



**2018/0227(COD)**

9.10.2018

# **AMENDMENTS**

## **1 - 54**

**Draft report**

**Adina-Ioana Vălean**

Establishing the Digital Europe programme for the period 2021-2027

Proposal for a regulation

(COM(2018)0434 – C8-0256/2018 – 2018/0227(COD))



## Amendment 1

Joëlle Mélin, Sylvie Goddyn, Jean-François Jalkh

### Proposal for a regulation

#### Recital 4

*Text proposed by the Commission*

(4) Pursuant to [reference to be updated as appropriate according to a new decision on OCTs: Article 88 of Council Decision / /EU<sup>53</sup>], persons and entities established in overseas countries and territories (OCTs) should be eligible for funding subject to the rules and objectives of the Programme and possible arrangements applicable to the Member State to which the relevant overseas country or territory is linked.

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<sup>53</sup> Council Decision / /EU.

*Amendment*

(4) Pursuant to [reference to be updated as appropriate according to a new decision on OCTs: Article 88 of Council Decision .../.../EU<sup>53</sup>], persons and entities established in overseas countries and territories (OCTs) **and the outermost regions (OR)** should be eligible for funding subject to the rules and objectives of the Programme and possible arrangements applicable to the Member State to which the relevant overseas country or territory is linked.

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<sup>53</sup> Council Decision / /EU.

Or. fr

## Amendment 2

Luke Ming Flanagan

### Proposal for a regulation

#### Recital 7

*Text proposed by the Commission*

(7) The European Council concluded in particular that the Union should urgently address emerging trends: this includes issues such as artificial intelligence and distributed ledgers technologies (e.g. blockchain), while at the same time ensuring a high level of data protection, digital rights and ethical standards. The European Council invited the Commission to put forward a European approach to artificial intelligence by early 2018 and called on the Commission to put forward

*Amendment*

(7) The European Council concluded in particular that the Union should urgently address emerging trends: this includes issues such as artificial intelligence and distributed ledgers technologies (e.g. blockchain), while at the same time ensuring a high level of data protection, digital rights **and labour** and ethical standards. The European Council invited the Commission to put forward a European approach to artificial intelligence by early 2018 and called on the Commission to put

the necessary initiatives for strengthening the framework conditions with a view to enable the EU to explore new markets through risk-based radical innovations and to reaffirm the leading role of its industry.

forward the necessary initiatives for strengthening the framework conditions with a view to enable the EU to explore new markets through risk-based radical innovations and to reaffirm the leading role of its industry.

Or. en

### **Amendment 3**

**Joëlle Mélin, Sylvie Goddyn, Jean-François Jalkh**

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

##### **Recital 7 a (new)**

*Text proposed by the Commission*

*Amendment*

**(7a) The European Union is lagging enormously behind the United States, Canada and China, those countries being almost 20 years ahead in relation to all the pillars identified at the Tallinn Digital Summit.**

Or. fr

### **Amendment 4**

**Joëlle Mélin, Sylvie Goddyn, Jean-François Jalkh**

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

##### **Recital 9**

*Text proposed by the Commission*

*Amendment*

**(9) The Communication “Towards a common European data space”<sup>58</sup>, addresses the new measure to be taken as a key step towards a common data space in the EU - a seamless digital area with a scale that will enable the development of new products and services based on data.**

**deleted**

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<sup>58</sup> COM (2018) 125 final

**Amendment 5**  
**Stefan Eck**

**Proposal for a regulation**  
**Recital 10**

*Text proposed by the Commission*

(10) The general objective of the Programme should be to support the digital transformation of industry and to foster better exploitation of the industrial potential of policies of innovation, research and technological development, for the benefit of businesses and citizens all over the Union. The programme should be structured into five Specific Objectives reflecting key policy areas, namely: high-performance computing, cybersecurity, artificial intelligence, advanced digital skills, and deployment, best use of digital capacities **and** interoperability. For all these areas, the Programme should also aim at better aligning Union, Member States and regional policies, and pooling of private and industrial resources in order to increase investment and develop stronger synergies.

*Amendment*

(10) The general objective of the Programme should be to support the digital transformation of industry **and of *European societies*** and to foster better exploitation of the industrial potential of policies of innovation, research and technological development, for the benefit of businesses, ***regions, local communities*** and citizens all over the Union. The programme should be structured into five Specific Objectives reflecting key policy areas, namely: high-performance computing, cybersecurity, artificial intelligence, advanced digital skills, and deployment, best use of digital capacities, interoperability **and closing the digital gap between regions and between urban and rural communities**. For all these areas, the Programme should also aim at better aligning Union, Member States and regional policies, and pooling of private and industrial resources in order to increase investment and develop stronger synergies.

