and risks, mitigation and adaptation options (HORIZON-CL5-2021-D1-01-05)
6. Supporting and standardising climate services (HORIZON-CL5-2021-D1-01-06)
7. Improved economic methods for decision-making on climate and environmental policies (HORIZON-CL5-2021-D1-01-07)
8. Restoration of natural wetlands, peatlands and floodplains as a strategy for fast mitigation benefits; pathways, trade-offs and co-benefits (HORIZON-CL5-2021-D1-01-08)
9. The contribution of forest management to climate action: pathways, trade-offs and co-benefits (HORIZON-CL5-2021-D1-01-09)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL5-2021-D1-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=3105;status=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;start=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

24. /EU Horizon Europe*/ Cluster 5: Cross-sectoral solutions for the climate transition (HORIZON-CL5-2021-D2-01), 16 calls open, Deadline: 19.10.2021

This Destination covers thematic areas which are cross-cutting by nature and can provide key solutions for climate, energy and mobility applications. In line with the scope of cluster 5 such areas are batteries, hydrogen, communities and cities, early-stage breakthrough technologies as well as citizen engagement. Although these areas are very distinct in terms of challenges, stakeholder communities and expected impacts, they have their cross-cutting nature as a unifying feature and are therefore grouped together under this Destination.

The expected impact, in line with the Strategic Plan, is to contribute to the "Clean and sustainable transition of the energy and transport sectors towards climate neutrality facilitated by innovative cross-cutting solutions", notably through:

Nurturing a world-class European research and innovation eco-system on batteries along the value chain based on sustainable pathways. It includes improvement of technological performance to increase application user attractiveness (in particular in terms of safety, cost, user convenience, fast charging and environmental footprint), in parallel supporting the creation of a competitive, circular, and sustainable European battery manufacturing value chain.

Increased efficiency of Europe's cities' and communities' energy, resource use and mobility patterns and cities' and communities' overall sustainability, thereby improving their climate-resilience and attractiveness to businesses and citizens in a holistic fashion. This also includes improved air and water quality, resilience of energy supply, intelligent mobility services and logistics, liveability and accessibility of cities, public health, comfortable, affordable zero emissions housing as well as the exploitation of relevant European technologies and knowledge.

Facilitating the transformation to a climate neutral society, in line with the EU's 2050 climate targets, through more effectively engaging and empowering citizens to participate in the transition, from planning to decision-making and implementation.

Nurturing the development of emerging technologies with high potential to enable zero-greenhouse gas and negative emissions in energy and transport.

Under this destination the EU has published 16 calls for proposals that are open for admission:

A competitive and sustainable European battery value chain

1. Sustainable processing, refining and recycling of raw materials (Batteries Partnership) (HORIZON-CL5-2021-D2-01-01)
2. Advanced high-performance Generation 3b (high capacity / high voltage) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership) (HORIZON-CL5-2021-D2-01-02)
3. Advanced high-performance Generation 4a, 4b (solid-state) Li-ion batteries supporting electro mobility and other applications (Batteries Partnership) (HORIZON-CL5-2021-D2-01-03)
4. Environmentally sustainable processing techniques applied to large scale electrode and cell component manufacturing for Li ion batteries (Batteries Partnership) (HORIZON-CL5-2021-D2-01-04)
5. Manufacturing technology development for solid-state batteries (SSB, Generations 4a - 4b batteries) (Batteries Partnership) (HORIZON-CL5-2021-D2-01-05)
6. Sustainable, safe and efficient recycling processes (Batteries Partnership) (HORIZON-CL5-2021-D2-01-06)
7. Support for establishment of R&I ecosystem, developing strategic forward-looking orientations to ensure future skills development, knowledge and technological leadership for accelerated disruptive technology exploration and uptake (Batteries Partnership) (HORIZON-CL5-2021-D2-01-07)

Emerging breakthrough technologies and climate solutions

8. Emerging technologies for a climate neutral Europe (HORIZON-CL5-2021-D2-01-08)
9. Methane cracking to usable hydrogen and carbon (HORIZON-CL5-2021-D2-01-09)
10. Technologies for non- CO₂ greenhouse gases removal (HORIZON-CL5-2021-D2-01-10)
11. Direct atmospheric carbon capture and conversion (HORIZON-CL5-2021-D2-01-11)

Citizens and stakeholder engagement

12. Fostering a just transition in Europe (HORIZON-CL5-2021-D2-01-12)
13. Strengthening Social Sciences and Humanities (SSH) research communities in climate, energy and mobility disciplines (HORIZON-CL5-2021-D2-01-13)

14. Accelerating the climate transition in difficult contexts: transition super-labs (pilot)

(HORIZON-CL5-2021-D2-01-14)

15. Fostering cooperation between Horizon Europe cluster 5 National Contact Points (NCPs)

(HORIZON-CL5-2021-D2-01-15)

Communities and cities

16. Co-Funded Partnership: Driving Urban Transitions to a sustainable future (DUT)

(HORIZON-CL5-2021-D2-01-16)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL5-2021-D2-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=310s=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreausAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;startt=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;OfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableStatebleState>

25. /EU Horizon Europe*/ Cluster 5: Sustainable, secure and competitive energy supply (HORIZON-CL5-2021-D3-02), 15 calls open, Deadline: 05.01.2022 17:00 Brussels time

Renewable energy technologies provide major opportunities to replace or substitute carbon from fossil origin in the power sector and in other economic sectors such as heating/cooling, transportation, agriculture and industry. Their large scale and decentralised deployment is expected to create more jobs than the fossil fuel equivalent. Renewable energy technologies are the baseline on which to build a sustainable European and global climate-neutral future. A strong global European leadership in renewable energy technologies, coupled with circularity and sustainability, will pave the way to increase energy security and reliability.

It is imperative to enhance affordability, security, sustainability and efficiency for more established renewable energy technologies (such as wind energy, photovoltaics or bioenergy), and to further diversify the technology portfolio. Furthermore, advanced renewable fuels, including synthetic and sustainable advanced biofuels, are also needed to provide long-term carbon-neutral solutions for the transport and energy-intensive industrial sectors, in particular for applications where direct electrification is not a technically and cost efficient option.

Under this destination the EU has published 15 topics which are open for submission.

Global leadership in renewable energy

1. Demonstration of wave energy devices to increase experience in real sea condition

(HORIZON-CL5-2021-D3-02-01)

2. Sustainability and educational aspects for renewable energy and renewable fuel technologies

(HORIZON-CL5-2021-D3-02-02)

3. Market Uptake Measures of renewable energy systems (HORIZON-CL5-2021-D3-02-03)

4. Novel tandem, high efficiency Photovoltaic technologies targeting low cost production with earth abundant materials (HORIZON-CL5-2021-D3-02-04)

Energy systems, grids and storage

5. Energy Sector Integration: Integrating and combining energy systems to a cost-optimised and flexible energy system of systems (HORIZON-CL5-2021-D3-02-05)

