

Horizon Europe First Strategic Plan 2021-2024

Fields marked with * are mandatory.

INTRODUCTION

Horizon Europe, the ninth European Research and Innovation Framework programme (2021-2027), is the key instrument of the Union for supporting research and innovation. It also plays an important role in steering and accelerating Europe's recovery, preparedness and resilience along the twin digital and green transitions. It will strengthen our knowledge base through frontier research, spur breakthrough innovation and support the development and demonstration of innovative solutions, and it will help restore our industrial leadership and strategic autonomy, while helping tackle the coronavirus pandemic and the climate challenges.

The first Horizon Europe Strategic Plan will define the strategic orientations for our research and innovation investments over the period 2021-2024 and will act as a compass to stay on course with the political priorities of the Commission: a climate-neutral and green Europe, fit for the digital age, where the economy works for the people.

This **survey is part of the strategic planning process**, to which the European Parliament, EU Member States, Countries of the European Economic Area (EEA Countries), as well as stakeholders and interested citizens, contribute collectively.

The **objective of this survey** is to receive feedback on the expected impacts to be targeted by research and innovation within Horizon Europe and the contribution of Research and Innovation (R&I) investments to the EU's political priorities. The results of the survey will be used to finalise the Strategic Plan and to precise the impact logic, which will set the direction for to the future Horizon Europe work programmes.

The survey is structured around **six Horizon Europe clusters and their expected impacts**: 1. Health; 2. Culture, Creativity and Inclusive Society; 3. Civil Security for Society; 4. Digital, Industry and Space; 5. Climate, Energy and Mobility; 6. Food, Bioeconomy, Natural Resources, Agriculture and Environment.

You do not have to respond to all six clusters. It should take **about 20 minutes to reply to the questions for each cluster**. The **deadline is Friday, 18 September 2020, 18.00 Brussels time**.

ABOUT YOU

* Have you or your organisation participated in the web-survey "Horizon Europe Co-design 2021-2024" in July 2019?

- Yes
 No

* You or your organisation are mainly active/interested in the following areas of Horizon Europe (please select all that apply):

- Health (cluster 1)
- Culture, creativity and inclusive society (cluster 2)
- Civil security for society (cluster 3)
- Digital, industry and space (cluster 4)
- Climate, energy and mobility (cluster 5)
- Food, bioeconomy, natural resources, agriculture and environment (cluster 6)
- Widening Participation and Strengthening the European Research Area
- Pillar I - Excellent Science
- Pillar III - Innovative Europe
- Other

* You are responding:

- As an individual
- As a representative of a single organisation
- As a representative of an 'umbrella' organisation (a group of organisations)

* You are responding:

- As a researcher
- As an entrepreneur
- As an expert in research and innovation
- A citizen
- Other

* You are representing:

- Yourself
- A university or similar institution
- A research organisation
- A business or an industry
- An international organisation
- A national public authority
- A regional or local public authority
- A civil society organisation (including non-governmental organisations, community associations, etc.)
- Other

Name of the organisation:

150 character(s) maximum

Your name and last name:

150 character(s) maximum

* What is your country of residence or establishment?

- AF - Afghanistan
- AL - Albania
- DZ - Algeria
- AD - Andorra
- AO - Angola
- AG - Antigua and Barbuda
- AR - Argentina
- AM - Armenia
- AU - Australia
- AT - Austria
- AZ - Azerbaijan
- BS - Bahamas
- BH - Bahrain
- BD - Bangladesh
- BB - Barbados
- BY - Belarus
- BE - Belgium
- BZ - Belize
- BJ - Benin
- BT - Bhutan
- BO - Bolivia
- BA - Bosnia and Herzegovina
- BW - Botswana
- BR - Brazil
- BN - Brunei Darussalam
- BG - Bulgaria
- BF - Burkina Faso
- BI - Burundi
- CV - Cabo Verde
- KH - Cambodia
- CM - Cameroon
- CA - Canada
- CF - Central African Republic
- TD - Chad
- CL - Chile
- CN - China
- CO - Colombia
- KM - Comoros
- CG - Congo
- CR - Costa Rica
- HR - Croatia
- CU - Cuba
- CY - Cyprus
- CZ - Czechia
- CI - Côte D'Ivoire
- CD - Democratic Republic of the Congo

- DK - Denmark
- DJ - Djibouti
- DM - Dominica
- DO - Dominican Republic
- EC - Ecuador
- EG - Egypt
- SV - El Salvador
- GQ - Equatorial Guinea
- ER - Eritrea
- EE - Estonia
- SZ - Eswatini
- ET - Ethiopia
- FJ - Fiji
- FI - Finland
- FR - France
- GA - Gabon
- GM - Gambia
- GE - Georgia
- DE - Germany
- GH - Ghana
- GR - Greece
- GD - Grenada
- GT - Guatemala
- GN - Guinea
- GW - Guinea Bissau
- GY - Guyana
- HT - Haiti
- HN - Honduras
- HU - Hungary
- IS - Iceland
- IN - India
- ID - Indonesia
- IR - Iran
- IQ - Iraq
- IE - Ireland
- IL - Israel
- IT - Italy
- JM - Jamaica
- JP - Japan
- JO - Jordan
- KZ - Kazakhstan
- KE - Kenya
- KI - Kiribati
- KW - Kuwait
- KG - Kyrgyzstan
- LA - Laos
- LV - Latvia

- LB - Lebanon
- LS - Lesotho
- LR - Liberia
- LY - Libya
- LI - Liechtenstein
- LT - Lithuania
- LU - Luxembourg
- MG - Madagascar
- MW - Malawi
- MY - Malaysia
- MV - Maldives
- ML - Mali
- MT - Malta
- MH - Marshall Islands
- MR - Mauritania
- MU - Mauritius
- MX - Mexico
- FM - Micronesia
- MC - Monaco
- MN - Mongolia
- ME - Montenegro
- MA - Morocco
- MZ - Mozambique
- MM - Myanmar
- NA - Namibia
- NR - Nauru
- NP - Nepal
- NL - Netherlands
- NZ - New Zealand
- NI - Nicaragua
- NE - Niger
- NG - Nigeria
- KP - North Korea
- MK - North Macedonia
- NO - Norway
- OM - Oman
- PK - Pakistan
- PW - Palau
- PA - Panama
- PG - Papua New Guinea
- PY - Paraguay
- PE - Peru
- PH - Philippines
- PL - Poland
- PT - Portugal
- QA - Qatar
- MD - Republic of Moldova

- RO - Romania
- RU - Russian Federation
- RW - Rwanda
- KN - Saint Kitts and Nevis
- LC - Saint Lucia
- VC - Saint Vincent and the Grenadines
- WS - Samoa
- SM - San Marino
- ST - Sao Tome and Principe
- SA - Saudi Arabia
- SN - Senegal
- RS - Serbia
- SC - Seychelles
- SL - Sierra Leone
- SG - Singapore
- SK - Slovakia
- SI - Slovenia
- SB - Solomon Islands
- SO - Somalia
- ZA - South Africa
- KR - South Korea
- SS - South Sudan
- ES - Spain
- LK - Sri Lanka
- SD - Sudan
- SR - Suriname
- SE - Sweden
- CH - Switzerland
- SY - Syrian Arab Republic
- TJ - Tajikistan
- TZ - Tanzania
- TH - Thailand
- TL - Timor-Leste
- TG - Togo
- TO - Tonga
- TT - Trinidad and Tobago
- TN - Tunisia
- TR - Turkey
- TM - Turkmenistan
- TV - Tuvalu
- UG - Uganda
- UA - Ukraine
- AE - United Arab Emirates
- GB - United Kingdom
- US - United States of America
- UY - Uruguay
- UZ - Uzbekistan

- VU - Vanuatu
- VE - Venezuela
- VN - Viet Nam
- YE - Yemen
- ZM - Zambia
- ZW - Zimbabwe

* Please select the option that best describes your interest in European research and innovation programmes:

- I/my organisation is currently participating in at least one project funded by a European Union research and innovation framework programme
- I/my organisation has proposed and/or participated in project(s) funded by a European Union research and innovation framework programme in the past, but I am/it is not participating in a running projects at this moment
- I/my organisation has not yet proposed or participated in projects funded by European Union research and innovation framework programmes, but would be interested to do so
- I/my organisation currently does not intend to propose and/or participate in projects funded by European Union research and innovation framework programmes, but I may be interested in the results of the projects/programme

* Publication

privacy

settings

The Commission will publish the responses to this public consultation. You can choose whether you would like your details to be made public or to remain anonymous:

- Anonymous:** Only your type of respondent, country of origin and contribution will be published. All other personal details (name, organisation name and size, transparency register number) will not be published
- Public:** Your personal details (name, organisation name and size, transparency register number, country of origin) will be published with your contribution

Please have a look at our Privacy Statement.

[Privacy statement RTD consultations.pdf](#)

EXPECTED IMPACTS AND R&I CONTRIBUTION

This section aims at validating the targeted impacts and the role of R&I to reach the impact for the four years covered by the Strategic Plan, as developed with stakeholders during the Strategic Planning Process. This survey builds upon last year's survey and aims at making final revisions.

* You would like to provide your views on the following Horizon Europe clusters:

at least 1 choice(s)

- Cluster 1 : Health
- Cluster 2 : Culture, Creativity and Inclusive Society
- Cluster 3 : Civil Security for Society
- Cluster 4. Digital, Industry and Space
- Cluster 5. Climate, Energy and Mobility
- Cluster 6. Food, Bioeconomy, Natural Resources, Agriculture and Environment

CLUSTER 1: Health

Impact 1: Staying healthy in a rapidly changing society

Short description of the impact: Citizens stay healthy in a rapidly changing society thanks to healthier lifestyles and behaviours, healthier environments, improved evidence-based health policies, and more effective solutions for health promotion and disease prevention.

R&I contribution: Research and innovation can provide a better understanding of specific health and care needs throughout the life course, including age-specific and sex/gender-specific needs, and develop more effective solutions for health promotion and disease prevention, including for needs related to chronic health conditions, physical and mental disabilities, or age-related impairments. Research and innovation can help people, as well as communities, in developing innovative services, policies, guidelines and digital solutions, also ensuring that they are accessible, equitable and effective in preventing disease and promoting health. Key to achieving these objectives is the availability and accessibility of real-world health data, which will require appropriate support by research and data infrastructures.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 2: Living and working in a health-promoting environment

Short description of the impact: Living and working environments are health-promoting and sustainable thanks to better understanding of environmental, occupational, social and economic determinants of health.