Or. en

**Amendment 6**  
**Luke Ming Flanagan**

**Proposal for a regulation**  
**Recital 10**

*Text proposed by the Commission*

(10) The general objective of the

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*Amendment*

(10) The general objective of the

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Programme should be to support the digital transformation of industry and to foster better exploitation of the industrial potential of policies of innovation, research and technological development, for the benefit of businesses and *citizens* all over the Union. The programme should be structured into five Specific Objectives reflecting key policy areas, namely: high-performance computing, cybersecurity, artificial intelligence, advanced digital skills, and deployment, best use of digital capacities and interoperability. For all these areas, the Programme should also aim at better aligning Union, Member States and regional policies, and pooling of private and industrial resources in order to increase investment and develop stronger synergies.

Programme should be to support the digital transformation of industry and to foster better exploitation of the industrial potential of policies of innovation, research and technological development, for the benefit of *citizens (in the first instance) and businesses and their employees (in the second instance)* all over the Union. The programme should be structured into five Specific Objectives reflecting key policy areas, namely: high-performance computing, cybersecurity, artificial intelligence, advanced digital skills, and deployment, best use of digital capacities and interoperability. For all these areas, the Programme should also aim at better aligning Union, Member States and regional policies, and pooling of private and industrial resources in order to increase investment and develop stronger synergies.

Or. en

## **Amendment 7** **Stefan Eck**

### **Proposal for a regulation** **Recital 11**

#### *Text proposed by the Commission*

(11) A central role in the implementation of the Programme should be attributed to Digital Innovation Hubs, which should stimulate the broad adoption of advanced digital technologies by industry, by public organisations and academia. A network of Digital Innovation Hubs should ensure the widest geographical coverage across Europe<sup>59</sup>. A first set of Digital Innovation Hubs will be selected based on Member States' proposals and then the network will be enlarged through an open and competitive process. The Digital Innovation Hubs will serve as access points to latest digital

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capacities including high performance computing (HPC), artificial intelligence, cybersecurity, as well as other existing innovative technologies such as Key Enabling Technologies, available also in fablabs or citylabs. They shall act as single-entry points in accessing tested and validated technologies and promote open innovation. They will also provide support in the area of advanced digital skills. The network of Digital Innovation Hubs should also contribute to the participation of the outermost regions in the Digital Single Market.

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<sup>59</sup> As indicated in the Communication on Digitising European Industry (COM(2016) 180 final)

to latest digital capacities including high performance computing (HPC), artificial intelligence, cybersecurity, as well as other existing innovative technologies such as Key Enabling Technologies, available also in fablabs or citylabs. They shall act as single-entry points in accessing tested and validated technologies and promote open innovation. They will also provide support in the area of advanced digital skills. The network of Digital Innovation Hubs should also contribute to the participation of the outermost regions in the Digital Single Market.

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<sup>59</sup> As indicated in the Communication on Digitising European Industry (COM(2016) 180 final)

Or. en

## **Amendment 8** **Margrete Auken**

### **Proposal for a regulation** **Recital 11**

#### *Text proposed by the Commission*

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<sup>59</sup> As indicated in the Communication on Digitising European Industry (COM(2016) 180 final)

Or. en

## **Amendment 9** **Aldo Patriciello**

### **Proposal for a regulation** **Recital 11**

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#### *Amendment*

(11) A central role in the implementation of the Programme should be attributed to Digital Innovation Hubs, which should stimulate the broad adoption of advanced digital technologies by industry, by public organisations and academia. A network of Digital Innovation Hubs should ensure the widest, **homogeneous** geographical coverage across Europe<sup>59</sup>. A first set of Digital Innovation Hubs will be selected based on Member States' proposals and then the network will be enlarged through an open and competitive process. The Digital Innovation Hubs will serve as access points to latest digital capacities including high performance computing (HPC), artificial



cybersecurity, as well as other existing innovative technologies such as Key Enabling Technologies, available also in fablabs or citylabs. They shall act as single-entry points in accessing tested and validated technologies and promote open innovation. They will also provide support in the area of advanced digital skills. The network of Digital Innovation Hubs should also contribute to the participation of the outermost regions in the Digital Single Market.

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intelligence, cybersecurity, as well as other existing innovative technologies such as Key Enabling Technologies, available also in fablabs or citylabs. They shall act as single-entry points in accessing tested and validated technologies and promote open innovation. They will also provide support in the area of advanced digital skills. The network of Digital Innovation Hubs should also contribute to the participation of the outermost regions in the Digital Single Market.

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<sup>59</sup> As indicated in the Communication on Digitising European Industry (COM(2016) 180 final)

Or. it

## **Amendment 10** **Stefan Eck**

### **Proposal for a regulation** **Recital 16**

#### *Text proposed by the Commission*

(16) The high performance computing and the related data processing capacities in the Union should allow to ensure wider use of high performance computing by **industry** and, more generally, in areas of public interest in order to seize unique opportunities that supercomputers bring to society as regards health, environment and security as well as competitiveness of industry, notably small and medium-sized enterprises.

