



4.10.2018

DRAFT OPINION

of the Committee on Development

for the Committee on Industry, Research and Energy

on the proposal for a decision of the European Parliament and of the Council on establishing the specific programme implementing Horizon Europe – the Framework Programme for Research and Innovation (COM(2018)0436 – C8-0253/2018 – 2018/0225(COD))

Rapporteur for opinion: Lola Sánchez Caldentey

PA_Legam

SHORT JUSTIFICATION

Horizon Europe will be the European Union's 9th Research and Innovation Framework Programme running from 2021 to 2027. Building on past successes and learning the lessons from previous programmes, Horizon Europe aims to strengthen the scientific and technological bases of the Union, foster its competitiveness and make Europe fit to take a leading role in facing the challenges of the 21st century.

Horizon Europe is of great relevance for the Committee on Development for the contribution it can play in the implementation of the Sustainable Development Goals. The importance of the role of research and innovation in relation to meeting societal and economic challenges in developing countries is increasingly recognised.

It is important to ensure that Horizon Europe is open to actors in developing countries in terms of both participation in projects and activities and access to results of the projects. Participation of developing countries in the current Horizon 2020 programme has declined compared to the previous framework programme and specific provisions in Horizon Europe should be added in order to reinforce the international cooperation dimension of the programme.

It is also paramount to ensure that the EU's external and development policy priorities and commitments are taken into account particularly in the areas of climate change, biodiversity, and resource and energy efficiency.

Additional proposed amendments concern the need to promote the involvement of civil society and to reinforce the mainstreaming of the gender dimension of the programme.

AMENDMENTS

The Committee on Development calls on the Committee on Industry, Research and Energy, as the committee responsible, to take into account the following amendments:

Amendment 1

Proposal for a decision Title

Text proposed by the Commission

Proposal for a decision of the European Parliament and of the Council on establishing the specific programme implementing Horizon **Europe** - the Framework Programme for Research and Innovation.

Amendment

Proposal for a decision of the European Parliament and of the Council on establishing the specific programme implementing Horizon **2027** - the Framework Programme for Research and Innovation.

Or. en

Justification

The name 'Horizon Europe' implies that the rest of the world is beyond the horizon of the programme. If the amendment is adopted, the entire regulation should be changed accordingly.

Amendment 2

Proposal for a decision Citation 2 a (new)

Text proposed by the Commission

Amendment

Having regard to Articles 208 (1) of the Treaty of the Functioning of the European Union (TFEU),

Or. en

Amendment 3

Proposal for a decision Recital 5

Text proposed by the Commission

Amendment

(5) Reflecting the importance of tackling climate change in line with the Union's commitments to implement the Paris Agreement and the United Nations Sustainable Development Goals, this Specific Programme will contribute to mainstream climate actions and to the achievement of an overall target of 25 % of the EU budget expenditures supporting climate objectives. Actions under this Specific Programme are expected to contribute **35%** of the overall financial envelope of the Specific Programme to climate objectives. Relevant actions will be identified during the Specific Programme's preparation and implementation, and reassessed in the context of the relevant

(5) Reflecting the importance of tackling climate change in line with the Union's commitments to implement the Paris Agreement and the United Nations Sustainable Development Goals, this Specific Programme will contribute to mainstream climate actions and to the achievement of an overall target of 25 % of the EU budget expenditures supporting climate objectives. Actions under this Specific Programme are expected to contribute **50%** of the overall financial envelope of the Specific Programme to climate objectives. Relevant actions will be identified during the Specific Programme's preparation and implementation, and reassessed in the context of the relevant evaluations and review processes. ***Civil***

evaluations and review processes.

society will be actively involved and consulted at all stages of preparation, implementation, and evaluation.

Or. en

Amendment 4

Proposal for a decision

Recital 6

Text proposed by the Commission

(6) The Specific Programme's actions should be used to address market failures or sub-optimal investment situations, in a proportionate manner, without duplicating or crowding out private financing and have a clear European added value.

Amendment

(6) *In its pursuit of the general objective laid down in Article 3 of the regulation [insert reference],* the Specific Programme's actions should be used to address *relevant* market failures, *such as neglected societal challenges*, or sub-optimal investment situations, in a proportionate manner, without duplicating or crowding out private financing and have a clear European added value.

Or. en

Justification

The Commission's wording could be interpreted as limiting the function of the Specific Programme to addressing market failures. Recalling the general objective should help avoid such a restrictive interpretation.

Amendment 5

Proposal for a decision

Recital 8

Text proposed by the Commission

(8) The completion of the Digital Single Market and the growing opportunities from the convergence of digital and physical technologies requires a stepping up of investments. Horizon

Amendment

(8) The completion of the Digital Single Market and the growing opportunities from the convergence of digital and physical technologies requires a stepping up of investments. Horizon

Europe will contribute to these efforts with a substantial increase of spending in main digital research and innovation activities compared to the Research and Innovation Framework Programme Horizon 2020⁶. This should ensure that Europe remains at the forefront of global research and innovation in the digital field.