R&I contribution: Research and innovation will produce the knowledge necessary to identify and assess the risks and benefits for health, and to enable health promoting and disease preventive policy actions. Results will support the EU's environment and health policies and overarching policy frameworks such as the European Green Deal, the future 8th Environment Action Programme, the EU Strategic Framework on Health and Safety at Work and the European Environment and Health Process (EHP). The outcome will

also contribute to the development of new and improved health interventions and technologies. In order to achieve sustainable impacts, research and innovation must provide solid evidence and stimulate its uptake into a large number of environmental, occupational, social, economic, fiscal and health policies at the EU, national and regional level. Strong collaborations across sectors and with other Horizon Europe clusters dealing with issues such as agriculture, food, environment, climate, mobility, security, urban planning, social inclusion and gender will be needed to ensure that maximal societal benefits will be reached. Likewise, international cooperation, including at science-policy level, will be key to drive forward and tackle this challenge.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 3: Tackling diseases and reducing disease burden

Short description of the impact: Health care providers are able to tackle diseases (infectious diseases, including poverty-related and neglected diseases, non-communicable and rare diseases) and reduce the disease burden on patients effectively thanks to better understanding of diseases, using more effective and innovative health technologies and better ability and preparedness to manage epidemic outbreaks.

R&I contribution: There is an urgent need for research and innovation on new prevention, public health interventions, diagnostics, vaccines, therapies, alternatives to antibiotics, as well as to improve existing prevention strategies to create tangible impacts, taking into account sex/gender-related issues. This will require international cooperation to pool the best expertise and know-how available worldwide, to access world-class research infrastructures and to leverage critical scales of investments on priority needs through better alignment with other funders of international health research and innovation cooperation. The continuation of international partnerships and cooperation with international organisations is particularly needed to combat infectious diseases, including antimicrobial resistances, to respond to major unmet needs for global health security, including the global burden of non-communicable diseases, and to strengthen patient safety.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 4: Ensuring access to innovative, sustainable and high-quality health care

Short description of the impact: Health care systems provide equal access to innovative, sustainable and high-quality health care thanks to the development and uptake of safe, cost-effective and people-centred solutions, with a focus on population health, health systems resilience, as well as improved evidence-based health policies.

R&I contribution: Research and innovation can help by supporting the development of innovative solutions for health care systems in all their various dimensions (e.g. governance, resilience, financing, generation of human and physical resources, health service provision, and patient empowerment). In addition, research and innovation can provide decision-makers with new evidence, methods and tools to successfully implement those innovative solutions into their health care systems. It will in turn help to improve the governance and resilience of health care systems as well as to allocate resources according to people's needs and preferences while delivering fiscal sustainability to make sure those needs can be met in the long-term.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 5: Unlocking the full potential of new tools, technologies and digital solutions for a healthy society

Short description of the impact: Health technologies, new tools and digital solutions are applied effectively thanks to their inclusive, secure and ethical development, delivery, integration and deployment in health policies and health and care systems.

R&I contribution: Research and innovation is needed on the large spectrum of tools and technologies for bio-medical research, prevention, diagnosis, therapy and monitoring. Managing benefits and risks of new technologies and due consideration of aspects of safety, effectiveness, inter-operability, appropriateness, accessibility, comparative value-added, affordability and sustainability (environmental, fiscal, socio-economic) and issues of ethical, societal, regulatory and legal nature will be crucial in order to boost the acceptability of these novelties and to translate these innovations into health policies, health and care systems, and clinical practice responsibly. Moreover, to provide high-quality healthcare and reduce health inequalities, end users' engagement in multidisciplinary, cross-sectorial cooperation with key stakeholders (patients, health care providers, researchers, regulatory bodies, policy-makers, funders) could help addressing specific unmet needs for health tools, technologies and digital solutions with limited commercial interest but also designing and developing suitable health products and services tailored to specific needs related to sex/gender or other aspects. Artificial Intelligence technologies have recently shown great promise for analysing high volumes of health data, with high potential for advancing biomedical research, personalised medicine and health care and for supporting health care systems in their clinical, organisational and logistical functions.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 6: Maintaining an innovative, sustainable and globally competitive health-related industry

Short description of the impact: EU health industry is more innovative, sustainable and globally competitive thanks to improved up-take of breakthrough technologies and innovations, which makes the EU with its Member States more resilient and less dependent from imports with regard to the access to and supply of critical health technologies.

R&I contribution: There is a convergence and a need for cross-sectorial research and innovation (integrating medical technologies, pharmaceuticals, biotechnologies, digital health and eHealth technologies) to strengthen the single market, including by implementing the Digital Single Market strategy, supporting the standardisation policy, driving innovation from the demand side and providing evidence and guidelines for stakeholders and regulators to ensure take-up of innovations supports sustainability (environmental, fiscal, socio-economic) while fostering access and reducing health inequalities. The health sector is subjected to strict regulatory requirements that impose the demonstration of clinical benefit(s) and safety. This means additional development steps, uncertainties and a longer time to market. Support to studies for health assessment procedures, clinical performance demonstration, quality assurance schemes and standardisation are therefore important elements.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Do you have any other comments regarding the expected impacts of this Cluster?

1500 character(s) maximum

CLUSTER 1 - COHERENCE AND SYNERGIES

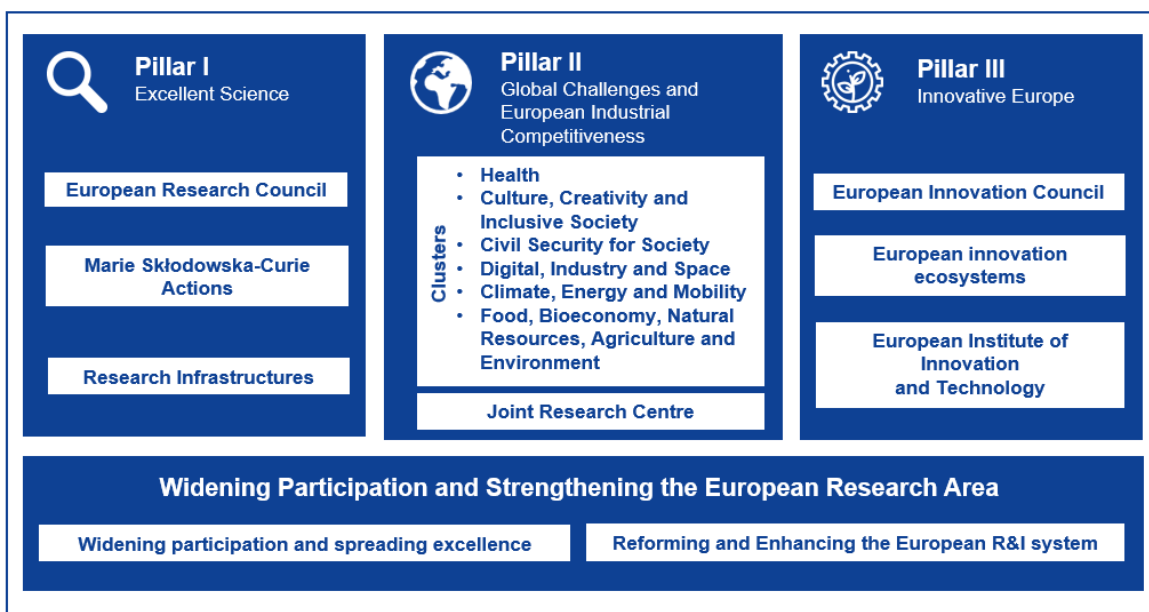
Coherence and synergies with other parts of the Framework Programme or with other EU programmes

In order to maximise the impact of research and innovation on society, environment and economy at large and to contribute to the achievement of the Union’s objectives, Union funding programmes must be coherent and work in synergy. Synergies and coherence are based on complementarity between programme design and objectives, as well as financing rules and processes at implementation level.

The Strategic Planning process, and the ensuing implementation process, must ensure the alignment of priorities of the different parts of Horizon Europe and between Horizon Europe and other EU funding programmes, ensuring coherent funding options at different stages of the research and innovation cycle. This includes facilitating the deployment of research results and innovative solutions developed in Horizon Europe (or previous Framework Programmes) with the support of other Union funding programmes.

The following questions seek your views on the priorities for coherence and synergies between this cluster of Horizon Europe and other parts of the Horizon Europe, and other EU funding programmes.

Horizon Europe Structure



Missions shall be programmed within the **Pillar II**, 'Global Challenges and European Industrial Competitiveness', but may also benefit from actions carried out within other parts of the Programme as well as complementary actions carried out under other Union funding programmes.

Horizon Europe Missions are an integral part of the Horizon Europe framework programme. Missions are programmed under Horizon Europe Pillar II. Missions implementation will go beyond research and innovation. Missions will benefit from actions carried out within other parts of the Programme as well as complementary actions carried out at national level and under other Union funding programmes. Each selected mission will be a mandate to solve a pressing challenge in society within a certain timeframe and budget. More information on Missions is available on the [Missions website](#).

1. In your view, how important is coherence between this cluster and other clusters or elements of Horizon Europe Pillar II?

| | | | | | |
|--|----------------|-----------|---------|---------------|----------------------|
| | Very important | Important | Neutral | Not important | Not important at all |
|--|----------------|-----------|---------|---------------|----------------------|

| | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pillar II – Cluster 2 ‘Culture, Creativity and Inclusive Society’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 3 ‘Civil Security for Society’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 4 ‘Digital, Industry and Space’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 5 ‘Climate, Energy and Mobility’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 6 ‘Food, Bioeconomy, Natural Resources, Agriculture and Environment’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Cancer’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Adaptation to climate change including societal transformation’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Healthy oceans, seas coastal and inland waters’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Climate-neutral and smart cities’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Soil health and food’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. In your view, how important is coherence between this cluster and the other parts of Horizon Europe?

| | Very important | Important | Neutral | Not important | Not important at all |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pillar I – Excellent Science: European Research Council | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar I - Excellent Science: Marie-Sklodowska Curie Actions | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar I – Research Infrastructures | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Innovation Council | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Innovation Ecosystems | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Institute of Innovation and Technology | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Widening participation and spreading excellence | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Reforming and enhancing the European R&I system | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|

3. In your view, how important are synergies between this cluster and the following other EU funding programmes?

| | Very important | Important | Neutral | Not important | Not important at all |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Innovation Fund under the Emission Trading Scheme (the 'Innovation Fund') | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Regional Development Fund (ERDF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Creative Europe | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Neighbourhood, Development and International Cooperation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Erasmus Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Agricultural Guarantee Fund (EAGF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Programme for Environment and Climate Action (LIFE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Agricultural Fund for Rural Development (EAFRD) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Connecting Europe Facility (CEF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Social Fund Plus (ESF+) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Internal Security Fund (ISF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Euratom Research and Training Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Single Market Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other [Note: A field for comments opens at the end of the list, when you select the level of importance] | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Border Management and Visa Instrument (BMVI) as part of the Integrated Border Management Fund | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Defence Fund | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Maritime and Fisheries Fund (EMFF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Space Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | |
|--------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| InvestEU | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Digital Europe Programme (DEP) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

(Other) Please specify:

500 character(s) maximum

4. Do you have any other comments or suggestions regarding the expected potential of coherence or synergies with Horizon Europe?