6. Increasing energy system flexibility based on sector-integration services to consumers (that benefits system management by DSOs and TSOs) (HORIZON-CL5-2021-D3-02-06)
7. Reliability and resilience of the grid: Measures for vulnerabilities, failures, risks and privacy (HORIZON-CL5-2021-D3-02-07)
8. Electricity system reliability and resilience by design: High-Voltage, Direct Current (HVDC)-based systems and solutions (HORIZON-CL5-2021-D3-02-08)
9. Demonstration of superconducting systems and elpipes (HORIZON-CL5-2021-D3-02-09)
10. Demonstration of advanced Power Electronics for application in the energy sector (HORIZON-CL5-2021-D3-02-10)
11. Reinforcing digitalisation related know how of local energy ecosystems (HORIZON-CL5-2021-D3-02-11)
Carbon capture, utilisation and storage (CCUS)
12. Integration of CCUS in hubs and clusters, including knowledge sharing activities (HORIZON-CL5-2021-D3-02-12)
13. Cost reduction of CO2 capture (new or improved technologies) (HORIZON-CL5-2021-D3-02-13)
Cross-cutting issues
14. Support to the activities of the European Geological Services (HORIZON-CL5-2021-D3-02-14)
15. Support to the activities of the ETIPs and technology areas of the SET Plan (HORIZON-CL5-2021-D3-02-15)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL5-2021-D3-02;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=310s=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=43108390;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;spect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDeliveryOfDelivery=null;sortQuery=title;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

26. /EU Horizon Europe*/ Cluster 5: Efficient, sustainable and inclusive energy use (HORIZON-CL5-2021-D4-01), 5 calls open, Deadline: 19.10.2021 17:00 Brussels time

This Destination addresses activities targeting the energy demand side, notably a more efficient use of energy as regards buildings and industry.

Demand side solutions and improved energy efficiency are among the most cost effective ways to support the transition to climate neutrality, reduce pollution and raw materials use, to create inclusive growth and employment in Europe, to bring down costs for consumers, to reduce our import dependency and redirect investments towards smart and sustainable infrastructure. The transition to a decentralised and climate neutral energy system will greatly benefit from the use of digital technologies which will enable buildings and industrial facilities to become inter-active elements in the energy system by optimising energy consumption, distributed generation and storage and vis-à-vis the energy system. They will also trigger new business opportunities and revenue streams for up-graded, innovative energy services which valorise energy savings and flexible consumption.

Under this destination the EU has published five topics which are open for submission.

1. Advanced energy performance assessment and certification (HORIZON-CL5-2021-D4-01-01)
2. Industrialisation of deep renovation workflows for energy-efficient buildings (HORIZON-CL5-2021-D4-01-02)

3. Advanced data-driven monitoring of building stock energy performance (HORIZON-CL5-2021-D4-01-03)
4. Full-scale demonstration of heat upgrade technologies with supply temperature in the range 90 - 160°C (HORIZON-CL5-2021-D4-01-04)
5. Industrial excess (waste) Heat-to-Power conversion based on organic Rankine cycles (HORIZON-CL5-2021-D4-01-05)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL5-2021-D4-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31031094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;start=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;OfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

27. /EU Horizon Europe*/ Cluster 5: Clean and competitive solutions for all transport modes (HORIZON-CL5-2021-D5-01), 17 calls open, Deadline: 14.09.2021 17:00 Brussels time

This Destination addresses activities that improve the climate and environmental footprint, as well as competitiveness, of different transport modes.

The transport sector is responsible for 23% of CO₂ emissions and remains dependent on oil for 92% of its energy demand. While there has been significant technological progress over past decades, projected GHG emissions are not in line with the objectives of the Paris Agreement due to the expected increase in transport demand. Intensified research and innovation activities are therefore needed, across all transport modes and in line with societal needs and preferences, in order for the EU to reach its policy goals towards a net-zero greenhouse gas emissions by 2050 and to reduce significantly air pollutants. The expected impact, in line with the Strategic Plan, is to contribute "Towards climate-neutral and environmental friendly mobility through clean solutions across all transport modes while increasing global competitiveness of the EU transport sector", notably through:

Transforming road transport to zero-emission mobility through a world-class European research and innovation and industrial system, ensuring that Europe remains world leader in innovation, production and services in relation to road transport. Accelerating the reduction of all aviation impacts and emissions (CO₂ and non-CO₂, including manufacturing and end-of-life, noise), developing aircraft technologies for deep reduction of greenhouse gas emissions, and maintaining European aero-industry's global leadership position. Accelerate the development and prepare the deployment of climate neutral and clean solutions in the shipping sector, reduce its environmental impact (on biodiversity, noise, pollution and waste management), improve its system efficiency, leverage digital and EU satellite-navigation solutions and contribute to the competitiveness of the European waterborne sector. Devising more effective ways for reducing emissions and their impacts through improved scientific knowledge.

Under this destination the EU has published 17 topics which are open for submission.

Zero-emission road transport

1. Nextgen vehicles: Innovative zero emission BEV architectures for regional medium freight haulage (2ZERO) (HORIZON-CL5-2021-D5-01-01)
2. Nextgen EV components: Integration of advanced power electronics and associated controls (2ZERO) (HORIZON-CL5-2021-D5-01-02)

3. System approach to achieve optimised Smart EV Charging and V2G flexibility in mass-deployment conditions (ZZERO) (HORIZON-CL5-2021-D5-01-03)
4. LCA and design for sustainable circularity - holistic approach for zero-emission mobility solutions and related battery value chain (ZZERO & Batteries Partnership) (HORIZON-CL5-2021-D5-01-04)
- Aviation
5. Greenhouse gas aviation emissions reduction technologies towards climate neutrality by 2050 (HORIZON-CL5-2021-D5-01-05)
6. Next generation digital aircraft transformation in design, manufacturing, integration and maintenance (HORIZON-CL5-2021-D5-01-06)
- Enabling climate neutral, clean, smart, and competitive waterborne transport
7. Enabling the safe and efficient on-board storage and integration within ships of large quantities of ammonia and hydrogen fuels (ZEWT Partnership) (HORIZON-CL5-2021-D5-01-07)
8. 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) (HORIZON-CL5-2021-D5-01-08)
9. CSA identifying waterborne sustainable fuel deployment scenarios (ZEWT Partnership) (HORIZON-CL5-2021-D5-01-09)
10. Innovative on-board energy saving solutions (ZEWT Partnership) (HORIZON-CL5-2021-D5-01-10)
11. Hyper powered vessel battery charging system (ZEWT Partnership) (HORIZON-CL5-2021-D5-01-11)
12. Assessing and preventing methane slip from LNG engines in all conditions within both existing and new vessels (ZEWT Partnership) (HORIZON-CL5-2021-D5-01-12)
13. Digital Twin models to enable green ship operations (ZEWT Partnership) (HORIZON-CL5-2021-D5-01-13)
14. Proving the feasibility of a large clean ammonia marine engine (ZEWT Partnership) (HORIZON-CL5-2021-D5-01-14)
- Impact of transport on environment and human health
15. Development and demonstration of cost affordable and adaptable retrofit solutions for tailpipe and brake polluting emissions (HORIZON-CL5-2021-D5-01-15)
16. Assessment of noise and particle emissions of L category vehicles from real driving conditions (HORIZON-CL5-2021-D5-01-16)
- Cross-cutting actions
17. Support for dissemination events in the field of Transport Research (HORIZON-CL5-2021-D5-01-17)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL5-2021-D5-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=310s=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;start=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;OfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

28. /EU Horizon Europe*/ Cluster 5: safe, resilient Transport and Smart Mobility services for passengers and goods (HORIZON-CL5-2021-D6-01), 13 calls open, Deadline: 19.10.2021 17:00 Brussels time

This Destination includes activities addressing safe and smart mobility services for passengers and goods. Europe needs to manage the transformation of supply-based transport into safe, resilient and sustainable transport and demand-driven, smart mobility services for passengers and goods. Suitable research and innovation will enable significant safety, environmental, economic and social benefits by reducing accidents caused by human error, decreasing traffic congestion, reducing energy consumption and emissions of vehicles, increasing efficiency and productivity of freight transport operations. To succeed in this transformation, Europe's ageing (and not always sustainable) transport infrastructure needs to be prepared for enabling cleaner and smarter operations.