#### *Amendment*

(16) The high performance computing and the related data processing capacities in the Union should allow to ensure wider use of high performance computing by **all beneficiaries of the programme** and, more generally, in areas of public interest in order to seize unique opportunities that supercomputers bring to society as regards **social inclusiveness**, health, environment and security as well as competitiveness of industry, notably small and medium-sized enterprises.

Or. en

## **Amendment 11**

**Margrete Auken**

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

*Text proposed by the Commission*

*Amendment*

**(16a) *The energy consumption of computer devices and data storage centres, which is expected to increase continuously over the next decades, should be based on renewable energy sources.***

Or. en

*Justification*

*The storage of data becomes an increasingly prominent problem with data centres estimated to have the fastest growing carbon footprint from across the whole ICT (Information and Communication Technology) sector. Research shows that global electricity usage ascribed to Communication Technology in the coming years are expected to grow, leading to a potential 14% share of global CO2 emissions by 2040 (already 2% today).*

*[https://www.researchgate.net/publication/320225452\\_Total\\_Consumer\\_Power\\_Consumption\\_Forecast](https://www.researchgate.net/publication/320225452_Total_Consumer_Power_Consumption_Forecast)*

**Amendment 12  
Nicola Caputo**

**Proposal for a regulation  
Recital 18**

*Text proposed by the Commission*

*Amendment*

(18) For the high performance computing specific objective a joint undertaking is deemed the most suited implementation mechanism, in particular to coordinate national and Union strategies and investments in high performance computing infrastructure and research and development, pool resources from public and private funds, and safeguard the economic and strategic interests of the Union<sup>63</sup>. Moreover, high performance computing competence centres in Member States will provide high performance

(18) For the high performance computing specific objective a joint undertaking is deemed the most suited implementation mechanism, in particular to coordinate national and Union strategies and investments in high performance computing infrastructure and research and development, pool resources from public and private funds, and safeguard the economic and strategic interests of the Union<sup>63</sup>. Moreover, high performance computing competence centres in Member States will provide high performance

computing services to industry, academia and public administrations.

computing services to industry, *including SMEs and start-ups*, academia and public administrations.

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<sup>63</sup> Impact Assessment accompanying the document "Proposal for a Council Regulation on establishing the EuroHPC Joint Undertaking" (<https://ec.europa.eu/digital-single-market/en/news/proposal-council-regulation-establishing-eurohpc-joint-undertaking-impact-assessment>)

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<sup>63</sup> Impact Assessment accompanying the document "Proposal for a Council Regulation on establishing the EuroHPC Joint Undertaking" (<https://ec.europa.eu/digital-single-market/en/news/proposal-council-regulation-establishing-eurohpc-joint-undertaking-impact-assessment>)

Or. it

### **Amendment 13** **Luke Ming Flanagan**

#### **Proposal for a regulation** **Recital 24**

*Text proposed by the Commission*

(24) Trust is a prerequisite for the Digital Single Market to function. Cybersecurity technologies such as digital identities, cryptography or intrusion detection, and their application in areas such as finance, industry 4.0, energy, transportation, healthcare, or e-government are essential to safeguard the security and trust of online activity and transactions by **both** citizens, public administrations, and companies.

*Amendment*

(24) Trust is a prerequisite for the Digital Single Market to function. Cybersecurity technologies such as digital identities, cryptography or intrusion detection, and their application in areas such as finance, industry 4.0, energy, transportation, healthcare, or e-government are essential to safeguard the security and trust of online activity and transactions by citizens, public administrations, and companies.

Or. en

*Justification*

*There are three elements, not two, thus the word 'both' does not apply.*

### **Amendment 14** **Joëlle Mélin, Sylvie Goddyn, Jean-François Jalkh**

**Proposal for a regulation**  
**Recital 25 a (new)**

*Text proposed by the Commission*

*Amendment*

**(25a) Highly skilled technical expert jobs in areas such as artificial intelligence, data analytics and cybersecurity go unfilled. There are currently more than 350 000 vacancies in these fields in the EU.**

Or. fr

**Amendment 15**  
**Margrete Auken**

**Proposal for a regulation**  
**Recital 28**

*Text proposed by the Commission*

*Amendment*

(28) The advanced digital technologies supported by this Programme, such as high performance computing, cybersecurity and artificial intelligence are now sufficiently mature to move beyond the research arena and be deployed, implemented and scaled-up at Union level. Just as the deployment of these technologies require a Union response so does the skills dimension. Training opportunities in advanced digital skills need to be scaled up, increased and made accessible throughout the EU. Failing this could impede the smooth deployment of advanced digital technologies and hamper the overall competitiveness of Union's economy. The actions supported by this programme are complementary to those supported by the ESF, ERDF and Horizon Europe programmes.

