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## LEGISLATIVE ACTS AND OTHER INSTRUMENTS

Subject: Position of the Council at first reading with a view to the adoption of a

REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing the Digital Europe Programme and repealing

Decision (EU) 2015/2240

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# REGULATION (EU) 2021/... OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of ...

## establishing the Digital Europe Programme and repealing Decision (EU) 2015/2240

(Text with EEA relevance)

### THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty on the Functioning of the European Union, and in particular Article 172 and Article 173(3) thereof,

Having regard to the proposal from the European Commission,

After transmission of the draft legislative act to the national parliaments,

Having regard to the opinion of the European Economic and Social Committee<sup>1</sup>,

Having regard to the opinion of the Committee of the Regions<sup>2</sup>,

Acting in accordance with the ordinary legislative procedure<sup>3</sup>,

Position of the European Parliament of 17 April 2019 [(OJ ...)/(not yet published in the Official Journal)] and position of the Council at first reading of ... [(OJ ...)/(not yet published in the Official Journal)]. Position of the European Parliament of ... [(OJ ...)/(not yet published in the Official Journal)].

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<sup>1</sup> OJ C 62, 15.2.2019, p. 292.

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OJ C 86, 7.3.2019, p. 272. 3

#### Whereas:

- This Regulation lays down a financial envelope for the Digital Europe Programme (the 'Programme') for the period 2021-2027, which is to constitute the prime reference amount, within the meaning of point 18 of the Interinstitutional Agreement of 16 December 2020 between the European Parliament, the Council of the European Union and the European Commission on budgetary discipline, on cooperation in budgetary matters and on sound financial management, as well as on new own resources, including a roadmap towards the introduction of new own resources<sup>1</sup>, for the European Parliament and for the Council during the annual budgetary procedure.
- (2) The Programme should be established for a period of seven years to align its duration with that of the multiannual financial framework laid down in Council Regulation (EU, Euratom) 2020/2093<sup>2</sup>.
- (3) Regulation (EU, Euratom) 2018/1046 of the European Parliament and of the Council<sup>3</sup> (the 'Financial Regulation') applies to the Programme. The Financial Regulation lays down rules on the implementation of the Union budget, including the rules on grants, prizes, procurement, indirect management, financial instruments, budgetary guarantees, financial assistance and the reimbursement of external experts.

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OJ L 433I, 22.12.2020, p. 28.

Council Regulation (EU, Euratom) 2020/2093 of 17 December 2020 laying down the multiannual financial framework for the years 2021 to 2027 (OJ L 433I, 22.12.2020, p. 11).

Regulation (EU, Euratom) 2018/1046 of the European Parliament and of the Council of 18 July 2018 on the financial rules applicable to the general budget of the Union, amending Regulations (EU) No 1296/2013, (EU) No 1301/2013, (EU) No 1303/2013, (EU) No 1304/2013, (EU) No 1309/2013, (EU) No 1316/2013, (EU) No 223/2014, (EU) No 283/2014, and Decision No 541/2014/EU and repealing Regulation (EU, Euratom) No 966/2012 (OJ L 193, 30.7.2018, p. 1).

(4) In accordance with Article 193(2) of the Financial Regulation, a grant may be awarded for an action which has already begun, provided that the applicant can demonstrate the need for starting the action prior to signature of the grant agreement. However, the costs incurred prior to the date of submission of the grant application are not eligible, except in duly justified exceptional cases. In order to avoid any disruption in Union support which could be prejudicial to the interests of the Union, it should be possible to provide in the financing decision, during a limited period of time at the beginning of the multiannual financial framework 2021-2027, and only in duly justified cases, for the eligibility of activities and underlying costs from the beginning of the 2021 financial year, even if they were implemented and incurred before the grant application was submitted.

In accordance with the Financial Regulation, Regulation (EU, Euratom) No 883/2013 of (5) the European Parliament and of the Council<sup>1</sup> and Council Regulations (EC, Euratom) No 2988/95<sup>2</sup>, (Euratom, EC) No 2185/96<sup>3</sup> and (EU) 2017/1939<sup>4</sup>, the financial interests of the Union are to be protected by means of proportionate measures, including measures relating to the prevention, detection, correction and investigation of irregularities, including fraud, to the recovery of funds lost, wrongly paid or incorrectly used and, where appropriate, to the imposition of administrative penalties. In particular, in accordance with Regulations (Euratom, EC) No 2185/96 and (EU, Euratom) No 883/2013, the European Anti-Fraud Office (OLAF) has the power to carry out administrative investigations, including on-the-spot checks and inspections, with a view to establishing whether there has been fraud, corruption or any other illegal activity affecting the financial interests of the Union. The European Public Prosecutor's Office (EPPO) is empowered, in accordance with Regulation (EU) 2017/1939, to investigate and prosecute criminal offences affecting the financial interests of the Union, as provided for in Directive (EU) 2017/1371 of the European Parliament and of the Council<sup>5</sup>.

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Regulation (EU, Euratom) No 883/2013 of the European Parliament and of the Council of 11 September 2013 concerning investigations conducted by the European Anti-Fraud Office (OLAF) and repealing Regulation (EC) No 1073/1999 of the European Parliament and of the Council and Council Regulation (Euratom) No 1074/1999 (OJ L 248, 18.9.2013, p. 1).

<sup>&</sup>lt;sup>2</sup> Council Regulation (EC, Euratom) No 2988/95 of 18 December 1995 on the protection of the European Communities financial interests (OJ L 312, 23.12.1995, p. 1).

Council Regulation (Euratom, EC) No 2185/96 of 11 November 1996 concerning on-the-spot checks and inspections carried out by the Commission in order to protect the European Communities' financial interests against fraud and other irregularities (OJ L 292, 15.11.1996, p. 2).

Council Regulation (EU) 2017/1939 of 12 October 2017 implementing enhanced cooperation on the establishment of the European Public Prosecutor's Office ('the EPPO') (OJ L 283, 31.10.2017, p. 1).

Directive (EU) 2017/1371 of the European Parliament and of the Council of 5 July 2017 on the fight against fraud to the Union's financial interests by means of criminal law (OJ L 198, 28.7.2017, p. 29).

In accordance with the Financial Regulation, any person or entity receiving Union funds is to fully cooperate in the protection of the financial interests of the Union, grant the necessary rights and access to the Commission, OLAF, the Court of Auditors and, in respect of those Member States participating in enhanced cooperation pursuant to Regulation (EU) 2017/1939, the EPPO, and ensure that any third parties involved in the implementation of the Union funds grant equivalent rights.

(6) Pursuant to Council Decision 2013/755/EU<sup>1</sup>, persons and entities established in overseas countries and territories should be eligible for funding subject to the rules and objectives of the Programme and to possible arrangements applicable to the Member State to which the relevant overseas country or territory is linked. The effectiveness of their participation in the Programme should be monitored and regularly evaluated by the Commission.

(OJ L 344, 19.12.2013, p. 1).

Council Decision 2013/755/EU of 25 November 2013 on the association of the overseas countries and territories with the European Union ('Overseas Association Decision')

- Pursuant to paragraphs 22 and 23 of the Interinstitutional Agreement of 13 April 2016 on Better Law-Making<sup>1</sup>, the Programme should be evaluated on the basis of information collected in accordance with specific monitoring requirements that correspond to existing needs and comply with Regulation (EU) 2016/679 of the European Parliament and of the Council<sup>2</sup>, while avoiding an administrative burden, in particular on Member States, and overregulation, and taking into account existing measuring and benchmarking frameworks in the digital field. Those requirements, where appropriate, should include measurable quantitative and qualitative indicators as a basis for evaluating the effects of the Programme on the ground.
- (8) The Programme should ensure utmost transparency and accountability of innovative financial instruments and mechanisms that involve the Union budget, with respect to their contribution towards achieving Union objectives, both as regards initial expectations and the end results.

<sup>1</sup> (OJ L 123, 12.5.2016, p. 1).

Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation) (OJ L 119, 4.5.2016, p. 1).

- (9) The Tallinn Digital Summit of September 2017 and the Conclusions of the European Council of 19 October 2017 indicated the need for the Union to invest in digitising its economies and addressing the skills gap to maintain and enrich European competitiveness and innovation, quality of life and social fabric. The European Council concluded that digital transformation offers immense opportunities for innovation, growth and jobs, will contribute to our global competitiveness, and will enhance creative and cultural diversity. Seizing those opportunities requires collectively tackling some of the challenges posed by the digital transformation and reviewing policies affected by the digital transformation.
- (10) The European Council concluded in particular that the Union should urgently address emerging trends, including issues such as artificial intelligence (AI) and distributed ledger technologies (e.g. blockchain), while at the same time ensuring a high level of data protection in full compliance with Regulation (EU) 2016/679, digital rights, fundamental rights and ethical standards. The European Council invited the Commission to put forward a European approach to AI by early 2018 and called on the Commission to put forward the necessary initiatives to strengthen the framework conditions with a view to enabling the Union to explore new markets through risk-based radical innovations and to reaffirming the leading role of its industry.

- (11) Building a strong European digital economy and society would be enhanced by the proper implementation of the Connecting Europe Facility established by a Regulation of the European Parliament and of the Council and the European Electronic Communications Code established by Directive (EU) 2018/1972 of the European Parliament and of the Council<sup>1</sup>.
- In its communication of 14 February 2018, entitled 'A new, modern Multiannual Financial Framework for a European Union that delivers efficiently on its priorities post-2020', the Commission, taking into consideration the options for the new multiannual financial framework, outlines a programme for Europe's digital transformations to deliver strong progress towards smart growth in areas such as high-quality data infrastructure, connectivity and cybersecurity. The Programme would seek to secure European leadership in supercomputing, next generation internet, AI, robotics and big data. It would reinforce the competitive position of industry and business in Europe across the digitised economy and would have a significant impact on bridging and filling the skills gap across the Union so that citizens have the necessary skills and knowledge to face the digital transformation.
- (13) The Commission communication of 25 April 2018, entitled 'Towards a common European data space', addresses the new measures to be taken as a key step towards a common data space in the Union, a seamless digital area with a scale that will enable the development and innovation of new products and services based on data.

Directive (EU) 2018/1972 of the European Parliament and of the Council of 11 December 2018 establishing the European Electronic Communications Code (OJ L 321, 17.12.2018, p. 36).

- The general objectives of the Programme should be to support the digital transformation of industry and to foster better exploitation of the industrial potential of policies on innovation, research and technological development, for the benefit of citizens and businesses across the Union, including its outermost regions and its economically disadvantaged regions. The Programme should be structured into five specific objectives that reflect key policy areas, namely: High Performance Computing; Artificial Intelligence; Cybersecurity and Trust; Advanced Digital Skills; and Deployment and Best Use of Digital Capacities and Interoperability. For all those key policy areas, the Programme should also aim to better align Union, Member State and regional policies, and to pool private and industrial resources in order to increase investment and develop stronger synergies. In addition, the Programme should strengthen the Union's competiveness and the resilience of its economy.
- (15) The five specific objectives are distinct but interdependent. For example, AI needs cybersecurity to be trustworthy, high performance computing (HPC) capabilities are key for supporting learning in the context of AI, and all three capacities require advanced digital skills. Although individual actions under the Programme relate to a single specific objective, the objectives should not be viewed in isolation, but rather as forming the core of a coherent package.
- There is a need to support small and medium-sized enterprises (SMEs) that intend to harness the digital transformation in their production processes. Such support would allow SMEs to contribute to the growth of the European economy through an efficient use of resources.