Europe will contribute to these efforts with a substantial increase of spending in main digital research and innovation activities compared to the Research and Innovation Framework Programme Horizon 2020⁶. This should ensure that Europe remains at the forefront of global research and innovation in the digital field **and support the implementation of the Union's Digital for Development (D4D) initiative.**

⁶ The Communication from the Commission "A new, modern Multiannual Financial Framework for a European Union that deliver efficiently on its priorities post-2020" identifies EUR 13 billion spent in main digital activities under the Research and Innovation Framework Programme Horizon 2020 (<https://eur-lex.europa.eu/legal-content/en/ALL/?uri=CELEX%3A52018DC0098>).

⁶ The Communication from the Commission "A new, modern Multiannual Financial Framework for a European Union that deliver efficiently on its priorities post-2020" identifies EUR 13 billion spent in main digital activities under the Research and Innovation Framework Programme Horizon 2020 (<https://eur-lex.europa.eu/legal-content/en/ALL/?uri=CELEX%3A52018DC0098>).

Or. en

Justification

The Horizon regulation's recital 2 states that the programme should "strengthen the impact of research and innovation in developing, supporting and implementing Union policies. The D4D initiative, adopted through Council conclusions of 20 November 2017 is an obvious case in point.

Amendment 6

Proposal for a decision Recital 9 a (new)

Text proposed by the Commission

Amendment

(9a) The Specific Programme under this decision shall aim at improving the level of involvement and the processes of consultation with civil society at all stages of preparing, programming, implementing and evaluating the programme.

Amendment 7

Proposal for a decision

Article 2 – paragraph 2 – point d

Text proposed by the Commission

(d) strengthening international cooperation;

Amendment

(d) strengthening international cooperation ***and contributing to the honouring of relevant Union commitments, in particular in the Addis Ababa Action Agenda's paragraphs 49, 116, 120 and 121, and the Paris Agreement's Articles 7.7 and 10.5;***

Or. en

Amendment 8

Proposal for a decision

Article 2 – paragraph 2 – point e

Text proposed by the Commission

(e) attracting, training and retaining researchers and innovators in the European Research Area, including through mobility of researchers;

Amendment

(e) attracting, training and retaining researchers and innovators in the European Research Area, including through mobility of researchers, ***while preventing brain-drain from developing countries and supporting the build-up of R&I competence in those countries, in coordination with the Union's development instrument;***

Or. en

Amendment 9

Proposal for a decision

Article 2 – paragraph 2 – point f

Text proposed by the Commission

(f) fostering open science and ensuring visibility to the public and open access to results;

Amendment

(f) fostering open science and ensuring visibility to the public and open access to **research data** and results;

Or. en

Amendment 10

Proposal for a decision

Article 2 – paragraph 2 – point h

Text proposed by the Commission

(h) supporting the implementation of Union policy priorities;

Amendment

(h) supporting the implementation of Union policy priorities, **including the achievement of the objectives of the Paris Agreement and the SDGs, within the Union and globally**;

Or. en

Amendment 11

Proposal for a decision

Article 2 – paragraph 2 – point k

Text proposed by the Commission

(k) involving citizens and end-users in co-design and co-creation processes;

Amendment

(k) involving citizens, **civil society organisations** and end-users **in R&I agenda-setting, including** in co-design and co-creation processes;

Or. en

Amendment 12

Proposal for a decision

Article 2 – paragraph 2 – point k a (new)

Text proposed by the Commission

Amendment

(ka) addressing market failures, such as lack of R&I relating to certain global and societal challenges that attract limited private sector interest, or sub-optimal investment situations;

Or. en

Amendment 13

Proposal for a decision

Article 2 – paragraph 2 – point q a (new)

Text proposed by the Commission

Amendment

(qa) ensuring that Horizon Europe funding contributes to increasing national climate and energy objectives and increases targets within the National Energy and Climate Plans (NECPs);

Or. en

Amendment 14

Proposal for a decision

Article 5 – paragraph 1 – introductory part

Text proposed by the Commission

Amendment

1. For each mission, a mission board may be established. It shall be composed of around 15 high level individuals ***including relevant end-users' representatives***. The

1. For each mission, ***selected in accordance with Article 7 of the regulation establishing Horizon Europe***, a mission board shall be established. It shall

mission board shall advise upon the following:

be composed of around 15 high level individuals, *at least half of whom shall be drawn from academia, civil society or public institutions or represent end-users*. The mission board shall advise upon the following:

Or. en

Amendment 15

Proposal for a decision

Article 5 – paragraph 1 – point a

Text proposed by the Commission

(a) content of work programmes and their revision as needed for achieving the mission objectives, in co-design with stakeholders *and the public where relevant*;

Amendment

(a) content of work programmes and their revision as needed for achieving the mission objectives, in *co-creation and* co-design with stakeholders, *including civil society and citizens*;

Or. en

Amendment 16

Proposal for a decision

Article 10 – paragraph 3 – subparagraph 1

Text proposed by the Commission

The EIC Board shall be composed of 15 to 20 high level individuals drawn from various parts of Europe's innovation ecosystem, including entrepreneurs, corporate leaders, investors *and* researchers. It shall contribute to outreach actions, with EIC Board members striving to enhance the prestige of the EIC brand.

Amendment

The EIC Board shall be composed of 15 to 20 high level individuals drawn from various parts of Europe's innovation ecosystem, including entrepreneurs, corporate leaders, investors, researchers, *civil society organisations*. It shall contribute to outreach actions, with EIC Board members striving to enhance the prestige of the EIC brand. *The Board shall aim at a wider range of expertise, following a broad approach to R&I that includes social innovation.*

Amendment 17**Proposal for a decision****Article 11 – paragraph 1 – subparagraph 1***Text proposed by the Commission*

The Programme shall be implemented by work programmes referred to in Article 110 of Financial Regulation. They shall be prepared following a strategic planning process as described in Annex I to this Decision.

