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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 c h a l l e n g e s .

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 e c o n o m y 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?

● No	
* You or your organisation are mainly active/interested in the following areas of Horizon Europe (please select all that apply): W 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	
European Heart Network	

Yes

Your name and last name: 150 character(s) maximum

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Marilena Vrana			
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* What is your country of residence or establishment?

BE - Belgium

- * 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.

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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

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	0	•	0	0	0
R&I will play an important role to reach this impact	•	0	0	0	0
The text describes well the role of R&I and the ambition of the impact	0	•	0	0	•

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

500 character(s) maximum

Digital health has the potential of improving primary prevention by increasing patient empowerment. Key to achieving these objectives is developing data standards and quality controls to foster reliability and trustworthiness to digital technologies. Harmonised and interoperable data systems and registries are important, especially for cardiovascular disease. Large scale studies are needed to prove effectiveness for patients and cost-effectiveness for healthcare systems. https://bit.ly/33qANFI

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	0	•	0	0	0
R&I will play an important role to reach this impact	•	0	0	0	0
The text describes well the role of R&I and the ambition of the impact	0	0	•	0	•

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

500 character(s) maximum

Efforts to reduce risk by improving lifestyle and the external environment are not working well enough. The solutions to these problems lie in behaviour change and a healthier environment, which are outside the remit of pure biomedical research, but there is a growing need for large scale and rigorous transdisciplinary prevention research programmes where the outcomes can inform government policy at global, national or regional levels. https://bit.ly/35FA4Do

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	0	0	•	0	0
R&I will play an important role to reach this impact	•	0	0	0	0
The text describes well the role of R&I and the ambition of the impact	0	0	•	0	•

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

500 character(s) maximum

A common understanding is needed on concepts on innovation and unmet need. Investment in large scale and rigorous transdisciplinary prevention research programmes must include cardiovascular health outcomes. The lack of innovation in CVD treatments needs to be tacked by a greater emphasis on matching discovery science to unmet clinical needs and by modernising clinical trials fit for the digital era. Patients' needs should be factored-in from the outset to ensure value. https://bit.ly/2FuRB60

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 h e a l t h

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	
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The expected impact is clear	0	•	0	0	0
R&I will play an important role to reach this impact	•	0	0	0	0
The text describes well the role of R&I and the ambition of the impact	0	0	•	0	0

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

500 character(s) maximum

Innovative solutions must advance diagnosis, in particular cardiovascular diagnosis since it is the No 1 cause of death in the EU; and care with the aim to improve patient outcomes and to reduce the economic pressure on our healthcare systems. Co-creation of innovative solutions (tools, services, procedures) with all relevant stakeholders, including most notably patients, is crucial to overcome common barriers such as lack of personal motivation and low digital literacy. https://bit.ly/33qANFI

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		Neither agree nor disagree	Somewhat disagree	Strongly disagree
The expected impact is clear	0	•	0	0	0

R&I will play an important role to reach this impact	•	©	0	0	0	
The text describes well the role of R&I and the ambition of the impact	0	0	•	0	•	

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

500 character(s) maximum

Digital innovation should be co-created with all stakeholders, and most notably patients, to transform our healthcare systems. Digital innovations should be scientifically validated, & their effectiveness & cost-effectiveness must be proven with large multi-centre trials. Interoperability, data standards & quality controls should be in place to foster reliability & trustworthiness to digital technologies & AI. Secure access would need to be guaranteed for all people. https://bit.ly/33qANFI

Impact 6: Maintaining an innovative, sustainable and globally competitive healthrelated 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	0	•	0	0	0
R&I will play an important role to reach this impact	•	0	0	0	0
The text describes well the role of R&I and the ambition of the impact	0	•	0	0	0

۷. ۱	2. Would you like to share an original idea or wording suggestion on this impact?						
5	500 character(s) maximum						

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

1500 character(s) maximum

The burden of cardiovascular disease (CVD) is greater than that of any other disease and the leading cause of death in the EU. Yet, investments in CVD research and innovation are lagging behind despite the need and the large potential for discovery and innovation. The complexity and costs of clinical trials, disproportionately low funding for CVD research and an unfavourable regulatory framework are key contributors to lack of CVD innovation.