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A central role in the implementation of the Programme should be attributed to European (17)Digital Innovation Hubs, which should stimulate the broad adoption of advanced digital technologies by industry, in particular by SMEs and by other entities that employ up to 3 000 people ('mid-caps'), by public organisations and by the academic community. In order to clarify the distinction between digital innovation hubs that comply with the eligibility criteria under the Programme and digital innovation hubs established following the Commission communication of 19 April 2016 entitled 'Digitising European Industry -Reaping the full benefits of a Digital Single Market' and financed by other sources, the hubs financed under the Programme should be called European Digital Innovation Hubs. European Digital Innovation Hubs should serve as access points for the latest digital capacities, including HPC, AI, cybersecurity, as well as for other existing innovative technologies such as key enabling technologies, available also in fablabs or citylabs. European Digital Innovation Hubs should act as single-entry points in accessing tested and validated technologies and should promote open innovation. They should also provide support in the area of advanced digital skills, for example by coordinating with education providers for the provision of short-term training for workers and internships for students. The network of European Digital Innovation Hubs should ensure broad geographical coverage across Europe and should contribute to the participation of the outermost regions in the Digital Single Market.

(18)During the first year of the Programme, an initial network of European Digital Innovation Hubs should be established through an open and competitive process from among entities designated by Member States. To that end, Member States should be free to propose candidates in accordance with their national procedures and national administrative and institutional structures. The Commission should take the utmost account of the opinion of each Member State before selecting a European Digital Innovation Hub in the territory of that Member State. Entities which already carry out functions as digital innovation hubs in the context of the Digitising European Industry Initiative could be designated by Member States as candidates as a result of an open and competitive process. The Commission should be able to involve independent external experts in the selection process. The Commission and the Member States should avoid the unnecessary duplication of competences and functions at Union and national level. There should therefore be adequate flexibility when designating the hubs and determining their activities and composition. In order to ensure a broad geographical coverage across Europe, as well as a balance of coverage of technologies and sectors, the network might be further enlarged through a subsequent open and competitive process.

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- European Digital Innovation Hubs should develop appropriate synergies with relevant actions funded by Horizon Europe the Framework Programme for Research and Innovation established by Regulation (EU) 2021/... of the European Parliament and of the Council<sup>1+</sup> ('Horizon Europe') or by other research and innovation programmes, with the European Institute of Innovation and Technology (EIT) established by a recast Regulation of the European Parliament and of the Council, in particular its Knowledge and Innovation Communities (KICs), as well as with established networks such as the Entreprise Europe Network, or the InvestEU Advisory Hub established in accordance with Regulation (EU) 2021/... of the European Parliament and of the Council<sup>2++</sup>.
- (20) European Digital Innovation Hubs should act as facilitators to bring together industries, businesses and public administrations which are in need of new technological solutions, with businesses, in particular start-ups and SMEs, that have market-ready solutions.

Regulation (EU) 2021/... of the European Parliament and of the Council of ... establishing Horizon Europe – the Framework Programme for Research and Innovation, laying down its rules for participation and dissemination, and repealing Regulations (EU) No 1290/2013 and (EU) No 1291/2013 (OJ ..., p. ...).

Regulation (EU) 2021/... of the European Parliament and of the Council of ... establishing the InvestEU Programme and amending Regulation (EU) 2015/1017 (OJ ..., p. ...).

OJ: Please insert in the text the number of the Regulation contained in document ST 7064/20 (2018/0224(COD)) and insert the number, date, title and OJ reference of that Regulation in the footnote.

OJ: Please insert in the text the number of the Regulation contained in document PE-CONS 74/20 (2020/0108(COD)) and insert the number, date, title and OJ reference of that Regulation in the footnote.

- (21) A consortium of legal entities may be selected as European Digital Innovation Hubs in accordance with point (c) of Article 197(2) of the Financial Regulation that allows entities which do not have legal personality under the applicable national law to participate in calls for proposals, provided that their representatives have the capacity to undertake legal obligations on behalf of those entities and that those entities offer guarantees for the protection of the financial interests of the Union that are equivalent to those offered by legal persons.
- European Digital Innovation Hubs should be allowed to receive contributions from Member States and participating third countries, including from public authorities within Member States and those third countries, contributions from international bodies or institutions, and contributions from the private sector, in particular from members, shareholders or partners of the European Digital Innovation Hubs. European Digital Innovation Hubs should also be allowed to receive revenues generated by the European Digital Innovation Hubs' own assets and activities, bequests, donations and contributions from individuals and funding from the Programme and other Union programmes, including in the form of grants.

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- (23) The Programme should be implemented through projects that reinforce and widen the use of essential digital capacities. Such implementation should involve co-financing with Member States and, where necessary, the private sector. The co-financing rate should be established in the work programme. By way of derogation from the general rule, the Union funding should be able to cover up to 100 % of eligible costs. In particular, such financing should require reaching a critical mass in procurement to obtain better value for money and to guarantee that suppliers in Europe stay at the forefront of technology advancements.
- The policy objectives of the Programme should also be addressed through financial instruments and budgetary guarantees under the InvestEU Programme established by Regulation (EU) 2021 .../...<sup>+</sup>.
- (25) The Programme's actions should be used to improve further the Union's digital capacities and to address market failures or sub-optimal investment situations, in a proportionate manner, without duplicating or crowding out private financing, and should provide clear European added value.

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OJ: Please insert in the text the number of the Regulation contained in document PE-CONS 74/20 (2020/0108(COD)).

In order to achieve maximum flexibility throughout the lifetime of the Programme and to develop synergies between the components of the Programme, it should be possible for each of the specific objectives to be implemented through any of the instruments available under the Financial Regulation. The delivery mechanisms to be used are direct management and indirect management, where Union financing should be combined with other sources of financing or where execution requires the setup of commonly governed structures. Moreover, in order to respond in particular to new developments and needs such as new technologies, the Commission is allowed to propose to deviate from the indicative amounts set out in this Regulation in the context of the annual budgetary procedure and in accordance with the Financial Regulation.

6789/20 AD/JU/fh 15 TREE.2 EN (27)In order to ensure the efficient allocation of funds from the Union budget, it is necessary to ensure the European added value of all actions and activities carried out under the Programme and their complementarity with Member States' activities, while consistency, complementarity and synergies should be sought with funding programmes that support policy areas that are closely linked to each other. Although the relevant work programmes provide a tool for ensuring consistency for directly and indirectly managed actions, collaboration between the Commission and the relevant Member States authorities should be established to ensure consistency and complementarities between directly or indirectly managed funds and funds that are subject to shared management, while complying with the applicable provisions of a Regulation of the European Parliament and of the Council laying down common provisions on the European Regional Development Fund, the European Social Fund Plus, the Cohesion Fund, the Just Transition Fund and the European Maritime, Fisheries and Aquaculture Fund and financial rules for those and for the Asylum, Migration and Integration Fund, the Internal Security Fund and the instrument for financial support for border management and visa (the 'Common Provisions Regulation for 2021-2027').

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- The HPC capacities and the related data processing in the Union should ensure the wider use of HPC 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 to the competitiveness of industry, in particular SMEs. Acquiring world-class supercomputers would secure the Union's supply system and would help deploy services for simulation, visualisation and prototyping, while ensuring that HPC systems comply with Union values and principles.
- Parliament and by the Council. Moreover, between 2017 and 2018, 22 Member States signed the European Declaration on HPC, a multi-government agreement in which they committed to collaborating with the Commission to build and deploy state-of-the-art HPC infrastructures and data infrastructures in Europe that would be available to scientific communities and to public and private partners across the Union.

- (30) As highlighted in the impact assessment accompanying the Commission proposal for a Council Regulation establishing the European High Performance Computing Joint Undertaking, in order to achieve the Specific Objective 'High Performance Computing', a joint undertaking is deemed to be the most suitable means of implementation, in particular to coordinate Union and national strategies and investments in HPC infrastructure, as well as research and development, pool resources from public and private funds, and safeguard the economic and strategic interests of the Union. Moreover, the national High Performance Computing competence centres within the meaning of the Council Regulation (EU) 2018/1488<sup>1</sup> provide HPC services to industry, including SMEs and start-ups, the academic community and public administrations.
- (31) Developing capacity related to AI is a crucial driver for the digital transformation of industry, services and the public sector. Ever more autonomous robots are used in factories, deep sea applications, homes, cities and hospitals. Commercial AI platforms have moved from testing to having real applications in the health and environmental sectors. All major car manufacturers are developing self-driving cars, and machine-learning techniques are at the heart of all main web platforms and big data applications. It is essential for Europe to join forces at all levels to be competitive internationally. Member States have acknowledged this through concrete commitments for collaboration in a coordinated action plan.

Council Regulation (EU) 2018/1488 of 28 September 2018 establishing the European High Performance Computing Joint Undertaking (OJ L 252, 8.10.2018, p. 1).

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- (32) Libraries of algorithms may cover a large set of algorithms, including simple solutions such as classification algorithms, neural network algorithms and planning or reasoning algorithms. They may also cover more complex solutions, such as speech recognition algorithms, navigation algorithms embedded in autonomous devices, such as drones or autonomous cars and AI algorithms built into robots to enable them to interact with and adapt to their environment. Libraries of algorithms should be made easily accessible to everyone on the basis of fair, reasonable and non-discriminatory terms.
- (33) In its resolution of 1 June 2017 on digitising European industry, the European Parliament pointed out the impact of language barriers on industry and on the digitisation of industry. In that context, the development of large-scale AI-based language technologies, such as automatic translation, speech recognition, big data text analytics, dialogue and question-answering systems, is essential to preserving linguistic diversity, ensuring inclusiveness and enabling human-to-human and human-to-machine communication.
- (34) Products and services based on AI should be user-friendly, should comply with the law by default and should provide consumers with more choice and more information, in particular regarding the quality of products and services.
- (35) The availability of large-scale data sets and of testing and experimentation facilities are of major importance to the development of AI, including language technologies.

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- (36) In its resolution on digitising European industry, the European Parliament highlighted the importance of a common European cybersecurity approach and recognised the need to raise awareness. It considered cyber-resilience as a crucial responsibility for business leaders and national and European industrial and security policymakers, as well as the implementation of security and privacy by design and by default.
- (37) Cybersecurity is a challenge for the entire Union that cannot be addressed only by national initiatives. Europe's cybersecurity capacity should be reinforced to endow Europe with the necessary capacities to protect its citizens, public administrations and businesses from cyber threats. In addition, consumers should be protected when using connected products that can be hacked and can compromise their safety. Such protection should be achieved together with Member States and the private sector by developing projects to reinforce Europe's capacities in cybersecurity, by ensuring coordination between those projects and by ensuring the wide deployment of the latest cybersecurity solutions across the economy, including dual-use projects, services, competences and applications, as well as by aggregating competences in this field to ensure critical mass and excellence.
- (38) In September 2017, the Commission put forward a package of initiatives setting out a comprehensive Union approach to cybersecurity, with the aim of reinforcing Europe's capacity to deal with cyberattacks and cyber threats and to strengthen technology and industrial capacity in this field. That package includes Regulation (EU) 2019/881 of the European Parliament and of the Council<sup>1</sup>.

Regulation (EU) 2019/881 of the European Parliament and of the Council of 17 April 2019 on ENISA (the European Union Agency for Cybersecurity) and on information and communications technology cybersecurity certification and repealing Regulation (EU) No 526/2013 (Cybersecurity Act) (OJ L 151, 7.6.2019, p. 15).

- (39) Trust is a prerequisite for the Digital Single Market to function. Cybersecurity technologies such as digital identities, cryptography and intrusion detection, and their application in areas such as finance, industry 4.0, energy, transport, healthcare, and e-government are essential to safeguarding the security of, and trust in, online activities and transactions by citizens, public administrations, and businesses.
- (40) The European Council, in its conclusions of 19 October 2017, stressed that to successfully build a Digital Europe, the Union needs labour markets, training and education systems that are fit for the digital age and that there is a need to invest in digital skills to empower and enable all Europeans.