Amendment

he Programme shall be implemented by work programmes referred to in Article 110 of Financial Regulation. They shall be prepared following a strategic planning process as described in Annex I to this Decision. ***Work programmes for the different clusters of the “Global Challenges and European Industrial Competitiveness” pillar shall set out the overall amount (at least 70% of the pillar’s overall expenditure) reserved for projects aiming primarily at delivering societal impact and addressing societal challenges as defined by the Sustainable Development Goals.***

Amendment 18**Proposal for a decision****Annex I – paragraph 1***Text proposed by the Commission*

The implementation of Horizon Europe's programme-level objectives in an integrated manner will be ensured by multiannual Strategic Planning. Such planning will provide the focus on impact for the Programme overall and coherence between its different pillars, as well as synergy with other EU programmes and support to and from other EU policies.

Amendment

The implementation of Horizon Europe's programme-level objectives in an integrated manner will be ensured by multiannual Strategic Planning. Such planning will provide the focus on impact for the Programme overall and coherence between its different pillars, as well as synergy with other EU programmes and support to and from other EU policies. ***The Strategic Planning process shall ensure***

that Horizon Europe is oriented towards the achievement of the SDGs and that individual SDGs and SDG targets guide choices of topics and the formulation of the calls for proposals for the clusters of Pillar II ‘Global Challenges and Industrial Competitiveness’.

Or. en

Amendment 19

Proposal for a decision Annex I – paragraph 2

Text proposed by the Commission

The Strategic Planning will promote strong engagement with citizens and civil society **organisations** at all stages of research and innovation, the co-creation of knowledge, effective promotion of gender equality, including the integration of the gender dimension in research and innovation content, and will ensure and promote **the** adherence to the highest ethics and integrity standards.

Amendment

The Strategic Planning will promote strong engagement with citizens and civil society **both within the strategic planning process itself and** at all **other** stages of research and innovation, **including agenda-setting, in particular defining the research priorities of Pillar II ‘Global Challenges and Industrial Competitiveness’.** **To facilitate this, a structured dialogue will be established with civil society. The process will also promote** the co-creation of knowledge, effective promotion of gender equality, including the integration of the gender dimension in research and innovation content, and will ensure and promote **Responsible Research and Innovation and** adherence to the highest ethics and integrity standards.

Or. en

Amendment 20

Proposal for a decision Annex I – paragraph 17

Text proposed by the Commission

The Commission will establish comprehensive measures for exploitation of Horizon Europe results and the knowledge produced. ***This will accelerate exploitation towards market uptake and boost the impact of the Programme.***

Amendment

The Commission will establish comprehensive measures for exploitation of Horizon Europe results and the knowledge produced, ***with particular emphasis on uptake that can benefit the pursuit of the general objective of this programme laid down in Article 3 of the regulation [insert reference].***

Or. en

Justification

Not only uptake by market actors, but also by a broad range of others (institutions, organisations, communities etc) must be aimed for. Example: research results of value for climate services and climate action. The focus should be on uptake related to the programme's general objective.

Amendment 21

**Proposal for a decision
Annex I – paragraph 19**

Text proposed by the Commission

Greater impact will be obtained through aligning actions with other nations and regions of the world, within an international cooperation effort of unprecedented scale. Based on mutual benefit, partners from across the world will be invited to join EU efforts as an integral part of initiatives in support of **EU** action for sustainability, reinforced research and innovation excellence, and competitiveness.

Amendment

Greater impact will be obtained through aligning actions with other nations and regions of the world, ***including low and middle income countries***, within an international cooperation effort of unprecedented scale. Based on ***common interest and*** mutual benefit, partners from across the world will be invited to join EU efforts as an integral part of initiatives in support of action for sustainability, reinforced research and innovation excellence, and EU competitiveness.

Or. en

Justification

The EU has in the Addis Ababa Action Agenda committed to cooperate on research focusing

on the SDGs based on “common interest and mutual benefit” (paragraph 120). Action also by others than the EU should be supported. But support for competitiveness should be focused on EU competitiveness.

Amendment 22

Proposal for a decision Annex I – paragraph 20

Text proposed by the Commission

International joint action will ensure effective tackling of global *societal* challenges **and Sustainable Development Goals**, access to the world's best talents, expertise and resources, and enhanced supply and demand of innovative solutions.

Amendment

International joint action will ensure effective tackling of global challenges, **as defined in Article 2, point 1(a) of the regulation establishing Horizon Europe [insert ref]**, access to the world's best talents, expertise and resources, and enhanced supply and demand of innovative solutions. **Solutions to global challenges require a multidisciplinary, coordinated and universal effort.**

Or. en

Amendment 23

Proposal for a decision Annex I – pillar 1 – OPEN SCIENCE introductory – paragraph 4 a (new)

Text proposed by the Commission

Amendment

At the same time, research, technological development and innovation are essential for the tackling of global challenges. This is recognised in particular in the Paris Agreement, the Addis Ababa Action Agenda and the UN’s Agenda 2030. The EU will honour the commitments it has made in these contexts to cooperate on SDG-relevant research and support innovation in developing countries.