(28) The advanced digital technologies supported by this Programme, such as high performance computing, cybersecurity, **data protection** and artificial intelligence are now sufficiently mature to move beyond the research arena and be deployed, implemented and scaled-up at Union level. Just as the deployment of these technologies require a Union response so does the skills dimension. Training opportunities in advanced digital skills need to be scaled up, increased and made accessible throughout the EU. Failing this could impede the smooth deployment of advanced digital technologies and hamper the overall competitiveness of Union's economy. The actions supported by this programme are complementary to those supported by the ESF, ERDF and Horizon Europe programmes.

Or. en

**Amendment 16**  
**Luke Ming Flanagan**

**Proposal for a regulation**  
**Recital 29**

*Text proposed by the Commission*

(29) Modernising public administrations and services through digital means is crucial to reducing administrative burden on **industry and on** citizens in general by making their interactions with public authorities faster, more convenient and less costly, as well as by increasing the efficiency and the quality of the services provided to citizens and businesses. Since a number of services of public interest already have a Union dimension, the support to their implementation and deployment at Union level should ensure that citizens and businesses will benefit from the access to high quality digital services across Europe.

*Amendment*

(29) Modernising public administrations and services through digital means is crucial to reducing administrative burden on citizens in general **and on industry** by making their interactions with public authorities faster, more convenient and less costly, as well as by increasing the efficiency and the quality of the services provided to citizens and businesses. Since a number of services of public interest already have a Union dimension, the support to their implementation and deployment at Union level should ensure that citizens and businesses will benefit from the access to high quality digital services across Europe.

Or. en

**Amendment 17**  
**Margrete Auken**

**Proposal for a regulation**  
**Recital 30**

*Text proposed by the Commission*

(30) The digital transformation of the areas of public interest such as healthcare<sup>68</sup>, mobility, justice, earth/environmental monitoring, education and culture requires the continuation and expansion of Digital Service Infrastructures, which make secure cross-border exchange of data possible and foster national development. Their coordination under this Regulation best

*Amendment*

(30) The digital transformation of the areas of public interest such as healthcare<sup>68</sup>, mobility, justice, earth/environmental monitoring, **reduction of carbon emissions, energy infrastructure**, education and culture requires the continuation and expansion of Digital Service Infrastructures, which make secure cross-border exchange of data possible and

achieves the potential for exploiting synergies.

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[http://ec.europa.eu/newsroom/dae/document.cfm?doc\\_id=51628](http://ec.europa.eu/newsroom/dae/document.cfm?doc_id=51628)

foster national development. Their coordination under this Regulation best achieves the potential for exploiting synergies.

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[http://ec.europa.eu/newsroom/dae/document.cfm?doc\\_id=51628](http://ec.europa.eu/newsroom/dae/document.cfm?doc_id=51628)

Or. en

## **Amendment 18**

**Joëlle Mélin, Sylvie Goddyn, Jean-François Jalkh**

### **Proposal for a regulation**

#### **Recital 31 a (new)**

*Text proposed by the Commission*

*Amendment*

***(31a) As the EU has fallen so far behind, every effort will be made to ensure that each Member State can, for its part, draw up effective programmes.***

Or. fr

## **Amendment 19**

**Margrete Auken**

### **Proposal for a regulation**

#### **Recital 40**

*Text proposed by the Commission*

*Amendment*

(40) The General Data Protection Regulation (GDPR), applicable from May 2018 onwards, by providing for a single set of rules directly applicable in the Member States legal orders, will guarantee the free flow of personal data between EU Member States and reinforce trust and security of the individuals, two indispensable elements for a real Digital Single Market. The

(40) The General Data Protection Regulation (GDPR), applicable from May 2018 onwards, by providing for a single set of rules directly applicable in the Member States legal orders, will guarantee the free flow of personal data between EU Member States and reinforce trust and security of the individuals, two indispensable elements for a real Digital Single Market. The

actions undertaken under this Programme, when they involve the processing of personal data, should therefore support the application of the GDPR, *for instance in the field of artificial intelligence and blockchain technology.*

actions undertaken under this Programme, when they involve the processing of personal data, should therefore support the application of the GDPR *in all instances.*

Or. en

**Amendment 20**  
**Luke Ming Flanagan**

**Proposal for a regulation**  
**Recital 40**

*Text proposed by the Commission*

(40) The General Data Protection Regulation (GDPR), applicable from May 2018 onwards, by providing for a single set of rules directly applicable in the Member States legal orders, will guarantee the free flow of personal data between EU Member States and reinforce trust and security of the individuals, two indispensable elements for a real Digital Single Market. The actions undertaken under this Programme, when they involve the processing of personal data, should therefore support the application of the GDPR, for instance in the field of artificial intelligence and blockchain technology.

*Amendment*

(40) The General Data Protection Regulation (GDPR), applicable from May 2018 onwards, by providing for a single set of rules directly applicable in the Member States legal orders, will guarantee *within specified limits* the free flow of personal data between EU Member States and reinforce trust and security of the individuals, two indispensable elements for a real Digital Single Market. The actions undertaken under this Programme, when they involve the processing of personal data, should therefore support the application of the GDPR, for instance in the field of artificial intelligence and blockchain technology.