Europe needs also to maintain a high-level of transport safety for its citizens. Resilience should be built in the transport systems to prevent, mitigate and recover from disruptions. Research and innovation will underpin the three safety pillars: technologies, regulations and human factors.

Under this destination the EU has published 13 topics which are open for submission.

Connected, Cooperative and Automated Mobility (CAAM)

1. More powerful and reliable on-board perception and decision-making technologies addressing complex environmental conditions (CCAM Partnership) (HORIZON-CL5-2021-D6-01-01)
2. Common approaches for the safety validation of CCAM systems (CCAM Partnership) (HORIZON-CL5-2021-D6-01-02)
3. Physical and Digital Infrastructure (PDI), connectivity and cooperation enabling and supporting CCAM (CCAM Partnership) (HORIZON-CL5-2021-D6-01-03)
4. Cyber secure and resilient CCAM (CCAM Partnership) (HORIZON-CL5-2021-D6-01-04)
5. 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)
6. Framework for better coordination of large-scale demonstration pilots in Europe and EU-wide knowledge base (CCAM Partnership) (HORIZON-CL5-2021-D6-01-06)
- Multimodal and sustainable transport systems for passengers and goods
7. 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)
8. New delivery methods and business/operating models to green the last mile and optimise road transport (HORIZON-CL5-2021-D6-01-08)
9. Climate resilient and environmentally sustainable transport infrastructure, with a focus on inland waterways (HORIZON-CL5-2021-D6-01-09)
- Safety and resilience - per mode and across all transport modes
10. Testing safe lightweight vehicles and improved safe human-technology interaction in the future traffic system (HORIZON-CL5-2021-D6-01-10)
11. Radical improvement of road safety in low and medium income countries in Africa (HORIZON-CL5-2021-D6-01-11)
12. Controlling infection on large passenger ships (HORIZON-CL5-2021-D6-01-12)
13. Safe automation and human factors in aviation - intelligent integration and assistance (HORIZON-CL5-2021-D6-01-13)

Further Information:

<https://www.euhoerschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL5-2021-D6-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=310s=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;start=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;OfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

29. /EU Horizon Europe*/ Cluster 6: Biodiversity and ecosystem services (HORIZON-CL6-2021-BIODIV-01), 21 calls open, Deadline: 06.10.2021 17:00 Brussels time

The EU biodiversity strategy for 2030 is a cornerstone of the European Green Deal that will put Europe's biodiversity on the path to recovery by 2030, for the benefit of people, the climate and the planet. It will also prepare the EU to take a leading role in the upcoming international negotiations on a new global framework to halt biodiversity loss. With the Green Deal's 'do no significant harm' vision, all EU policies will become more biodiversity-friendly, focusing more on the sustainable use of ecosystems, supporting the recovery in a post-pandemic world[[COM/2020/380 EU biodiversity strategy for 2030: Bringing nature back into our lives]]. This policy vision is fully supported in the strategic plan of Horizon Europe for 2021-2024 in its first key strategic orientation 'Protecting and restoring ecosystems and biodiversity and managing sustainably natural resources on land and at sea, and achieving climate neutrality and adaptation'. Consequently, Destination 'Biodiversity and ecosystem services' intends to achieve the following expected impact from Cluster 6 'Biodiversity is back on a path to recovery, and ecosystems and their services are preserved and sustainably restored on land, inland water and at sea through improved knowledge and innovation'. All actions funded under this destination must therefore help to deliver this main impact.

Research and innovation is key to delivering results that will have an important impact on biodiversity, food, health, water and climate, which are all interconnected, and to achieving the goal of healthy and resilient ecosystems by 2030. It will also enable transformational change engaging European society and economy and their global impacts, making decisions more biodiversity-friendly. R&I will support policy targets, develop nature-based solutions[[Nature-based solutions are "inspired and supported by nature, which are cost-effective, simultaneously provide environmental, social and economic benefits and help build resilience. Such solutions bring more, and more diverse, nature and natural features and processes into cities, landscapes and seascapes, through locally adapted, resource-efficient and systemic interventions. Hence, nature-based solutions must benefit biodiversity and support the delivery of a range of ecosystem services."]] and holistic approaches to address the main causes of biodiversity loss, particularly in connection to production systems, bringing all sectors together to be integrated in ecosystem-based management. Investments in R&I will help to protect and restore the integrity of terrestrial, aquatic and marine ecosystems, currently under multiple pressures, and protect and restore their capacity to deliver a wide range of essential services. Under Horizon Europe, a long-term strategic research agenda for biodiversity will also be developed.

Under this destination the EU has published 21 topics which are open for submission.

Understanding biodiversity decline

1. European participation in global biodiversity genomics endeavours aimed at identifying all biodiversity on Earth (HORIZON-CL6-2021-BIODIV-01-01)
2. Data and technologies for the inventory, fast identification and monitoring of endangered wildlife and other species groups (HORIZON-CL6-2021-BIODIV-01-02)
3. Understanding and valuing coastal and marine biodiversity and ecosystem services (HORIZON-CL6-2021-BIODIV-01-03)
4. Assess and predict integrated impacts of cumulative direct and indirect stressors on coastal and marine biodiversity, ecosystems and their services (HORIZON-CL6-2021-BIODIV-01-04)
5. The economics of nature-based solutions: cost-benefit analysis, market development and funding (HORIZON-CL6-2021-BIODIV-01-05)

Valuing and restoring biodiversity and ecosystem services

6. Nature-based solutions, prevention and reduction of risks and the insurance sector (HORIZON-CL6-2021-BIODIV-01-06)

7. Ecosystems and their services for an evidence-based policy and decision-making (HORIZON-CL6-2021-BIODIV-01-07)
8. Supporting the development of a coherent and resilient Trans-European Nature Network (HORIZON-CL6-2021-BIODIV-01-08)
9. Assessing and consolidating recent scientific advances on freshwater ecosystem restoration (HORIZON-CL6-2021-BIODIV-01-09)
10. Demonstration of measures and management for coastal and marine ecosystems restoration and resilience in simplified socio-ecological systems (HORIZON-CL6-2021-BIODIV-01-10)
11. What else is out there? Exploring the connection between biodiversity, ecosystems services, pandemics and epidemic risk (HORIZON-CL6-2021-BIODIV-01-11)
12. Improved science based maritime spatial planning and identification of marine protected areas (HORIZON-CL6-2021-BIODIV-01-12)
- Managing biodiversity in primary production
13. Breeding for resilience: focus on root-based traits (HORIZON-CL6-2021-BIODIV-01-13)
14. Fostering organic crop breeding (HORIZON-CL6-2021-BIODIV-01-14)
- Enabling transformative change on biodiversity
15. 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 (HORIZON-CL6-2021-BIODIV-01-15)
16. Biodiversity, water, food, energy, transport, climate and health nexus in the context of transformative change (HORIZON-CL6-2021-BIODIV-01-16)
17. Policy mixes, governance (including financing) and decision-making tools for transformative action on biodiversity (HORIZON-CL6-2021-BIODIV-01-17)
18. Understanding the impacts of and the opportunities offered by digital transformation, new emerging technologies and social innovation on biodiversity (HORIZON-CL6-2021-BIODIV-01-18)
- Interconnecting biodiversity research and supporting policies
19. A mechanism for science to inform implementation, monitoring, review and ratcheting up of the new EU biodiversity strategy for 2030 ('Science Service') (HORIZON-CL6-2021-BIODIV-01-19)
20. Support to processes triggered by IPBES and IPCC (HORIZON-CL6-2021-BIODIV-01-20)
21. Impact and dependence of business on biodiversity (HORIZON-CL6-2021-BIODIV-01-21)

