DRAFT OPINION

of the Committee on the Environment, Public Health and Food Safety

for the Committee on Industry, Research and Energy


Rapporteur for opinion: Cristian-Silviu Bușoi
SHORT JUSTIFICATION

Horizon Europe will be the European Union’s 9th Research and Innovation Framework Programme and it will run between 2021 and 2027. The European Commission foresees financing for Horizon Europe to the tune of 97.6 billion EUR, up from the roughly 80 billion EUR for Horizon 2020. 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 - from health to global warming, from digitalisation to the circular economy.

The rapporteur concurs that for Horizon Europe to succeed a balanced mix of continuity and innovation is necessary, and that an ‘evolution’ of the current programme will reap more benefits than ‘revolution’.

Continuity will serve to offer predictability and simplicity to the scientific community and firms aiming to engage with Horizon Europe. Continuity will also reinforce the ‘Horizon’ brand, ease dissemination efforts and analyse the performance of the programme over time. Specifically the rapporteur welcomes continuity in the three-pillar structure and of the successful components within them. Furthermore the rapporteur welcomes the continuation of grants as the main funding model for Horizon Europe.

Yet, the new Horizon rightly addresses a number of identified shortcomings. Horizon 2020 has for example succeeded in the bringing about excellent research - as demonstrated by the references in high quality scientific literature of Horizon’s funded publications, but the EU’s ecosystem is still not sufficiently conducive to breakthrough innovation. The rapporteur is of the opinion that a number of novelties in the new Horizon will strengthen the programme. The introduction of the concept of missions has the highest potential for success. A few, simple, well-funded missions with a high societal impact would serve to rally the scientific and business community. The new European Innovation Council also has the potential to accelerate the scaling up of promising ideas, favouring start-up and strengthening the links between academia and the business world. The reduction of bureaucracy, the principle of open science and the strengthened synergies with other EU programmes all have the potential to bring about positive change, accelerate innovation and concretise results.

The success of Horizon Europe is particularly important for the ENVI Committee. This is not just because being at the forefront of innovation and research is the best way to ensure quality jobs and the future competitiveness of the EU’s economy, but also because Horizon Europe is a key instrument to address the many pressing issues which are the focus of ENVI’s work and which stem from the international obligations which the EU helped shaping, such as the Paris Agreement or the Sustainable Development Goals or WHO guidelines.

Specifically, Pillar 2 takes the lion’s share of Horizon Europe funding. Three out of five of its clusters - (a) Health, (d) Climate, Energy and Mobility and (e) Food and natural resources - are of direct relevance to ENVI’s areas of competence and cover the largest part of the funding of Pillar 2.

As the most recent Eurobarometer survey presents, 70% of Europeans want the Union to do more in health sector. The rapporteur stresses that decreasing budgetary ratio on Health is not
proportional with our current citizens’ expectations, especially on present times of populism and euroskepticism. Therefore, with regard to the budgetary distribution on Health, the rapporteur calls for the budget to be kept at least at the same rate as in H2020 - respectively 9.7% of the total budget, not 8.18% as proposed without redeployments. Furthermore, the rapporteur considers that the budgetary distribution between the two components of Pillar II should respect the same proportionality as in H2020, particularly 70% should focus on addressing Societal Challenges and delivering impact for society as a whole, while 30% should focus on Industrial Competitiveness.

Cancer is one of the main challenges many European citizens face. Almost one in three Europeans will develop cancer in their lifetime. Every year, 1.3 million people in Europe die from cancer, accounting for 26% of all deaths. Despite progress in medical science, the prevalence of cancer continues to increase and there remains significant differences between and within EU Member States as far as quality of care is concerned. Moreover, cancer remains the leading cause of death by disease in children, with 6000 young people dying each year from cancer in Europe. Innovative solutions in the field of paediatric oncology are crucial for Europe’s next generations as, every year, 35 000 new cases of cancer on young people are registered in the EU. As research and innovation are currently fragmented in this area and national actions alone cannot achieve sufficient results by themselves, the rapporteur proposes a first mission in an area with high mortality and long-term morbidity, related to children, namely ‘Eradicating paediatric cancer by 2030’.