Or. en

**Amendment 21**  
**Margrete Auken**

**Proposal for a regulation**  
**Recital 43**

*Text proposed by the Commission*

*Amendment*

(43) 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 Programme will contribute to mainstream climate actions and lead to the achievement of an overall target of 25% of the EU budget expenditures supporting climate objectives<sup>74</sup>. Relevant actions *will* be identified during the Programme's preparation and implementation, and reassessed in the context of the relevant evaluations and review processes.

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<sup>74</sup> COM(2018) 321 final, page 1

(43) Reflecting the importance of tackling climate change in line with the Union's *obligations* to implement the Paris Agreement and the United Nations Sustainable Development Goals, this Programme will contribute to mainstream climate actions and lead to the achievement of an overall target of 25% of the EU budget expenditures supporting climate objectives<sup>74</sup>. Relevant actions *shall* be identified during the Programme's preparation and implementation, and reassessed in the context of the relevant evaluations and review processes *in order to ensure full compliance with these obligations*.

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<sup>74</sup> COM(2018) 321 final, page 1

Or. en

## **Amendment 22** **Luke Ming Flanagan**

### **Proposal for a regulation** **Recital 43**

#### *Text proposed by the Commission*

(43) 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 Programme will contribute to mainstream climate actions and lead to the achievement of an overall target of 25% of the EU budget expenditures supporting climate objectives<sup>74</sup>. Relevant actions will be identified during the Programme's preparation and implementation, and reassessed in the context of the relevant evaluations and review processes.

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#### *Amendment*

(43) 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 Programme will contribute to mainstream climate actions and *help* lead to the achievement of an overall target of 25% of the EU budget expenditures supporting climate objectives<sup>74</sup>. Relevant actions will be identified during the Programme's preparation and implementation, and reassessed in the context of the relevant evaluations and review processes.



Or. en

**Amendment 23**  
**Luke Ming Flanagan**

**Proposal for a regulation**  
**Recital 47**

*Text proposed by the Commission*

(47) This Regulation respects fundamental rights and observes the principles recognised in the Charter of Fundamental Rights of the European Unions, notably those referred under Articles [8], [11], [16], [21], [35], [38] and [47] regarding the protection of personal data, the freedom of expression and information, the freedom to conduct business, the prohibition of discrimination, healthcare, consumer protection and the right to effective remedy and fair trial. The Member States must apply this Regulation in a manner consistent with these rights and principles’.

*Amendment*

(47) This Regulation respects fundamental rights and observes the principles recognised in the Charter of Fundamental Rights of the European Unions, notably those referred under Articles [8], [11], [16], [21], [35], [38] and [47] regarding the protection of personal data, the freedom of expression and information, the freedom to conduct business, the prohibition of discrimination, healthcare, consumer protection and the right to effective remedy and fair trial. The Member States must apply this Regulation in a manner consistent with these rights and principles.

Or. en

*Justification*

*No apostrophe needed.*

**Amendment 24**  
**Luke Ming Flanagan**

**Proposal for a regulation**  
**Article 3 – paragraph 1 – introductory part**

*Text proposed by the Commission*

1. The Programme has the following general objective: to support the digital transformation of the European economy

*Amendment*

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and society and bring its benefits to European citizens and businesses. The Programme will:

and society and bring its benefits to European citizens and *to* businesses *and their employees*. The Programme will:

Or. en

**Amendment 25**  
**Stefan Eck**

**Proposal for a regulation**  
**Article 3 – paragraph 1 – point a – indent 1 (new)**

*Text proposed by the Commission*

*Amendment*

- *(c) modernise education and training across the EU.*

Or. en

**Amendment 26**  
**Stefan Eck**

**Proposal for a regulation**  
**Article 3 – paragraph 1 – point b – indent 1 (new)**

*Text proposed by the Commission*

*Amendment*

- *(d) promote open government.*

Or. en

**Amendment 27**  
**Stefan Eck**

**Proposal for a regulation**  
**Article 3 – paragraph 1 – point b – indent 2 (new)**

*Text proposed by the Commission*

*Amendment*

- *(e) enhance the use of digital technologies as a means to improve citizen's access to information and culture*

*and improve their jobs opportunities.*

Or. en

**Amendment 28**  
**Margrete Auken**

**Proposal for a regulation**  
**Article 5 – paragraph 1 – point a**

*Text proposed by the Commission*

(a) build up and strengthen core artificial intelligence capacities in the Union, including data resources and libraries of algorithms in compliance with data protection legislation;

*Amendment*

(a) build up and strengthen core artificial intelligence capacities in the Union, including data resources and libraries of algorithms in **full** compliance with data protection legislation;

Or. en

**Amendment 29**  
**Margrete Auken**

**Proposal for a regulation**  
**Article 5 – paragraph 1 – point c**

*Text proposed by the Commission*

(c) reinforce and network existing artificial intelligence testing and experimentation facilities in Member States;