Further Information:

<https://www.euhoerschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL6-2021-BIODIV-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;spect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=0;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableStatechTableState>

30. /EU Horizon Europe*/ Cluster 6: European partnership rescuing biodiversity to safeguard life on Earth (HORIZON-CL6-2021-BIODIV-02-01), Deadline: 22.07.2021 17:00 Brussels time

The EU biodiversity strategy for 2030 is a cornerstone of the European Green Deal that will put Europe's biodiversity on the path to recovery by 2030, for the benefit of people, the climate and the planet. It will also prepare the EU to take a leading role in the upcoming international negotiations on a new global

framework to halt biodiversity loss. With the Green Deal's 'do no significant harm' vision, all EU policies will become more biodiversity-friendly, focusing more on the sustainable use of ecosystems, supporting the recovery in a post-pandemic world[[COM/2020/380 EU biodiversity strategy for 2030: Bringing nature back into our lives]]. This policy vision is fully supported in the strategic plan of Horizon Europe for 2021-2024 in its first key strategic orientation 'Protecting and restoring ecosystems and biodiversity and managing sustainably natural resources on land and at sea, and achieving climate neutrality and adaptation'. Consequently, Destination 'Biodiversity and ecosystem services' intends to achieve the following expected impact from Cluster 6 'Biodiversity is back on a path to recovery, and ecosystems and their services are preserved and sustainably restored on land, inland water and at sea through improved knowledge and innovation'. All actions funded under this destination must therefore help to deliver this main impact.

Research and innovation is key to delivering results that will have an important impact on biodiversity, food, health, water and climate, which are all interconnected, and to achieving the goal of healthy and resilient ecosystems by 2030. It will also enable transformational change engaging European society and economy and their global impacts, making decisions more biodiversity-friendly. R&I will support policy targets, develop nature-based solutions[[Nature-based solutions are "inspired and supported by nature, which are cost-effective, simultaneously provide environmental, social and economic benefits and help build resilience. Such solutions bring more, and more diverse, nature and natural features and processes into cities, landscapes and seascapes, through locally adapted, resource-efficient and systemic interventions. Hence, nature-based solutions must benefit biodiversity and support the delivery of a range of ecosystem services."]] and holistic approaches to address the main causes of biodiversity loss, particularly in connection to production systems, bringing all sectors together to be integrated in ecosystem-based management. Investments in R&I will help to protect and restore the integrity of terrestrial, aquatic and marine ecosystems, currently under multiple pressures, and protect and restore their capacity to deliver a wide range of essential services. Under Horizon Europe, a long-term strategic research agenda for biodiversity will also be developed.

The partnership is expected to contribute to all the following expected outcomes:

In line with the European Green Deal and the Convention on Biological Diversity, this partnership will contribute to the objectives and targets of the EU biodiversity strategy for 2030 under the overarching objective that, by 2030, biodiversity in Europe is back on the path to recovery. A successful proposal will contribute to the EU Green Deal priorities, the Birds and Habitats Directives, and to EU climate and agricultural policies. It will help connect biodiversity research across Europe, supporting and raising the ambition of national, EU and international environmental policies and conventions[1]. The expected outcomes of the topic will also contribute to other impacts of Destination 'Biodiversity and ecosystem services', as well as to the Commission priority 'A stronger Europe in the world', and to the Sustainable Development Goals (SDGs) 13, 14, 15, 17.

- o Biodiversity research and environmental policy institutions build up coherent initiatives through a co-funded European partnership.
- o National/local and EU research & innovation programmes share information between programmes and with environmental ministries and agencies, combining in-cash and in-kind resources. EU and national/regional biodiversity research agendas from EU Member States and associated countries- are complementary; a long-term pan-European strategic research agenda is co-created and implemented.
- o Biodiversity monitoring in Europe is structured in the form of a network of coordinated observatories providing accessible knowledge on biodiversity and ecosystem services to users via the EC Knowledge Centre for Biodiversity.
- o The partnership increases the relevance, impact and visibility of R&I and European leadership in tackling the biodiversity crisis.
- o Biodiversity is mainstreamed across sectors and policies across Europe by using tools such as natural capital accounting and by rolling out nature-based solutions, including traditional and new technologies, which provide multifunctional and resilient solutions to complex societal challenges.

Further Information:

<https://www.euhoerschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-cl6-2021-biodiv-02-01;callCode=null;freeTextSearchKeyword=HORIZON-CL6-2021-BIODIV-02-01;matchWholeText=true;typeCodes=1,0;statusCodes=31094501,310945>

31. /EU Horizon Europe*/ Fair, healthy and environmentally-friendly food systems from primary production to consumption (HORIZON-CL6-2021-FARM2FORK-01), 19 calls open, Deadline: 06.10.2021 17:00 Brussels time

National, EU and global food systems are facing sustainability challenges, from primary production to consumption, that could jeopardise food and nutrition security. The farm to fork strategy, which is key to the success of the European Green Deal and achievement of the UN sustainable development goals (SDGs), aims to address these challenges and to deliver co-benefits for environment, health, society and the economy, ensuring that actions leading to recovery from the COVID-19 crisis also put us onto a sustainable path going forward. Research and innovation (R&I) are key drivers steering and accelerating the transition to sustainable, safe, healthy and inclusive food systems, from farm to fork, thereby ensuring food and nutrition security for all.

Sustainable farming systems provide a number of economic, environmental, social and health benefits, and are the main prerequisite for food and nutrition security. For farmers, who are the backbone of food systems and the immediate managers of natural resources, the Green Deal sets ambitious targets with respect to the sustainability and safety of feed and food production. These targets are included in the core Green Deal policy initiatives, in particular the farm to fork strategy, the biodiversity strategy, zero pollution efforts and climate action. R&I in line with the strategic approach to EU agricultural research and innovation will be key enablers if these challenging targets are to be achieved. They will speed up the transition to sustainable and competitive agriculture by unlocking the potential of agroecology, including improving organic farming as part of the agroecological transition, boosting production of EU-grown plant proteins and advancing digital and data technologies (Destination 'Innovative governance, environmental observations and digital solutions in support of the Green Deal'). R&I will support farmers to manage land, soil, water and nutrients in new, sustainable ways, in particular through the Horizon Europe mission in the area of 'soil health and food'. New knowledge and innovative solutions will improve plant and animal health and welfare, prevent interspecies disease transmission through food production and trade systems, and reduce farmers' dependency on pesticides, antimicrobials and other external inputs. Thanks to R&I, farming systems will maximise provision of a wide range of ecosystem services from more sustainably managed EU agro ecosystems and landscapes, and help to reverse the loss of biodiversity and soil fertility while ensuring resilient primary production (Destination 'Biodiversity and ecosystem services'). Farmers will be better equipped to make a significant contribution to climate neutrality and become more resilient to climate change (Destination 'Land, ocean and water for climate action'). Also, R&I will support the development of policy (in particular the common agricultural policy (CAP)), business models and market conditions enabling transition to sustainable food and farming systems. Effective agricultural knowledge and innovation systems (AKISs) will speed up innovation and the uptake of R&I results from farm to fork (Destination 'Innovative governance, environmental observations and digital solutions in support of the Green Deal'). As a result, farmers will be able to transform their production methods and move to climate- and environment friendly, and resilient farming systems, thereby contributing to sustainable food value chains that provide producers with fair economic returns and consumers with affordable, safe, healthy and sustainable food (Destinations 'Biodiversity and ecosystem services' and 'Land, ocean and water for climate action').