AMENDMENTS

The Committee on the Environment, Public Health and Food Safety 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
Recital 5

Text proposed by the Commission

(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

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 evaluations and review processes.

identified, in consultation with relevant stakeholders and civil society, during the Specific Programme's preparation and implementation, and reassessed in the context of the relevant evaluations and review processes.

Amendment 2
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) The Specific Programme's actions should be used to address market failures, in particular through research and innovation (R&I) addressing neglected societal challenges that suffer from sub-optimal investment situations, in a proportionate manner, without duplicating or crowding out private financing and have a clear European added value.

Amendment 3
Proposal for a decision
Recital 9 a (new)

*Text proposed by the Commission*

(9a) The Specific Programme should aim to increase the level of involvement of relevant stakeholders and civil society throughout the Programme, including in research agenda setting, implementation and communication.

*Amendment*

(9a) The Specific Programme should aim to increase the level of involvement of relevant stakeholders and civil society throughout the Programme, including in research agenda setting, implementation and communication.
Amendment 4

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 results and research data (with specific and strict rules for necessary derogations, for example to protect personal data);

Or. en

Amendment 5

Proposal for a decision
Article 2 – paragraph 2 – point j a (new)

Text proposed by the Commission

Amendment

(ja) addressing market failures, in particular through R&I on neglected societal challenges with sub-optimal investment situations for the private sector;

Or. en

Amendment 6

Proposal for a decision
Article 5 – paragraph 1 – introductory part

Text proposed by the Commission

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 mission board shall advise upon the following:

Amendment

1. For each mission, a mission board shall be established. It shall be composed of a maximum 15 high level individuals including relevant end-users' representatives. For each mission, two board members shall be appointed by the European Parliament. The mission board shall advise upon the
following:

Amendment 7
Proposal for a decision
Article 5 – paragraph 2 a (new)

Text proposed by the Commission

Amendment

2a. The first mission shall be: “Eradication of paediatric cancer by 2030”.

Amendment 8
Proposal for a decision
Annex I – paragraph 10

Text proposed by the Commission

Amendment

Under the 'Global Challenges and Industrial Competitiveness' pillar, building on experience in Horizon 2020, the social sciences and the humanities will be fully integrated across all clusters, including specific and dedicated activities. Likewise, activities involving marine and maritime research and innovation will be implemented in a strategic and integrated manner in line with the EU Integrated Maritime Policy, the Common Fisheries Policy Policies and international commitments.

Likewise, activities involving innovation, research and development on marine ecosystems, fishery resources and maritime sector with links between biodiversity preservation and benefits to human health and economic well-being shall be implemented in a strategic and
integrated manner in line with the EU Integrated Maritime Policy, the Common Fisheries Policy Policies and international commitments.

Amendment 9
Proposal for a decision
Annex I – paragraph 10 a (new)

Text proposed by the Commission

Research and innovation as well as the creation of smart business models based on resource efficiency towards the transition to a circular economy in the Union will be an integral part to the 'Global Challenges and Industrial Competitiveness' pillar.

Amendment 10
Proposal for a decision
Annex I – paragraph 14

Text proposed by the Commission

Horizon Europe will provide dedicated support for open access to scientific publications, to knowledge repositories and other data sources. Dissemination and knowledge diffusion actions will be supported, also from cooperation with other EU programmes, including clustering and packaging results and data in languages and formats for target audiences and networks for citizens, industry, public administrations, academia, civil society organisations, and policy makers. For this purpose, Horizon Europe may make use of advanced technologies and intelligence

Amendment

Horizon Europe will provide dedicated support for open access to scientific publications and to research data (with specific and strict rules for necessary derogations, for example to protect personal data), to knowledge repositories and other data sources. Dissemination and knowledge diffusion actions will be supported, also from cooperation with other EU programmes, including clustering and packaging results and data in languages and formats for target audiences and networks for citizens, industry, public administrations, academia, civil society organisations, and policy makers.
tools. organisations, and policy makers. For this purpose, Horizon Europe may make use of advanced technologies and intelligence tools.

Amendment 11
Proposal for a decision
Annex I – paragraph 15

Text proposed by the Commission
There will be appropriate support for mechanisms to communicate the programme to potential applicants (e.g. National Contact Points).