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- (41) In its conclusions of 14 December 2017, the European Council called on Member States, the Council and the Commission to take forward the agenda of the Gothenburg Social Summit of November 2017, including the European Pillar of Social Rights, as well as education and training and the delivery of the new European Skills Agenda. The European Council also asked the Commission, the Council and the Member States to examine possible measures to address the skills challenges linked to digitisation, cybersecurity, media literacy and AI and to address the need for an inclusive, lifelong-learning-based and innovation-driven approach to education and training. In response, the Commission presented on 17 January 2018 a first package of measures, addressing key competences, digital skills, common values and inclusive education. In May 2018, a second package of measures was launched, advancing work to build a European Education Area by 2025, which also emphasises the centrality of digital skills. Media literacy includes essential competencies (knowledge, skills and attitudes) that allow citizens to engage effectively with media and other information providers and to develop critical thinking and lifelong learning skills for socialising and becoming active citizens.
- (42) Considering the need for a holistic approach, the Programme should also take into account inclusion, qualification, training and specialisation, which, in addition to advanced digital skills, are decisive for the creation of added value in the knowledge society.

6789/20 AD/JU/fh 22 TREE.2 EN (43) In its resolution on digitising European industry, the European Parliament stated that education, training and lifelong learning are the cornerstone of social cohesion in a digital society. It further demanded that the gender balance perspective be incorporated in all digital initiatives, emphasising the need to address the gender gap within the information and communications technology (ICT) sector, since this is essential to Europe's long-term growth and prosperity.

The advanced digital technologies supported by the Programme, such as HPC, (44)cybersecurity and AI, are now sufficiently mature to move beyond the research phase and be deployed, implemented and scaled-up at Union level. In the same way as the deployment of those technologies require a Union response, so does the advanced digital skills dimension. Training opportunities in advanced digital skills, including data protection competencies, need to be scaled up, increased and made accessible throughout the Union. Failing to do that could impede the smooth deployment of advanced digital technologies and could hamper the overall competitiveness of Union's economy. The actions supported by the Programme are complementary to those supported by the European Social Fund Plus (ESF+) established by a Regulation of the European Parliament and of the Council, the European Regional Development Fund (ERDF) established by a Regulation of the European Parliament and of the Council on the European Regional Development Fund and on the Cohesion Fund (the 'ERDF-CF Regulation for 2021-2027'), Erasmus+ established by a Regulation of the European Parliament and of the Council establishing Erasmus+: the Union programme for education and training, youth and sport, and Horizon Europe. Those actions will target the Union workforce in the private sector as well as the public sector, in particular ICT professionals and other related professionals, as well as students, trainees and trainers. The term 'workforce' refers to the economically active population, and includes both workers and self-employed people who are in occupation and unemployed people.

- (45) Modernising public administrations and services by digital means is crucial to reducing the administrative burden on businesses, including SMEs, 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, transparency and the quality of the services provided to citizens and businesses, while at the same time increasing the efficiency of public spending. Since a number of services of public interest already have a Union dimension, the support provided to their implementation and deployment at Union level should ensure that citizens and businesses will beable to benefit from access to high-quality digital services across the Union that are, where possible, multilingual. Moreover, Union support in this area is expected to encourage the re-use of public sector information.
- (46) Digitalisation can facilitate and improve barrier-free accessibility to all, including older people, people with reduced mobility or with disabilities, and people in remote or rural areas.
- (47) The digital transformation of areas of public interest such as healthcare, mobility, justice, earth or environmental monitoring, security, the reduction of carbon emissions, energy infrastructure, education and training, and culture requires the continuation and expansion of digital service infrastructures, which make possible the secure cross-border exchange of data and which foster national development. Coordination between those digital service infrastructures under this Regulation would best achieve the potential for exploiting synergies.

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- (48) The deployment of the necessary digital technologies, in particular those under the Specific Objectives 'High Performance Computing', 'Artificial Intelligence' and 'Cybersecurity and Trust', is key to reaping the benefits of digital transformation and might be complemented by other leading-edge and future technologies, such as distributed ledger technologies (e.g. blockchain).
- (49) The digital transformation should allow citizens to have access to, use and manage their personal data securely across borders, irrespective of their location or the location of the data.
- (50) In the Tallinn Declaration on eGovernment of 6 October 2017, the ministers in charge of eGovernment policy and coordination from the Member States and the countries which are members of the European Free Trade Association concluded that digital progress is transforming their societies and economies to the core, challenging the effectiveness of previously developed policies in a broad range of areas as well as the role and function of the public administration overall, and that it is their duty to anticipate and manage those challenges to meet the needs and expectations of citizens and businesses.
- (51) The modernisation of European public administrations is one of the key priorities for successful implementation of the Digital Single Market. The mid-term evaluation of the Digital Single Market strategy highlighted the need to strengthen the transformation of public administrations and to ensure citizens have easy, trusted, and seamless access to public services.

- (52) The Annual Growth Survey published by the Commission in 2017 shows that the quality of European public administrations has a direct impact on the economic environment and is therefore crucial to stimulating productivity, competitiveness, economic cooperation, sustainable growth, employment and high-quality jobs. In particular, efficient and transparent public administrations and effective justice systems are necessary to support economic growth and to deliver high-quality services to citizens and businesses.
- The interoperability of European public services concerns all levels of administration: (53)Union, national, regional and local. Besides removing barriers to a functioning internal market, interoperability facilitates cross-border cooperation, the promotion of European standards and the successful implementation of policies, and offers great potential for avoiding cross-border electronic barriers, further securing the emergence of new, and the consolidation of developing, common public services at Union level. In order to eliminate the fragmentation of European public services and to support fundamental freedoms and operational mutual recognition in the Union, a holistic cross-sector and cross-border approach to interoperability should be promoted in the manner that is most effective and is most responsive to end-users. Such an approach implies that interoperability is to be understood in a broad sense, spanning technical and legal layers and encompassing policy elements in the field. Accordingly, the span of activities would go beyond the usual lifecycle of solutions to include all the intervention elements that would support the necessary framework conditions for sustained interoperability at large. The Programme should also facilitate cross-fertilisation between different national initiatives, leading to the development of a digital society.

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- (54) The Programme should encourage open-source solutions in order to allow reuse, increase trust and secure transparency. Such an approach will have a positive impact on the sustainability of funded projects.
- (55) The budget allocated to specific actions dedicated to the implementation of the interoperability framework and the interoperability of developed solutions is expected to be EUR 194 million.
- (56) The European Parliament's resolution on digitising European industry stressed the importance of unlocking sufficient public and private finance for the digitisation of Europe's industry.
- (57) On 19 April 2016, the Commission adopted the Digitising European Industry initiative to ensure that any industry in Europe, big or small, wherever situated and in any sector can fully benefit from digital innovations. This is of particular relevance to SMEs in the cultural and creative sectors.
- (58) The European Economic and Social Committee welcomed the Commission communication on Digitising European Industry and considered it, together with accompanying documents, as 'the first step in a vast European work programme to be carried out in close mutual cooperation between all interested public and private parties'.

- (59) Reaching the target objectives may require leveraging the potential of complementary technologies in the networking and computing domains, as stated in the Commission communication on Digitising European Industry, which recognises the 'availability of world class networking and cloud infrastructure' as an essential component of the digitisation of industry.
- (60) By providing for a single set of rules directly applicable in the Member States legal orders, Regulation (EU) 2016/679 guarantees the free flow of personal data between Member States and reinforces trust and the security of individuals, two indispensable elements for a real Digital Single Market. All actions taken under the Programmewhich involve the processing of personal data should therefore contribute to the smooth implementation of that Regulation, for example in the field of AI and distributed ledger technologies (e.g. blockchain). Those actions should support the development of digital technologies that comply with the obligations on data protection by design and by default.
- (61) The Programme should be implemented in a manner that fully respects the Union and international framework of intellectual property protection and enforcement. The effective protection of intellectual property plays a key role in innovation and is, therefore, necessary for the effective implementation of the Programme.

- (62) Third countries which are members of the European Economic Area may participate in Union programmes in the framework of the cooperation established under the Agreement on the European Economic Area<sup>1</sup>, which provides for the implementation of the programmes on the basis of a decision adopted under that Agreement. Third countries may also participate on the basis of other legal instruments. Those instruments should be able to provide for partial association, namely association to a limited number of specific objectives pursued under the Programme. A specific provision should be introduced in this Regulation requiring third countries to grant the necessary rights and access required for the authorising officer responsible, OLAF and the Court of Auditors to comprehensively exercise their respective competences.
- (63) The bodies entrusted with the implementation of the Programme should comply with the provisions applicable to the Union institutions and with the national law regarding the handling of information, in particular sensitive non-classified information and EU classified information. For the Specific Objective 'Cybersecurity and Trust', security reasons may require legal entities that are controlled from third countries to be excluded from calls for proposals and tenders under the Programme. In exceptional cases, such exclusions may also be required for the Specific Objectives 'High Performance Computing' and 'Artificial Intelligence'. The security reasons for such exclusions should be proportionate and should be duly justified by reference to the risks that the inclusion of such entities would represent.

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OJ L 1, 3.1.1994, p. 3.

- Reflecting the importance of tackling climate change in line with the Union's commitments to implement the Paris Agreement, adopted under the United Nations Framework

  Convention on Climate Change<sup>1</sup>, and to the United Nations Sustainable Development

  Goals, the Programme is intended to contribute to the mainstreaming of climate actions and to the achievement of an overall target of 30 % of the Union budget expenditure supporting climate objectives and the ambition of 7,5 % of the budget reflecting biodiversity expenditures in 2024 and 10 % in 2026 and 2027 while considering the existing overlaps between climate and biodiversity goals. Relevant actions should be identified during the Programme's preparation and implementation, and should be reassessed in the context of the relevant evaluations and review processes.
- As the Programme is new, it is useful to provide, in an annex, a technical description of the Programme's scope of actions. That technical description included in such an annex should be taken into account by the Commission when preparing work programmes, whereas the work programmes should be consistent with the specific objectives set out in this Regulation.

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OJ L 282, 19.10.2016, p. 4.

(66) The work programmes should be adopted in principle as multi-annual work programmes, typically every two years, or, if justified by needs related to the implementation of the programme, as annual work programmes. The forms of Union funding and the methods of implementation of the Programme should be chosen on the basis of their ability to achieve the specific objectives of the actions and to deliver results, taking into account, in particular, the costs of controls, the administrative burden, and the expected risk of non-compliance. That choice should include the consideration of the use of lump sums, flat-rate financing and unit costs, as well as financing not linked to costs as referred to in Article 125(1) of the Financial Regulation.

(67) The power to adopt acts in accordance with Article 290 of the Treaty on the Functioning of the European Union (TFEU) should be delegated to the Commission in order to amend Annex I to this Regulation to reflect technological change and market developments, with regard to the actions set out therein in a manner consistent with the objectives of this Regulation and to amend Annex II thereto with regard to the measurable indicators where considered to be necessary as well as to supplement this Regulation with provisions on the establishment of a monitoring and evaluation framework. It is of particular importance that the Commission carry out appropriate consultations during its preparatory work, including at expert level, and that those consultations be conducted in accordance with the principles laid down in the Interinstitutional Agreement of 13 April 2016 on Better Law-Making. In particular, to ensure equal participation in the preparation of delegated acts, the European Parliament and the Council receive all documents at the same time as Member States' experts, and their experts systematically have access to meetings of Commission expert groups dealing with the preparation of delegated acts.