*Amendment*

(c) reinforce and network **ethical** existing artificial intelligence testing and experimentation facilities in Member States;

Or. en

**Amendment 30**  
**Margrete Auken**

**Proposal for a regulation**  
**Article 6 – paragraph 1 – point a**

*Text proposed by the Commission*

(a) support, together with Member States, the procurement of advanced cybersecurity equipment, tools and data infrastructures in full compliance with data protection legislation;

*Amendment*

(a) support, together with Member States, the procurement of advanced cybersecurity equipment, tools and data infrastructures in full compliance with data protection legislation ***and the fundamental rights***;

Or. en

**Amendment 31**  
**Sirpa Pietikäinen**

**Proposal for a regulation**  
**Article 6 – paragraph 1 – point d – point 1 (new)**

*Text proposed by the Commission*

*Amendment*

***(1) Investigating the possible internal risks that are associated with cyber security, mainly resulting from misunderstanding, misuse, misinterpretation and system failure. These internal threats must be thoroughly investigated, evaluated and tested before implementing new technologies in real-life situations.***

Or. en

**Amendment 32**  
**Nicola Caputo**

**Proposal for a regulation**  
**Article 7 – paragraph 1 – point b**

*Text proposed by the Commission*

*Amendment*

(b) support the design and delivery of short-term trainings and courses for entrepreneurs, small business leaders and the workforce;

(b) support the design and delivery of short-term trainings and courses for entrepreneurs, small business leaders, ***including start-uppers***, and the workforce;

**Amendment 33**  
**Margrete Auken**

**Proposal for a regulation**  
**Article 8 – paragraph 1 – point a**

*Text proposed by the Commission*

(a) ensure that the public sector and areas of public interests, such as health and care, education, judiciary, transport, energy, environment, cultural and creative sectors, can deploy and access state-of-the-art digital technologies, in particular high performance computing, artificial intelligence and cybersecurity;

*Amendment*

(a) ensure that the public sector and areas of public interests, such as health and care, education, judiciary, transport, energy, environment, *climate*, cultural and creative sectors, can deploy and access state-of-the-art digital technologies, in particular high performance computing, artificial intelligence and cybersecurity;

Or. en

**Amendment 34**  
**Nicola Caputo**

**Proposal for a regulation**  
**Article 8 – paragraph 1 – point e**

*Text proposed by the Commission*

(e) support the uptake of advanced digital and related technologies, including in particular high performance computing, artificial intelligence, cybersecurity and future emerging technologies by the Union industry, notably SMEs;

*Amendment*

(e) support the uptake of advanced digital and related technologies, including in particular high performance computing, artificial intelligence, cybersecurity and future emerging technologies by the Union industry, notably SMEs *and start-ups*;

Or. it

**Amendment 35**  
**Sirpa Pietikäinen**

**Proposal for a regulation**  
**Article 8 – paragraph 1 – point i – point i (new)**

*Text proposed by the Commission*

*Amendment*

(i) *Ensure that the concept of user-centered design is thoroughly adapted by creating digital solutions that are simple, functioning, modifiable and tailorable to personal needs, taking account the ageing population.*

Or. en

**Amendment 36**  
**Luke Ming Flanagan**

**Proposal for a regulation**  
**Article 10 – paragraph 1 – introductory part**

*Text proposed by the Commission*

*Amendment*

The programme shall be open to:

*Subject to the rules and objectives of the Programme, **it** shall be open to:*

Or. en

**Amendment 37**  
**Olaf Stuger**

**Proposal for a regulation**  
**Article 10 – paragraph 1 – introductory part**

*Text proposed by the Commission*

*Amendment*

The programme shall be open to:

The programme shall be open **only** to:

Or. nl

**Amendment 38**  
**Joëlle Mélin, Sylvie Goddyn, Jean-François Jalkh**

**Proposal for a regulation**  
**Article 10 – paragraph 1 – point 2**

*Text proposed by the Commission*

*Amendment*

**2. Acceding countries, candidate countries and potential candidates , in accordance with the general principles and general terms and conditions for their participation in Union programmes established in the respective framework agreements and Association Council Decisions, or similar agreements, and in accordance with the specific conditions laid down in agreements between the Union and them;**

**deleted**

Or. fr

### **Amendment 39**

**Olaf Stuger**

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

#### **Article 10 – paragraph 1 – point 2**

*Text proposed by the Commission*

*Amendment*

2. Acceding countries, **candidate countries and potential candidates** , in accordance with the general principles and general terms and conditions for their participation in Union programmes established in the respective framework agreements and Association Council Decisions, or similar agreements, and in accordance with the specific conditions laid down in agreements between the Union and them;

2. Acceding countries, in accordance with the general principles and general terms and conditions for their participation in Union programmes established in the respective framework agreements and Association Council decisions, or similar agreements, and in accordance with the specific conditions laid down in agreements between the Union and them;