Amendment
There will be appropriate support for mechanisms to communicate the programme to potential applicants and citizens through awareness raising campaigns and other promotion initiatives (e.g. National Contact Points).

Amendment 12
Proposal for a decision
Annex I – part II – 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, inclusive 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 sustainable business opportunities that benefit all of society.
Amendment 13

Proposal for a decision
Annex I – part II – point 1 – point 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

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Or. en

Amendment 14

Proposal for a decision
Annex I – part II – point 1 – point 1.1 – paragraph 4 a (new)

Text proposed by the Commission

In order to boost public return on publicly funded R&I initiatives, Horizon Europe applicants will include in the appropriate section of the application a plan describing how access to project results will be ensured.

Amendment

In order to boost public return on publicly funded R&I initiatives, Horizon Europe applicants will include in the appropriate section of the application a plan describing how access to project results will be ensured.
Amendment 15

Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 1.2.1 – paragraph 1

Text proposed by the Commission

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.

Amendment

People in vulnerable stages of life (birth, infancy, childhood, adolescence, pregnancy, 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.

Amendment 16

Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 1.2.1 – paragraph 2 – indent 3 a (new)

Text proposed by the Commission

- Health needs and consequences associated with high mortality and long-term morbidity, especially related to children;

Amendment

Or. en

Amendment 17

Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 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 and effective 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 18

Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 1.2.3 – introductory part

Text proposed by the Commission

Amendment

1.2.3. Non-Communicable and Rare Diseases

Amendment

1.2.3. Non-Communicable and Rare Diseases, including Cancer

Or. en

Amendment 19

Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 1.2.3 – paragraph 2 – indent 1 a (new)

Text proposed by the Commission

Amendment

- Tools, including biobanks and generation of genomic data, enabling a better understanding of the underlying mechanisms of disease and a faster development of personalized therapies;

Or. en

Amendment 20

Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 1.2.3 – paragraph 2 – indent 4
Amendment 21

Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 1.2.3 – paragraph 2 – indent 5 a (new)

Text proposed by the Commission

- Areas of high-unmet clinical need such as rare cancers including paediatric cancers;

Amendment

Or. en

Amendment 22

Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 1.2.3 – paragraph 2 a (new)

Text proposed by the Commission

Priority will be given to those projects in the area of diseases were national activities or plans alone cannot achieve effectiveness.

Amendment

Or. en

Amendment 23

Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 1.2.4 – paragraph 1
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'.

The World Health Organisation has defined a list of neglected diseases that lack private sector R&I investments due to limited commercial incentives. More ambitious public investments are needed to address the burden of such poverty-related and neglected diseases.

Amendment 24
Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 1.2.4 – paragraph 2 – indent 3

Text proposed by the Commission
– Vaccines, diagnostics, treatments and cures for infectious diseases, including co-morbidities and co-infections;

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

Amendment 25
Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 1.2.4 – paragraph 2 – indent 6

Text proposed by the Commission
– Trans-border aspects of infectious diseases and specific challenges in low-

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

Amendment 26

Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 1.2.5

Text proposed by the Commission

1.2.5. Tools, Technologies and Digital Solutions for Health and Care

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 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.

Broad Lines

- Tools and technologies for applications across the health spectrum and any relevant medical indication, including functional impairment;
- Integrated tools, technologies and digital solutions for human health, including mobile and telehealth;
– **Piloting, large-scale deployment, optimisation, and innovation procurement of health and care technologies and tools in real-life settings including clinical trials and implementation research;**

– **Innovative processes and services for the development, manufacturing and rapid delivery of tools and technologies for health and care;**

– **The safety, efficacy and quality of tools and technologies for health and care as well as their ethical legal and social impact;**