- In order to ensure uniform conditions for the implementation of this Regulation, implementing powers should be conferred on the Commission as regards the selection of the entities forming the initial and additional European Digital Innovation Hubs and the adoption of the work programmes for Specific Objectives 2, 4 and 5 and for possible other actions under direct management for Specific Objectives 1 and 3 so that the objectives of the Programme are achieved in accordance with the Union and Member States' priorities while ensuring consistency, transparency and continuity of joint action by the Union and the Member States. Those implementing powers should be exercised in accordance with Regulation (EU) No 182/2011 of the European Parliament and of the Council<sup>1</sup>. For actions subject to indirect management, the work programmes are adopted in accordance with rules of the governing boards of the bodies entrusted with the implementation of the Programme.
- (69) This Regulation respects fundamental rights and observes the principles recognised in the Charter of Fundamental Rights of the European Union (the 'Charter'), in particular those 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. Member States should apply this Regulation in a manner consistent with those rights and principles.

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Regulation (EU) No 182/2011 of the European Parliament and of the Council of 16 February 2011 laying down the rules and general principles concerning mechanisms for control by Member States of the Commission's exercise of implementing powers (OJ L 55, 28.2.2011, p. 13).

- (70) Horizontal financial rules adopted by the European Parliament and the Council on the basis of Article 322 TFEU apply to this Regulation. Those rules are laid down in the Financial Regulation and determine in particular the procedure for establishing and implementing the Union budget through grants, prizes, procurement and indirect management, and provide for checks on the responsibility of financial actors. Rules adopted on the basis of Article 322 TFEU also include a general regime of conditionality for the protection of the Union budget.
- (71) Since the objectives of this Regulation, namely to support and accelerate the digital transformation of the European economy, industry and society, to bring its benefits to citizens, public administrations and businesses across the Union, and to improve the competitiveness of Europe in the global digital economy while contributing to bridging the digital divide across the Union and reinforcing the Union's strategic autonomy, cannot be sufficiently achieved by the Member States but can rather, by reason of their scale and effects, be better achieved at Union level, the Union may adopt measures, in accordance with the principle of subsidiarity as set out in Article 5 of the Treaty on European Union. In accordance with the principle of proportionality as set out in that Article, this Regulation does not go beyond what is necessary in order to achieve those objectives.

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- (72) In order to ensure continuity in providing support in the relevant policy area and to allow implementation to start from the beginning of the multi-annual financial framework 2021-2027, this Regulation should enter into force as a matter of urgency and should apply, with retroactive effect, from 1 January 2021.
- (73) Decision (EU) 2015/2240 of the European Parliament and of the Council<sup>1</sup> should therefore be repealed,

HAVE ADOPTED THIS REGULATION:

as a means for modernising the public sector (OJ L 318, 4.12.2015, p. 1).

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Decision (EU) 2015/2240 of the European Parliament and of the Council of 25 November 2015 establishing a programme on interoperability solutions and common frameworks for European public administrations, businesses and citizens (ISA<sup>2</sup> programme)

# **Chapter I**

# **General provisions**

#### Article 1

# Subject matter

This Regulation establishes the Digital Europe Programme (the 'Programme') for the duration of the Multiannual Financial Framework 2021-2027.

This Regulation lays down the objectives of the Programme, its budget for the period 2021 to 2027, the forms of Union funding and the rules for providing such funding.

#### Article 2

# **Definitions**

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

(1) 'blending operation' means an action supported by the Union budget, including within a blending facility or platform as defined in point (6) of Article 2 of the Financial Regulation, that combines non-repayable forms of support or financial instruments from the Union budget with repayable forms of support from development or other public finance institutions, as well as from commercial finance institutions and investors;

- (2) 'legal entity' means a natural person, or a legal person created and recognised as such under Union, national, or international law, which has legal personality and the capacity to act in its own name, exercise rights and be subject to obligations, or an entity which does not have legal personality as referred to in point (c) of Article 197(2) of the Financial Regulation;
- (3) 'associated country' means a third country which is party to an agreement with the Union allowing for its participation in the Programme pursuant to Article 10;
- (4) 'international organisation of European interest' means an international organisation, the majority of whose members are Member States or whose headquarters are in a Member State;
- (5) 'European Digital Innovation Hub' means a legal entity selected in accordance with Article 16 in order to fulfil the tasks under the Programme, in particular by directly providing, or ensuring access to, technological expertise and experimentation facilities, such as equipment and software tools to enable the digital transformation of industry, as well as by facilitating access to finance and it is open to businesses of all forms and sizes, in particular to SMEs, mid-caps and scale-up companies, and to public administrations across the Union;

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- 'advanced digital skills' means the skills and professional competencies requiring the (6) knowledge and experience necessary to understand, design, develop, manage, test, deploy, use and maintain the technologies, products and services supported by the Programme as referred to in Article 7;
- (7) 'European Partnership' means a European Partnership as defined in point (3) of Article 2 of Regulation (EU) 2021/...+;
- (8) 'small and medium-sized enterprise' or 'SME' means a micro, small or medium-sized enterprise as defined in Article 2 of the Annex to Commission Recommendation 2003/361/EC<sup>1</sup>;
- (9) 'cybersecurity' means the activities necessary to protect network and information systems, the users of such systems, and other persons affected by cyber threats;
- (10)'digital service infrastructures' means infrastructures which enable networked services to be delivered electronically, typically over the internet;
- (11)'Seal of Excellence' means a quality label which shows that a proposal submitted to a call for proposals under the Programme has passed all of the evaluation thresholds set out in the work programme, but could not be funded due to a lack of budget available for that call for proposals in the work programme, and might receive support from other Union or national sources of funding;

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<sup>1</sup> Commission Recommendation 2003/361/EC of 6 May 2003 concerning the definition of micro, small and medium-sized enterprises (OJ L 124, 20.5.2003, p. 36).

(12) 'exascale' means, in the context of computing systems, being capable of executing 10<sup>18</sup> (ten to the power of 18) floating operations per second.

#### Article 3

#### Programme objectives

1. The general objectives of the Programme shall be to support and accelerate the digital transformation of the European economy, industry and society, to bring its benefits to citizens, public administrations and businesses across the Union, and to improve the competitiveness of Europe in the global digital economy while contributing to bridging the digital divide across the Union and reinforcing the Union's strategic autonomy, through holistic, cross-sectoral and cross-border support and a stronger Union contribution.

The Programme shall be implemented in close coordination with other Union programmes as applicable, and shall aim:

- (a) to strengthen and promote Europe's capacities in key digital technology areas through large-scale deployment;
- (b) in the private sector and in areas of public interest, to widen the diffusion and uptake of Europe's key digital technologies, promoting the digital transformation and access to digital technologies.

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- 2. The Programme shall have five interrelated specific objectives:
  - (a) Specific Objective 1: High Performance Computing
  - (b) Specific Objective 2: Artificial Intelligence
  - (c) Specific Objective 3: Cybersecurity and Trust
  - (d) Specific Objective 4: Advanced Digital Skills
  - (e) Specific Objective 5: Deployment and Best Use of Digital Capacity and Interoperability.

# Specific Objective 1- High Performance Computing

- 1. The financial contribution from the Union under Specific Objective 1 High Performance Computing shall pursue the following operational objectives:
  - (a) deploy, coordinate at Union level and operate an integrated demand-oriented and application-driven world-class exascale supercomputing and data infrastructure that shall be easily accessible to public and private users, in particular SMEs, irrespective of the Member State in which they are located, and easily accessible for research purposes, in accordance with Regulation (EU) 2018/1488;

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- (b) deploy ready to use operational technology resulting from research and innovation in order to build an integrated Union HPC ecosystem, covering various aspects in the scientific and industrial value chain segments, including hardware, software, applications, services, interconnections and digital skills, with a high level of security and data protection;
- deploy and operate post-exascale infrastructure, including integration with quantum (c) computing technologies and research infrastructures for computing science and encourage the development within the Union of the hardware and software necessary for such deployment.
- 2. The actions under Specific Objective 1 shall be primarily implemented through the European High Performance Computing Joint Undertaking established by Regulation (EU) 2018/1488.

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# Specific Objective 2 - Artificial Intelligence

- 1. The financial contribution from the Union under Specific Objective 2 Artificial Intelligence shall pursue the following operational objectives:
  - (a) build up and strengthen core AI capacities and knowledge in the Union, including building up and strengthening quality data resources and corresponding exchange mechanisms, and libraries of algorithms, while guaranteeing a human-centric and inclusive approach that respects Union values;
  - (b) make the capacities referred to in point (a) accessible to businesses, especially SMEs and start-ups, as well as civil society, not-for-profit organisations, research institutions, universities and public administrations, in order to maximise their benefit to the European society and economy;
  - (c) reinforce and network AI testing and experimentation facilities in Member States;
  - (d) develop and reinforce commercial application and production systems in order to facilitate the integration of technologies in value chains and the development of innovative business models and to shorten the time required to pass from innovation to commercial exploitation and foster the uptake of AI-based solutions in areas of public interest and in society.

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AI-based solutions and data made available shall respect the principle of privacy and security by design and shall fully comply with data protection legislation.

2. The Commission, in accordance with Union and international law, including the Charter, and taking into account, inter alia, the recommendations of the High-Level Expert Group on Artificial Intelligence, shall set out ethical requirements in the work programmes under Specific Objective 2. Calls for proposals, calls for tenders and grant agreements shall include the relevant requirements set out in those work programmes.

Where appropriate, the Commission shall carry out checks to ensure compliance with those ethical requirements. Funding for actions which do not comply with the ethical requirements may be suspended, terminated or reduced at any time in accordance with the Financial Regulation.

3. The actions under Specific Objective 2 shall be implemented primarily through direct management.

The ethical and legal requirements referred to in this Article shall apply to all actions of Specific Objective 2, regardless of the method of implementation.

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# Specific Objective 3 - Cybersecurity and Trust

- 1. The financial contribution from the Union under Specific Objective 3 Cybersecurity and Trust shall pursue the following operational objectives:
  - (a) support the building-up and procurement of advanced cybersecurity equipment, tools and data infrastructures, together with Member States, in order to achieve a high common level of cybersecurity at European level, in full compliance with data protection legislation and fundamental rights, while ensuring the strategic autonomy of the Union;
  - (b) support the building-up and best use of European knowledge, capacity and skills related to cybersecurity and the sharing and mainstreaming of best practices;
  - (c) ensure a wide deployment of effective state-of-the-art cybersecurity solutions across the European economy, paying special attention to public authorities and SMEs;
  - (d) reinforce capabilities within Member States and private sector to help them comply with Directive (EU) 2016/1148 of the European Parliament and of the Council<sup>1</sup> including through measures supporting the uptake of cybersecurity best practices;

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Directive (EU) 2016/1148 of the European Parliament and of the Council of 6 July 2016 concerning measures for a high common level of security of network and information systems across the Union (OJ L 194, 19.7.2016, p. 1).

- (e) improve resilience against cyberattacks, contribute towards increasing risk-awareness and knowledge of cybersecurity processes, support public and private organisations in achieving basics levels of cybersecurity, for example by deploying end-to-end encryption of data and software updates;
- (f) enhance cooperation between the civil and defence spheres with regard to dual-use projects, services, competences and applications in cybersecurity, in accordance with a Regulation establishing the European Cybersecurity Industrial, Technology and Research Competence Centre and the Network of National Coordination Centres (the 'Cybersecurity Competence Centre Regulation').
- 2. The actions under Specific Objective 3 shall be implemented primarily through the European Cybersecurity Industrial, Technology and Research Competence Centre and the Network of National Coordination Centres in accordance with the Cybersecurity Competence Centre Regulation.