1500 character(s) maximum

CLUSTER 2: Culture, Creativity and Inclusive Society

Impact 1: Reinvigorated democracy

Short description of the impact: Trust in democracy is restored, through a reinvigorated democratic governance improving accountability, transparency and effectiveness of rule of law based institutions and policies, and through the expansion of active and inclusive citizenship empowered by the safeguarding of fundamental rights.

R&I contribution: The aim of the research investments is to develop innovations, policies and institutions that expand political participation, social dialogue, civic engagement and gender equality. Activities will also enhance transparency, the effectiveness of public policy-making, accountability and legitimacy and will equally improve trust in democratic institutions, safeguard liberties and the rule of law, and protect democracy from multidimensional threats. Rich historical perspectives associated with experimentation will set the frame for soundly understanding present developments and help the mapping of 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.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 2: Exploitation of the full potential of cultural heritage

Short description of the impact: The full potential of cultural heritage, arts and cultural and creative sectors as a driver of sustainable innovation and a European sense of belonging is realised through a continuous engagement with society, citizens and economic sectors as well as through better protection, restoration and promotion of cultural heritage.

R&I contribution: The investments will result in better access to, understanding of and engagement with cultural heritage. They will bring to the fore common values, traditions and beliefs and the different influences our cultures have been exposed to and have absorbed over time. This will support the emergence of a sense of belonging based on the common roots of the diversity of European cultural heritage while opening up new perspectives and dimensions for the future. Research and innovation results will contribute to European integration by providing better, wider and more equal access to culture, heritage and the arts. Horizon Europe activities will also enhance the governance and cooperation of European cultural heritage institutions and networks. As a key action, they will improve the protection, enhancement, conservation and more efficient restoration of European cultural heritage. Research activities shall increase the quality standards for conservation and restoration of European cultural heritage. Research and innovation will provide solutions for making the EU a world leader in conservation technologies, management, high quality digitisation and curation of digital heritage assets. Supported activities will provide research and innovation for developing sustainable and inclusive cultural tourism in Europe. They will also increase capacities for the protection of endangered cultural heritage and deployment of preventive measures against the illicit trade in cultural goods. Research and innovation will also help the preservation of endangered languages. Finally, research and innovation will support European policies for cultural and creative industries contributing to sustainable growth and job creation.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 3: Boosted inclusive growth

Short description of the impact: Inclusive growth is boosted and vulnerabilities are reduced effectively through evidence-based policies for protecting and enhancing employment, education, social fairness and tackling inequalities, including in response to the socio-economic challenges due to the Covid-19 pandemic.

R&I contribution: Promote inclusive growth and upward convergence via social investment and productivity enhancing policies in line with the European Pillar of Social Rights and the EU’s policies on jobs and growth. Reverse inequalities, support equal opportunities and tackle social exclusion taking into account long-term trends and risks to advance the EU’s employment, education and social inclusion policies. Assess and take advantage of the multidimensional impacts of technology on the future of work, productivity, employment, taxation, economy, welfare and the public sector. Develop innovative approaches to connecting education, life-long learning and training to emerging social and labour market needs in support of EU education and employment policies. Respond to new impacts of globalisation with a view to fairness as well as economic and social resilience. Strengthen economic resilience through shock absorption mechanisms at EU level via fiscal, monetary, labour market and macro prudential policies. Activities will also support the governance of migration and the integration of migrants and populations of immigrant background. They will contribute to EU migration and mobility policies, both internal and external. The overall knowledge generated will feed into the design of institutions in line with the above mentioned objectives and will facilitate the assessment of policy needs and outcomes in the field of the societal and economic transformations.

Note: Impacts 3 and 4 of Cluster 2 are closely linked to each other and are both supported by interrelated research and innovation activities of the third intervention area “Social and economic transformations” of Cluster 2. For this reason their R&I contributions are explained by a joint description.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 4: Strengthened social and economic resilience and sustainability

Short description of the impact: Social and economic resilience and sustainability are strengthened through a better understanding of the social, ethical, political and economic impacts of drivers of change (such as technology, globalisation, demographics, mobility and migration) and their interplay.

R&I contribution: Promote inclusive growth and upward convergence via social investment and productivity enhancing policies in line with the European Pillar of Social Rights and the EU’s policies on jobs and growth. Reverse inequalities, support equal opportunities and tackle social exclusion taking into account long-term trends and risks to advance the EU’s employment, education and social inclusion policies. Assess and take advantage of the multidimensional impacts of technology on the future of work, productivity, employment, taxation, economy, welfare and the public sector. Develop innovative approaches to connecting education, life-long learning and training to emerging social and labour market needs in support of EU education and employment policies. Respond to new impacts of globalisation with a view to fairness as well as economic and social resilience. Strengthen economic resilience through shock absorption mechanisms at EU level via fiscal, monetary, labour market and macro prudential policies. Activities will also support the governance of migration and the integration of migrants and populations of immigrant background. They will contribute to EU migration and mobility policies, both internal and external. The overall knowledge generated will feed into the design of institutions in line with the above mentioned objectives and will facilitate the assessment of policy needs and outcomes in the field of the societal and economic transformations.

Note: Impacts 3 and 4 of Cluster 2 are closely linked to each other and are both supported by interrelated research and innovation activities of the third intervention area “Social and economic transformations” of Cluster 2. For this reason their R&I contributions are explained by a joint description.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Do you have any other comments regarding the expected impacts of this Cluster?

1500 character(s) maximum

CLUSTER 2 - COHERENCE AND SYNERGIES

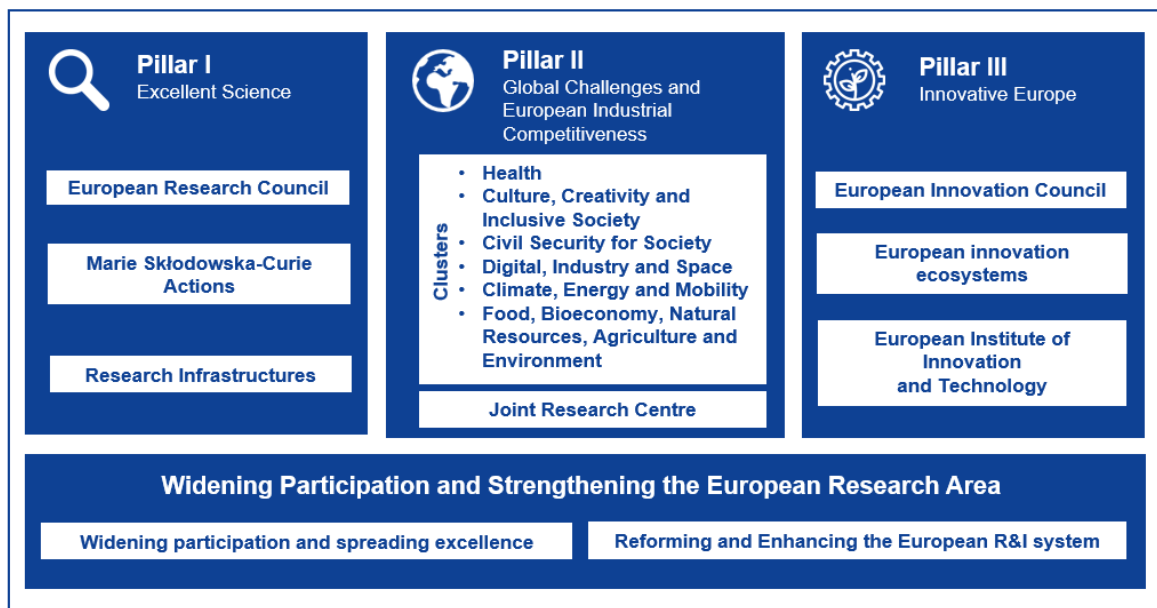
Coherence and synergies with other parts of the Framework Programme or with other EU programmes

In order to maximise the impact of research and innovation on society, environment and economy at large and to contribute to the achievement of the Union's objectives, Union funding programmes must be coherent and work in synergy. Synergies and coherence are based on complementarity between programme design and objectives, as well as financing rules and processes at implementation level.

The Strategic Planning process, and the ensuing implementation process, must ensure the alignment of priorities of the different parts of Horizon Europe and between Horizon Europe and other EU funding programmes, ensuring coherent funding options at different stages of the research and innovation cycle. This includes facilitating the deployment of research results and innovative solutions developed in Horizon Europe (or previous Framework Programmes) with the support of other Union funding programmes.

The following questions seek your views on the priorities for coherence and synergies between this cluster of Horizon Europe and other parts of the Horizon Europe, and other EU funding programmes.

Horizon Europe Structure



Missions shall be programmed within the **Pillar II**, 'Global Challenges and European Industrial Competitiveness', but may also benefit from actions carried out within other parts of the Programme as well as complementary actions carried out under other Union funding programmes.

Horizon Europe Missions are an integral part of the Horizon Europe framework programme. Missions are programmed under Horizon Europe Pillar II. Missions implementation will go beyond research and innovation. Missions will benefit from actions carried out within other parts of the Programme as well as complementary actions carried out at national level and under other Union funding programmes. Each selected mission will be a mandate to solve a pressing challenge in society within a certain timeframe and budget. More information on Missions is available on the [Missions website](#).

1. In your view, how important is coherence between this cluster and other clusters or elements of Horizon Europe Pillar II?

| | Very important | Important | Neutral | Not important | Not important at all |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pillar II – Cluster 1 ‘Health’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 3 ‘Civil Security for Society’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 4 ‘Digital, Industry and Space’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 5 ‘Climate, Energy and Mobility’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 6 ‘Food, Bioeconomy, Natural Resources, Agriculture and Environment’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Cancer’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Adaptation to climate change including societal transformation’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Healthy oceans, seas coastal and inland waters’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Climate-neutral and smart cities’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Soil health and food’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. In your view, how important is coherence between this cluster and the other parts of Horizon Europe?

| | Very important | Important | Neutral | Not important | Not important at all |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pillar I – Excellent Science: European Research Council | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar I - Excellent Science: Marie-Sklodowska Curie Actions | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar I – Research Infrastructures | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Innovation Council | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Innovation Ecosystems | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Institute of Innovation and Technology | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Widening participation and spreading excellence | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Reforming and enhancing the European R&I system | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

3. In your view, how important are synergies between this cluster and the following other EU funding programmes?

| | Very important | Important | Neutral | Not important | Not important at all |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| European Space Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Erasmus Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Euratom Research and Training Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Neighbourhood, Development and International Cooperation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| InvestEU | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Defence Fund | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Regional Development Fund (ERDF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Social Fund Plus (ESF+) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Connecting Europe Facility (CEF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Agricultural Guarantee Fund (EAGF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Digital Europe Programme (DEP) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Creative Europe | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Programme for Environment and Climate Action (LIFE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Maritime and Fisheries Fund (EMFF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other [Note: A field for comments opens at the end of the list, when you select the level of importance] | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Single Market Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Agricultural Fund for Rural Development (EAFRD) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Internal Security Fund (ISF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | | | | | |

| | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Border Management and Visa Instrument (BMVI) as part of the Integrated Border Management Fund | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Innovation Fund under the Emission Trading Scheme (the 'Innovation Fund') | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

(Other) Please specify:

500 character(s) maximum

4. Do you have any other comments or suggestions regarding the expected potential of coherence or synergies with Horizon Europe?