Under this destination the EU has published 19 topics which are open for submission.

Enabling sustainable farming

1. Reaching the farm to fork target: R&I scenarios for boosting organic farming and organic aquaculture in Europe (HORIZON-CL6-2021-FARM2FORK-01-01)
2. Developing sustainable and competitive land-based protein crop systems and value chains (HORIZON-CL6-2021-FARM2FORK-01-02)
3. Digitalisation as an enabler of agroecological farming systems (HORIZON-CL6-2021-FARM2FORK-01-03)
4. Tackling outbreaks of plant pests (HORIZON-CL6-2021-FARM2FORK-01-04)
5. Animal welfare 2.0 (HORIZON-CL6-2021-FARM2FORK-01-05)
6. Vaccines and diagnostics for priority animal diseases (HORIZON-CL6-2021-FARM2FORK-01-06)
7. Research & innovation roadmap for blockchain technologies in the agri-food sector (HORIZON-CL6-2021-FARM2FORK-01-07)
8. 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 (HORIZON-CL6-2021-FARM2FORK-01-08)
9. Towards an EU approach to assess and internalise positive and negative externalities of food for incentivising sustainable choices (HORIZON-CL6-2021-FARM2FORK-01-09)

Enabling sustainable fisheries and aquaculture

10. Sea to fork transparency and consumer engagement (HORIZON-CL6-2021-FARM2FORK-01-10)
11. Digital transition supporting inspection and control for sustainable fisheries (HORIZON-CL6-2021-FARM2FORK-01-11)

Transforming food systems for health, sustainability and inclusion

12. Filling knowledge gaps on the nutritional, safety, allergenicity and environmental assessment of alternative proteins and dietary shift (HORIZON-CL6-2021-FARM2FORK-01-12)
13. Evidence-based decision-making to change social norms towards zero food waste (HORIZON-CL6-2021-FARM2FORK-01-13)
14. Microbes for healthy and sustainable food and diets (HORIZON-CL6-2021-FARM2FORK-01-14)
15. Transition to healthy and sustainable dietary behaviour (HORIZON-CL6-2021-FARM2FORK-01-15)
16. Identification, assessment and management of existing and emerging food safety issues (HORIZON-CL6-2021-FARM2FORK-01-16)
17. Increasing the transparency of EU food systems to boost health, sustainability and safety of products, processes and diets (HORIZON-CL6-2021-FARM2FORK-01-17)

Target international cooperation

18. One Health approach for Food Nutrition Security and Sustainable Agriculture (FNSSA) (HORIZON-CL6-2021-FARM2FORK-01-18)
19. EU-China international cooperation on integrated pest management in agriculture (HORIZON-CL6-2021-FARM2FORK-01-19)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL6-2021-FARM2FORK-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;Prospect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

32. /EU Horizon Europe*/ Cluster 6: Circular economy and bioeconomy sectors (HORIZON-CL6-2021-CIRCBIO-01), 9 calls open, Deadline: 06.10.2021

A systemic and science-based circular transition with the help of research, innovation and investments will address all issues from material selection and product design via resource efficiency along the value chain to an optimised after-use system, incorporating reuse, repair and upgrade, refurbishment, remanufacturing, collection, sorting and new forms of recycling and upcycling also to improve the waste cycle management. It will tackle all barriers and mobilise all key stakeholders. The development of definitions, taxonomies, indicators and targets will inform and support policy and decision making. The use of advanced life cycle methods such as the European Commission Product Environmental Footprint (PEF), data and information will enable economic actors, including consumers, to make sustainable choices. The development and deployment of specific technological and non-technological circular solutions, including new business models, will cover intra- and inter-value chain collaboration between economic actors. The development of a working after-use system for plastic-based products, incorporating reuse, collection, sorting, and recycling technologies will provide insights into the transition towards a circular economy for key material flows including plastics. The Circular Cities and Regions Initiative (CCRI)[[<https://ec.europa.eu/research/environment/index.cfm?pg=circular>]] under the European Circular Economy Action Plan will expand the circular economy concept beyond traditional resource recovery in waste and water sectors and support the implementation, demonstration and replication of systemic circular solutions for the transition towards a sustainable, regenerative, inclusive and just circular economy at local and regional scale. Water use will be tackled from a circularity perspective, aiming at pollution prevention, resource efficiency and business opportunities.

Under this destination the EU has published 9 topics which are open for submission.

Enabling a circular economy transition

1. Circular Cities and Regions Initiative (CCRI)'s circular systemic solutions (HORIZON-CL6-2021-CIRCBIO-01-01)
2. Circular Cities and Regions Initiative's project development assistance (CCRI-PDA) (HORIZON-CL6-2021-CIRCBIO-01-02)
3. Innovative solutions to over-packaging and single-use plastics, and related microplastic pollution (HORIZON-CL6-2021-CIRCBIO-01-03)
4. Increasing the circularity in textiles, plastics and/or electronics value chains (HORIZON-CL6-2021-CIRCBIO-01-04)

Innovating sustainable bio-based systems and the bioeconomy

5. Novel, non-plant biomass feedstocks for industrial applications (HORIZON-CL6-2021-CIRCBIO-01-05)
6. Contained biomass solutions for sustainable and zero-Indirect Land Use Change (ILUC) production systems for high value applications (HORIZON-CL6-2021-CIRCBIO-01-06)
7. Microbiomes for bio-based innovation and environmental applications (HORIZON-CL6-2021-CIRCBIO-01-07)
8. Mainstreaming inclusive small-scale bio-based solutions in European rural areas (HORIZON-CL6-2021-CIRCBIO-01-08)

Innovation for blue bioeconomy and biotechnology value chains

9. Unlocking the potential of algae for a thriving European blue bioeconomy (HORIZON-CL6-2021-CIRCBIO-01-09)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL6-2021-CIRCBIO-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodeCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;aspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState;rchTableState>

33. /EU Horizon Europe*/ Cluster 6: Clean environment and zero pollution (HORIZON-CL6-2021-ZEROPOLLUTION-01), 10 calls open, Deadline: 06.10.2021 17:00 Brussels time

Anthropogenic pollution undermines the integrity of Earth ecosystems and severely affects natural resources essential for human life. Keeping our planet clean and our ecosystems healthy will not only contribute to addressing the climate crisis but also help regenerate biodiversity, ensure the sustainability of primary production activities and safeguard the well-being of humankind. In line with the objectives of the European Green Deal, particularly its zero pollution ambition, and the 2030 Climate Target Plan, and other relevant EU legislation[[cf. European Green Deal deliverables farm to fork strategy, biodiversity strategy, soil strategy, but also bioeconomy strategy, marine strategy, the 2030 Agenda for Sustainable Development etc., the Missions on Soil Health and Food as well as on Ocean, seas and waters, etc.]], this destination seeks to halt and prevent pollution by focussing the work programme 2021-2022 on fresh and marine waters, soils, air, including from nitrogen and phosphorus emissions, as well as on the environmental performance and sustainability of processes in the bio-based systems. Synergies with other clusters (notably 1 and 5), relevant destinations as well as missions and partnerships will be exploited.

