



**2018/0224(COD)**

16.7.2018

## **DRAFT OPINION**

of the Committee on Culture and Education

for the Committee on Industry, Research and Energy

on the proposal for a regulation of the European Parliament and of the Council establishing Horizon Europe – the Framework Programme for Research and Innovation, laying down its rules for participation and dissemination (COM(2018)0435 – C8-0252/2018 – 2018/0224(COD))

Rapporteur for opinion: Luigi Morgano

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## SHORT JUSTIFICATION

Horizon Europe, the new programme for European research and innovation for 2021-2027 is certainly a crucial programme for Europe's future.

The aim of this new flagship programme is to improve quality of life for millions of European citizens by strengthening the EU's scientific and technological foundations and promoting and supporting research and innovation activities that are able to boost sustainable growth and industrial competitiveness.

Your rapporteur welcomes the three-pillar structure of the programme and, while recognising that the budget has been increased compared to the previous programme, Horizon 2020, takes the view that its overall budget is not ambitious enough to achieve the goals it has set itself and should thus be increased, particularly as regards the first pillar on 'Open Science' and, more specifically, for the Marie Skłodowska-Curie actions (MSCA) and research infrastructure. Indeed, the establishment of a true European Research Area, providing for better links between research, scientific excellence, innovation and universities in Europe, should be at the centre of Horizon Europe, across all pillars.

As regards the second pillar on 'Global Challenges and Industrial Competitiveness', your rapporteur welcomes the fact that, among the policy areas in the thematic cluster 'inclusive and secure society', the role of European tangible and intangible cultural heritage, which fosters a European sense of belonging, has been recognised. He takes the view, however, that the planned budget for this cluster, in view of the new intervention areas called for, should be at least doubled.

Indeed, in this cluster, greater emphasis should be placed on the strategic and motivating role played by culture and creativity, which bring people together across the board, helping to achieve an educated, creative and genuinely inclusive society.

Therefore, explicit reference should be made to the strategic potential of the cultural and creative industries (CCI), including in the context of digital innovation, in view of their specific dual nature: as an important driver of economic development and a tool for preserving and protecting European linguistic and cultural diversity.

It is thus vital to provide for measures to make these goods and services accessible to people with disabilities. Technological innovation, such as the Internet of Things, assistive technologies or augmented reality – whether they apply to a book or to an archaeological site – can in fact facilitate access to and enjoyment of culture and creativity, providing a tangible contribution to the social and cultural integration of these individuals.

In order to help analyse and identify solutions to the global challenges Europe is facing, such as that of migration, Horizon Europe should also support research in Social Sciences and Humanities (SSH) through basic and applied research.

Furthermore, your rapporteur welcomes the opportunity to exploit synergies between science, technology, culture and the arts in order to achieve quality sustainable innovation;

accordingly, in view of what has already been stated, the list of possible Union programmes with which Horizon Europe can interact should also include Creative Europe.

Unfortunately, the albeit noteworthy simplification effort made by the Commission does not justify – especially in a regulation that is directly applicable – a legal text that is so vague, particularly with regard to the procedure, the appeal criteria and how the synergies and complementarity between the various programmes will actually work in practice. For this reason, your rapporteur is of the opinion that, in keeping with its prerogatives, the role of Parliament should under no circumstances be bypassed, in particular when determining the multiannual strategic plan that will underpin the implementation of this fundamental programme for EU citizens.

## AMENDMENTS

The Committee on Culture and Education 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 regulation Recital 1

##### *Text proposed by the Commission*

(1) It is the Union's objective to strengthen its scientific and technological bases and encourage its competitiveness, including in its industry, while promoting all research and innovation activities to deliver on the Union's strategic priorities, which ultimately aim at promoting peace, the Union's values and the well-being of its *peoples*.

##### *Amendment*

(1) It is the Union's objective to strengthen its scientific and technological bases and encourage its competitiveness, including in its industry, while promoting all research and innovation activities to deliver on the Union's strategic priorities, which ultimately aim at promoting peace, the Union's values and the well-being of its *citizens, in particular the most disadvantaged ones*.