1500 character(s) maximum

CLUSTER 3: Civil Security for Society

Impact 1: Reduced losses from natural, accidental and man-made disasters

Short description of the impact: Losses from natural, accidental and man-made disasters are reduced through enhanced disaster risk reduction based on preventive actions, better societal preparedness and resilience and improved disaster risk management in a systemic way.

R&I contribution: R&I actions will improve disaster risk management, including better understanding of the disaster risk management cycle for incidents with a high impact but a low probability of occurrence. R&I will enhance societal risk awareness, prevention and preparedness, including through early warning and alert systems and a capacity to be better prepared (including psychologically) and able to respond to natural and man-made disasters. With the help of enhanced technological solutions and concepts, relevant communities can be better involved in developing and implementing plans for cost-effective risk reduction and societal resilience, including for the evacuation of vulnerable populations. An improved response to disasters requires better tools and procedures for the coordination of cross-border incidents, more integrated and interoperable technologies, tools and methods to support emergency procedures which are developed with all relevant actors. R&I can lead to the creation of standards on the EU-level for response and emergency planning. Target R&I will tackle cross-sectoral and multilevel governance on disaster risk management at EU level which also manages trade-offs in policy-making (not only civil protection as such but related areas such as land management, agriculture and rural development, as well as environment, climate and energy). It will contribute to the creation of methodologies to be defined for 'resilient by design' infrastructure. As a result of improved knowledge of human and social factors, post-disaster recovery that respects local communities' aesthetic-historical-social values as well as quality standards for cultural heritage sites.

More specifically, four areas require more targeted R&I: (a) Chemical, biological, radiological, nuclear and explosive (CBRN-E) incidents (deeper understanding of risks, better comparability of data, filling gaps in capabilities for first responders, methods for cooperation between relevant actors); (b) Climate-related risks

and extreme events (more exact forecasting of occurrences and impacts, understanding of climate change related risks and vulnerabilities, including their application within emergency planning, more flexible adaptation to climate change impacts, improved cross-border management); (c) Geological disasters, such as earthquakes, volcanic eruptions and tsunamis (better and technologically advanced civil protection capacities, notably faster detection and evacuation of victims); (d) Pandemics and emerging infectious diseases (earlier detection of outbreaks, better response for example by European Pandemic Preparedness Plans).

In addition, R&I activities will better ensure security and resilience of basic societal functions such as healthcare, law enforcement, energy, mobility, public services, financial services, communication and logistics infrastructures and networks (both physical, on ground and in space, and digital), so as to minimise societal disruptions. In order to allow for effective countermeasures, there is a need for better risk- and vulnerability assessments, especially taking into account systemic threats, interdependencies between different infrastructures and cascading risks taking into account the cross-border dimension.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 2: Improved passengers and shipments travel into the EU

Short description of the impact: Legitimate passengers and shipments travel more easily into the EU, while illicit trades, trafficking, piracy, terrorists and other criminals acts are prevented, thanks to improved air, land and sea border management and maritime security including better knowledge on social factors.

R&I contribution: R&I will enhance the interoperability and performance of relevant EU information systems, leading to better and faster exchange as well as analysis. Concerning the movement of persons, and with the contribution of the European Border and Coast Guard Agency (Frontex) in identifying the relevant requirements, R&I will contribute to developing tools and methods for Integrated Border Management, in particular to increase reaction capability and capacity for border surveillance and monitoring movements across external borders, as well as better risk-detection, incident response and prevention, and identification of and response to crime. Concerning the flow of goods, R&I actions will address requirements identified by EU customs authorities, notably improved detection of fraudulent

activities at border crossing points and throughout the transportation and supply chain. R&I will address capability requirements identified by the EU Maritime Security Action Plan, thus enabling better maritime surveillance, risk awareness and management of EU critical maritime infrastructure border protection and coast guard functions.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 3: Crime and terrorism are more effectively tackled

Short description of the impact: Crime and terrorism are more effectively tackled, while respecting fundamental rights, and resilience and autonomy of physical and digital infrastructures are enhanced and vital societal functions are ensured, thanks to more powerful prevention, preparedness and response, a better understanding of related human and societal aspects, and the development of cutting-edge capabilities for law enforcement agencies and infrastructure operators, including measures against **c y b e r c r i m e** .

R&I contribution: R&I will bring improved prevention, investigation and mitigation of impacts of criminal acts, including of new/emerging types (such as those resulting from digitisation and other technologies). This needs to be based on a deeper knowledge of human and social aspects of relevant societal challenges, such as violent radicalisation, child sexual exploitation, trafficking of human beings, corruption and cyber criminality, including support to victims. R&I can further help to transpose such knowledge into the operational activities of EU law enforcement agencies and civil society organisations. R&I will support law enforcement agencies in better tackling crime, including cybercrime and terrorism as well as the 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). This refers especially to capabilities to analyse in near-real-time large volumes of data to forestall criminal events, or to combat disinformation and fake news with implications for security. R&I actions will develop operational tools for enhanced criminal investigation capabilities for law enforcement agencies, covering a broad range of activities including forensics, big data management, investigation of cybercriminal activities, improved cross-border cooperation and exchange of

evidence. With regards to CBRN-E threats, R&I allows to generate knowledge for counter-terrorism on the continuously evolving methods related to dangerous chemicals, and developing technologies to counter and respond to related incidents.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 4: Increased cybersecurity and a more secure online environment

Short description of the impact: Increased cybersecurity and a more secure online environment by developing and using effectively EU and Member States' capabilities in digital technologies supporting protection of data and networks, while respecting privacy and other fundamental rights; this should contribute to secure services, processes and products, as well as to robust digital infrastructure capable to resist and counter cyber-attacks and hybrid threats.

R&I contribution: Supported by R&I, citizens, public authorities and companies, including SMEs, will be empowered to protect their data and online activities notably when using social media. This requires a resilient critical digital infrastructure, both private and public, that better protects the Digital Single Market and the digital life of citizens against malicious cyber activities, including via non-digital fall-back technology and appropriate levels of systemic redundancy. R&I should strengthen European cybersecurity industrial capacities and thus increased strategic autonomy vis-à-vis foreign technologies. R&I will support in this regard use of innovative digital technologies, including self-healing, artificial intelligence, cryptography, massively distributed computing and storage, as well as quantum technologies to increase data security and augment cybersecurity. It will further allow for security-relevant innovations in the areas of governance of algorithms, coding architecture and programming languages. All these measures are aimed at defending the EU's high standards concerning rights to privacy, protection of personal data, and the protection of fundamental right in the digital age on the global stage. The frequency and complexity of cyber-attacks from state and/or criminal actors is increasing rapidly. R&I will therefore need to support the effectiveness and coordination of measures to respond to them. For all activities against cyber-threats, the architectural principles of 'security-by-design' and 'privacy-by-design' will be implemented in digital technologies and their applications, such as 5G, industry 4.0, artificial intelligence, Internet of Things, block chain, quantum technologies, mobile devices and connected cooperative and autonomous mobility and energy. To better

prevent and detect attacks (including cyber and hybrid attacks) or natural hazards as well as to allow for quick response, R&I will bring new tools for security actors (police, relief workers, disaster managers, crisis managers) notably in the fields of communication, data analysis and advanced robotics, with a view to developing largely autonomous detection and response capabilities. R&I will contribute to technologies, new concepts and cooperation instruments that will help mitigation of consequences and faster recovery of service performance levels, including leveraging the potential of big data analysis and artificial intelligence.

R&I actions will also:

- generate knowledge and value in cross-cutting matters in order to avoid sector specific bias and to break silos that impede the proliferation of common security solutions;
- strengthen key pillars of the research and innovation cycle to increase the effectiveness and efficiency of its contribution to the development of security capabilities;
- support innovation uptake and go-to-market strategies with the aim of paving the way towards an increased industrialisation, commercialisation, adoption and deployment of successful outcomes of security research, thus contributing to reinforce the competitiveness of EU security industry and safeguard the security of supply of EU-products in key security areas.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Do you have any other comments regarding the expected impacts of this Cluster?

1500 character(s) maximum

CLUSTER 3 - COHERENCE AND SYNERGIES

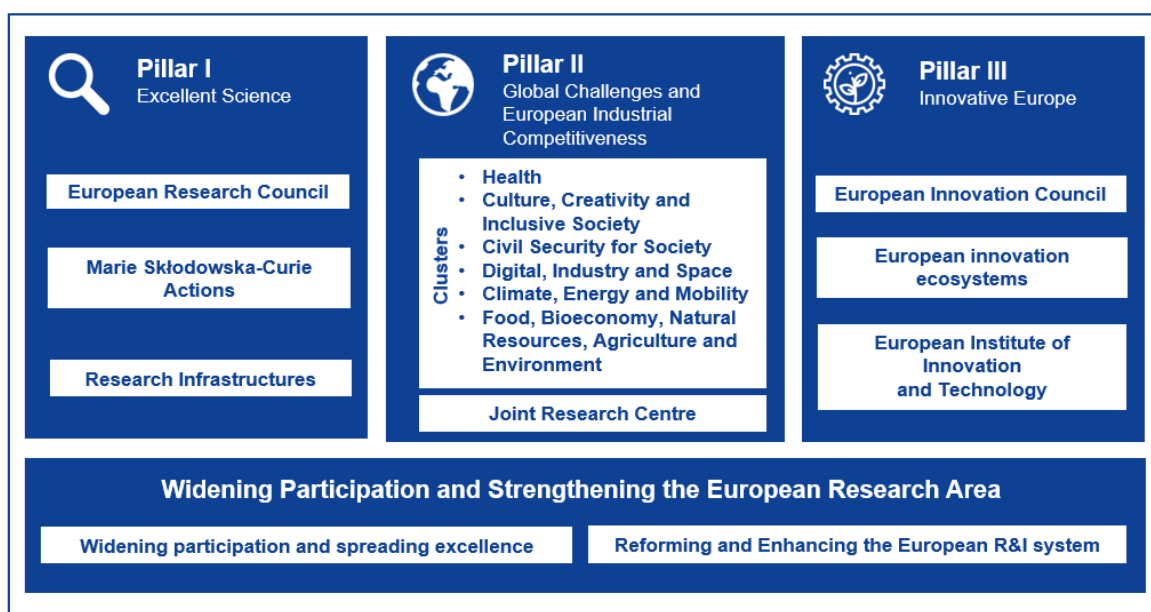
Coherence and synergies with other parts of the Framework Programme or with other EU programmes

In order to maximise the impact of research and innovation on society, environment and economy at large and to contribute to the achievement of the Union’s objectives, Union funding programmes must be coherent and work in synergy. Synergies and coherence are based on complementarity between programme design and objectives, as well as financing rules and processes at implementation level.