Halting emissions of pollutants to soils and waters is of fundamental significance for the planet. Diffuse emissions of pollutants from land and urban sources, including atmospheric depositions, are a major stress factor for terrestrial and aquatic ecosystems, threatening the quality of surface waters and aquifers, and affecting soil quality and all water-dependent sectors that require a holistic understanding of the pollution sources, key vectors and pathways. Projected impacts of climate change will alter, and notably reduce, the hydrological flows in many parts of Europe, while eutrophication could be exacerbated by increasing temperatures. Climate change and increasing water demand will exert significant pressures on surface and groundwater quality[[Member States identified that diffuse pollution is still a significant pressure that affects 35 % of the area of groundwater bodies, while quality standards (pesticides, herbicides...) were exceeded in 15 % of the groundwater bodies]], notably where the combined effect of water table depletion and sea level rise will endanger the integrity of coastal aquifers and groundwater quality. This is due to saline water intrusion or extreme events (e.g. higher tides, storm surges or inland flooding events), which will put coastal wetlands and reservoirs, estuaries and ecosystems at risk. While recognising its essential role in aquatic ecosystems functioning and services, the sediments originating mostly from run-off and erosion are likely the major source of physical pollution of water bodies (excessive turbidity, impacts of deposition, accumulation of litter and debris) and contribute to a large extent to chemical and biological pollution of receiving waters. Beside land use practises, the increasing intensity and variability of precipitation will exacerbate erosion risks, affect the deposition and transport of sediments and could lead to a remobilisation of legacy contaminants and further deteriorate the quality of soils, sediments and water bodies, including aquifers, estuaries and coastal areas, and of their ecosystem function and services.

Under this destination the EU has published 10 topics which are open for submission.

Halting emissions of pollutants to soils and waters

1. Regional nitrogen and phosphorus load reduction approach within safe ecological boundaries (HORIZON-CL6-2021-ZEROPOLLUTION-01-01)

2. Optimisation of nutrient budget in agriculture (HORIZON-CL6-2021-ZEROPOLLUTION-01-02)

Protecting drinking water and managing urban water pollution

3. Preventing and managing diffuse pollution in urban water runoff (HORIZON-CL6-2021-ZEROPOLLUTION-01-03)

Addressing pollution on seas and ocean

4. Achieving zero polluted seas and ocean (HORIZON-CL6-2021-ZEROPOLLUTION-01-04)

Increasing environmental performances and sustainability of processes and products

5. Environmental sustainability criteria for biological resources production and trade in bio-based systems: impacts and trade-offs (HORIZON-CL6-2021-ZEROPOLLUTION-01-05)

6. Increasing the environmental performance of industrial processes in bio-based sectors: construction, woodworking, textiles, pulp and paper and bio-chemicals (HORIZON-CL6-2021-ZEROPOLLUTION-01-06)

7. International and EU sustainability certification schemes for bio-based systems (HORIZON-CL6-2021-ZEROPOLLUTION-01-07)

8. New genomic techniques (NGT): understanding benefits and risks - focus on bio-based innovation (HORIZON-CL6-2021-ZEROPOLLUTION-01-08)

9. Environmental impacts and trade-offs of alternative fertilising products at global/local scale (HORIZON-CL6-2021-ZEROPOLLUTION-01-09)

10. Environmental services: improved bioremediation and revitalization strategies for soil, sediments and water (HORIZON-CL6-2021-ZEROPOLLUTION-01-10)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL6-2021-ZEROPOLLUTION-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;nCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

34. /EU Horizon Europe*/ Cluster 6: Land, ocean and water for climate action (HORIZON-CL6-2021-CLIMATE-01), 10 calls open, Deadline: 06.10.2021 17:00 Brussels time

Assessing the impacts of climate change on our land and marine environments, natural resources, agriculture and food systems, and identifying mitigation options and adaptation pathways, requires interdisciplinary and multidisciplinary research and investments across a broad range of activities. Research is needed to better understand who or what is exposed and sensitive to these changes, their underlying vulnerability, the associated costs and adaptive capacity. Research is also required to provide mitigation options that reduce the risk of long-term climate change. The conservation and enhancement of Earth's natural carbon sinks such as soils and plants, forests, farmed lands, wetlands and the oceans is crucial. The European Green Deal green oath to "do no harm", requires a careful examination of the trade-offs and synergies among the sustainability goals, including health protection, food and nutrition security, ecosystem services and biodiversity preservation both on land and at sea. R&I has a significant role to play to support the design and implementation of policies that will ensure the achievement of EU climate objectives.

Agriculture has a significant role to play to reduce and mitigate GHG emissions and to enhance carbon sinks. It also needs to strengthen its capacity to adapt to climate change and its resilience. The forestry sector faces similar challenges. Freshwater resources are increasingly under stress as a consequence of overuse and climate change with wide-ranging consequences for human societies and ecosystems. It is therefore necessary to define the safe operating space in terms of water quantity and availability, reduce the vulnerability to change and enhance our adaptive capacity. Strengthening the ocean and climate nexus is another priority for the EU. There is growing political awareness of the importance of ocean and polar regions as an integral part of the Earth's climate system and of the need to ensure the integrity and resilience of these ecosystems. While new knowledge leading to a better understanding of the impacts of

climate change is necessary, a strong priority needs to be granted to the large-scale deployment and uptake of solutions for climate adaptation and mitigation. Environmental observations and related solutions will be necessary throughout, from understanding to deployment.

Understanding the impacts of climate change on primary production and natural systems is a pre-requisite for policy and societal action on climate change adaptation and mitigation. At present, our understanding of the interactions between climate change and ecosystem management, protection and restoration is limited, yet it is crucial to enabling sound decision making for mitigation and adaptation measures. Monitoring and evaluation of the impacts of climate change, land use change and associated biodiversity loss on a range of key issues related to agriculture and forestry are crucial with respect to the transition to net-zero emissions in the EU. R&I are also needed to close knowledge gaps in support of decision-making aimed at preserving the integrity of ocean and aquatic ecosystems through a better understanding of the drivers of change and of emerging threats. Moreover, since water availability is vulnerable to climate change, it is necessary to improve the projections of changes to the water cycle at different relevant scales and projections of the frequency and intensity of extreme events. We also require improved long-term observations and assessment of the effects of climate change on diverse water uses and on the state of ecosystems and their services.

Under this destination the EU has published 10 topics which are open for submission.