Or. en

### Amendment 2

#### Proposal for a regulation Recital 2

##### *Text proposed by the Commission*

(2) To deliver scientific, economic and societal impact in pursuit of this general objective, the Union should invest in

##### *Amendment*

(2) To deliver scientific, economic, *cultural* and societal impact in pursuit of this general objective, the Union should

research and innovation through Horizon Europe - a Framework Programme for Research and Innovation 2021-2027 (the ‘Programme’) to support the creation and diffusion of high-quality knowledge and technologies, to strengthen the impact of research and innovation in developing, supporting and implementing Union policies, to support the uptake of innovative solutions in industry and society to address global challenges and promote industrial competitiveness; to foster all forms of innovation, including breakthrough innovation, and strengthen market deployment of innovative solutions; and optimise the delivery of such investment for increased impact within a strengthened European Research Area.

invest in research and innovation through Horizon Europe - a Framework Programme for Research and Innovation 2021-2027 (the ‘Programme’) to support the creation and diffusion of high-quality knowledge and technologies, to strengthen the impact of research and innovation in developing, supporting and implementing Union policies, to support the uptake of innovative solutions in industry *whilst achieving the goal of establishing a more inclusive, educated, creative and secure* and society, to address global challenges and promote industrial competitiveness; to foster all forms of innovation, including breakthrough innovation, and strengthen market deployment of innovative solutions; and optimise the delivery of such investment for increased impact within a strengthened European Research Area.

Or. en

### **Amendment 3**

#### **Proposal for a regulation Recital 8 a (new)**

*Text proposed by the Commission*

*Amendment*

*(8a) European Universities play a fundamental role within the fields of the humanities, sciences and technologies by fulfilling and promoting excellence, in both training and research.*

Or. en

### **Amendment 4**

#### **Proposal for a regulation Recital 12**

*Text proposed by the Commission*

(12) It is important to support industry to stay or become world leader in innovation, digitisation and decarbonisation, notably through investments in key enabling technologies that will underpin tomorrow's business. The 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. This will ensure consistency between the actions of the programme and EU State aid rules, avoiding undue distortions of competition in the internal market.

*Amendment*

(12) It is important to support industry to stay or become world leader in innovation, digitisation and decarbonisation, notably through investments in key enabling technologies that will underpin tomorrow's business ***as well as the well-being of Union citizens.*** The 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. This will ensure consistency between the actions of the programme and EU State aid rules, avoiding undue distortions of competition in the internal market.

Or. en

## **Amendment 5**

### **Proposal for a regulation**

#### **Recital 15**

*Text proposed by the Commission*

(15) The Programme should seek synergies with other Union programmes, from their design and strategic planning, to project selection, management, communication, dissemination and exploitation of results, to monitoring, auditing and governance. ***With a view to avoiding overlaps and duplication and increasing the leverage of Union funding, transfers from other Union programmes to Horizon Europe activities can take place. In such cases they will follow Horizon Europe rules.***

*Amendment*

(15) The Programme should seek synergies with other Union programmes, from their design and strategic planning, to project selection, management, communication, dissemination and exploitation of results, to monitoring, auditing and governance.

Or. en

## Amendment 6

### Proposal for a regulation Recital 16 a (new)

*Text proposed by the Commission*

*Amendment*

***(16a) Horizon Europe should support new technologies such as assistive technologies applied to cultural and creative goods and services, which contribute to overcoming obstacles which prevent the access and the full participation of persons with disabilities in culture, education and in all cultural ecosystems and which consequently restrain the development of a truly inclusive, educated, creative and secure society.***

Or. en

## Amendment 7

### Proposal for a regulation Recital 23 a (new)

*Text proposed by the Commission*

*Amendment*

***(23a) Europe is the cradle of humanistic tradition. Horizon Europe should therefore support research in the field of social sciences and human disciplines (SSH), providing at least one intervention area in all clusters of the second pillar, especially for those that produce knowledge through basic and applied research and that contribute to the development of new fields of interdisciplinary research thanks to new material evidence or new methodologies. Such focus will help to create new jobs, to contribute to a deeper analysis and better understanding of the migration phenomenon, the challenges it entails as well as to reinforce the preservation of the tangible and intangible cultural heritage,***

*in accordance with the objective of creating inclusive, educated, creative and secure societies.*

Or. en

## **Amendment 8**

### **Proposal for a regulation**

#### **Article 1 – paragraph 1 a (new)**

*Text proposed by the Commission*

*Amendment*

*1a. The Programme shall be implemented for the period from 1 January 2021 to 31 December 2027.*

Or. en

## **Amendment 9**

### **Proposal for a regulation**

#### **Article 2 – paragraph 1 – introductory part**

*Text proposed by the Commission*

*Amendment*

For the purposes of this Regulation, the following definitions apply:

For the purposes of this Regulation, the following definitions *shall* apply:

Or. en

## **Amendment 10**

### **Proposal for a regulation**

#### **Article 3 – paragraph 1**

*Text proposed by the Commission*

*Amendment*

1. The *Programme's* general objective *is* to deliver scientific, economic and societal impact from the Union's investments in research and innovation so as to strengthen the scientific and

1. The general objective *of the Programme shall be* to deliver scientific, economic, *cultural* and societal impact from the Union's investments in research and innovation so as to strengthen the

technological bases of the Union and foster its competitiveness, including in its industry, deliver on the Union strategic priorities, and contribute to tackling global challenges, including the Sustainable Development Goals.

scientific and technological bases of the Union and foster its competitiveness, including in its industry, deliver on the Union strategic priorities, and contribute to tackling global challenges, including the Sustainable Development Goals.