The Strategic Planning process, and the ensuing implementation process, must ensure the alignment of priorities of the different parts of Horizon Europe and between Horizon Europe and other EU funding programmes, ensuring coherent funding options at different stages of the research and innovation cycle. This includes facilitating the deployment of research results and innovative solutions developed in Horizon Europe (or previous Framework Programmes) with the support of other Union funding programmes.

The following questions seek your views on the priorities for coherence and synergies between this cluster of Horizon Europe and other parts of the Horizon Europe, and other EU funding programmes.

Horizon Europe Structure



Missions shall be programmed within the **Pillar II**, 'Global Challenges and European Industrial Competitiveness', but may also benefit from actions carried out within other parts of the Programme as well as complementary actions carried out under other Union funding programmes.

Horizon Europe Missions are an integral part of the Horizon Europe framework programme. Missions are programmed under Horizon Europe Pillar II. Missions implementation will go beyond research and innovation. Missions will benefit from actions carried out within other parts of the Programme as well as complementary actions carried out at national level and under other Union funding programmes. Each selected mission will be a mandate to solve a pressing challenge in society within a certain timeframe and budget. More information on Missions is available on the [Missions website](#).

1. In your view, how important is coherence between this cluster and other clusters or elements of Horizon Europe Pillar II?

| | Very important | Important | Neutral | Not important | Not important at all |
|--------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pillar II – Cluster 1 'Health' | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pillar II – Cluster 2 ‘Culture, Creativity and Inclusive Society’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 4 ‘Digital, Industry and Space’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 5 ‘Climate, Energy and Mobility’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 6 ‘Food, Bioeconomy, Natural Resources, Agriculture and Environment’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Cancer’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Adaptation to climate change including societal transformation’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Healthy oceans, seas coastal and inland waters’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Climate-neutral and smart cities’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Soil health and food’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. In your view, how important is coherence between this cluster and the other parts of Horizon Europe?

| | Very important | Important | Neutral | Not important | Not important at all |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pillar I – Excellent Science: European Research Council | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar I - Excellent Science: Marie-Sklodowska Curie Actions | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar I – Research Infrastructures | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Innovation Council | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Innovation Ecosystems | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Institute of Innovation and Technology | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Widening participation and spreading excellence | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Reforming and enhancing the European R&I system | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

3. In your view, how important are synergies between this cluster and the following other EU funding programmes?

| | Very important | Important | Neutral | Not important | Not important at all |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Innovation Fund under the Emission Trading Scheme (the 'Innovation Fund') | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other [Note: A field for comments opens at the end of the list, when you select the level of importance] | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Border Management and Visa Instrument (BMVI) as part of the Integrated Border Management Fund | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Regional Development Fund (ERDF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Maritime and Fisheries Fund (EMFF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| InvestEU | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Defence Fund | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Agricultural Fund for Rural Development (EAFRD) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Single Market Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Space Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Social Fund Plus (ESF+) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Neighbourhood, Development and International Cooperation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Agricultural Guarantee Fund (EAGF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Digital Europe Programme (DEP) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Connecting Europe Facility (CEF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Creative Europe | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Internal Security Fund (ISF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Erasmus Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Euratom Research and Training Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Programme for Environment and Climate Action (LIFE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

(Other) Please specify:

500 character(s) maximum

4. Do you have any other comments or suggestions regarding the expected potential of coherence or synergies with Horizon Europe?

1500 character(s) maximum

CLUSTER 4: Digital, Industry and Space

Impact 1: Global leadership in clean and climate-neutral industrial value chains, circular economy and climate-neutral digital systems and infrastructures

Short description of the impact: Global leadership in clean and climate-neutral industrial value chains, circular economy and climate-neutral digital systems and infrastructures (networks, data centres), through innovative production and manufacturing processes and their digitisation, new business models, sustainable-by-design advanced materials and technologies enabling the switch to decarbonisation in all major emitting industrial sectors, including green digital technologies

R&I contribution: The pressing need to tackle a number of sustainability challenges, notably climate change, creates opportunities supporting economies, industries and the environment while also reducing dependencies by shortening and diversifying supply chains. New technologies, including digital technologies will enable industry to reduce energy consumption, decarbonise production processes, and protect the environment. A more agile and more circular economy will make Europe less dependent on external imports, boosting its resilience.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 2: Globally attractive, secure and dynamic data-agile economy

Short description of the impact: Globally attractive, secure and dynamic data-agile economy by developing and enabling the uptake of the next-generation computing and data technologies and infrastructures (including space infrastructure and data), enabling the European single market for data with the corresponding data spaces and a trustworthy artificial intelligence ecosystem.

R&I contribution: Data becomes the new fuel of the economy and a key asset to address Europe’s societal challenges. It will reshape the way we produce, consume and live. It is the basis for many new products and services, driving productivity and resource efficiency gains across all sectors of the economy. Currently, a small number of Big Tech firms hold a large part of the world’s data. But as the volume of data produced in the world is growing rapidly, enormous opportunities lie ahead. In order to release its potential, Europe has to find its way and develop the data technologies for sharing, re-using processing, combining, modelling and analysing large amounts of data, while preserving high privacy, security, safety and ethical standards.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 3: Industrial leadership and increased autonomy in key strategic value chains with security of supply in raw materials

Short description of the impact: Industrial leadership and increased autonomy in key strategic value chains with security of supply in raw materials, achieved through breakthrough technologies in areas of industrial alliances, dynamic industrial innovation ecosystems and advanced solutions for substitution, resource and energy efficiency, effective reuse and recycling and clean primary production of raw materials, including critical raw materials.

R&I contribution: Access to primary and secondary raw materials, in particular critical raw materials, will remain a vital prerequisite for both Europe’s strategic security and a successful transition to a climate-neutral and circular economy. Europe must accelerate the maturity level of key digital and enabling

technologies and support their adoption in industrial value-chains and strategic sectors such as automotive, industrial manufacturing, energy intensive industries, energy sectors, aerospace, defence and security, and healthcare.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 4: Sovereignty in digital technologies and in future emerging enabling technologies

Short description of the impact: Sovereignty in digital technologies and in future emerging enabling technologies by strengthening European capacities in key parts of digital and future supply chains, allowing agile responses to urgent needs, and by investing in early discovery and industrial uptake of new technologies.

R&I contribution: Despite a still strong presence in digital vertical markets (such as business software) and industrial applications (like sensor and control, car electronics, manufacturing and telecom equipment), Europe increasingly depends on other regions for its key digital capacities such as digital components, computing systems, data infrastructure and web platforms. At the same time, progress in data analytics and Artificial Intelligence, the deployment of faster networks (5G and beyond), new computing and data processing paradigms such as edge computing and quantum computing, as well as the increased demand for security and trust as fundamental prerequisites for digital solutions, present enormous opportunities for European industry to reinforce and regain leadership across the digital supply chain. Where relevant, security and trust will be fostered through open source solution, for both software and hardware. It is also indispensable to be first-movers in strategic areas such as quantum computing and graphene, and to establish early European leadership in emerging enabling technologies.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|----------------|----------------|----------------------------|-------------------|-------------------|
| | | | | | |

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|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 5: Strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data

Short description of the impact:

Strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data, by reinforcing the EU’s independent capacity to access space, and securing the autonomy of supply for critical technologies and equipment.

R&I contribution: Europe enjoys access to its own world-leading space and ground infrastructure, services and applications for navigation and Earth observation, supporting a range of EU and global policies and enabled by a competitive industrial sector active in development of new satellites and launch systems as well as in space science and exploration. However, technological development and markets move rapidly while important export destinations remain, to a large extent, captive markets supported by civil and military institutional demand. Europe must thus mobilise to remain competitive, to secure its future independent access to space and ability to operate securely in space, and to reduce its dependence on non-EU suppliers of technologies and services while at the same time prepare for a future space ecosystem of increasingly autonomous AI-enabled and flexible spacecraft and an increasingly congested space environment. In addition, it should foster EU competitiveness, respond to user needs for Earth environment monitoring, global Positioning Navigation and Timing (PNT), communication and security. Europe shall make the most of the synergies of its Space and Digital programmes, for example to increase the exploitation of the vast quantities of data collected by Copernicus, through HPC and AI enabled infrastructures.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | | | | | |

| | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 6: A human-centred and ethical development of digital and industrial technologies

Short description of the impact: A human-centred and ethical development of digital and industrial technologies, through a two-way engagement in the development of technologies, empowering end-users and workers, and supporting social innovation.

R&I contribution: As Europe takes the lead in the green and digital transition, workers, regions, and societies are faced with extremely fast transformations, and will be differently affected by these changes. The COVID-19 crisis illustrated to strengthen resilience which entails a human-centred and ethical dimension. The rapid adoption of new technologies offers an immense potential for improved standards of living, safer mobility, better healthcare, new jobs, or the personalisation of public services. At the same time, it presents risks such as skills mismatches, digital divides, user lock-in, or serious breaches of security or privacy. Developments in industry, in digital and enabling technologies should enhance trust and reflect values such as the rule of law, cooperation, inclusiveness and respect for the environment. They have the potential to enhance social inclusion, can inform up-skilling training programmes and ensure a two-way engagement with society with regard to developing technologies.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Do you have any other comments regarding the expected impacts of this Cluster?