Or. en

Amendment 24

Proposal for a decision

Annex I – pillar 1 – OPEN SCIENCE introductory – paragraph 4 b (new)

Text proposed by the Commission

Amendment

The measures under this pillar to promote mobility of researchers will be applied in a considerate way, so as to avoid contributions to brain-drain from developing countries. The build-up of research competence in such countries will be supported, in coordination with the instrument used for implementation of the EU's development policy.

Or. en

Amendment 25

Proposal for a decision

Annex I – pillar 1 – point 2 – subpoint 2.1 – paragraph 1

Text proposed by the Commission

Amendment

Europe needs a highly-skilled and resilient human capital base in research and innovation that can easily adapt to and find sustainable solutions for future challenges, such as major demographic changes in Europe. To ensure excellence, researchers need to be mobile, collaborate and diffuse knowledge across countries, sectors and disciplines, with the right combination of knowledge and skills to tackle societal challenges and support innovation.

Europe needs a highly-skilled and resilient human capital base in research and innovation that can easily adapt to and find sustainable solutions for future challenges, such as major demographic changes in Europe ***and in the world***. To ensure excellence, researchers need to be mobile, collaborate and diffuse knowledge across countries, sectors and disciplines, with the right combination of knowledge and skills to tackle societal challenges and support innovation.

Or. en

Amendment 26

Proposal for a decision

Annex I – pillar 1 – point 2 – subpoint 2.2.1 – paragraph 1

Text proposed by the Commission

The EU must remain a reference for excellent research and thus attractive for the most promising researchers, European and non-European alike, at all stages of their careers. This can be achieved by enabling researchers and research-related staff to move and collaborate between countries, sectors and disciplines and thus benefit from high-quality training and career opportunities. This will facilitate career moves between the academic and non-academic sector as well as to stimulate entrepreneurial activity

Amendment

The EU must remain a reference for excellent research and thus attractive for the most promising researchers, European and non-European alike, ***including from low- and middle-income countries***, at all stages of their careers. This can be achieved by enabling researchers and research-related staff to move and collaborate between countries, sectors and disciplines and thus benefit from high-quality training and career opportunities. This will facilitate career moves between the academic and non-academic sector as well as to stimulate entrepreneurial activity.

Or. en

Amendment 27

Proposal for a decision

Annex I – pillar 1 – point 2 – subpoint 2.2.3 – paragraph 2 – indent 2

Text proposed by the Commission

Cooperation, production and diffusion of knowledge within the EU and with third countries.

Amendment

Cooperation, production and diffusion of knowledge within the EU and with third countries, ***including low and middle-income countries***.

Or. en

Amendment 28

Proposal for a decision Annex I – pillar 2 – paragraph 1

Text proposed by the Commission

Many of the challenges which confront the EU are also global challenges. The scale and complexity of the problems are vast, and need to be matched by the appropriate money, resources and effort in order to find solutions. These are precisely the areas where the EU must work together; smart, flexible and joined-up for the benefit and well-being of our citizens.

Amendment

Many of the challenges which confront the EU are also global challenges. The scale and complexity of the problems are vast, and need to be matched by the appropriate money, resources and effort in order to find solutions. These are precisely the areas where the EU must work together; smart, flexible and joined-up for the benefit and well-being of our citizens ***and the world.***

Or. en

Amendment 29

Proposal for a decision Annex I – pillar 2 – paragraph 2

Text proposed by the Commission

Greater impact can be obtained through aligning actions with other nations and regions of the world within an unprecedented international cooperation along the lines indicated by the Sustainable Development Goals and the Paris climate agreement. Based on mutual benefit, partners from across the world will be invited to join EU efforts as an integral part of research and innovation for sustainability.

Amendment

Greater impact can be obtained through aligning actions with other nations and regions of the world, ***including low and middle-income countries,*** within an unprecedented international cooperation along the lines indicated by the Sustainable Development Goals and the Paris climate agreement. Based on ***common interest and*** mutual benefit, partners from across the world will be invited to join EU efforts as an integral part of research and innovation for sustainability.

Or. en

Justification

The EU has in the Addis Ababa Action Agenda committed to cooperate on research focusing on the SDGs based on “common interest and mutual benefit” (paragraph 120).

Amendment 30

Proposal for a decision

Annex I – pillar 2 – paragraph 3

Text proposed by the Commission

Research and innovation are key drivers of sustainable growth and industrial competitiveness, and they will contribute to finding solutions to today's problems, to reverse as quickly as possible, the negative and dangerous trend that currently links economic development, the use of natural resources and social issues, and turn it into new business opportunities.

Amendment

Research and innovation are key drivers of **sustainable development, including** sustainable growth and industrial competitiveness, and they will contribute to finding solutions to today's problems, to reverse as quickly as possible, the negative and dangerous trend that currently links economic development, the use of natural resources and social issues, and **also** turn it into new business opportunities.

Or. en

Amendment 31

Proposal for a decision

Annex I – pillar 2 – paragraph 5

Text proposed by the Commission

Research and innovation under this pillar of Horizon Europe is grouped into integrated clusters of activities. Rather than addressing sectors, the investments aim at systemic changes **for our society and economy** along a sustainability vector. These will only be achieved if all actors, **both** private **and** public, engage in co-designing and co-creating research and innovation; bringing together end-users, scientists, technologists, producers, innovators, businesses, educators, citizens and civil society organisations. Therefore, none of the thematic clusters is intended for only one set of actors.