Or. en

## Amendment 11

### Proposal for a regulation

#### Article 3 – paragraph 2 – introductory part

*Text proposed by the Commission*

2. The **Programme has the following** specific objectives:

*Amendment*

2. The specific objectives **of the Programme shall be** :

Or. en

## Amendment 12

### Proposal for a regulation

#### Article 4 – paragraph 1 – introductory part

*Text proposed by the Commission*

1. The Programme **is structured in the following parts contributing** to the general and specific objectives set out in **in** Article 3:

*Amendment*

1. The Programme **shall contribute** to the general and specific objectives set out in Article 3 **and shall consist of the following**:

Or. en

## Amendment 13

### Proposal for a regulation

#### Article 4 – paragraph 1 – point 2 – point b

*Text proposed by the Commission*

(b) cluster 'Inclusive and Secure

*Amendment*

(b) cluster 'Inclusive, **Educated**,

Society';

*Creative* and Secure Society';

Or. en

#### **Amendment 14**

##### **Proposal for a regulation**

##### **Article 7 – paragraph 3 – point f a (new)**

*Text proposed by the Commission*

*Amendment*

***(fa) promote where relevant territorial innovation ecosystems in order to ensure positive effects on the territories and citizens of the Union.***

Or. en

#### **Amendment 15**

##### **Proposal for a regulation**

##### **Article 9 – paragraph 1**

*Text proposed by the Commission*

*Amendment*

1. The financial envelope for the implementation of the Framework Programme for the period 2021 – 2027 shall be EUR **94 100 000 000** in current prices for the specific programme referred to in Article 1(3)(a) and, in addition, the amount for the specific programme referred to in Article 1(3)(b), as laid down in Regulation... establishing the European Defence Fund.

1. The financial envelope for the implementation of the Framework Programme for the period 2021 – 2027 shall be **EUR 120 000 000 000** in current prices for the specific programme referred to in Article 1(3)(a) and, in addition, the amount for the specific programme referred to in Article 1(3)(b), as laid down in Regulation... establishing the European Defence Fund.

Or. en

#### **Amendment 16**

##### **Proposal for a regulation**

##### **Article 9 – paragraph 2 – point b – point 2**

*Text proposed by the Commission*

(2) EUR 2 800 000 000 for cluster 'Inclusive and Secure Society';

*Amendment*

(2) EUR 5 600 000 000 for cluster 'Inclusive, **Educated, Creative** and Secure Society';

Or. en

**Amendment 17**

**Proposal for a regulation**

**Article 35 – paragraph 1 – subparagraph 1**

*Text proposed by the Commission*

Beneficiaries having received Union funding shall ***use their best efforts to*** exploit their results, ***in particular*** in the Union. Exploitation may be done directly by the beneficiaries or indirectly in particular through the transfer and licensing of results in accordance with Article 36.

*Amendment*

Beneficiaries having received Union funding shall exploit their results, ***substantially*** in the Union. ***Such*** exploitation may be done directly by the beneficiaries or indirectly in particular through the transfer and licensing of results in accordance with Article 36.

Or. en

**Amendment 18**

**Proposal for a regulation**

**Article 35 – paragraph 6 – subparagraph 1**

*Text proposed by the Commission*

Unless the work programme provides otherwise, proposals shall include a plan for the exploitation and dissemination of the results. If the expected exploitation entails developing, creating, manufacturing and marketing a product or process, or in creating and providing a service, the plan shall include a strategy for such exploitation. If the plan provides for exploitation primarily in non-associated third countries, the legal entities shall

*Amendment*

Unless the work programme provides otherwise, proposals shall include a plan for the exploitation and dissemination of the results. If the expected exploitation entails developing, creating, manufacturing and marketing a product or process, or in creating and providing a service, the plan shall include a strategy for such exploitation. If the plan provides for exploitation primarily in non-associated third countries, the legal entities shall

*explain* how that exploitation is still in the Union interest.

*justify* how that exploitation is still in the Union interest.