1. Improved understanding, observation and monitoring of water resources availability (HORIZON-CL6-2021-CLIMATE-01-01)
2. European Partnership Water Security for the Planet (Water4All) (HORIZON-CL6-2021-CLIMATE-01-02)
3. Key oceanic and polar processes driving regional & global climate change (HORIZON-CL6-2021-CLIMATE-01-03)
4. Demonstration network on climate-smart farming - linking pilot farms (HORIZON-CL6-2021-CLIMATE-01-04)
5. Agroecological approaches for climate change mitigation, resilient agricultural production and enhanced biodiversity (HORIZON-CL6-2021-CLIMATE-01-05)
6. Resilient livestock farming systems under climate change (HORIZON-CL6-2021-CLIMATE-01-06)
7. International Research Consortium on (agricultural) soil carbon (HORIZON-CL6-2021-CLIMATE-01-07)
8. Agroforestry to meet climate, biodiversity and farming sustainability goals (HORIZON-CL6-2021-CLIMATE-01-08)
9. Enhancing science-based knowledge on EU forests', including old-growth forests, capacities to mitigate climate change (HORIZON-CL6-2021-CLIMATE-01-09)
10. EU-China international cooperation on increasing the resilience of forests (HORIZON-CL6-2021-CLIMATE-01-10)

Further Information:

<https://www.euhochschnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL6-2021-CLIMATE-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCode=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>

35. /EU Horizon Europe*/ Cluster 6: Resilient, inclusive, healthy and green rural, coastal and urban communities (HORIZON-CL6-2021-COMMUNITIES-01), 6 calls open, Deadline:

Places and people matter to the achievement of a more sustainable Europe. The Sustainable Development Goals and the ecological and digital transitions brought forward by the European Green Deal [https://ec.europa.eu/info/strategy/priorities-2019-2024/european-green-deal_en] and digital strategy [https://ec.europa.eu/info/strategy/priorities-2019-2024/europe-fit-digital-age/shaping-europe-digital-future_en] alongside the recent pandemic, bring challenges and opportunities that differ for different places and people. Rural (including mountains and sparsely populated areas) and coastal areas, play a key role in managing, protecting and using natural resources. The provision of both private and public goods from these areas depends on the resilience and attractiveness of rural and coastal communities and the capacity of people who live and work there to access a sufficient level of well-being. The COVID-19 pandemic has highlighted deficiencies in digital infrastructures and economic opportunities that hamper resilience. Urban communities generally offer better access to many services but are also more vulnerable to supply-chain disruptions, as shown during the COVID-19 pandemic. Furthermore, they have a key role to play in fostering sustainable production and consumption as major demand drivers. In all communities, social and behavioural drivers play an important role in enabling or slowing down transitions. Knowledge and innovative solutions need to be developed to enhance every community's resilience and capacity to contribute to and benefit from the upcoming transitions in an economy that works for all territories and ensures a fair and just transition leaving no one behind.

Under this destination, transdisciplinary R&I with a strong social and behavioural sciences dimension, and attention to gender aspects, will foster a sustainable, balanced and inclusive development of rural coastal and urban areas in three different ways. Firstly, it will aim to increase our understanding of the differential impacts of climate, environmental, socio-economic and demographic changes on rural, coastal and urban areas in order to identify ways to turn these changes into equal opportunities for people wherever they live, enhancing territorial cohesion and enabling a just transition. Secondly, it will explore innovative ways to tailor policy responses to the place-based challenges identified at various levels of governance. Thirdly, it will support bottom-up community-led innovation to empower communities to develop, test and upscale solutions that answer global challenges in locally adapted ways. Achieving policy goals require providing people with more equitable access to the knowledge and skills required to make informed choices and be actively engaged in the sustainable and circular management of natural resources, from production or service provision to consumption. Rural, coastal and urban communities, in particular women, youth, the most vulnerable groups like indigenous people and those hit the hardest by the COVID-19 pandemic, need to see their labour conditions, quality of life and long-term socio-economic prospects improved in the context of major transitions and rising threats to climate, resources and health. Their capacity to drive community-led innovations must be enhanced and their resilience increased across the diversity of European territories including remote places such as mountains and sparsely populated areas. Mobilising the forces of digital transformation, start-up ecosystems, nature-based solutions, as well as social and policy innovation will facilitate necessary changes and support smart, environment and climate friendly and resilient lifestyles.

Under this destination the EU has published 6 topics which are open for admission:

1. Grasping rural diversity and strengthening evidence for tailored policies enhancing the contribution of rural communities to ecological, digital and social transitions (HORIZON-CL6-2021-COMMUNITIES-01-01)
2. Expertise and training centre on rural innovation (HORIZON-CL6-2021-COMMUNITIES-01-02)
3. Smart XG, last-mile and edge solutions for remote farming, forestry and rural areas (HORIZON-CL6-2021-COMMUNITIES-01-03)
4. Socio-economic empowerment of the users of the sea (HORIZON-CL6-2021-COMMUNITIES-01-04)
5. Integrated urban food system policies - how cities and towns can transform food systems for co-benefits (HORIZON-CL6-2021-COMMUNITIES-01-05)
6. Inside and outside: educational innovation with nature-based solutions (HORIZON-CL6-2021-COMMUNITIES-01-06)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL6-2021-COMMUNITIES-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspectonProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableScSearchTableState>

36. /EU Horizon Europe*/ Cluster 6: Innovative governance, environmental observations and digital solutions in support of the Green Deal (HORIZON-CL6-2021-GOVERNANCE-01), 28 calls open, Deadline: 06.10.2021 17:00 Brussels time

Transformative changes such as the ones required within the Green Deal are dynamic processes that require appropriate governance. At the same time, to ensure coordination and for collaborative decision-making, governance requires multiple channels and networks that provide readily available data and information coming from different sources.

R&I activities under this destination aim at both: experimenting with new ways to govern the transition process and modernising the governance, in particular by making information and knowledge available and accessible. R&I for governance to support the Green Deal shall provide insights into institutional barriers such as lock-ins, path dependency, political and cultural inertia power imbalances and regulatory inconsistencies or weaknesses.

Innovative governance supporting the Green Deal objectives needs to recognise, cope with and promote resilience in the face of on-going shocks and disruptions both globally and across Europe, whether these be climatic, ecological, economic, social, geo-political or related to health. Critical risk assessment and reduction strategies need to be incorporated, including the diversification of infrastructures, resources and knowledge through more self-sufficiency and autonomy.

Taking advantage of the use, uptake, deployment and exploitation of environmental observations[[The capacity to observe the environment, including space-based, in-situ-based (air, sea, land) observation, and citizen observations]] as well as digital solutions, assessed through the "do not harm" principle of the Green Deal, is key for innovative governance models and a more science-based policy design, implementation and monitoring. To maximise impacts of R&I on the ground and spark behavioural and socio-economic change, the knowledge and innovation produced throughout the whole cluster should be widely disseminated to key stakeholders of the relevant sectors of the cluster. In particular, the Agricultural Knowledge and Innovation Systems (AKIS) needs to be reinforced to accelerate the required transformative changes.