Amendment

Research and innovation under this pillar of Horizon Europe is grouped into integrated clusters of activities. Rather than addressing sectors, the investments aim at systemic **social and economic** changes along a sustainability vector. These will only be achieved if all actors, private, public **and third sector**, engage in co-designing and co-creating research and innovation; bringing together end-users, scientists, technologists, producers, innovators, businesses, educators, citizens and civil society organisations. Therefore, none of the thematic clusters is intended for only one set of actors. **Recognizing that civil society groups are not traditional**

R&I actors, specific efforts will be made to ensure their participation in agenda-setting, implementation and monitoring and evaluation of this pillar

Or. en

Justification

The SDGs are global goals and this programme does not aim at supporting the pursuit of sustainability exclusively within the EU.

Amendment 32

**Proposal for a decision
Annex I – pillar 2 – paragraph 6**

Text proposed by the Commission

Clusters will develop and apply digital, key enabling and emerging technologies as part of a common strategy to promote the EU's industrial leadership. Where appropriate this will use EU space-enabled data and services.

Amendment

Clusters ***will focus on addressing societal challenges, guided by the Sustainable Development Goals, and*** will develop and apply digital, key enabling and emerging technologies as part of a common strategy to promote the EU's industrial leadership ***within a framework of sustainable development***. Where appropriate this will use EU space-enabled data and services.

Or. en

Amendment 33

**Proposal for a decision
Annex I – pillar 2 – point 1 – subpoint 1.1 – paragraph 1**

Text proposed by the Commission

The EU Pillar of Social Rights asserts that everyone has the right to timely access to affordable, preventive and curative health care of good quality. ***This underlines the EU's commitment to the UN's Sustainable Development Goals calling***

Amendment

The EU Pillar of Social Rights asserts that everyone has the right to timely access to affordable, preventive and curative health care of good quality. ***The UN's Sustainable Development Goal 3 calls for ensuring healthy lives and promoting***

for universal health coverage for all at all ages by 2030, leaving no one behind, and ending preventable deaths.

wellbeing for all at all ages. Lack of research on possible vaccines and treatments for certain diseases that mainly or exclusively affect poor people represents an obvious market failure. Activities in this cluster shall address this failure and also in other ways support the pursuit of SDG 3 and its associated targets.

Or. en

Amendment 34

Proposal for a decision

Annex I – pillar 2 – point 1 – subpoint 1.1 – paragraph 3

Text proposed by the Commission

Health research and innovation research and innovation have played a significant part in this achievement but also in improving productivity and quality in the health and care industry. However, the EU continues to face novel, newly emerging or persisting challenges that are threatening its citizens and public health, the sustainability of its health care and social protection systems, as well as the competitiveness of its health and care industry. Major health challenges in the EU include: the lack of effective health promotion and disease prevention; the rise of non-communicable diseases; the spread of antimicrobial drug resistance and the emergence of infectious epidemics; increased environmental pollution; the persistence of health inequalities among and within countries affecting disproportionately people that are disadvantaged or in vulnerable stages of life; the detection, understanding, control, prevention and mitigation of health risks in a rapidly changing social, urban and natural environment; the increasing costs for European health care systems and the

Amendment

Health research and innovation research and innovation have played a significant part in this achievement but also in improving productivity and quality in the health and care industry. However, the EU continues to face novel, newly emerging or persisting challenges that are threatening its citizens and public health, the sustainability of its health care and social protection systems, as well as the competitiveness of its health and care industry. Major health challenges in the EU include: the lack of effective health promotion and disease prevention; the rise of non-communicable diseases; the spread of antimicrobial drug resistance and the emergence of infectious epidemics; increased environmental pollution; the persistence of health inequalities among and within countries affecting disproportionately people that are disadvantaged or in vulnerable stages of life; the detection, understanding, control, prevention and mitigation of health risks in a rapidly changing social, urban and natural environment; **high prices of some innovative health tools and technologies,**

progressive introduction of personalised medicine approaches and digitalisation in health and care; and the increasing pressure on the European health and care industry to remain competitive in and by developing health innovation vis-a-vis new and emerging global players.

the increasing costs for European health care systems and the progressive introduction of personalised medicine approaches and digitalisation in health and care; and the increasing pressure on the European health and care industry to remain competitive in and by developing health innovation vis-a-vis new and emerging global players.

Or. en

Amendment 35

Proposal for a decision

Annex I – pillar 2 – point 1 – subpoint 1.1 – paragraph 4

Text proposed by the Commission

These health challenges are complex, interlinked and global in nature and require multidisciplinary, cross-sectorial and transnational collaborations. Research and innovation activities will build close linkages between discovery, clinical, epidemiological, environmental and socio-economic research as well as with regulatory sciences. They will harness the combined skills of academia and industry and foster their collaboration with health services, patients, policy-makers and citizens in order to leverage on public funding and ensure the uptake of results in clinical practice as well as in health care systems. They will foster strategic collaboration at EU and international level in order to pool the expertise, capacities and resources needed to create economies of scale, scope and speed as well as to share the expected benefits and financial risks involved.