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# Specific Objective 4 - Advanced Digital Skills

- 1. The financial contribution from the Union under Specific Objective 4 Advanced Digital Skills shall support the development of advanced digital skills in areas covered by the Programme in order to contribute to increasing Europe's talent pool, bridge the digital divide and foster greater professionalism, especially with regard to high performance and cloud computing, big data analytics, cybersecurity, distributed ledger technologies (e.g. blockchain), quantum technologies, robotics, AI, while taking gender balance into account. In order to tackle skills mismatches and to encourage specialisation in digital technologies and applications, the financial contribution shall pursue the following operational objectives:
  - (a) support the design and delivery of high-quality, long-term training and courses, including blended learning, for students and for the workforce;
  - (b) support the design and delivery of high-quality, short-term training and courses for the workforce, in particular in SMEs and in the public sector;
  - (c) support high-quality on-the-job training and work placements for students, including traineeships, and the workforce, in particular in SMEs and in the public sector.
- 2. The actions under Specific Objective 4 shall be implemented primarily through direct management.

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Specific Objective 5 - Deployment and Best Use of Digital Capacities and Interoperability

- 1. The financial contribution from the Union under Specific Objective 5 Deployment and Best Use of Digital Capacities and Interoperability shall pursue the following operational objectives while bridging the digital divide:
  - (a) support the public sector and areas of public interest, such as health and care, education, judiciary, customs, transport, mobility, energy, environment, cultural and creative sectors, including relevant businesses established within the Union, to effectively deploy and access state-of-the-art digital technologies, such as HPC, AI and cybersecurity;
  - (b) deploy, operate and maintain trans-European interoperable state-of-the-art digital service infrastructures across the Union, including related services, in complementarity with national and regional actions;
  - (c) support the integration and use of trans-European digital service infrastructures and of agreed European digital standards in the public sector and in areas of public interest to facilitate cost-efficient implementation and interoperability;

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- (d) facilitate the development, update and use of solutions and frameworks by public administrations, businesses and citizens, including of open-source solutions and the re-use of interoperability solutions and frameworks;
- (e) offer the public sector and the Union industry, in particular SMEs, easy access to testing and piloting of digital technologies and increase the use thereof, including their cross-border use;
- (f) support the uptake by the public sector and the Union industry, in particular SMEs and start-ups, of advanced digital and related technologies, including in particular HPC, AI, cybersecurity, other leading edge and future technologies, such as distributed ledger technologies (e.g. blockchain);
- (g) support the design, testing, implementation, and deployment and maintenance of interoperable digital solutions, including digital government solutions, for public services at Union level which are delivered through a data-driven reusable solutions platform aiming to foster innovation and establish common frameworks in order to unleash the full potential of the public administrations' services for citizens and businesses;
- (h) ensure the continuous capacity at Union level to lead digital development, in addition to observing, analysing and adapting to fast-evolving digital trends, and share and mainstream best practices;

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- (i) support cooperation towards achieving a European ecosystem for trusted data sharing and digital infrastructures using, inter alia, services and applications based on distributed ledger technologies (e.g. blockchain), including support for interoperability and standardisation and by fostering the deployment of Union cross-border applications based on security and privacy by design, while complying with consumer and data protection legislation;
- (j) build up and strengthen the European Digital Innovation Hubs and their network.
- 2. The actions under Specific Objective 5 shall be implemented primarily through direct management.

### Budget

- 1. The financial envelope for the implementation of the Programme for the period from 1 January 2021 to 31 December 2027 shall be EUR 7 588 000 000 in current prices.
- 2. The indicative distribution of the amount referred to in paragraph 1 shall be:
  - (a) EUR 2 226 914 000 for Specific Objective 1 High Performance Computing;
  - (b) EUR 2 061 956 000 for Specific Objective 2 Artificial Intelligence;

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- (c) EUR 1 649 566 000 for Specific Objective 3 Cybersecurity and Trust;
- (d) EUR 577 347 000 for Specific Objective 4 Advanced Digital Skills;
- (e) EUR 1 072 217 000 for Specific Objective 5 Deployment and Best Use of Digital Capacities and Interoperability.
- 3. The amount referred to in paragraph 1 may also be used for technical and administrative assistance for the implementation of the Programme, such as preparatory, monitoring, control, audit and evaluation activities, including by using corporate information technology systems.
- 4. Budgetary commitments for actions extending over more than one financial year may be broken down over several years into annual instalments.
- 5. Resources allocated to Member States under shared management may, at the request of the Member State concerned, be transferred to the Programme, subject to the conditions set out in the relevant provision of the Common Provisions Regulation for 2021-2027, including for the purpose of complementing grants awarded to an action, up to 100 % of the total eligible cost where possible, without prejudice to the co-financing principle laid down in Article 190 of the Financial Regulation and to the State aid rules. The Commission shall implement those resources directly in accordance with point (a) of the first subparagraph of Article 62(1) of the Financial Regulation or indirectly in accordance with point (c) of that subparagraph. Those resources shall be used for the benefit of the Member State concerned.

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- 6. Where the Commission has not entered into a legal commitment under direct or indirect management for resources transferred in accordance with paragraph 5 of this Article, the corresponding uncommitted resources may be transferred back to one or more respective source programmes, at the request of the Member State concerned, in accordance with the conditions set out in the relevant provision of the Common Provisions Regulation for 2021-2027.
- 7. In accordance with point (a) of the second subparagraph of Article 193(2) of the Financial Regulation, in duly justified cases specified in the financing decision and for a limited period, actions supported under this Regulation and the underlying costs may be considered to be eligible as of 1 January 2021, even if they were implemented and incurred before the grant application was submitted.

#### Third countries associated to the Programme

- 1. The Programme shall be open to the participation of the following third countries through association or partial association, in accordance with the objectives laid down in Article 3:
  - (a) members of the European Free Trade Association, which are members of the European Economic Area, in accordance with the conditions laid down in the Agreement on the European Economic Area;

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- (b) acceding countries, candidate countries and potential candidates, 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 in similar agreements and in accordance with the specific conditions laid down in agreements between the Union and those countries;
- (c) European Neighbourhood Policy countries, 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 in similar agreements and in accordance with the specific conditions laid down in agreements between the Union and those countries;
- (d) other 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:
  - (i) ensures a fair balance as regards the contributions and benefits of the third country participating in the Union programmes;
  - (ii) lays down the conditions of participation in the programmes, including the calculation of financial contributions to individual programmes and their administrative costs;

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- (iii) does not confer on the third country any decision-making power in respect of the Union programme;
- (iv) guarantees the rights of the Union to ensure sound financial management and to protect its financial interests;

The contributions referred to in point (d)(ii) of the first subparagraph shall constitute assigned revenues in accordance with Article 21(5) of the Financial Regulation.

2. Association or partial association of third countries to the Programme shall be without prejudice to Article 12(5).

#### Article 11

### International cooperation

- 1. The Union may cooperate with third countries as referred to 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, especially those of the Western Balkans and Black Sea regions. Without prejudice to Article 18, related costs incurred shall not be covered by the Programme.
- 2. Cooperation with third countries and organisations as referred to in paragraph 1 of this Article with respect to Specific Objectives 1, 2 and 3 shall be subject to Article 12.

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#### Security

- 1. Actions carried out under the Programme shall comply with applicable security rules, including with Union and national law and in particular in relation to the protection of the classified information against unauthorised disclosure. In the case of actions carried out outside the Union using or generating classified information, in addition to compliance with above requirements such actions shall be subject to a security agreement concluded between the Union and the third country in which the activity is conducted.
- 2. Where appropriate, proposals and tenders to be submitted by applicants shall include a security self-assessment that identifies any security issues and details how those issues are to be addressed in order to comply with Union and national law.
- 3. Where appropriate, the Commission or the body entrusted with the implementation of the Programme shall carry out a security review of proposals for funding submitted by applicants that raise security issues.
- 4. Where appropriate, the actions carried out under the Programme shall comply with Commission Decision (EU, Euratom) 2015/444<sup>1</sup> and the rules implementing that Decision.

<sup>1</sup> Commission Decision (EU, Euratom) 2015/444 of 13 March 2015 on the security rules for protecting EU classified information (OJ L 72, 17.3.2015, p. 53).

- 5. The work programme may also provide that legal entities established in associated countries and legal entities that are established in the Union but are controlled from third countries are not eligible to participate in all or some actions under Specific Objective 3 for duly justified security reasons. In such cases, calls for proposals and calls for tenders shall be restricted to legal entities established or deemed to be established in Member States and controlled by Member States or by nationals of Member States.
- 6. If duly justified for security reasons, the work programme may also provide that legal entities established in associated countries and legal entities that are established in the Union but are controlled from third countries may be eligible to participate in all or some actions under Specific Objectives 1 and 2 only if they comply with the requirements to be fulfilled by those legal entities to guarantee the protection of the essential security interests of the Union and the Member States and to ensure the protection of classified documents information. Those requirements shall be set out in the work programme.
- 7. Where appropriate, the Commission or the body entrusted with the implementation of the Programme shall carry out security checks. Funding for actions which do not comply with the security requirements referred to in this Article may be suspended, terminated or reduced at any time, in accordance with the Financial Regulation.

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# Synergies with other Union programmes

- 1. The Programme shall enable synergies with other Union programmes, as described in Annex III, in particular through arrangements for complementary funding from Union programmes where the management arrangements allow it. Funding from other programmes may be deployed in sequence, in an alternating way, or through the combination of funds, including the joint funding of actions. The Commission shall ensure that the achievement of the specific objectives is not hampered when leveraging the complementary character of the Programme with other Union programmes.
- 2. The Commission shall ensure the overall consistency and complementarity of the Programme with the relevant policies and Union programmes in cooperation with the Member States. To that end, the Commission shall facilitate the setting up of appropriate mechanisms for coordination between relevant authorities and between such authorities and the Commission, and shall establish appropriate monitoring tools to systematically ensure synergies between the Programme and any relevant Union funding instruments. The arrangements referred to in paragraph 1 shall contribute to avoiding duplications and to maximising the positive impact of expenditure.

# Implementation and forms of Union funding

- 1. The Programme shall be implemented under direct management, in accordance with the Financial Regulation, or under indirect management by entrusting certain implementation tasks to the bodies referred to in point (c) of the first subparagraph of Article 62(1) of the Financial Regulation, in accordance with Articles 4 to 8 of this Regulation. Bodies entrusted with the implementation of the Programme may depart from the rules on participation and dissemination laid down in this Regulation only where such departure is provided for in the legal act that establishes those bodies or entrusts budget implementation tasks to them or, for the bodies referred to in points (c)(ii), (iii) or (v) of the first subparagraph of Article 62(1) of the Financial Regulation, where such departure is provided for in the contribution agreement and the specific operating needs of such bodies or the nature of the action so require.
- 2. The Programme may provide funding in any of the forms laid down in the Financial Regulation, including in particular through procurement as a primary form, or grants and prizes.

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Where the achievement of the objective of an action requires the procurement of innovative goods and services, grants may be awarded only to beneficiaries that are contracting authorities or contracting entities as defined in Directives 2014/24/EU<sup>1</sup> and 2014/25/EU<sup>2</sup> of the European Parliament and of the Council.

Where the supply of innovative goods or services that are not yet available on a large-scale commercial basis is necessary to achieve the objectives of an action, the contracting authority or the contracting entity may authorise the award of multiple contracts within the same procurement procedure.

For duly justified reasons of public security, the contracting authority or the contracting entity may require that the place of performance of the contract be situated within the territory of the Union.

The Programme may also provide financing in the form of financial instruments within blending operations.

3. Contributions to a mutual insurance mechanism may cover the risk associated with the recovery of funds due by recipients and shall be considered to be a sufficient guarantee under the Financial Regulation. Article 37 of Regulation (EU) 2021/... + shall apply.

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<sup>1</sup> Directive 2014/24/EU of the European Parliament and of the Council of 26 February 2014 on public procurement and repealing Directive 2004/18/EC (OJ L 94, 28.3.2014, p. 65).