Under this destination the EU has published 28 topics which are open for admission:

Innovating with governance models and supporting policies

1. Mobilising the network of national contact points in Cluster 6 (HORIZON-CL6-2021-GOVERNANCE-01-01)
2. Furthering food systems science and federating researchers across the European Research Area (HORIZON-CL6-2021-GOVERNANCE-01-02)
3. Preparatory action for the Horizon Europe Food System Partnership (HORIZON-CL6-2021-GOVERNANCE-01-03)
4. Strengthening bioeconomy innovation and deployment across sectors and all governance levels (HORIZON-CL6-2021-GOVERNANCE-01-04)
5. Fostering strategic advice and synergies between national and EU research and innovation agendas, including SCAR foresight (HORIZON-CL6-2021-GOVERNANCE-01-05)

6. Environmental and social cross-compliance of marine policies (HORIZON-CL6-2021-GOVERNANCE-01-06)
7. Regional governance models in the bioeconomy (HORIZON-CL6-2021-GOVERNANCE-01-07)
8. Improving understanding of and engagement in bio-based systems with training and skills development (HORIZON-CL6-2021-GOVERNANCE-01-08)
9. Revitalisation of European local communities with innovative bio-based business models and social innovation (HORIZON-CL6-2021-GOVERNANCE-01-09)
10. Raising awareness of circular and sustainable bioeconomy in support of Member States to develop bioeconomy strategies and/or action plans (HORIZON-CL6-2021-GOVERNANCE-01-10)
11. Education on the bioeconomy including bio-based sectors for young people in primary and secondary education in Europe (HORIZON-CL6-2021-GOVERNANCE-01-11)
12. EU agriculture within a safe and just operating space and planetary boundaries (HORIZON-CL6-2021-GOVERNANCE-01-12)
13. Modelling land use and land management in the context of climate change (HORIZON-CL6-2021-GOVERNANCE-01-13)
- Deploying and adding value to Environmental Observations
14. User-oriented solutions building on environmental observation to monitor critical ecosystems and biodiversity loss and vulnerability in the European Union (HORIZON-CL6-2021-GOVERNANCE-01-14)
15. Preparing for pre-commercial procurement (PCP) for end-user services based on environmental observation in the area of climate change adaptation and mitigation (HORIZON-CL6-2021-GOVERNANCE-01-15)
16. Tools to support the uptake and accessibility/exploitability of environmental observation information at European and global level (HORIZON-CL6-2021-GOVERNANCE-01-16)
17. Common European Green Deal data space to provide more accessible and exploitable environmental observation data in support of the European Green Deal priority actions (HORIZON-CL6-2021-GOVERNANCE-01-17)
- Digital and data technologies as key enablers
18. Mapping and improving the data economy for food systems (HORIZON-CL6-2021-GOVERNANCE-01-18)
19. 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)
20. Data economy in the field of agriculture - effects of data sharing and big data (HORIZON-CL6-2021-GOVERNANCE-01-20)
21. Potential of drones as multi-purpose vehicle - risks and added values (HORIZON-CL6-2021-GOVERNANCE-01-21)
22. Assessing the impacts of digital technologies in agriculture - cost, benefits and potential for sustainability gains (HORIZON-CL6-2021-GOVERNANCE-01-22)
23. Broaden EIP Operational Group outcomes across borders by means of thematic networks, compiling and sharing knowledge ready for practice (HORIZON-CL6-2021-GOVERNANCE-01-23)
24. Supporting knowledge exchange between all AKIS actors in the Member States by means of an EU-wide interactive knowledge reservoir (HORIZON-CL6-2021-GOVERNANCE-01-24)
25. Improving national AKIS organisation in a co-creative process across the EU (HORIZON-CL6-2021-GOVERNANCE-01-25)
26. Deepening the functioning of innovation support (HORIZON-CL6-2021-GOVERNANCE-01-26)
27. Developing EU advisory networks on consumer-producer chains (HORIZON-CL6-2021-GOVERNANCE-01-27)
28. Thematic networks to compile and share knowledge ready for practice (HORIZON-CL6-2021-GOVERNANCE-01-28)

Further Information:

<https://www.euhochschulnetz-sachsen-anhalt.de/Ausschreibungen.html>

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-CL6-2021-GOVERNANCE-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;de=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;performanceOfDelivery=null;sortQuery=sortStatus;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableTopicSearchTableState>

37. /EU Horizon Europe*/ European Research Area (HORIZON-WIDERA-2021-ERA-01), 18 calls open, Deadline: 23.09.2021 17:00 Brussels time

Horizon Europe has a new level of ambition - to maximise the impact of EU research and innovation funding for European science, economy and the wider society. It marks a paradigm change in the design of the EU R&I Framework Programmes (FP) from an activity-driven to an impact-driven programme. Coupled to this ambition is the relaunching of the European Research Area (ERA) as described in the recently published Commission Communication entitled A new ERA for Research and Innovation (COM/2020/628 final of 30.09.2020). The COVID-19 pandemic demonstrates the importance of R&I cooperation to deliver solutions to society's most demanding needs. Delivering Europe's recovery is a priority as are the green and digital twin transitions. To match these challenges, a new level of ambition that links better R&I with the economy, as well as with education and training, is necessary to put the EU's scientific knowledge to work. The new ERA calls for deepening existing priorities and initiatives through new and stronger approaches. The green and digital transitions and the recovery call for cooperation between the Commission and the Member States. They require the setting of new priorities, launching ambitious joint initiatives and developing common approaches between policies.

Under this destination the EU has published 18 calls for proposals that are open for admission:

1. Support for policy makers - Programme level collaboration between national R&I programmes (HORIZON-WIDERA-2021-ERA-01-09)
2. Towards a Europe-wide training and networking scheme for research managers (HORIZON-WIDERA-2021-ERA-01-20)
3. Implementation of a new macro-economic modelling concept (HORIZON-WIDERA-2021-ERA-01-30)
4. Standardisation Booster for fostering exploitation of FP-funded research results (HORIZON-WIDERA-2021-ERA-01-32)
5. R&I intensive IP management: Scenarios for the future (HORIZON-WIDERA-2021-ERA-01-33)
6. Modelling and quantifying the impacts of open science practice (HORIZON-WIDERA-2021-ERA-01-40)
7. Global cooperation on FAIR data policy and practice (HORIZON-WIDERA-2021-ERA-01-41)
8. Capacity-building for institutional open access publishing across Europe (HORIZON-WIDERA-2021-ERA-01-43)
9. Societal trust in science, research and innovation (HORIZON-WIDERA-2021-ERA-01-44)
10. Support to changes in the assessment of research and researchers to reward the practice of open science (HORIZON-WIDERA-2021-ERA-01-45)
11. Protection of Higher Education Institutions and research organisations against conventional and non-conventional threats (HORIZON-WIDERA-2021-ERA-01-50)
12. A capacity-building and brokering network to make citizen science an integral part of the European Research Area (HORIZON-WIDERA-2021-ERA-01-60)
13. Supporting and giving recognition to citizen science in the European Research Area (HORIZON-WIDERA-2021-ERA-01-61)
14. Developing a STE(A)M roadmap for Science Education in Horizon Europe (HORIZON-WIDERA-2021-ERA-01-70)

15. Centre of excellence on inclusive gender equality in Research & Innovation (HORIZON-WIDERA-2021-ERA-01-80)

16. Policy coordination to advance the implementation of the ERA gender equality and inclusiveness objectives within Member States (HORIZON-WIDERA-2021-ERA-01-81)

17. The challenges of research ethics and integrity in response to crisis: the coronavirus pandemic and beyond (HORIZON-WIDERA-2021-ERA-01-90)

18. Ensuring reliability and trust in quality of Research Ethics expertise in the context of new/emerging technologies (HORIZON-WIDERA-2021-ERA-01-91)

Further Information:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode=HORIZON-WIDERA-2021-ERA-01;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodeCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=null;programDivisionCode=null;focusAreaCode=null;destination=null;mission=null;geographicalZonesCode=null;programmeDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=title;orderBy=asc;onlyTenders=false;topicListKey=callTopicSearchTableState>