– **Regulatory science for health technologies and tools.**

Or. en

**Amendment 27**

**Proposal for a decision**  
**Annex I – part II – point 1 – point 1.2 – point 1.2.6 – paragraph 1**

<table>
<thead>
<tr>
<th>Text proposed by the Commission</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Health systems are a key asset of the EU social systems, accounting for 24 million employees in the health and social work sector in 2017. It is a main priority to render health systems accessible, cost-effective, resilient, sustainable and trusted as well as to reduce inequalities, including by unleashing the potential of data-driven and digital innovation for better health and person-centred care building on open European data infrastructures. This will advance the digital transformation of health and care.</td>
<td>Health systems are a key asset of the EU social systems, accounting for 24 million employees in the health and social work sector in 2017. It is a main priority to render health systems accessible, cost-effective, resilient, sustainable, <strong>safe</strong> and trusted as well as to reduce inequalities, including by unleashing the potential of data-driven and digital innovation for better health and person-centred care building on open European data infrastructures. This will advance the digital transformation of health and care.</td>
</tr>
</tbody>
</table>

Or. en

**EN**
Amendment 28

Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 1.2.6 – paragraph 2 – indent 3

Text proposed by the Commission

– Improving health technology assessment;

Amendment

– Improving and facilitating health technology assessment, and supporting more efficient allocation of healthcare budgets based on health outcomes;

Or. en

Amendment 29

Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 1.2.6 – paragraph 2 – indent 5 a (new)

Text proposed by the Commission

- Specialized training of healthcare professionals, training and developing technical know-how and new ways of working meeting innovation in e-health and healthcare;

Amendment

Or. en

Amendment 30

Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 1.2.6 – paragraph 2 – indent 6

Text proposed by the Commission

– Improving timely health information and use of health data, including electronic health records, with due attention to security, privacy, interoperability, standards, comparability and integrity;

Amendment

– Improving timeliness and quality of health information, as well as the infrastructure for the effective collection and use of health data, including electronic health records, with due attention to security, privacy, interoperability, standards, comparability and integrity;

Or. en
Amendment 31

Proposal for a decision
Annex I – part II – point 1 – point 1.2 – point 1.2.6 – paragraph 2 – indent 8

Text proposed by the Commission
– Solutions for citizen and patient empowerment, self-monitoring, and interaction with health and social care professionals, for more integrated care and a user-centred approach;

Amendment
– Solutions for citizen and patient empowerment, including by enhancing the measurement of patient-reported outcomes, self-monitoring, and interaction with health and social care professionals, for more integrated care and a user-centred approach;

Or. en

Amendment 32

Proposal for a decision
Annex I – part II – point 2 – point 2.2 – point 2.2.4 – paragraph 2 – indent 3 a (new)

Text proposed by the Commission
- The capacity to respond to outbreaks of infectious diseases resulting from disasters

Amendment

Or. en

Amendment 33

Proposal for a decision
Annex I – part II – point 2 – point 2.2 – point 2.2.5 – paragraph 2 – indent 6 a (new)

Text proposed by the Commission
- Innovative approaches for the security of use of health data/real-world data (including patient registries and electronic medical records with due attention to security, privacy, interoperability, standards, comparability
Manufacturing is a key driver of employment and prosperity in the EU, producing over three quarters of the EU’s global exports and providing over a 100 million direct and indirect jobs. The key challenge for EU manufacturing is to remain competitive at a global level with smarter and more customised products of high added value, produced at much lower energy costs and a reduced carbon footprint. Creative and cultural inputs will be vital to help generate added value.

Amendment 35
Proposal for a decision
Annex I – part II – point 3 – point 3.2 – point 3.2.4 a (new)

Text proposed by the Commission

3.2.4 a. Tools, Technologies and Digital Solutions for Health and Care

Health technologies and tools are vital for public health and have contributed to a large extent to the important improvements achieved in the quality of life, health and care of people in the Union. 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. Those 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 Union, accounting for 3% of GDP and 1.5 million employees.

Broad Lines

– Tools and technologies for applications across the health spectrum and any relevant medical indication, including functional impairment;
– Piloting tools and technologies for patient health registries;
– Integrated tools, technologies and digital solutions for human health, including mobile and e-health;
– Piloting, large-scale deployment, optimisation, and innovation procurement of health and care technologies and tools in real-life settings including clinical trials and implementation research;
– Innovative processes and services for the development, manufacturing and rapid delivery of tools and technologies for health and care;
– The safety, efficacy and quality of tools and technologies for health and care as well as their ethical legal and social impact, including digital solutions to enhance the collection of real world evidence;
– Regulatory science for health technologies and tools.