Amendment

These health challenges are complex, interlinked and global in nature and require multidisciplinary, cross-sectorial and transnational collaborations, ***including with low and middle income countries***. Research and innovation activities will build close linkages between discovery, clinical, epidemiological, environmental and socio-economic research as well as with regulatory sciences. They will harness the combined skills of academia and industry and foster their collaboration with health services, patients, policy-makers, ***civil society organisations*** and citizens in order to leverage on public funding and ensure the uptake of results in clinical practice as well as in health care systems. They will foster strategic collaboration at EU and international level in order to pool the expertise, capacities and resources needed to create economies of scale, scope and speed as well as to share the expected benefits and financial risks involved.

Or. en

Amendment 36

Proposal for a decision

Annex I – pillar 2 – point 1 – subpoint 1.1 – paragraph 4 a (new)

Text proposed by the Commission

Amendment

To promote equitable access to treatment, prevention or diagnosis for seriously debilitating or life-threatening diseases, and ensure that publicly funded R&I leads to suitable, safe, effective, accessible and affordable solutions, Horizon Europe will ask the beneficiaries of funding for such projects to outline how they intend to ensure access to project results, including potential future health tools.

Or. en

Amendment 37

Proposal for a decision

Annex I – pillar 2 – point 1 – subpoint 1.2.1 – paragraph 1

Text proposed by the Commission

Amendment

People in vulnerable stages of life (birth, infancy, childhood, adolescence, pregnancy, mature and late adulthood), including people with disabilities or injuries, have specific health needs that require better understanding and tailored solutions. This will allow reducing related health inequalities and improving health outcomes to the benefit of active and healthy ageing throughout the life course, in particular through a healthy start of life reducing the risk of mental and physical diseases later in life.

People in vulnerable stages of life (birth, infancy, childhood, adolescence, pregnancy, mature and late adulthood), including people with disabilities or injuries, have specific health needs that require better understanding and tailored solutions. This will allow reducing related health inequalities and improving health outcomes to the benefit of active and healthy ageing throughout the life course, in particular through a healthy start of life reducing the risk of mental and physical diseases later in life. ***In each of the following broad lines of activities, the involvement of citizens and civil society in co-design and co-creation of R&I will be a key objective of the R&I actions.***

Amendment 38

Proposal for a decision

Annex I – pillar 2 – point 1 – subpoint 1.2.1 – paragraph 1 – indent 2

Text proposed by the Commission

- Maternal, paternal, infant and child health as well as the role of parents;

Amendment

- Maternal, paternal, infant and child health as well as the role of parents; ***child and maternal survival***;

Or. en

Amendment 39

Proposal for a decision

Annex I – pillar 2 – point 2 – subpoint 1.2.2 – paragraph 2 – indent 1

Text proposed by the Commission

- Technologies for assessing hazards, exposures and health impact of chemicals, pollutants and other stressors, including climate-related and environmental stressors, and combined effects of several stressors;

Amendment

- ***Safe, effective, affordable, technologies, including low-cost technologies***, for assessing hazards, exposures and health impact of chemicals, pollutants and other stressors, including climate-related and environmental stressors, and combined effects of several stressors;

Or. en

Amendment 40

Proposal for a decision

Annex I – pillar 2 – point – subpoint 1.2.3 – paragraph 4 – indent 4

Text proposed by the Commission

- Treatments or cures, including both

Amendment

- ***Suitable, safe, effective and***

pharmacological and nonpharmacological treatments

affordable treatments or cures, including both pharmacological and non-pharmacological treatments;

Or. en

Amendment 41

Proposal for a decision

Annex I – pillar 2 – point 1 – subpoint 1.2.4 – paragraph 1

Text proposed by the Commission

Protecting people against cross-border health threats is a major challenge for public health, calling for effective international cooperation at EU and global level. This will involve prevention, preparedness, early detection, treatment and cure of infectious diseases, and also tackling antimicrobial resistance (*AMR*) *following a 'One Health approach'*.

Amendment

Protecting people against *communicable diseases and* cross-border health threats is a major challenge for public health, calling for effective international cooperation at EU and global level. This will involve prevention, preparedness, early detection, treatment and cure of infectious diseases, and also tackling antimicrobial resistance *A number of infectious diseases lack private sector R&I investment because of the lack of market incentives to invest in the prevention, treatment, and diagnosis of these often poverty-related diseases, calling for more ambitious public sector investment.*

Or. en

Amendment 42

Proposal for a decision

Annex I – pillar 2 – point 1 – subpoint 1.2.4 – paragraph 1 – indent 3

Text proposed by the Commission

– Vaccines, diagnostics, treatments and cures for infectious diseases, including co-morbidities and co-infections;

Amendment

– *Suitable, safe, effective and affordable* vaccines, diagnostics, treatments and cures for infectious diseases, including co-morbidities and co-infections;

Amendment 43**Proposal for a decision****Annex I – pillar 2 – point 1 – subpoint 1.2.4 – paragraph 2 – indent 6***Text proposed by the Commission*

Trans-border aspects of infectious diseases and specific challenges in low- and middle-income countries (LMICs), such as tropical diseases.