Or. en

## Amendment 19

### Proposal for a regulation Article 45 – paragraph 2

*Text proposed by the Commission*

2. The Commission *is* empowered to adopt delegated acts in accordance with Article 50 concerning amendments to Annex V to supplement or amend the impact pathway indicators, *where considered necessary, and set baselines and targets.*

*Amendment*

2. The Commission *shall be* empowered to adopt delegated acts in accordance with Article 50 concerning amendments to Annex V to supplement or amend the impact pathway indicators.

Or. en

## Amendment 20

### Proposal for a regulation Article 45 – paragraph 3

*Text proposed by the Commission*

3. The performance reporting system shall ensure that data for monitoring programme implementation and results are collected efficiently, effectively and in a timely manner. To that end, proportionate reporting requirements shall be imposed on recipients of Union funds and (*where relevant*) Member States.

*Amendment*

3. The performance reporting system shall ensure that data for monitoring programme implementation and results are collected efficiently, effectively and in a timely manner. To that end, proportionate reporting requirements shall be imposed on recipients of Union funds and *on the* Member States *concerned.*

Or. en

## Amendment 21

### Proposal for a regulation Article 47 – paragraph 1

*Text proposed by the Commission*

1. Programme *evaluations* shall *be carried out in a timely manner to feed into the decision-making process on the programme, its successor and other initiatives relevant to research and innovation.*

*Amendment*

1. *The Commission shall ensure regular monitoring and external evaluation of the Programme. It shall monitor the Programme performance annually, tracking performance indicators in accordance with Article 45, paragraph 1.*

Or. en

## Amendment 22

### Proposal for a regulation Article 47 – paragraph 1 a (new)

*Text proposed by the Commission*

*1a. In addition to regularly monitoring the Programme, the Commission shall establish an interim evaluation report, based on an external and independent evaluation, which builds on the coordinated evaluations of each programme part, type of actions and delivery mechanism according to common evaluation criteria and standard methodologies.*

Or. en

## Amendment 23

### Proposal for a regulation Article 47 – paragraph 2

*Text proposed by the Commission*

2. The interim evaluation *of the Programme shall be carried out once*

*Amendment*

2. *The Commission shall submit the interim evaluation report referred to in*

*there is sufficient information available about the implementation of the Programme, but no later than four years after the start of the programme implementation. It shall include an assessment of the long-term impact of previous Framework Programmes and shall form the basis to adjust programme implementation, as appropriate.*

*paragraph 1a to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions no later than 31 December 2024. It shall include an assessment of the long-term impact of previous Framework Programmes.*

Or. en

## Amendment 24

### Proposal for a regulation Article 47 – paragraph 3

*Text proposed by the Commission*

3. *At the end of the implementation of the Programme, but no later than four years after the end of the period specified in Article 1, a final evaluation of the Programme shall be completed by the Commission.* It shall include an assessment of the long-term impact of previous Framework Programmes.

*Amendment*

3. *On the basis of a final external and independent evaluation, the Commission shall establish a final evaluation report of the Programme, which assesses its longer-term impacts and its sustainability.* It shall *also* include an assessment of the long-term impact of previous Framework Programmes.

Or. en

## Amendment 25

### Proposal for a regulation Article 47 – paragraph 4

*Text proposed by the Commission*

4. The Commission shall *communicate the conclusions of the evaluations accompanied by its observations*, to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions.

*Amendment*

4. The Commission shall *submit the final evaluation report referred to in paragraph 3* to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions *no later than 31 December 2030.*

**Amendment 26****Proposal for a regulation  
Annex I – point 2 – paragraph 3***Text proposed by the Commission*

Each cluster contributes towards several SDGs; and many SDGs are supported by more than one cluster.

*Amendment*

Each cluster contributes towards several SDGs; and many ***SDGs are*** supported by more than one cluster. ***Each cluster shall include an intervention area which is specifically devoted to the contribution of social science and humanities studies to that cluster.***

Or. en

**Amendment 27****Proposal for a regulation  
Annex I – point 2 – paragraph 4 – point b – introductory part***Text proposed by the Commission*

(b) Cluster 'Inclusive and secure society': Strengthening European democratic values, including rule of law and fundamental rights, safeguarding our cultural heritage, ***and*** promoting socio-economic transformations that contribute ***to inclusion*** and growth, while responding to the challenges arising from persistent security threats, including cybercrime, as well as natural and man-made disasters.

*Amendment*

(b) Cluster 'Inclusive ***Educated, Creative*** and Secure Society': Strengthening European democratic values, including rule of law ***and fundamental*** rights, safeguarding our cultural heritage, ***supporting in particular research and innovation activities for the development of ICT technologies for the preservation and digitisation of tangible and intangible cultural heritage as well*** promoting socio-economic transformations that contribute ***to inclusion*** and growth, while responding to the challenges arising ***from persistent*** security threats, including cybercrime, as well as natural ***and man-made*** disasters.