Or. en
Amendment 36

Proposal for a decision
Annex I – part II – point 3 – point 3.2 – point 3.2.6 – paragraph 2 – indent 3 a (new)

<table>
<thead>
<tr>
<th>Text proposed by the Commission</th>
<th>Amendment</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Piloting blockchain technologies in specific sectors</td>
<td>Or. en</td>
</tr>
</tbody>
</table>

Amendment 37

Proposal for a decision
Annex I – part II – point 3 – point 3.2 – point 3.2.7 – paragraph 4 – indent 1

<table>
<thead>
<tr>
<th>Text proposed by the Commission</th>
<th>Amendment</th>
</tr>
</thead>
<tbody>
<tr>
<td>– Industrial symbiosis with resource flows between plants across sectors and urban communities; processes and materials, to transport, transform, re-use and store resources, combining the valorisation of by-products, waste and CO2;</td>
<td>– Industrial symbiosis with resource flows between plants across sectors and urban communities; processes and materials, to transport, transform, re-use and store resources, combining the valorisation of by-products, waste and CO2, when it is environmentally safe and offers substantial climate benefits;</td>
</tr>
<tr>
<td>Or. en</td>
<td></td>
</tr>
</tbody>
</table>

Amendment 38

Proposal for a decision
Annex I – part II – point 3 – point 3.2 – point 3.2.8 – paragraph 3 – indent 2

<table>
<thead>
<tr>
<th>Text proposed by the Commission</th>
<th>Amendment</th>
</tr>
</thead>
<tbody>
<tr>
<td>– Industrial CO2 valorisation;</td>
<td>– <strong>Efficient</strong> industrial processes to capture CO2, including CO2 valorisation when it is proved environmentally safe and offers substantial climate benefits;</td>
</tr>
<tr>
<td>Or. en</td>
<td></td>
</tr>
</tbody>
</table>
Amendment 39
Proposal for a decision
Annex I – part II – point 3 – point 3.2 – point 3.2.8 – paragraph 3 – indent 3

Text proposed by the Commission

– Electrification and use of unconventional energy sources within industrial plants, and energy and resource exchanges between industrial plants (for instance via industrial symbiosis);

Amendment

– Electrification and use of clean energy sources within industrial plants, and energy and resource exchanges between industrial plants (for instance via industrial symbiosis);

Or. en

Amendment 40
Proposal for a decision
Annex I – part II – point 4 – point 4.2 – point 4.2.3 – paragraph 2 – indent 4 a (new)

Text proposed by the Commission

– Clean solutions that can deliver on system reliability, complementing and going beyond renewables and electrification-based storage

Amendment

Or. en

Amendment 41
Proposal for a decision
Annex I – part II – point 4 – point 4.2 – point 4.2.4 – paragraph 4 – indent 5

Text proposed by the Commission

– Buildings life-cycle design, construction, operation and dismantling, taking into account circularity and environmental performance, for energy and resource efficiency, climate resilience, and recycling;

Amendment

– Low carbon buildings design, material use, construction, operation and dismantling, taking into account circularity and environmental performance, for energy and resource efficiency, climate resilience, and recycling;

Or. en
Amendment 42
Proposal for a decision
Annex I – part II – point 4 – point 4.2 – point 4.2.7 – paragraph 2 – indent 1

Text proposed by the Commission

– Electrification of all transport modes (e.g. batteries, fuel cells, hybridisation, etc.) including new technologies for vehicle/vessel/aircraft powertrains, fast charging/refuelling, energy harvesting and user-friendly and accessible interfaces with the charging infrastructure, ensuring interoperability and seamless services provision; development and deployment of competitive, safe, high-performing and sustainable batteries for low and zero-emission vehicles;

Amendment

– Electrification of all transport modes (e.g. batteries, fuel cells, hybridisation, etc.) including new technologies for vehicle/vessel/aircraft powertrains, fast charging/refuelling, energy harvesting and user-friendly and accessible interfaces with the fuelling and charging infrastructure, ensuring interoperability and seamless services provision; development and deployment of competitive, safe, high-performing and sustainable batteries for low and zero-emission vehicles;

Or. en

Amendment 43
Proposal for a decision
Annex I – part II – point 4 – point 4.2 – point 4.2.9 – paragraph 2 – indent 1

Text proposed by the Commission

– Technologies including liquid and gaseous renewable fuels and their associated value chains, for daily to seasonal energy storage needs;

Amendment

– Technologies including liquid and gaseous low carbon or renewable fuels and their associated value chains, for daily to seasonal energy storage needs;

Or. en

Amendment 44
Proposal for a decision
Annex I – part II – point 4 – point 4.2 – point 4.2.9 – paragraph 2 – indent 3
Text proposed by the Commission

- Low zero-carbon hydrogen including fuel cells, and the EU value chain from design to end use across various applications.