1500 character(s) maximum

CLUSTER 4 - COHERENCE AND SYNERGIES

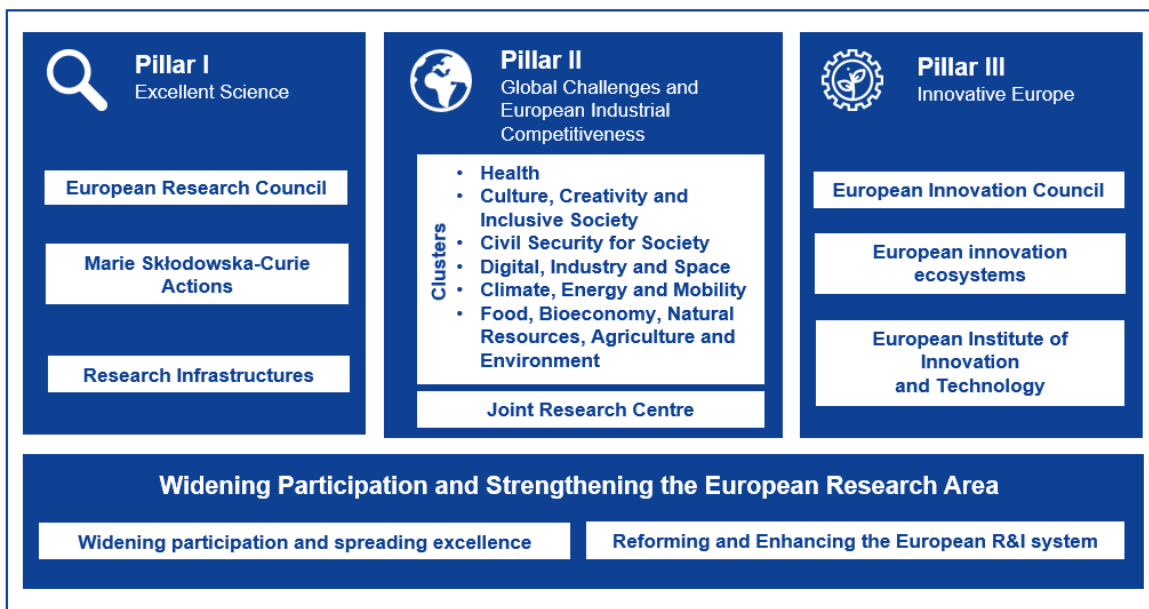
Coherence and synergies with other parts of the Framework Programme or with other EU programmes

In order to maximise the impact of research and innovation on society, environment and economy at large and to contribute to the achievement of the Union's objectives, Union funding programmes must be coherent and work in synergy. Synergies and coherence are based on complementarity between programme design and objectives, as well as financing rules and processes at implementation level.

The Strategic Planning process, and the ensuing implementation process, must ensure the alignment of priorities of the different parts of Horizon Europe and between Horizon Europe and other EU funding programmes, ensuring coherent funding options at different stages of the research and innovation cycle. This includes facilitating the deployment of research results and innovative solutions developed in Horizon Europe (or previous Framework Programmes) with the support of other Union funding programmes.

The following questions seek your views on the priorities for coherence and synergies between this cluster of Horizon Europe and other parts of the Horizon Europe, and other EU funding programmes.

Horizon Europe Structure



Missions shall be programmed within the **Pillar II**, 'Global Challenges and European Industrial Competitiveness', but may also benefit from actions carried out within other parts of the Programme as well as complementary actions carried out under other Union funding programmes.

Horizon Europe Missions are an integral part of the Horizon Europe framework programme. Missions are programmed under Horizon Europe Pillar II. Missions implementation will go beyond research and innovation. Missions will benefit from actions carried out within other parts of the Programme as well as

complementary actions carried out at national level and under other Union funding programmes. Each selected mission will be a mandate to solve a pressing challenge in society within a certain timeframe and budget. More information on Missions is available on the [Missions website](#).

1. In your view, how important is coherence between this cluster and other clusters or elements of Horizon Europe Pillar II?

| | Very important | Important | Neutral | Not important | Not important at all |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pillar II – Cluster 1 ‘Health’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 2 ‘Culture, Creativity and Inclusive Society’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 3 ‘Civil Security for Society’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 5 ‘Climate, Energy and Mobility’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 6 ‘Food, Bioeconomy, Natural Resources, Agriculture and Environment’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Cancer’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Adaptation to climate change including societal transformation’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Healthy oceans, seas coastal and inland waters’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Climate-neutral and smart cities’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Soil health and food’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. In your view, how important is coherence between this cluster and the other parts of Horizon Europe?

| | Very important | Important | Neutral | Not important | Not important at all |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pillar I – Excellent Science: European Research Council | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar I - Excellent Science: Marie-Sklodowska Curie Actions | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar I – Research Infrastructures | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Innovation Council | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
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|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pillar III - Innovative Europe: European Innovation Ecosystems | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Institute of Innovation and Technology | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Widening participation and spreading excellence | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Reforming and enhancing the European R&I system | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

3. In your view, how important are synergies between this cluster and the following other EU funding programmes?

| | Very important | Important | Neutral | Not important | Not important at all |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Programme for Environment and Climate Action (LIFE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| InvestEU | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Creative Europe | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Single Market Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Digital Europe Programme (DEP) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Internal Security Fund (ISF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Social Fund Plus (ESF+) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Maritime and Fisheries Fund (EMFF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Space Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Agricultural Fund for Rural Development (EAFRD) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Regional Development Fund (ERDF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Agricultural Guarantee Fund (EAGF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other [Note: A field for comments opens at the end of the list, when you select the level of importance] | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Erasmus Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Connecting Europe Facility (CEF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Defence Fund | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
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|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Innovation Fund under the Emission Trading Scheme (the 'Innovation Fund') | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Border Management and Visa Instrument (BMVI) as part of the Integrated Border Management Fund | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Neighbourhood, Development and International Cooperation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Euratom Research and Training Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

(Other) Please specify:

500 character(s) maximum

4. Do you have any other comments or suggestions regarding the expected potential of coherence or synergies with Horizon Europe?

1500 character(s) maximum

CLUSTER 5: Climate, Energy and Mobility

Impact 1: A climate-neutral and resilient society and economy

Short description of the impact: Transition to a climate-neutral and resilient society and economy enabled through advanced climate science, pathways and responses to climate change (mitigation and adaptation) and behavioral transformations.

R&I contribution: Advancing climate science and creating a user-centric knowledge base remain essential to catalyze the global transition to a climate neutral and resilient economy. Addressing this challenge will involve research that furthers our understanding of the changing climate and its implications, closes knowledge gaps (as identified in IPCC reports), develops the tools that support decision makers for mitigation and adaptation actions on various time and spatial scales, and evaluates the societal impact of climate change and the technologies required for a low-carbon transition.

The first objective is to accelerate climate action (both mitigation and adaptation) uptake globally in line with the Paris Agreement and the SDGs, by improving knowledge of the earth system under different socio-economic pathways, estimating the impacts of climate change and by designing and evaluating solutions and pathways for mitigation and adaptation and related social transformation. The second objective is to contribute substantially to key international assessments such as the Intergovernmental Panel on Climate Change (IPCC). The third objective is to strengthen the European research area on climate change.

1. Based on the description above, to what extent do you agree with the following statements:

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 2: Clean and sustainable transition of the energy and transport sectors towards climate neutrality

Short description of the impact: Clean and sustainable transition of the energy and transport sectors towards climate neutrality facilitated by innovative cross-cutting solutions.

R&I contribution: Many challenges of the energy and transport sectors are closely interlinked and must be addressed in a holistic approach, including with regard to their implications for citizens and society and making use of the social sciences and the humanities (SSH). As regards batteries, R&I activities will develop more performant, sustainable and circular battery technologies according to sectoral needs, thereby sustaining a competitive and sustainable EU battery value chain. With a view to hydrogen, a global leadership role of European industry along a competitive near-zero carbon hydrogen supply chain will be supported with R&I actions targeting improved efficiency, cost, performance, safety and environmental footprint of hydrogen and fuel cell technologies. Synergies and collaboration between these cross-sectoral solutions and their application in down-stream sectoral R&I in energy, transport and industry will be ensured. In addition, emerging and break-through technologies with a high potential for decarbonising the energy and transport sector will be supported.

More than 80% of the EU's population live in urban areas – R&I actions will provide concrete solutions for urban energy and mobility systems, thereby increasing the overall energy and resource efficiency as well as the climate-resilience of Europe's cities and communities and their attractiveness to businesses and citizens in a holistic fashion. The low-carbon transition will however only succeed if citizens accept and engage in it – R&I actions will investigate more effective ways to involve citizens, in particular through the Mission on Climate-neutral Cities.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|------------------------------|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 3: More efficient, clean, sustainable, secure and competitive energy supply

Short description of the impact: More efficient, clean, sustainable, secure and competitive energy supply through new solutions for smart grids and energy systems based on more performant renewable energy solutions .

R&I contribution: The transition of the energy system will rely on reducing the overall energy demand and decarbonising the energy supply side. R&I actions will make the energy supply side cleaner, more secure, and competitive by boosting cost performance and reliability of a broad portfolio of renewable energy solutions , in line with societal needs and preferences. Furthermore, R&I activities are needed to underpin the modernisation of the energy networks to support energy system integration, including the progressive electrification of demand side sectors (buildings, mobility, industry) and integration of other decarbonised energy carriers, such as clean hydrogen. Innovative energy storage solutions (including chemical, mechanical, electrical and thermal storage) are a key element of such energy system and R&I actions will advance their technological readiness for industrial-scale and domestic applications. Carbon Capture, Utilisation and Storage (CCUS) is a CO2 emission abatement option that holds great potential and R&I actions will accelerate the development of CCUS in electricity generation and industry applications.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 4: Efficient and sustainable use of energy, accessible for all

Short description of the impact: Efficient and sustainable use of energy, accessible for all is ensured through a clean energy system and a just transition.

R&I contribution: Fostering demand side solutions and improving energy efficiency are among the most cost effective ways to support decarbonisation, 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.

Buildings are pivotal to the energy transition and the achievement of a climate neutral economy and R&I actions will facilitate cost-effective energy renovation of buildings, thereby delivering energy savings, better life-cycle resource efficiency, and a more synergetic interactions of buildings with the energy system and between buildings. Furthermore, R&I is needed to scale the positive impacts from building level to the much more complex district and city level where a maximum of synergies can be achieved, involving citizens and different levels of government. As regards industry, efficient use of decarbonised energy will be optimised at all levels, with a focus on the integration of renewable and low-carbon energy sources and the optimisation of energy flows across integrated industrial installations and the wider energy system.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 5: Climate-neutral and environmental friendly mobility

Short description of the impact: Towards climate-neutral and environmental friendly mobility through clean solutions across all transport modes while increasing global competitiveness of the EU transport sector.

R&I contribution: 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 .

As regards road transport, R&I actions will contribute to the transformation to zero-emission mobility ensuring that Europe remains world leader in innovation, production and services in relation to road transport. The rail system will be supported with R&I action in its transformation focussing on decarbonisation, automation and digitalization. R&I action on aviation will develop enabling and integrated aircraft technologies for deep decarbonisation transformation, reducing all aviation impacts and emissions, and strengthening European aero-industry collaboration and industrial leadership position. With a view to waterborne transport, R&I actions will advance zero-emission solutions in the shipping sector, improve its system efficiency, enhancing digital and EU satellite-navigation solutions and contribute to its competitiveness. To reduce the negative impact of transport on environment and the human health, R&I actions will help to devise more effective ways of reducing emissions and their impacts.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 6: Safe, seamless, smart, inclusive, resilient and sustainable mobility systems

Short description of the impact: Safe, seamless, smart, inclusive, resilient and sustainable mobility systems for people and goods thanks to user-centric technologies and services including digital technologies and advanced satellite navigation services.