<sup>2</sup> Directive 2014/25/EU of the European Parliament and of the Council of 26 February 2014 on procurement by entities operating in the water, energy, transport and postal services sectors and repealing Directive 2004/17/EC (OJ L 94, 28.3.2014, p. 243).

OJ: Please insert in the text the number of the Regulation contained in document ST 7064/2020 (2018/0224COD)).

# European Partnerships

The Programme may be implemented through European Partnerships and within the strategic planning between the Commission and the Member States, as referred to in Article 6 of Regulation (EU) 2021/...<sup>+</sup>. Such implementation may include contributions to existing or new public-private partnerships in the form of joint undertakings established under Article 187 TFEU. For those contributions, the provisions of that Regulation relating to European Partnerships shall apply.

#### Article 16

#### European Digital Innovation Hubs

1. An initial network of European Digital Innovation Hubs shall be established during the first year of the implementation of the Programme. That initial network shall consist of at least one hub for each Member State, unless there is no candidate in a given Member State that can be designated and selected in accordance with paragraphs 2 and 3.

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OJ: Please insert in the text the number of the Regulation contained in document ST 7064/2020 (2018/0224COD)).

- 2. For the purpose of establishing the network referred to in paragraph 1 of this Article, each Member State shall designate candidate entities in accordance with its national procedures, administrative and institutional structures through an open and competitive process, on the basis of the following criteria:
  - (a) the appropriate competences related to the activities of the European Digital Innovation Hubs referred to in paragraph 6 of this Article and competences in one or several areas identified in Article 3(2);
  - (b) the appropriate management capacity, staff and infrastructure necessary to carry out the activities referred to in paragraph 6 of this Article;
  - (c) the operational and legal means to apply the administrative, contractual and financial management rules laid down at Union level; and
  - (d) the appropriate financial viability corresponding to the level of Union funds it will be called upon to manage and demonstrated, where appropriate, through guarantees issued preferably by a public authority.

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3. The Commission shall, by means of implementing acts, adopt decisions on the selection of entities forming the initial network. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 31(2). The Commission shall take the utmost account of the opinion of each Member State before selecting a European Digital Innovation Hub in its territory.

The entities shall be selected by the Commission from candidate entities designated by Member States on the basis of the criteria referred to in paragraph 2 of this Article and the following additional criteria:

- (a) the budget available for the financing of the initial network; and
- (b) the need for the initial network to ensure coverage of the needs of industry and areas of public interest and to ensure comprehensive and balanced geographical coverage to improve convergence between Member States benefiting from the Cohesion Fund established by the ERDF-CF Regulation for 2021-2027 and the other Member States, for example to bridge the digital divide in geographical terms.
- 4. If necessary, following an open and competitive process, the Commission shall, by means of implementing acts, adopt decisions on the selection of entities forming additional European Digital Innovation Hubs. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 31(2).

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The Commission shall take the utmost account of the opinion of the Member State before selecting an additional European Digital Innovation Hub in its territory.

The Commission shall select additional European Innovation Hubs in such a way to ensure a broad geographical coverage across Europe. The number of entities of the network shall be sufficient to meet the demand for the hubs' services in given Member States. To address the specific constraints faced by the Union's outermost regions, specific entities may be nominated to cover the needs of such regions.

- 5. European Digital Innovation Hubs shall have substantial overall autonomy to lay down their organisation, composition, and working methods.
- 6. With respect to the implementation of the Programme, European Digital Innovation Hubs shall perform the following activities to the benefit of the Union industry, in particular SMEs and mid-caps, as well as the public sector:
  - (a) raising awareness and providing or ensuring access to digital transformation expertise, know-how and services, including testing and experimentation facilities;
  - (b) assisting businesses, especially SMEs and start-ups, organisations and public administrations to become more competitive and to improve their business models through use of new technologies covered by the Programme;

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- (c) facilitating the transfer of expertise and know-how between regions, in particular by matching SMEs, start-ups and mid-caps established in one region with European Digital Innovation Hubs established in other regions that are best suited to providing relevant services; encouraging exchanges of skills and knowledge, joint initiatives and good practices;
- (d) providing or ensuring access to thematic services, in particular services related to AI,
   HPC and cybersecurity and trust to the public administrations, public sector organisations, SMEs or mid-caps;
- (e) providing financial support to third parties under the Specific Objective 4.

For the purposes of point (d) of the first subparagraph, European Digital Innovation Hubs may specialise in specific thematic services and shall not be required to provide all thematic services or to provide those services to all categories of entities referred to in this paragraph.

7. Where a European Digital Innovation Hub receives funding under the Programme, that funding shall be in the form of grants.

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# **Chapter II**

# **Eligibility**

#### Article 17

# Eligible actions

- 1. Only actions contributing to the achievement of the objectives laid down in Articles 3 to 8 shall be eligible for funding.
- 2. The eligibility criteria for actions to be carried out under the Programme shall be set out in the work programmes.

#### Article 18

# Eligible legal entities

- 1. The following legal entities shall be eligible to participate in the Programme:
  - (a) legal entities established in:
    - (i) a Member State or an overseas country or territory linked to a Member State;
    - (ii) a third country associated to the Programme in accordance with Articles 10 and 12;

- (b) any other legal entity created under Union law and any international organisation of European interest.
- 2. By way of derogation from paragraph 1, legal entities established in a third country which is not associated to the Programme shall be eligible to participate in specific actions where their participation is necessary to achieve the objectives of the Programme. Such entities shall bear the cost of their participation unless specified otherwise in the work programmes.
- 3. Natural persons shall not be eligible to participate in the Programme, except for grants awarded under Specific Objective 4.
- 4. The work programme referred to in Article 24 may provide that participation is limited to beneficiaries established only in Member States, or to beneficiaries established in Member States and specific associated countries or other third countries, where there are security reasons for such limitation or where the actions directly relate to the Union's strategic autonomy. Any limitation of the participation of legal entities established in associated countries shall comply with the terms and conditions of the relevant agreement.

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# **Chapter III**

# Grants

#### Article 19

#### Grants

Grants under the Programme shall be awarded and managed in accordance with Title VIII of the Financial Regulation and may cover up to 100 % of the eligible costs, without prejudice to the co-financing principle as laid down in Article 190 of the Financial Regulation. Such grants shall be awarded and managed as specified for each specific objective.

# Article 20

#### Award criteria

- 1. The award criteria shall be set out in the work programmes and in the calls for proposals, taking into account at least the following elements:
  - the maturity of the action in the project development; (a)
  - (b) the soundness of the implementation plan proposed;
  - the need to overcome financial obstacles such as a lack of market finance. (c)

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- 2. Where applicable, the award criteria, shall take into account the following elements:
  - (a) the stimulating effect of Union support on public and private investment;
  - (b) the expected economic, social, climate and environmental impact;
  - (c) accessibility and ease of access to respective services;
  - (d) a trans-European dimension;
  - (e) a balanced geographical distribution across the Union, including bridging the geographical digital divide, including the outermost regions;
  - (f) the presence of a long-term sustainability plan;
  - (g) the freedom to re-use and adapt the projects' results;
  - (h) synergies and complementarities with other Union programmes.

#### **Evaluation**

In accordance with Article 150 of the Financial Regulation, applications for grants shall be evaluated by an evaluation committee, which may be fully or partially composed of external independent experts.

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# **Chapter IV**

# Blending operations and other combined funding

#### Article 22

### Blending operations

Blending operations under the Programme shall be carried out in accordance with Regulation (EU) 2021/...+ and Title X of the Financial Regulation.

### Article 23

#### Cumulative and alternative funding

1. An action that has received a contribution from another Union programme, including funds under shared management, may also receive a contribution under the Programme, provided that the contributions do not cover the same costs. The rules of the relevant Union programme shall apply to the corresponding contribution to the action. The cumulative funding shall not exceed the total eligible costs of the action. The support from the different Union programmes may be calculated on a pro-rata basis in accordance with the documents setting out the conditions for support.

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OJ: Please insert in the text the number of the Regulation contained in document PE-CONS 74/20 (2020/0108(COD)).

- 2. In order to be awarded a Seal of Excellence certification under the Programme, actions shall comply with all of the following conditions:
  - (a) they have been assessed in a call for proposals under the Programme;
  - (b) they comply with the minimum quality requirements of that call for proposals;
  - (c) they are not financed under that call for proposals due to budgetary constraints.

In accordance with the relevant provisions of the Common Provisions Regulation for 2021-2027, the ERDF or ESF+ may support proposals submitted to a call for proposals under the Programme, which were awarded a Seal of Excellence in accordance with the Programme.

# **Chapter V**

# Programming, monitoring, evaluation and control

#### Article 24

# Work programmes

1. The Programme shall be implemented by means of work programmes as referred to in Article 110 of the Financial Regulation.

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- 2. Work programmes shall in principle be adopted as multiannual programmes, typically every two years, and cover the general objectives of the Programme as well as one or more specific objectives. If justified by specific implementation needs, they may also be adopted as annual programmes.
- 3. Work programmes shall be consistent with the specific objectives of the Programme, as set out in Articles 4 to 8, while also taking into account the areas and types of activities set out in Annex I. They shall ensure that the actions thereby supported do not crowd out private financing.
- 4. In order to reflect technological change and market developments, the Commission is empowered to adopt delegated acts in accordance with Article 30 to amend Annex I with regard to the activities set out therein in a manner consistent with the specific objectives of the Programme, as set out in Articles 4 to 8.
- 5. Work programmes shall set out, where applicable, the overall amount reserved for blending operations.
- 6. The Commission shall, by means of implementing acts, adopt the work programmes for Specific Objectives 2, 4 and 5 and for possible other actions under direct management for Specific Objectives 1 and 3. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 31(2).

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#### Monitoring and reporting

- 1. Measurable indicators to monitor the implementation and to report on the progress of the Programme towards the achievement of the specific objectives laid down in Article 3(2) are set out in Annex II.
- 2. The Commission shall establish a methodology to provide for indicators for accurately assessing progress made towards the achievement of the general objectives laid down in Article 3(1).
- 3. In order to ensure the effective assessment of the Programme's progress towards the achievement of its objectives, the Commission is empowered to adopt delegated acts in accordance with Article 30 to amend Annex II with regard to the measurable indicators, where considered to be necessary, as well as to supplement this Regulation with provisions on the establishment of a monitoring and evaluation framework.
- 4. The performance reporting system shall ensure that data for monitoring the implementation and the results of the programme are collected efficiently, effectively, and in a timely manner so that the results are suitable for an in-depth analysis of the progress achieved and the difficulties encountered.

To that end, proportionate reporting requirements shall be imposed on recipients of Union funds and, where necessary, on Member States.

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5. Official EU statistics, such as regular ICT statistical surveys, shall be used to their maximum as context indicators. The Commission shall consult national statistical institutes and shall involve them, together with Eurostat, in the initial design and subsequent development of statistical indicators used for monitoring the implementation of the Programme and progress made with regard to digital transformation.

#### Article 26

#### Evaluation of the Programme

- 1. Evaluations of the Programme shall be carried out so that they feed into the decision-making process in a timely manner. They shall contain a qualitative assessment of the progress made towards the achievement of the general objectives of the Programme laid down in Article 3.
- 2. In addition to regularly monitoring the Programme, the Commission shall conduct an interim evaluation of the Programme which shall be carried out once there is sufficient information available about its implementation, but no later than four years after the start of the implementation of the Programme. The interim evaluation shall form the basis for adjusting the implementation of the Programme, as appropriate, also taking into account new relevant technological developments.