Amendment

Trans-border aspects of infectious diseases and specific challenges in low- and middle-income countries (LMICs), ***in particular poverty-related diseases***, such as ***neglected tropical diseases, AIDS, tuberculosis, and malaria***. ***Poverty-related and neglected diseases need to be tackled in a comprehensive approach based on partnership with Member States and affected regions.***

Or. en

Amendment 44**Proposal for a decision****Annex I – pillar 2 – point 1 – subpoint 1.2.5 – paragraph 1***Text proposed by the Commission*

Health technologies and tools are vital for public health and contributed to a large extent to the important improvements achieved in the quality of life, health and care of people, in the EU. It is thus a key strategic challenge to design, develop, deliver and implement suitable, trustable, safe, ***and cost-effective*** tools and technologies for health and care, taking due account of the needs of people with disabilities and the aging society. These include artificial intelligence and other digital technologies, offering significant improvements over existing ones, as well as stimulating a competitive and

Amendment

Health technologies and tools are vital for public health and contributed to a large extent to the important improvements achieved in the quality of life, health and care of people, in the EU. It is thus a key strategic challenge to design, develop, deliver and implement suitable, trustable, safe, ***affordable and effective*** tools and technologies for health and care, taking due account of the needs of people with disabilities and the aging society. These include artificial intelligence and other digital technologies, offering significant improvements over existing ones, as well as stimulating a competitive and

sustainable health-related industry that creates high-value jobs. The European health-related industry is one of the critical economic sectors in the EU, accounting for 3% of GDP and 1.5 million employees.

sustainable health-related industry that creates high-value jobs. The European health-related industry is one of the critical economic sectors in the EU, accounting for 3% of GDP and 1.5 million employees.

Or. en

Amendment 45

Proposal for a decision

Annex I – pillar 2 – point 1 – subpoint 1.2.5 – paragraph 2 – indent 6 a (new)

Text proposed by the Commission

Amendment

- ***Implementation research, involving citizens and civil society (patients and/or clinicians) in co-design and co-creation of innovative solutions***

Or. en

Amendment 46

Proposal for a decision

Annex I – pillar 2 – point 2 – subpoint 2.2.3 – paragraph 1 – indent 5

Text proposed by the Commission

Amendment

- Tax and benefits systems together with social security and social investment policies with a view to reversing inequalities and addressing the negative impacts of technology, demographics ***and diversity***;

- Tax and benefits systems together with social security and social investment policies with a view to reversing inequalities, ***support domestic resource mobilisation in developing countries, in accordance with section II A of the Addis Ababa Action Agenda and with EU policy***, and addressing the negative impacts of technology, demographics, ***tax avoidance and evasion, illicit financial flows and lack of transparency in relation to financial conditions and operations***;

Or. en

Amendment 47

Proposal for a decision

Annex I – pillar 2 – point 3 – subpoint 3.1 – paragraph 3 a (new)

Text proposed by the Commission

Amendment

Digitalisation is progressing also in developing countries, opening up new social and economic opportunities. At the same time, the digital divide between and within countries hinders benefit-sharing and aggravate inequality. The EU's Digital4Development initiative aims at helping to maximise the positive effects of digitalisation on developing countries and to address problems. Activities in this cluster will support this initiative.

Or. en

Amendment 48

Proposal for a decision

Annex I – pillar 2 – point 3 – subpoint 3.1 – paragraph 4

Text proposed by the Commission

Amendment

Key enabling technologies underpin the blending of the digital and the physical worlds, central to this new global wave of innovation. Investing in the development, demonstration and deployment of key enabling technologies, ***and ensuring a secure, sustainable and affordable supply of raw and advanced materials***, will secure EU strategic autonomy and help EU industry to significantly reduce its carbon and environmental footprints.

Key enabling technologies underpin the blending of the digital and the physical worlds, central to this new global wave of innovation. Investment in the development, demonstration and deployment of key enabling technologies will ***help*** secure EU strategic autonomy and help EU industry to significantly reduce its carbon and environmental footprints.

Or. en

Justification

It is not the purpose of this programme to ensure the supply of raw materials.

Amendment 49

Proposal for a decision

Annex I – pillar 2 – point 4 – subpoint 4.1 – paragraph 2

Text proposed by the Commission

To meet the objectives of the Paris Agreement the EU will need to transition to low-carbon, resource-efficient and resilient economies and societies. This will be based on profound changes in technology and services, to the ways in which businesses and consumers behave, as well as involving new forms of governance. Limiting the increase of global average temperature to well below 2°C, and pursuing efforts to limit the temperature increase to 1.5°C, requires rapid progress in decarbonising the energy system and substantially reducing greenhouse-gas (GHG) emissions from the transport sector⁶. It will also need new impetus to accelerate the pace of developing next-generation breakthroughs as well as demonstrating and deploying innovative technologies and solutions, using also the opportunities provided by digital and space technologies. This will be pursued through an integrated approach encompassing decarbonisation, resource efficiency, reduction of air pollution, access to raw materials and circular economy.