R&I contribution: Europe needs to maintain the competitiveness of its transport industry and manage the transformation of supply-based transport to demand-driven, safe and sustainable mobility services for passenger and freight. Suitable research and innovation initiatives will help to prepare such transformation. Emerging digital technologies and advanced satellite navigation services (Galileo/EGNOS) provide a great potential for developing connected and automated transport and managing traffic across the whole

transport network. It can enable significant safety, environmental, economic and social benefits by reducing accidents, traffic congestion, energy consumption and emissions of vehicles and logistics networks while increasing efficiency and productivity of operations and improving working conditions.

To succeed in this transformation, Europe’s ageing (and not always sustainable) transport infrastructure needs to be prepared for enabling cleaner and smarter operations.

Research and innovation results will set the basis for future standards and regulatory framework, creating European and global markets. To maximise societal, environmental and economic benefits, in addition to technological solutions, it is essential to address human and social aspects such as: analysis of mobility factors and patterns (for both passenger and freight transport), representations of different social groups and inclusiveness of new solutions, data privacy concerns, capacity building and public acceptance, etc.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Do you have any other comments regarding the expected impacts of this Cluster?

1500 character(s) maximum

CLUSTER 5 - COHERENCE AND SYNERGIES

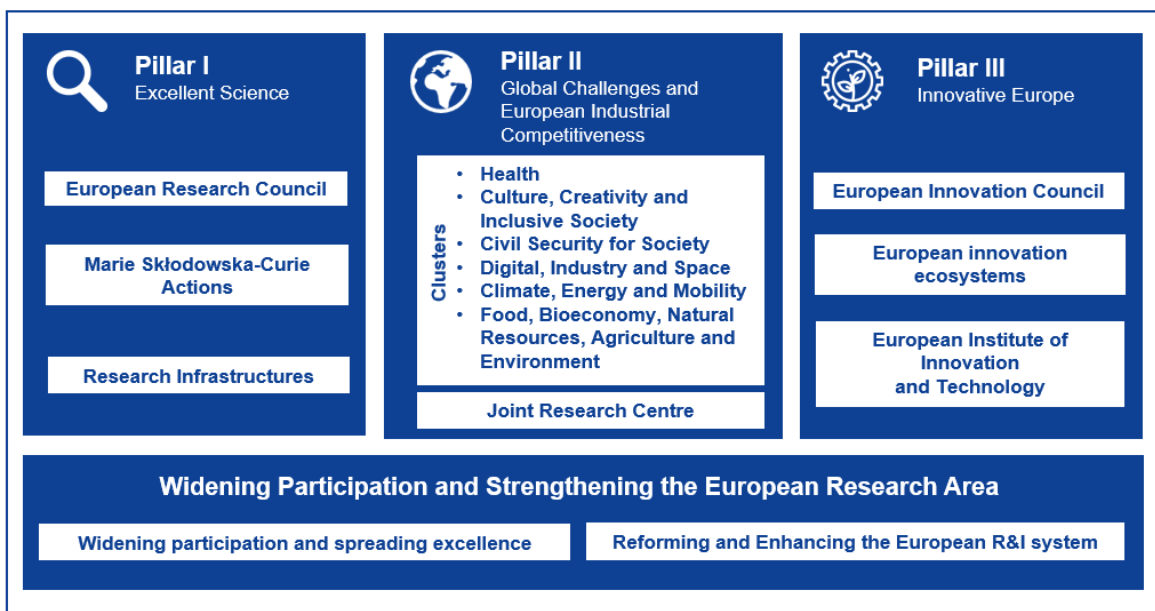
Coherence and synergies with other parts of the Framework Programme or with other EU programmes

In order to maximise the impact of research and innovation on society, environment and economy at large and to contribute to the achievement of the Union’s objectives, Union funding programmes must be coherent and work in synergy. Synergies and coherence are based on complementarity between programme design and objectives, as well as financing rules and processes at implementation level.

The Strategic Planning process, and the ensuing implementation process, must ensure the alignment of priorities of the different parts of Horizon Europe and between Horizon Europe and other EU funding programmes, ensuring coherent funding options at different stages of the research and innovation cycle. This includes facilitating the deployment of research results and innovative solutions developed in Horizon Europe (or previous Framework Programmes) with the support of other Union funding programmes.

The following questions seek your views on the priorities for coherence and synergies between this cluster of Horizon Europe and other parts of the Horizon Europe, and other EU funding programmes.

Horizon Europe Structure



Missions shall be programmed within the **Pillar II**, 'Global Challenges and European Industrial Competitiveness', but may also benefit from actions carried out within other parts of the Programme as well as complementary actions carried out under other Union funding programmes.

Horizon Europe Missions are an integral part of the Horizon Europe framework programme. Missions are programmed under Horizon Europe Pillar II. Missions implementation will go beyond research and innovation. Missions will benefit from actions carried out within other parts of the Programme as well as complementary actions carried out at national level and under other Union funding programmes. Each selected mission will be a mandate to solve a pressing challenge in society within a certain timeframe and budget. More information on Missions is available on the [Missions website](#).

1. In your view, how important is coherence between this cluster and other clusters or elements of Horizon Europe Pillar II?

| | Very important | Important | Neutral | Not important | Not important at all |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pillar II – Cluster 1 'Health' | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 2 'Culture, Creativity and Inclusive Society' | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | | | | | |

| | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pillar II – Cluster 3 ‘Civil Security for Society’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 4 ‘Digital, Industry and Space’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 6 ‘Food, Bioeconomy, Natural Resources, Agriculture and Environment’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Cancer’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Adaptation to climate change including societal transformation’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Healthy oceans, seas coastal and inland waters’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Climate-neutral and smart cities’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area ‘Soil health and food’ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. In your view, how important is coherence between this cluster and the other parts of Horizon Europe?

| | Very important | Important | Neutral | Not important | Not important at all |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pillar I – Excellent Science: European Research Council | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar I - Excellent Science: Marie-Sklodowska Curie Actions | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar I – Research Infrastructures | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Innovation Council | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Innovation Ecosystems | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Institute of Innovation and Technology | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Widening participation and spreading excellence | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Reforming and enhancing the European R&I system | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

3. In your view, how important are synergies between this cluster and the following other EU funding programmes?

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|

| | Very important | Important | Neutral | Not important | Not important at all |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| European Regional Development Fund (ERDF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Erasmus Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| InvestEU | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Defence Fund | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Agricultural Fund for Rural Development (EAFRD) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Single Market Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Connecting Europe Facility (CEF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Innovation Fund under the Emission Trading Scheme (the 'Innovation Fund') | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Border Management and Visa Instrument (BMVI) as part of the Integrated Border Management Fund | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other [Note: A field for comments opens at the end of the list, when you select the level of importance] | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Maritime and Fisheries Fund (EMFF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Neighbourhood, Development and International Cooperation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Social Fund Plus (ESF+) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Space Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Creative Europe | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Euratom Research and Training Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Programme for Environment and Climate Action (LIFE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Digital Europe Programme (DEP) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Internal Security Fund (ISF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Agricultural Guarantee Fund (EAGF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

(Other) Please specify:

500 character(s) maximum

4. Do you have any other comments or suggestions regarding the expected potential of coherence or synergies with Horizon Europe?

1500 character(s) maximum

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

Impact 1: Climate neutrality

Short description of the impact: Climate neutrality is achieved by reducing GHG emissions, maintaining natural carbon sinks, and enhancing the sequestration and storage of carbon in ecosystems, including by unfolding the potential of nature based solution, production systems on land and at sea as well as rural and coastal areas, where adaptations to climate change are also being fostered.

R&I contribution: Cluster 6 has the potential to deliver significantly on EU climate objectives by accelerating systemic changes. Thanks to R&I the climate mitigation and adaptation potential of ecosystems, primary production systems on land and at sea as well as in food and bio-based systems will be better understood and seized. Innovative production, transformation, distribution consumption and waste management systems will lead to the reduction of GHG emissions in primary and secondary production, notably in agriculture, food and bio-based systems. Innovative approaches will enable maintaining natural carbon sinks and enhance capture and storage functions provided by ecosystems, including soils (in particular organic soils), forests and oceans, primary production systems (e.g., carbon farming and agroforestry) as well as sustainable bio-based industry and products. R&I will also foster adaptation to the impacts of climate change. It will allow resource efficiency and sustainable cascading use of biomass. The ocean-climate nexus will be better understood. R&I will support monitoring, risk-based assessment and forecasting capacities including sea-level rise, and adaptation solutions to extreme sea level events and coastal hazards.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 2: Biodiversity decline is halted

Short description of the impact: Biodiversity in Europe is back on a path of recovery by 2030, and ecosystems and their services are preserved and sustainably restored on land, inland water and at sea through improved knowledge and innovation.

R&I contribution: Although transformative changes could bend the curve of biodiversity loss, they are currently not happening sufficiently quickly, widely or systemically, requiring the increased mobilization of R&I and all actors. R&I will be used to better observe, understand, monitor, value, restore and manage biodiversity and ecosystem services. Innovative solutions will be designed, up-scaled and implemented, to reverse ecosystems degradation and biodiversity decline, including of pollinators, corals, etc. R&I will also improve conservation, management and use of plant, animal, fungal and microbial genetic resources, thereby preserving and enhancing biodiversity in natural and primary production systems (including agriculture, forestry, aquaculture and fisheries), environmental applications and biodiscovery. Direct and indirect drivers of biodiversity loss will be tackled, and transformative change promoted in all sectors and societal aspects, notably by using natural capital accounting. European R&I will increase its contribution to biodiversity science and policy at European and global level.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 3: Sustainable and circular management and use of natural resources

Short description of the impact: Sustainable and circular management and use of natural resources as well as prevention and removal of pollution are mainstreamed, unlocking the potential of the bioeconomy, ensuring competitiveness and guaranteeing healthy soil, air, fresh and marine water for all, through better understanding of planetary boundaries and deployment of innovative technologies and other solutions,

notably in primary production, forestry and bio-based systems.

R&I contribution: Physical and biological planetary boundaries and flows will be better understood and defined, notably in relation to the use and management of natural resources. Innovative solutions for a minimised, circular use of resources and the mainstreaming of circular systems, including at local and regional levels, to increase resource efficiency along and across value chains will be developed, tested and demonstrated. Attention will be given to prevention and mitigation of pollution, including with nutrients, pesticides, plastics and emerging contaminants, towards clean seas and oceans, water, soil and air. The innovative, safe circular approaches, implemented through adequate business models, will ensure competitiveness and contribute to increased and fairly distributed added-value along and across value chains as well as to more attractive jobs in areas which are more socially and economically disadvantaged (e.g. rural areas), especially in the context of the post-COVID-19 pandemic. Innovative circular approaches will enable sustainable management of soil, water resources and nutrients, enhance their value, allow to better cope with the impacts of floods and droughts and reduce the high economic costs related to soil remediation and water pollution prevention, control and removal. R&I will benefit also sustainable forest management and the delivery of multiple forest products and services. Innovative bio-based solutions will unlock the potential of sustainable bioeconomy and replace fossil – based, carbon intensive and harmful materials with innovative, climate-neutral, bio-based, circular, non-toxic materials and chemicals.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 4: Food and nutrition security for all

Short description of the impact: Food and nutrition security for all within planetary boundaries is ensured through knowledge, innovation and digitalisation in agriculture, fisheries, aquaculture and food systems, which are sustainable, resilient, inclusive, safe and healthy from farm to fork.