Or. nl

### **Amendment 40**

**Olaf Stuger**

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

#### **Article 10 – paragraph 1 – point 2 a (new)**

*Text proposed by the Commission*

*Amendment*

**2a. Countries with a satisfactory score on the Transparency International Corruption Index.**

Or. nl

**Amendment 41**  
**Olaf Stuger**

**Proposal for a regulation**  
**Article 10 – paragraph 1 – point 3**

*Text proposed by the Commission*

*Amendment*

**3. Countries covered by the European Neighbourhood Policy, in accordance with the general principles and general terms and conditions for the participation of those countries in Union programmes established in the respective framework agreements and Association Council Decisions, or similar agreements, and in accordance with the specific conditions laid down in agreements between the Union and those countries;**

**deleted**

Or. nl

**Amendment 42**  
**Olaf Stuger**

**Proposal for a regulation**  
**Article 10 – paragraph 1 – point 4**

*Text proposed by the Commission*

*Amendment*

**4. Third countries in accordance with the conditions laid down in a specific agreement covering the participation of the third country to any Union programme, provided that the agreement**  
**– ensures a fair balance as regards**

**deleted**



*the contributions and benefits of the third country participating in the Union programmes;*

- lays down the conditions of participation in the programmes, including the calculation of financial contributions to individual programmes and their administrative costs. These contributions shall constitute assigned revenues in accordance with Article [21(5)] of [the new Financial Regulation];*
- does not confer to the third country a decisional power on the programme;*
- guarantees the rights of the Union to ensure sound financial management and to protect its financial interests.*

Or. nl

#### **Amendment 43**

**Joëlle Mélin, Sylvie Goddyn, Jean-François Jalkh**

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

#### **Article 10 – paragraph 1 – point 4**

*Text proposed by the Commission*

*Amendment*

- 4. *Third countries in accordance with the conditions laid down in a specific agreement covering the participation of the third country to any Union programme, provided that the agreement*** *deleted*
- ensures a fair balance as regards the contributions and benefits of the third country participating in the Union programmes;*
  - lays down the conditions of participation in the programmes, including the calculation of financial contributions to individual programmes and their administrative costs. These contributions shall constitute assigned revenues in accordance with Article*

*[21(5)] of [the new Financial Regulation];*

- *does not confer to the third country a decisional power on the programme;*
- *guarantees the rights of the Union to ensure sound financial management and to protect its financial interests.*

Or. fr

#### **Amendment 44**

**Joëlle Mélin, Sylvie Goddyn, Jean-François Jalkh**

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

#### **Article 11 – paragraph 1**

*Text proposed by the Commission*

1. The Union may cooperate with third countries mentioned in Article 10, ***with other third countries*** and with international organisations or bodies established in those countries, in particular within the framework of the Euro-Mediterranean and Eastern Partnerships and with neighbouring countries, in particular those of the Western Balkans and Black Sea regions. Without prejudice to Article [19], related costs shall not be covered by the programme.

*Amendment*

1. The Union may cooperate with third countries mentioned in Article 10 and with international organisations or bodies established in those countries, in particular within the framework of the Euro-Mediterranean and Eastern Partnerships and with neighbouring countries, in particular those of the Western Balkans and Black Sea regions. Without prejudice to Article [19], related costs shall not be covered by the programme.

Or. fr

#### **Amendment 45**

**Sirpa Pietikäinen**

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

#### **Article 12 – paragraph 1 – point 1 (new)**

*Text proposed by the Commission*

*Amendment*

**(1) *The European Union Cyber security agency should be transformed to***

*cover the challenges and risks created by artificial intelligence at an exponential base developing ict challenges to which all Member States will contribute to better understand the ethical and other risks associated with artificial intelligence in decision-making.*

Or. en

**Amendment 46**  
**Sirpa Pietikäinen**

**Proposal for a regulation**  
**Article 12 – paragraph 1 – point 2 (new)**

*Text proposed by the Commission*

*Amendment*

*(2) To make use of the technological solutions safely, effectively and equally to create a common digital single market area, a thorough and harmonized framework of EU regulations must be created to generate a level playing field of market certainty.*

Or. en

**Amendment 47**  
**Margrete Auken**

**Proposal for a regulation**  
**Article 12 – paragraph 5 a (new)**

*Text proposed by the Commission*

*Amendment*

*5a. Actions including technology transfers outside the European Union are not permitted. With a view to ensure long term strategic security objectives an opportunity evaluation shall be done for participations of entities not having their main establishment in the European Union. Actions including technology*

*transfers outside the European Union are not permitted. With a view to ensure long term strategic security objectives an opportunity evaluation shall be done for participations of entities not having their main establishment in the European Union.*

Or. en

*Justification*

*A competitive industry is also based on its technological level. Advances resulting from the programme's actions need to be used for increasing European competitiveness*