Amendment

To meet the objectives of the Paris Agreement the EU will need to transition to low-carbon, resource-efficient and resilient economies and societies. This will be based on profound changes in technology and services, to the ways in which businesses and consumers behave, as well as involving new forms of governance. ***The Paris Agreement constitutes a framework for mitigation as well as adaptation action. Its article 7 sets a global goal on adaptation. In particular through this article's point 7.7, the EU has committed to assist developing countries, which carry little responsibility for the causing of climate change, are its main victims and lack resources to adapt to it. Developing countries' needs include research-based targeted forecasts and advice (climate services) of the highest possible quality to enable good decision-making and preparedness. They also include assistance in developing effective new adaptation methods. Delivering a solid EU contribution to the coverage of these needs is an important objective of the activities in this cluster and is crucial for the EU's honouring of its commitments in the Paris Agreement's articles 7.7 and 10.5.*** Limiting the increase of global average temperature to well below 2°C, and pursuing efforts to limit the temperature increase to 1.5°C, requires rapid progress in decarbonising the energy system and substantially reducing

greenhouse-gas (GHG) emissions from the transport sector⁶. It will also need new impetus to accelerate the pace of developing next-generation breakthroughs as well as demonstrating and deploying innovative technologies and solutions, using also the opportunities provided by digital and space technologies. This will be pursued through an integrated approach encompassing decarbonisation, resource efficiency, reduction of air pollution, access to raw materials and circular economy.

Or. en

Amendment 50

Proposal for a decision

Annex I – pillar 2 – point 5 – subpoint 5.1 – paragraph 6

Text proposed by the Commission

As these challenges are complex, interlinked and global in nature, activities will follow a systemic approach, cooperating with Member States and international partners, with other funding sources and with other policy initiatives. This will involve user-driven exploitation of environmental big data sources, such as those from Copernicus, GNOS/Galileo, INSPIRE, EOSC, GEOSS, CEOS, EMODnet.

Amendment

As these challenges are complex, interlinked and global in nature, activities will follow a systemic approach, cooperating with Member States and international partners, ***including low- and middle-income countries***, with other funding sources and with other policy initiatives. This will involve user-driven exploitation of environmental big data sources, such as those from Copernicus, GNOS/Galileo, INSPIRE, EOSC, GEOSS, CEOS, EMODnet

Or. en

Amendment 51

Proposal for a decision

Annex I – pillar 2 – point 6 – point 6.2.1 – paragraph 2 – indent 1 a (new)

Text proposed by the Commission

Amendment

- ***Research to promote the mainstreaming of Responsible Research and Innovation (RRI), in particular:***
 - ***Civil society engagement, developing methods to promote civil society engagement in R&I governance, agenda-setting and monitoring and evaluation;***
 - ***Citizen engagement, linking with the specific activity “Deliberative and participatory democracy and active and inclusive citizenship, including the digital dimension”, under area of intervention 2.2.1 “Democracy” under Cluster 2 of Pillar 2, including the promotion and use of participatory deliberative policy processes.***

Or. en

Amendment 52

Proposal for a decision

Annex I – pillar 2 – point 6 – subpoint 6.2.2 – subpoint 2 – indent 6 a (new)

Text proposed by the Commission

Amendment

- ***Support to external policies in the areas of conflict prevention, peace building and mediation, including early warning;***

Or. en

Amendment 53

Proposal for a decision

Annex I – part – Strengthening the European Research Area – paragraph 3

Meanwhile, there is a growing disparity in Europe between the innovation-leading and the innovation-lagging regions. Change is needed if Europe as a whole is to capitalise on excellence from across the continent, maximise the value of public and private investments, and their impacts on productivity, economic growth, job creation and well-being.

In addition, research and innovation are seen by some as distant and elitist without clear benefits for citizens, instilling attitudes that hamper the creation and uptake of innovative solutions, and scepticism about evidence-based public policies. This requires **both** better linkages between scientists, citizens and policy-makers, and more robust approaches to pooling scientific evidence itself.

Meanwhile, there is a growing disparity in Europe between the innovation-leading and the innovation-lagging regions. Change is needed if Europe as a whole is to capitalise on excellence from across the continent, maximise the value of public and private investments, and their impacts on productivity, economic growth, job creation and well-being. ***Societal engagement is a widely recognised key component of Responsible Research and Innovation and essential to ensuring societal impact. Citizens and civil society actors (such as non-governmental organisations, e.g. environment and health NGOs) are two different target groups of RRI's vision of societal engagement in R&I.***

In addition, research and innovation are seen by some as distant and elitist without clear benefits for citizens, instilling attitudes that hamper the creation and uptake of innovative solutions, and scepticism about evidence-based public policies. This requires ***developing and testing solutions to improve meaningful societal engagement, in particular addressing the barriers to societal engagement, along with*** better linkages between scientists, citizens and policy-makers, and more robust approaches to pooling scientific evidence itself.

Or. en

Amendment 54

Proposal for a decision

Annex I – part – Strengthening the European Research Area – point 2 – paragraph 2 – indent 6

Text proposed by the Commission

Citizen science, supporting all types of formal, non-formal and informal science education, including engagement of citizens in the co-design of research and innovation agenda settings and policy, in the co-creation of scientific content and innovation through transdisciplinary activities

Amendment

Science and Society activities, supporting the principles of Responsible Research and Innovation to better align the process of R&I and its outcomes with the values, needs, and expectations of society, and the operational objective of Article 2 (2), including engagement of citizens in the co-design of research and innovation agendas and policy, in the co-creation of scientific content and innovation through transdisciplinary activities, ***supporting all types of formal, non-formal and informal science education, and the promotion and use of innovative and participatory deliberative policy processes; Civil society engagement, to develop and implement methods of engagement and address barriers to engagement, across the programme and in particular in the governance and monitoring and evaluation of Pillar 2, and in implementation of the activities of Pillar 2.***

Or. en