Or. en

## Amendment 28

### Proposal for a regulation

#### Annex I – point 2 – paragraph 4 – point b – paragraph 1

##### *Text proposed by the Commission*

Areas of intervention: Democracy; Cultural heritage; Social and economic transformations; Disaster-resilient societies; Protection and Security; Cybersecurity

##### *Amendment*

Areas of intervention: Democracy; Cultural heritage; Social and economic transformations; ***Cultural and creative industries; Accessibility for persons with disabilities to all products and services (including education, cultural goods and services, tangible and intangible cultural heritage)***; Disaster-resilient societies; Protection and Security; Cybersecurity

Or. en

## Amendment 29

### Proposal for a regulation

#### Annex I – point 2 – paragraph 4 – point c – introductory part

##### *Text proposed by the Commission*

(c) Cluster 'Digital and Industry': Reinforcing capacities and securing Europe's sovereignty in key enabling technologies for digitisation and production, and in space technology, to build a competitive, digital, low-carbon and circular industry; ensure a sustainable supply of raw materials; and provide the basis for advances and innovation in all global societal challenges.

##### *Amendment*

(c) Cluster 'Digital and Industry': Reinforcing capacities and securing Europe's sovereignty in key enabling technologies for digitisation and production, and in space technology, to build a competitive, digital, low-carbon and circular industry; ensure a sustainable supply of raw materials; ***supporting research activities that are closely linked to the cultural and creative industries***; and provide the basis for advances and innovation in all global societal challenges.

Or. en

## Amendment 30

### Proposal for a regulation

#### Annex I – point 2 – paragraph 4 – point c – paragraph 1

*Text proposed by the Commission*

*Amendment*

Areas of intervention: Manufacturing technologies; Digital technologies; Advanced materials; Artificial intelligence and robotics; Next generation internet; High performance computing and Big Data; Circular industries; Low carbon and clean industry; Space

Areas of intervention: Manufacturing technologies; Digital technologies; ***Cultural and Creative industries - e.g. Augmented reality/Virtual reality, immersive environments, human computer interfaces, new (social) media***; Advanced materials; Artificial intelligence and robotics; Next generation internet; High performance computing and Big Data; Circular industries; Low carbon and clean industry; Space

Or. en

**Amendment 31**

**Proposal for a regulation**

**Annex I – point 2 – paragraph 4 – point d – introductory part**

*Text proposed by the Commission*

*Amendment*

(d) Cluster 'Climate, Energy and Mobility': Fighting climate change by better understanding its causes, evolution, risks, impacts and opportunities, and by making the energy and transport sectors more climate and environment-friendly, more efficient and competitive, smarter, safer and more resilient.

(d) Cluster 'Climate, Energy and Mobility': Fighting climate change by better understanding its causes, evolution, risks, impacts and opportunities, and by making the energy and transport sectors more climate and environment-friendly, more efficient and competitive, smarter, safer and more resilient; ***enabling sustainable cultural heritage: researching into strategies and tools necessary for its safeguard whilst providing a better response to a changing environment and more frequent extreme climatic events.***

Or. en

**Amendment 32**

**Proposal for a regulation**

**Annex I – point 2 – paragraph 4 – point d – paragraph 1**

*Text proposed by the Commission*

Areas of intervention: Climate science and solutions; Energy supply; Energy systems and grids; Buildings and industrial facilities in energy transition; Communities and cities; Industrial competitiveness in transport; Clean transport and mobility; Smart mobility; Energy storage.

*Amendment*

Areas of intervention: Climate science and solutions; Energy supply; Energy systems and grids; Buildings and industrial facilities in energy transition; Communities and cities; Industrial competitiveness in transport; Clean transport and mobility; Smart mobility; Energy storage; **Cultural heritage**.

Or. en

**Amendment 33**

**Proposal for a regulation  
Annex IV – point 6 a (new)**

*Text proposed by the Commission*

*Amendment*

**6a. Synergies with the Creative Europe Programme will ensure that:**

**(a) whereas Creative Europe supports innovation in specific thematic sectors which fall within the scope of the Programme such as cultural heritage and cultural and creative industries, the type of actions to be supported, their expected outputs and their intervention logic are different and complementary;**

**(b) efforts will be strengthened in order to achieve crossovers between the cultural and creative sectors, in particular the arts, and innovation in industry and society via the S+T+ARTS programme;**

**(c) the combined resources of both programmes are used to support activities dedicated to strengthening and modernising cultural and creative industries.**

Or. en