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- 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, the Commission shall carry out a final evaluation of the Programme.
  - The final evaluation shall assess long-term impacts of the Programme and its sustainability.
- 4. The evaluation reporting system shall ensure that recipients of Union funds collect data for programme evaluation in an efficient, effective and timely manner and at the appropriate level of granularity.
- 5. The Commission shall submit the interim evaluation referred to in paragraph 2 and the final evaluation referred to in paragraph 3 to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions.

#### Audits

1. Audits on the use of the Union contribution carried out by persons or entities, including by others than those mandated by the Union institutions, bodies, offices or agencies shall form the basis of the overall assurance pursuant to Article 127 of the Financial Regulation.

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- 2. The control system shall ensure an appropriate balance between trust and control, taking into account administrative costs and other costs related to control at all levels.
- 3. Audits of expenditure shall be carried out in a consistent manner in accordance with the principles of economy, efficiency and effectiveness.
- 4. As part of the control system, the audit strategy may be based on the financial audit of a representative sample of expenditure. That representative sample shall be complemented by a selection based on an assessment of the risks related to expenditure.
- 5. Actions that receive cumulative funding from different Union programmes shall be audited only once, covering all programmes concerned and their respective applicable rules.

# Protection of the financial interests of the Union

Where a third country participates in the Programme by means of a decision adopted pursuant to an international agreement or on the basis of any other legal instrument, the third country shall grant the necessary rights and access required for the authorising officer responsible, OLAF and the Court of Auditors to comprehensively exercise their respective competences. In the case of OLAF, such rights shall include the right to carry out investigations, including on-the-spot checks and inspections, as provided for in Regulation (EU, Euratom) No 883/2013.

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# Information, communication, publicity, policy support and dissemination

- 1. The recipients of Union funding shall acknowledge the origin of those funds and ensure the visibility of the Union funding, in particular when promoting the actions and their results, by providing coherent, effective and proportionate targeted information to multiple audiences, including the media and the public.
- 2. The Commission shall implement information and communication actions relating to the Programme, to actions taken pursuant to the Programme and to the results obtained. The Commission shall also ensure that integrated information is provided and that it reaches potential applicants to Union funding in the digital sector.
  - Financial resources allocated to the Programme shall also contribute to the corporate communication of the political priorities of the Union, insofar as those priorities are related to the objectives referred to in Article 3.
- 3. The Programme shall provide support to policy development, outreach, awareness-raising and the dissemination of actions related to the Programme and shall promote cooperation and the exchange of experience in the areas referred to in Articles 4 to 8.

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# **Chapter VI**

# Delegated acts, implementing acts, transitional and final provisions

#### Article 30

# Exercise of the delegation

- 1. The power to adopt delegated acts is conferred on the Commission subject to the conditions laid down in this Article.
- 2. The power to adopt delegated acts referred to in Article 24(4) and Article 25(3) shall be conferred on the Commission until 31 December 2028.
- 3. The delegation of power referred to in Article 24(4) and Article 25(3) may be revoked at any time by the European Parliament or by the Council. A decision to revoke shall put an end to the delegation of the power specified in that decision. It shall take effect the day following the publication of the decision in the Official Journal of the European Union or at a later date specified therein. It shall not affect the validity of any delegated acts already in force.

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- 4. Before adopting a delegated act, the Commission shall consult experts designated by each Member State in accordance with the principles laid down in the Interinstitutional Agreement of 13 April 2016 on Better Law-Making.
- 5. As soon as it adopts a delegated act, the Commission shall notify it simultaneously to the European Parliament and to the Council.
- 6. A delegated act adopted pursuant to Article 24(4) and Article 25(3) shall only enter into force if no objection has been expressed either by the European Parliament or the Council within a period of two months of notification of that act to the European Parliament and the Council or if, before the expiry of that period, the European Parliament and the Council have both informed the Commission that they will not object. That period shall be extended by two months at the initiative of the European Parliament or of the Council.

# Committee procedure

- The Commission shall be assisted by the Digital Europe Programme Coordination
   Committee. That committee shall be a committee within the meaning of Regulation (EU)

   No 182/2011.
- 2. Where reference is made to this paragraph, Article 5 of Regulation (EU) No 182/2011 shall apply.

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# Repeal

Decision (EU) 2015/2240 is repealed with effect from 1 January 2021.

#### Article 33

#### Transitional provisions

- 1. This Regulation shall not affect the continuation of or modification of actions inititated pursuant to Regulation (EU) No 283/2014 of the European Parliament and of the Council<sup>1</sup> and Decision (EU) 2015/2240, which shall continue to apply to those actions until their closure.
- 2. The financial envelope for the Programme may also cover the technical and administrative assistance expenses necessary to ensure the transition between the Programme and the measures adopted pursuant to Regulation (EU) No 283/2014 and Decision (EU) 2015/2240.
- 3. If necessary, appropriations may be entered in the Union budget beyond 2027 to cover the expenses provided for in Article 9(4), to enable the management of actions not completed by 31 December 2027.

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Regulation (EU) No 283/2014 of the European Parliament and of the Council of 11 March 2014 on guidelines for trans-European networks in the area of telecommunications infrastructure and repealing Decision No 1336/97/EC (OJ L 86, 21.3.2014, p. 14).

# Entry into force and application

This Regulation shall enter into	force on the day of its	publication in the	Official Journal of the
European Union.			

It shall apply from 1 January 2021.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels,

For the European Parliament
The President

For the Council
The President

# **ANNEX I**

#### ACTIONS

Technical description of the Programme: scope of actions

The initial and, where appropriate, subsequent actions of the Programme shall be implemented in accordance with the following technical description:

Specific Objective 1 - High Performance Computing

The Programme shall implement the European strategy on HPC by supporting a full Union ecosystem that provides the necessary HPC and data capabilities for Europe to compete globally. The strategy aims to deploy a world-class HPC and data infrastructure with exascale capabilities between 2022 and 2023, and with post-exascale facilities between 2026 and 2027 to endow the Union with its own independent and competitive HPC technology supply, achieve excellence in HPC applications and widen the availability and use of HPC.

Initial and, where appropriate, subsequent actions under this objective shall include:

- 1. A joint procurement framework enabling a co-designed approach for the acquisition of an integrated network of world-class HPC, including the acquisition of exascale supercomputing and data infrastructure. That network will be easily accessible to public and private users, in particular SMEs, irrespective of the Member State in which they are located, and will be easily accessible for research purposes, in accordance with Regulation (EU) 2018/1488.
- 2. A joint procurement framework for the acquisition of post-exascale supercomputing infrastructure, including the integration with quantum computing technologies.
- 3. Coordination and adequate financial resources at Union level to support the development, procurement and operation of such infrastructure.
- 4. Networking of Member States HPC and data capacities and support for Member States wishing to upgrade or acquire new HPC capacities.
- 5. Networking of national High Performance Computing competence centres, at least one per Member State and associated with their national supercomputing centres to provide HPC services to industry, in particular SMEs, the academic community and public administrations.

6. The deployment of ready to use operational technology, in particular supercomputing as a service resulting from research and innovation to build an integrated European HPC ecosystem, covering all segments of the scientific and industrial value chain (hardware, software, applications, services, interconnections and advanced digital skills).

# Specific Objective 2 - Artificial Intelligence

The Programme shall build up and strengthen core AI capacities in Europe, including data resources and repositories of algorithms, and make them accessible to all public administrations and businesses, and shall reinforce and network existing and newly established AI testing and experimentation facilities in Member States.

Initial and, where appropriate, subsequent actions under this objective shall include:

1. The creation of common European data spaces that make accessible data across Europe, including information gathered from the re-use of public sector information, and become a data input source for AI solutions. The spaces should be open to the public and private sectors. For increased usage, data within a space are to be made interoperable, in particular through data formats that are open, machine readable, standardised and documented, both in the interactions between the public and private sectors, within sectors and across sectors (semantic interoperability).

- 2. The development of common European libraries or interfaces to libraries of algorithms that make them easily accessible to all potential European users on the basis of fair, reasonable and non-discriminatory terms. Businesses and the public sector are to be able to identify and acquire whichever solution would work best for their needs.
- 3. Co-investment with Member States in world class reference facilities for testing and experimentation in real setting focusing on the applications of AI in essential sectors such as health, earth or environment monitoring, transport and mobility, security, manufacturing and finance, as well as in other areas of public interest. Those facilities are to be open to all actors across Europe and connected to the network of European Digital Innovation Hubs. Those facilities are to be equipped with or connected to large computing and data handling facilities, as well as latest AI technologies, including emerging areas such as neuromorphic computing, deep learning and robotics.

# Specific Objective 3 - Cybersecurity and Trust

The Programme shall stimulate the reinforcement, building and acquisition of essential capacities to secure the Union's digital economy, society and democracy by reinforcing the Union cybersecurity industrial potential and competitiveness, as well as by improving capabilities of both the private and public sectors to protect citizens and businesses from cyber threats, including by supporting the implementation of Directive (EU) 2016/1148.

Initial and, where appropriate, subsequent actions under this objective shall include:

- 1. Co-investment with Member States in advanced cybersecurity equipment, infrastructures and know-how that are essential to protect critical infrastructures and the Digital Single Market at large. Such co-investment could include investments in quantum facilities and data resources for cybersecurity, situational awareness in cyberspace as well as other tools to be made available to public and private sector across Europe.
- 2. Scaling up existing technological capacities and networking the competence centres in Member States and making sure that those capacities respond to public sector and industry needs, including through products and services that reinforce cybersecurity and trust within the Digital Single Market.
- 3. Ensuring wide deployment of effective state-of-the-art cybersecurity and trust solutions across the Member States. Such deployment includes strengthening the security and safety of products, from their design to their commercialisation.
- 4. Support closing the cybersecurity skills gap by, for example, aligning cybersecurity skills programmes, adapting them to specific sectorial needs and facilitating access to targeted specialised training.

# Specific Objective 4 - Advanced digital skills

The Programme shall support access to advanced digital skills and training opportunities on those skills, in particular in HPC, big data analytics, AI, distributed ledger technologies (e.g. blockchain) and cybersecurity for the current and future workforce by offering, inter alia, students, recent graduates, current workers and citizens of all ages in need of upskilling, wherever they are situated, with the means to acquire and develop those skills.

Initial and, where appropriate, subsequent actions under this objective shall include:

- 1. Access to on-the-job training by taking part in traineeships in competence centres and businesses that deploy advanced digital technologies.
- 2. Access to courses in advanced digital technologies which are to be offered by higher education institutions, research institutions and industry professional certification bodies in cooperation with the bodies involved in the Programme (topics are expected to include AI, cybersecurity, distributed ledger technologies (e.g. blockchain), HPC and quantum technologies).
- 3. Participation in short-term, specialised professional training that have been pre-certified, for example in the area of cybersecurity.

Interventions shall focus on advanced digital skills related to specific technologies.

The European Digital Innovation Hubs provided for in Article 16 shall act as facilitators for training opportunities, liaising with education and training providers.

Specific Objective 5 - Deployment and Best Use of Digital Capacities and Interoperability Projects serving the deployment and the best use of digital capacities or interoperability shall constitute projects of common interest.

- I. Initial and, where appropriate, subsequent actions under this objective related to the digital transformation of areas of public interest shall include:
  - 1. Modernisation of public administrations:
    - 1.1. Support Member States in the implementation of the principles of the Tallinn Declaration on eGovernment in all policy domains, creating, where necessary, the necessary registries and interconnecting them in full compliance with Regulation (EU) 2016/679.
    - 1.2. Support the design, piloting, deployment, maintenance, evolution and promotion of a coherent eco-system of cross-border digital services infrastructure and facilitate seamless end-to-end, secure, interoperable, multi-lingual cross-border or cross-sector solutions and common frameworks within public administrations. Methodologies for assessing the impact and benefits shall also be included.