R&I contribution: R&I will be a key driver in accelerating the transition to sustainable, low ecological footprint, healthy and inclusive food system from primary production to consumption. Farmers will be empowered to manage land, soil, water and nutrients in sustainable ways, reduce the use of pesticides and antimicrobials as well as excess fertilisation and to move towards more climate and environment-friendly

and resilient agriculture systems. The fish and seafood production will rely on more sustainable fisheries and aquaculture, including with novel foods. Key research areas include governance, AKIS, agroecology, organic farming and diversified farming systems, low trophic aquaculture, plant and animal health (including One-Health approach), animal nutrition, animal welfare, the microbiome, alternative proteins for sustainable agriculture and dietary shift, feed and food safety and traceability, personalised nutrition, prevention and reduction of food losses and waste, and urban food systems transformation. Innovative, climate smart, deforestation free, and sustainable food value chains with balanced power relations will ensure access to a sufficient supply of affordable food to citizens including when facing crisis situations. R&I will advance solutions to shift to sustainable healthy diets. Efforts to boost digitalisation based on fair data economy in agriculture, fisheries, aquaculture, and at the food system level will foster the development of tailored digital technology-based solutions enabling sustainability and transparency, as well as enhance data generation capacities and enhance databases increasing their effectiveness.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 5: Sustainable development of rural, coastal and urban areas is achieved

Short description of the impact: Rural coastal and urban areas are developed in a sustainable, balanced and inclusive manner thanks to a better understanding of the environmental, socio-economic, behavioural and demographic drivers of change as well as deployment of digital, social and community-led innovations.

R&I contribution: The differential impacts of climate, environmental, socio-economic and demographic changes on rural, coastal and urban areas, will be better understood and turned into equal opportunities for people wherever they live, enhancing territorial cohesion. Transdisciplinary R&I with a strong social sciences dimension will improve understanding of the behaviours and values of producers, consumers and all other actors, with attention to the gender aspects. People will have also more equitable access to knowledge and skills required for making informed choices and being actively engaged in sustainable management of natural resources, from production to consumption and disposal. Rural, coastal and urban communities, in particular women and the most vulnerable groups and those hit hardest by the COVID-19 pandemic, will see their labour conditions, quality of life, access to services and long-term socio-economic prospects in the context of major transitions and rising health threats improved. Their capacity to drive

community-led innovations will be enhanced. Mobilising the forces of digital transformation, nature-based solutions, as well as social and policy innovation will facilitate those changes and support smart, environment friendly, climate-neutral and resilient lifestyles. In marine and costal environments, emphasis will be put on ecosystem protection, climate adaptation and resilience.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Impact 6: Established Innovative governance models enable sustainability and resilience

Short description of the impact: Innovative governance models enabling sustainability and resilience are established and monitored through enhanced and shared use of new knowledge, tools, foresight, and environmental observations as well as digital, modelling and forecasting capabilities.

R&I contribution: R&I will provide strong evidence-based knowledge and tools to support policy design, implementation and monitoring for achieving the necessary transformative changes. Environmental observations will be enhanced and metrics improved, including for ocean exploration, conservation and the digital ocean. Particular efforts will be dedicated to support the development of digital twins of the Earth systems in collaboration with the Destination Earth initiative of the European strategy for data. By supporting better understanding of the impacts of global changes, environmental observations as well as the application of digital and big data technologies to assess socio-economic and environmental aspects, systems and flows will provide solid and reliable information and enable sound decision making and adaptation measures. Moreover, effective knowledge and innovation systems will encourage multi-actor, risk-aware, place-based and community-led innovations to benefit all, from primary producers to consumers. The EU’s and international science-policy interfaces will be strengthened with a view to establish governance models fostering sustainable solutions to be applied.

1. Based on the description above, to what extent do you agree with the following statements:

| | Strongly agree | Somewhat agree | Neither agree nor disagree | Somewhat disagree | Strongly disagree |
|--|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| The expected impact is clear | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| R&I will play an important role to reach this impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| The text describes well the role of R&I and the ambition of the impact | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. Would you like to share an original idea or wording suggestion on this impact?

500 character(s) maximum

Do you have any other comments regarding the expected impacts of this Cluster?

1500 character(s) maximum

CLUSTER 6 - COHERENCE AND SYNERGIES

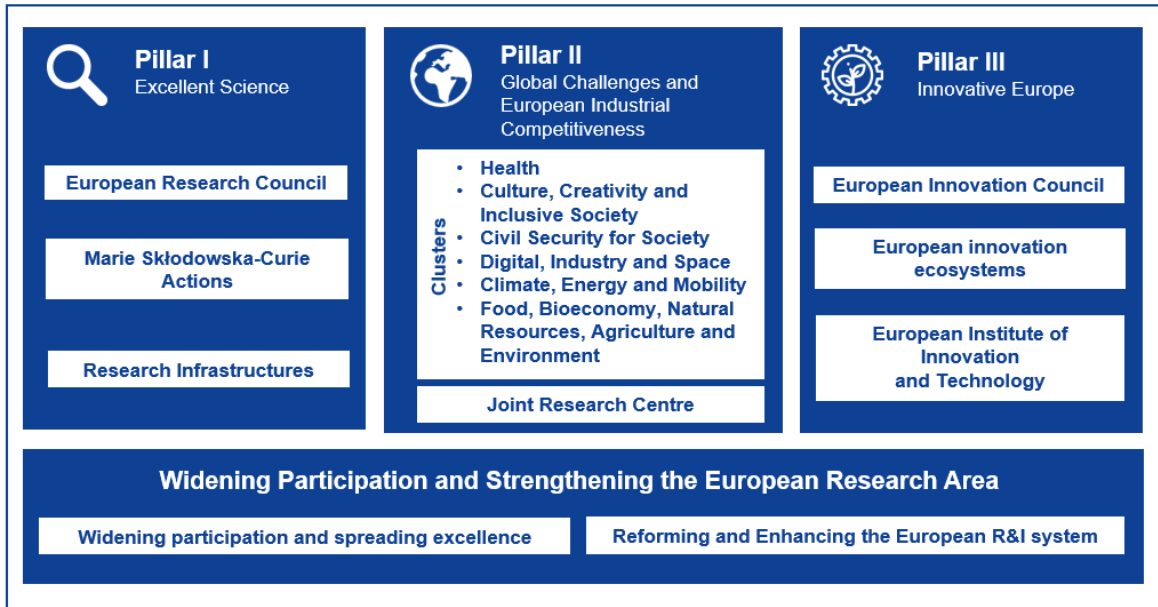
Coherence and synergies with other parts of the Framework Programme or with other EU programmes

In order to maximise the impact of research and innovation on society, environment and economy at large and to contribute to the achievement of the Union's objectives, Union funding programmes must be coherent and work in synergy. Synergies and coherence are based on complementarity between programme design and objectives, as well as financing rules and processes at implementation level.

The Strategic Planning process, and the ensuing implementation process, must ensure the alignment of priorities of the different parts of Horizon Europe and between Horizon Europe and other EU funding programmes, ensuring coherent funding options at different stages of the research and innovation cycle. This includes facilitating the deployment of research results and innovative solutions developed in Horizon Europe (or previous Framework Programmes) with the support of other Union funding programmes.

The following questions seek your views on the priorities for coherence and synergies between this cluster of Horizon Europe and other parts of the Horizon Europe, and other EU funding programmes.

Horizon Europe Structure



Missions shall be programmed within the **Pillar II**, 'Global Challenges and European Industrial Competitiveness', but may also benefit from actions carried out within other parts of the Programme as well as complementary actions carried out under other Union funding programmes.

Horizon Europe Missions are an integral part of the Horizon Europe framework programme. Missions are programmed under Horizon Europe Pillar II. Missions implementation will go beyond research and innovation. Missions will benefit from actions carried out within other parts of the Programme as well as complementary actions carried out at national level and under other Union funding programmes. Each selected mission will be a mandate to solve a pressing challenge in society within a certain timeframe and budget. More information on Missions is available on the [Missions website](#).

1. In your view, how important is coherence between this cluster and other clusters or elements of Horizon Europe Pillar II?

| | Very important | Important | Neutral | Not important | Not important at all |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pillar II – Cluster 1 'Health' | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 2 'Culture, Creativity and Inclusive Society' | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 3 'Civil Security for Society' | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 4 'Digital, Industry and Space' | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar II – Cluster 5 'Climate, Energy and Mobility' | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area 'Cancer' | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area 'Adaptation to climate change including societal transformation' | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Mission Area 'Healthy oceans, seas coastal and inland waters' | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area 'Climate-neutral and smart cities' | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mission Area 'Soil health and food' | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

2. In your view, how important is coherence between this cluster and the other parts of Horizon Europe?

| | Very important | Important | Neutral | Not important | Not important at all |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Pillar I – Excellent Science: European Research Council | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar I - Excellent Science: Marie-Sklodowska Curie Actions | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar I – Research Infrastructures | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Innovation Council | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Innovation Ecosystems | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Pillar III - Innovative Europe: European Institute of Innovation and Technology | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Widening participation and spreading excellence | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Reforming and enhancing the European R&I system | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

3. In your view, how important are synergies between this cluster and the following other EU funding programmes?

| | Very important | Important | Neutral | Not important | Not important at all |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Innovation Fund under the Emission Trading Scheme (the 'Innovation Fund') | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Programme for Environment and Climate Action (LIFE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Border Management and Visa Instrument (BMVI) as part of the Integrated Border Management Fund | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Social Fund Plus (ESF+) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Erasmus Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| European Agricultural Fund for Rural Development (EAFRD) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Euratom Research and Training Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Creative Europe | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Regional Development Fund (ERDF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Digital Europe Programme (DEP) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Internal Security Fund (ISF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Neighbourhood, Development and International Cooperation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| InvestEU | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other [Note: A field for comments opens at the end of the list, when you select the level of importance] | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Space Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Connecting Europe Facility (CEF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Maritime and Fisheries Fund (EMFF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Single Market Programme | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Agricultural Guarantee Fund (EAGF) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| European Defence Fund | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

(Other) Please specify:

500 character(s) maximum

4. Do you have any other comments or suggestions regarding the expected potential of coherence or synergies with Horizon Europe?

1500 character(s) maximum