Amendment

- Clean hydrogen and fuel cells technology, and the EU value chain from design to end use across various applications.

Amendment 45

Proposal for a decision
Annex I – part II – point 5 – point 5.2 – point 5.2.2 – paragraph 2 – indent 3

Text proposed by the Commission

- Modelling of trends and integrated scenarios for biodiversity, ecosystem services and good quality of life at different scales and horizons; the potential contribution of biotopes and ecosystems as carbon sinks under various climate change scenarios;

Amendment

- Modelling of trends and integrated scenarios for biodiversity, ecosystem services and good quality of life at different scales and horizons; the potential contribution of biotopes and ecosystems as carbon sinks under various climate change scenarios; links between use of compounds and increased mortality rates for pollinators;

Amendment 46

Proposal for a decision
Annex I – part II – point 5 – point 5.2 – point 5.2.3 – paragraph 2 – indent 4

Text proposed by the Commission

- Plant pests and diseases and animal health and welfare; alternatives to the use of contentious pesticides, antibiotics and other substances;

Amendment

- Plant pests and diseases and animal health and welfare; alternatives to the use of contentious pesticides, antibiotics and other substances; research in low-risk pesticides that are non-chemical as a way to support low pesticide-input pest management;
Amendment 47

Proposal for a decision
Annex I – part II – point 5 – point 5.2 – point 5.2.3 – paragraph 2 – indent 8

Text proposed by the Commission

– Innovations in farming at the interfaces between agriculture, aquaculture and forestry and in urban areas;

Amendment

– Innovations in farming at the interfaces between agriculture, aquaculture and forestry and in urban areas; sustainability in animal feed in order to develop alternatives to oil palm products to be developed for Union agriculture;

Or. en

Amendment 48

Proposal for a decision
Annex I – part II – point 5 – point 5.2 – point 5.2.4 – paragraph 2 – indent 3

Text proposed by the Commission

– Ocean governance at global and regional levels to ensure conservation and sustainable use of the seas and oceans resources;

Amendment

– Ocean governance at global and regional levels to ensure conservation and sustainable use of the seas and oceans resources; the preservation of the Arctic ecosystem and international cooperation;

Or. en

Amendment 49

Proposal for a decision
Annex I – part II – point 5 – point 5.2 – point 5.2.5 – paragraph 2 – indent 6

Text proposed by the Commission

– Environmentally sustainable, circular and resource efficient food systems from land and sea, towards zero food waste throughout the entire food system, through reuse of food and biomass, recycling of food waste, new food packaging, demand

Amendment

– Environmentally sustainable, circular and resource efficient food systems from land and sea, towards zero food waste throughout the entire food system, through reuse of food and biomass, recycling of food waste, new food packaging, demand
for tailored and local food; management of co- and by-products of food production, food trade, food storage, shelf-life, digital technologies, and food contact materials relation between marketing standards and food waste

Or. en

Amendment 50
Proposal for a decision
Annex I – part II – point 6 – point 6.2 – point 6.2.2 – paragraph 2 – point 4 – indent 13

Text proposed by the Commission
- Analyses of alternative fuels and related infrastructure needs.

Amendment
- Analyses of low carbon and alternative fuels and related infrastructure needs.

Or. en

Amendment 51
Proposal for a decision
Annex I – part II – point 6 – point 6.2 – point 6.2.2 – paragraph 2 – point 4 – indent 13 a (new)

Text proposed by the Commission
- Analysis of how the Union could undergo rapid large-scale cost-efficient decarbonisation, using also the existing infrastructure;

Amendment

Or. en