**Amendment 48**

**Joëlle Mélin, Sylvie Goddyn, Jean-François Jalkh**

**Proposal for a regulation**

**Article 16 – paragraph 1 a (new)**

*Text proposed by the Commission*

*Amendment*

***1a. A central role in the implementation of the programme should be assigned to Digital Innovation Hubs, which should encourage the broad adoption of advanced digital technologies by industry, by public organisations and academia. A network of Digital Innovation Hubs should ensure the widest geographical coverage across Europe. A first set of Digital Innovation Hubs will be selected based on Member States' proposals and then the network will be enlarged through an open and competitive process. The Digital Innovation Hubs will serve as access points to the latest digital resources, including high performance computing (HPC), artificial intelligence, cybersecurity, as well as other existing innovative technologies such as Key Enabling Technologies, available also in fablabs or citylabs. They shall act as single-entry points for accessing tested and validated technologies and promote***

*open innovation. They shall also provide support in the area of advanced digital skills.*

Or. fr

**Amendment 49**

**Joëlle Mélin, Sylvie Goddyn, Jean-François Jalkh**

**Proposal for a regulation**

**Article 16 – paragraph 4**

*Text proposed by the Commission*

4. Additional Digital Innovation Hubs shall be selected on the basis of an open and competitive process, in such a way to ensure the widest geographical coverage across Europe. The number of entities of the network shall be proportional to the population of a given Member States and there shall be at least one Digital Innovation Hub per Member State. To address the specific constraints faced by the EU outermost regions, specific entities *may* be nominated to cover their needs.

*Amendment*

4. Additional Digital Innovation Hubs shall be selected on the basis of an open and competitive process, in such a way to ensure the widest geographical coverage across Europe. The number of entities of the network shall be proportional to the population of a given Member States and there shall be at least one Digital Innovation Hub per Member State. To address the specific constraints faced by the EU outermost regions, specific entities *must* be nominated to cover their needs.

Or. fr

**Amendment 50**

**Nicola Caputo**

**Proposal for a regulation**

**Article 16 – paragraph 6 – point a**

*Text proposed by the Commission*

(a) provide digital transformation services - including testing and experimentation facilities - targeted towards SMEs *and midcaps*, also in sectors that are slow in the uptake of digital and related technologies;

*Amendment*

(a) provide digital transformation services - including testing and experimentation facilities - targeted towards SMEs, *midcaps and start-ups*, also in sectors that are slow in the uptake of digital and related technologies;

**Amendment 51**  
**Nicola Caputo**

**Proposal for a regulation**  
**Article 16 – paragraph 6 – point b**

*Text proposed by the Commission*

(b) transfer expertise and know-how between regions, in particular by networking SMEs *and midcaps* established in one region with Digital Innovation Hubs established in other regions which are best suited to provide relevant services;

*Amendment*

(b) transfer expertise and know-how between regions, in particular by networking SMEs, *midcaps and start-ups* established in one region with Digital Innovation Hubs established in other regions which are best suited to provide relevant services;

**Amendment 52**  
**Nicola Caputo**

**Proposal for a regulation**  
**Article 16 – paragraph 6 – point c**

*Text proposed by the Commission*

(c) provide thematic services, including services related to artificial intelligence, high performance computing and cybersecurity and trust to the administrations, public sector organisations, SMEs *and midcaps*. Individual Digital Innovation Hubs may specialise in specific thematic services and do not need to provide all thematic services mentioned in this paragraph;

*Amendment*

(c) provide thematic services, including services related to artificial intelligence, high performance computing and cybersecurity and trust to the administrations, public sector organisations, SMEs, *midcaps and start-ups*. Individual Digital Innovation Hubs may specialise in specific thematic services and do not need to provide all thematic services mentioned in this paragraph;

**Amendment 53**  
**Olaf Stuger**

**Proposal for a regulation**  
**Article 20 – paragraph 1 – point e**

*Text proposed by the Commission*

(e) where applicable, the economic, social, *climate* and environmental impact, and accessibility;

*Amendment*

(e) where applicable, the economic, social and environmental impact, and accessibility;

Or. nl

**Amendment 54**  
**Luke Ming Flanagan**

**Proposal for a regulation**  
**Annex I – part 5 – subpart I – point 2 – point 2.1**

*Text proposed by the Commission*

2.1. Ensure that EU citizens can access, share, use, and manage their personal health data securely across borders irrespective of their location or the location of the data. Complete the eHealth Digital Service Infrastructure and extend it by new digital services, support deployment of the European exchange format for electronic health records.

*Amendment*

2.1. Ensure that ***all*** EU citizens - ***even those who either are not computer-literate or don't have access to a computer*** - can access, share, use, and manage their personal health data securely across borders irrespective of their location or the location of the data. Complete the eHealth Digital Service Infrastructure and extend it by new digital services, support deployment of the European exchange format for electronic health records.

Or. en