The Strategic Research Agenda (SRA) for CVD identifies key areas for which clinical research is needed if we want to succeed in reducing CVD mortality and morbidity. Horizon Europe must support key areas for CVD research. The top five research priorities identified by SRA are: earlier recognition of cardiovascular disease; repair of the heart and blood vessels; the interaction between CVD and other disorders; treatment of chronic heart failure and atrial fibrillation; personalised treatment and management of cardiovascular disease.

Digital technologies have great potential in transforming prevention, early detection and management of cardiovascular disease. Horizon Europe must support research and deployment of digital health technologies in cardiovascular disease prevention and management. Harmonised and interoperable CVD data systems and registries are also key. https://bit.ly/2FuRB60

CLUSTER 1 - COHERENCE AND SYNERGIES

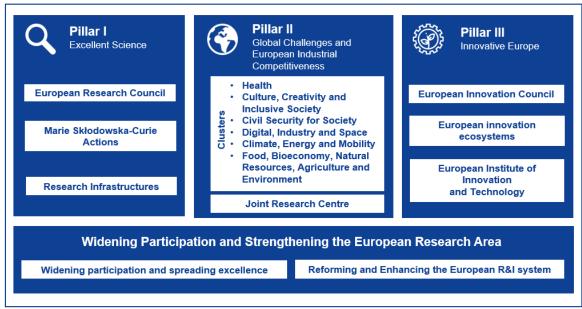
Coherence and synergies with other parts of the Framework Programme or with other EU program mes

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'	0	0	•	0	0
Pillar II – Cluster 3 'Civil Security for Society'	©	0	•	0	0
Pillar II – Cluster 4 'Digital, Industry and Space'	0	•	0	0	0
Pillar II – Cluster 5 'Climate, Energy and Mobility'	0	•	0	0	0
Pillar II – Cluster 6 'Food, Bioeconomy, Natural Resources, Agriculture and Environment'	0	•	0	0	0
Mission Area 'Cancer'	0	0	•	0	0

Mission Area 'Adaptation to climate change including societal transformation'	•	•	0	0	0
Mission Area 'Healthy oceans, seas coastal and inland waters'	0	0	•	0	0
Mission Area 'Climate-neutral and smart cities'	0	•	0	0	0
Mission Area 'Soil health and food'	0	•	0	0	0

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	0	•	0	0	0
Pillar I - Excellent Science: Marie- Skłodowska Curie Actions	0	0	•	0	0
Pillar I – Research Infrastructures	0	•	0	0	0
Pillar III - Innovative Europe: European Innovation Council	0	•	0	0	0
Pillar III - Innovative Europe: European Innovation Ecosystems	0	•	0	0	0
Pillar III - Innovative Europe: European Institute of Innovation and Technology	0	•	0	0	0
Widening participation and spreading excellence	0	•	0	0	0
Reforming and enhancing the European R&I system	•	0	0	0	0

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
Border Management and Visa Instrument (BMVI) as part of the Integrated Border Management Fund	0	0	0	0	•
European Agricultural Guarantee Fund (EAGF)	0	0	0	0	0
Internal Security Fund (ISF)	0	0	0	0	0

Programme for Environment and Climate Action (LIFE)	0	•	0	0	0
Digital Europe Programme (DEP)	•	0	0	0	0
European Defence Fund	©	©	0	©	©
European Social Fund Plus (ESF+)	•	©	0	©	©
Creative Europe	©	©	0	©	©
Connecting Europe Facility (CEF)	•	©	0	©	©
Other [Note: A field for comments opens at the end of the list, when you select the level of importance]	©	©	0	0	0
Single Market Programme	•	0	0	0	0
InvestEU	•	0	0	0	0
European Space Programme	0	0	0	0	0
Euratom Research and Training Programme	©	©	0	©	©
Neighbourhood, Development and International Cooperation	0	0	0	©	0
Erasmus Programme	0	•	0	0	0
Innovation Fund under the Emission Trading Scheme (the 'Innovation Fund')	0	0	0	0	0
European Maritime and Fisheries Fund (EMFF)	0	0	0	0	0
European Regional Development Fund (ERDF)	•	0	0	0	0
European Agricultural Fund for Rural Development (EAFRD)	©	©	0	©	0

4. C	o you ha	ave any	other	comments	or s	uggestions	regarding	the	expected	potential	of (coherence	e or
syn	ergies w	ith Hori	zon Eu	rope?									

1.	500 character(s) maximum

Contact

Contact Form