- 1.3. Support the assessment, updating and promotion of existing common specifications and standards as well as the development, establishment and promotion of new common specifications, open specifications and standards through the Union's standardisation platforms and in cooperation with European or international standardisation organisations as appropriate.
- 1.4. Cooperate towards a European ecosystem for trusted infrastructures, possibly using services and applications based on distributed ledger technologies (e.g. blockchain), including support for interoperability and standardisation and fostering the deployment of Union cross-border applications.

#### 2. Health

2.1. Ensure that citizens have control over their personal data and can access, share, use, and manage their personal health data across borders securely and in a way that guarantees their privacy, irrespective of their location or the location of the data, in accordance with applicable data protection legislation. Complete the eHealth digital service infrastructure and extend it by new digital services in relation to disease prevention, health and care and support the deployment of such services, building on a broad support by Union activities and Member States, in particular in the eHealth network according to Article 14 of Directive 2011/24/EU of the European Parliament and of the Council<sup>1</sup>.

Directive 2011/24/EU of the European Parliament and of the Council of 9 March 2011 on the application of patients' rights in cross-border healthcare (OJ L 88, 4.4.2011, p. 45).

- 2.2. Make available better data for research, disease prevention and personalised health and care. Ensure that European health researchers and clinical practitioners have access to the necessary scale of resources (shared data spaces, including data storage and computing, expertise and analytical capacities) to achieve breakthroughs in major as well as in rare diseases. The target is to ensure a population-based cohort of at least 10 million citizens.
- 2.3. Make digital tools available for citizen empowerment and for person-centred care by supporting the exchange of innovative and best practices in digital health, capacity building and technical assistance, in particular for cybersecurity, AI and HPC.

# 3. Judiciary

Enable seamless and secure cross-border electronic communication within the judiciary and between the judiciary and other competent bodies in the area of civil and criminal justice. Improve access to justice and to legal information and procedures for citizens, businesses, legal practitioners and members of the judiciary by providing semantically interoperable interconnections to databases and registers as well as by facilitating online out-of-court dispute resolution. Promote the development and implementation of innovative technologies for courts and the legal profession based, inter alia, on AI solutions which are likely to streamline and speed-up procedures (for example, 'legal tech' applications).

# 4. Transport, mobility, energy and environment

Deploy decentralised solutions and infrastructures required for large-scale digital applications such as connected automated driving, unmanned aerial vehicles, smart mobility concepts, smart cities, smart rural areas or outermost regions, in support of transport, energy and environmental policies and in coordination with the actions for digitalising the transport and energy sectors under Connecting Europe Facility.

#### 5. Education, culture and media

Provide creators, creative industry and cultural sectors in Europe with access to the latest digital technologies from AI to advanced computing. Exploit the European cultural heritage, including Europeana, to support education and research and to promote cultural diversity, social cohesion and European society. Support the uptake of digital technologies in education, as well as private and publicly funded cultural institutions.

6. Other actions supporting the Digital Single Market

Support actions such as fostering digital and media literacy and raising awareness among minors, parents and teachers regarding risks minors may encounter online and ways to protect them, tackling cyberbullying and the dissemination of child sexual abuse material online by supporting a pan-European network of Safer Internet Centres. Promote measures aimed at detecting and combatting intentional disinformation spread, thereby increasing the Union's overall resilience; support a Union observatory for the digital platform economy as well as studies and outreach activities.

The actions referred to in points 1 to 6 may be partly supported by European Digital Innovation Hubs through the same capacities developed to assist industry with their digital transformation (see point II).

II Initial and, where appropriate, subsequent actions under this objective related to the digital transformation of industry shall include:

Contribution to the upscaling of the network of European Digital Innovation Hubs to ensure access to digital capacities for any business, in particular SMEs, in any region across the Union. Such contribution includes:

 Access to common European data spaces and AI platforms and European HPC facilities for data analytics and compute intensive applications

- 2. Access to AI large scale testing facilities and to advanced cybersecurity tools
- 3. Access to advanced digital skills

The actions referred to in the first subparagraph will be coordinated with, and will complement, the innovation actions in digital technologies supported, in particular, under Horizon Europe, as well as investments in European Digital Innovation Hubs supported under the ERDF. Grants for market replication may also be provided from the Programme, in compliance with state aid rules. Support for access to financing for further steps in their digital transformation will be achieved with financial instruments making use of the InvestEU Programme.

# **ANNEX II**

# MEASURABLE INDICATORS TO MONITOR THE IMPLEMENTATION AND TO REPORT ON THE PROGRESS OF THE PROGRAMME TOWARDS THE ACHIEVEMENT OF ITS SPECIFIC OBJECTIVES

Specific Objective 1 - High Performance Computing

- 1.1 The number of jointly procured HPC infrastructures
- 1.2 The usage of the exascale and post-exascale computers in total and by various stakeholder groups (universities, SMEs etc.)

Specific Objective 2 - Artificial Intelligence

- 2.1 The total amount co-invested in testing and experimentation facilities
- 2.2 The usage of common European libraries or interfaces to libraries of algorithms, usage of common European data spaces and usage of testing and experimentation facilities related to actions under this Regulation
- 2.3 The number of cases for which organisations decide to integrate AI in their products, processes or services, as a result of the Programme

# Specific Objective 3 - Cybersecurity and Trust

- 3.1 The number of cybersecurity infrastructure, or tools, or both jointly procured<sup>1</sup>.
- 3.2 The number of users and user communities getting access to European cybersecurity facilities

# Specific Objective 4 - Advanced Digital Skills

- 4.1 The number of persons who have received training to acquire advanced digital skills supported by the Programme
- 4.2 The number of enterprises, in particular SMEs, having difficulty recruiting ICT specialists
- 4.3 The number of people reporting an improved employment situation after the end of the training supported by the Programme

'Infrastructures' would typically mean a research or experimentation infrastructure such as

The Cybersecurity Competence Centre Regulation allows all sorts of procurement, not only joint procurement: by the European Cybersecurity Industrial, Technology and Research Competence Centre as a Union body; by others with the help of a Union grant; or by several parties.

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testbeds, cyber ranges or computing/communication facilities. This could be either data and/or software only, or involve physical facilities.

'Tools' would typically mean a physical device and/or software/algorithm used to increase the security of ICT systems. Examples would be intrusion detection software or data resources allowing situational awareness of critical infrastructures.

The Cybersecurity Competence Centre Regulation allows all sorts of procurement, not only

Specific Objective 5 – Deployment and Best Use of Digital Capacity and Interoperability

- 5.1 The take-up of digital public services
- 5.2 Enterprises with high digital intensity score
- 5.3 The extent of the alignment of the National Interoperability Framework with the European Interoperability Framework
- 5.4 The number of businesses and public sector entities which have used the services of European Digital Innovation Hubs

# ANNEX III

#### SYNERGIES WITH OTHER UNION PROGRAMMES

- 1. Synergies with Horizon Europe shall ensure that:
  - (a) although several thematic areas addressed by the Programme and Horizon Europe converge, the type of actions to be supported, their expected outputs and their intervention logic are different and complementary;
  - (b) Horizon Europe will provide extensive support for research, technological development, demonstration, piloting, proof-of-concept, testing and innovation including pre-commercial deployment of innovative digital technologies, in particular through:
    - (i) a dedicated budget in the pillar 'Global Challenges and European Industrial Competitiveness' for the cluster 'Digital, Industry and Space' to develop enabling technologies (AI and robotics, Next Generation Internet, HPC and Big Data, key digital technologies, combining digital with other technologies);
    - (ii) support to research infrastructures under the pillar 'Excellent Science';
    - (iii) the integration of digital across all the Global Challenges (health, security, energy and mobility, climate, etc.); and

- (iv) support for scale-up breakthrough innovations under the pillar 'Innovative Europe' (many of which will combine digital and physical technologies);
- (c) the Programme will invest in:
  - (i) digital capacity building in HPC, AI, distributed ledger technologies (e.g. blockchain), cybersecurity and advanced digital skills; and
  - (ii) national, regional and local deployment within an Union framework of digital capacities and the latest digital technologies in areas of public interest (such as health, public administration, justice and education) or market failure (such as the digitisation of businesses, in particular SMEs);
- (d) the capacities and infrastructures of the Programme are made available to the research and innovation community, including for actions supported through Horizon Europe, such as testing, experimentation and demonstrations across all sectors and disciplines;
- (e) as the development of novel digital technologies matures through Horizon Europe, those technologies will progressively be taken up and deployed by the Programme;

- (f) Horizon Europe initiatives for the development of skills and competencies curricula, including those delivered at the co-location centres of the EIT's KICs, are complemented by capacity-building in advanced digital skills supported by the Programme;
- (g) strong coordination mechanisms for programming and implementation are put in place, aligning all procedures for both programmes to the extent possible. Their governance structures will involve all Commission concerned services.
- 2. Synergies with Union programmes under shared management, including the ERDF, ESF+, the European Agricultural Fund for Rural Development and the European Maritime, Fisheries and Acquaculture Fund, shall ensure that:
  - (a) arrangements for complementary funding from Union programmes under shared management and the Programme are used to support actions providing a bridge between smart specialisations and support to the digital transformation of the European economy and society;

- (b) the ERDF contributes to the development and strengthening of regional and local innovation ecosystems, industrial transformation, as well as the digital transformation of society and of public administrations, thereby also stimulating the implementation of the Tallinn Declaration on eGovernment. This includes support for the digital transformation of industry and the take-up of results, as well as the rolling out of novel technologies and innovative solutions. The Programme will complement and support the trans-national networking and mapping of digital capacities to make them accessible to SMEs and to make interoperable IT solutions accessible in all Union regions.
- 3. Synergies with the Connecting Europe Facility shall ensure that:
  - (a) the Programme focuses on large-scale digital capacity and infrastructure building in the areas of HPC, AI, cybersecurity and advanced digital skills, aiming at the wide uptake and deployment across Europe of critical existing or tested innovative digital solutions within a Union framework in areas of public interest or market failure. The Programme is mainly to be implemented through coordinated and strategic investments with Member States, in particular through joint public procurement, in digital capacities to be shared across Europe and in Union-wide actions that support interoperability and standardisation as part of developing the Digital Single Market;

- (b) the capacities and infrastructures of the Programme are to be made available to the deployment of innovative new technologies and solutions in the field of mobility and transport. The Connecting Europe Facility is to support the roll-out and deployment of innovative new technologies and solutions in the field of mobility and transport;
- (c) coordination mechanisms are to be established, in particular through appropriate governance structures.
- 4. Synergies with InvestEU Programme shall ensure that:
  - (a) support through market-based financing, including pursuing policy objectives under the Programme is provided under Regulation (EU) 2021/...+; such market-based financing might be combined with the grant support;
  - (b) access to financial instruments by businesses is facilitated by the support provided by European Digital Innovation Hubs.
- 5. Synergies with Erasmus+ shall ensure that:
  - (a) the Programme supports the development and acquisition of the advanced digital skills needed for the deployment of cutting-edge technologies such as AI or HPC, in cooperation with relevant industries;

<sup>+</sup> OJ: Please insert in the text the number of the Regulation contained in document PE-CONS 74/20 (2020/0108(COD)).

- (b) the advanced skills part of Erasmus+ complements the interventions of the Programme, addressing the acquisition of skills in all domains and at all levels through mobility experiences.
- 6. Synergies with Creative Europe established by a Regulation of the European Parliament and of the Council shall ensure that:
  - (a) the MEDIA strand of Creative Europe supports initiatives that can generate real impact for cultural and creative sectors across Europe, helping them adapt to the digital transformation;
  - (b) the Programme, inter alia, provides creators, creative industry and cultural sector in Europe with access to latest digital technologies from AI to advanced computing.
- 7. Synergies with other Union programmes and initiatives on competencies and skills shall be ensured.