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#### **INFORMATION NOTE**

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From: General Secretariat of the Council

To: Permanent Representatives Committee/Council

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Subject: Proposal for a REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing Horizon Europe – the Framework Programme for Research and Innovation, laying down its rules for participation and dissemination

- Outcome of the European Parliament's first reading  
(Strasbourg, 15 to 18 April 2019)

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#### **I. INTRODUCTION**

The rapporteur, Dan NICA (S&D, RO), presented a report on the proposal for a Regulation on behalf of the Committee on Industry, Research and Energy. The report contained one amendment to the proposal (amendment 203).

In addition, the Greens/EFA political group tabled one amendment (amendment 212) and GUE/NGL tabled eight amendments (amendments 204-211).

## II. VOTE

When it voted on 17 April 2019, the plenary adopted the amendment 203 to the proposal for a Regulation.

The Commission's proposal as thus amended constitutes the Parliament's first-reading position which is contained in its legislative resolution as set out in the Annex hereto<sup>1</sup>.

The parts of the attached text that are not highlighted in grey correspond in substance, with minor inconsistencies, to the common understanding reached on 19 March 2019 at the last trilogue meeting under the 8th parliamentary term (2014-2019). Such inconsistencies are to be corrected before Council adopts its position, once an agreement has been reached on the whole text.

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<sup>1</sup> The version of the Parliament's position in the legislative resolution has been marked up to indicate the changes made by the amendments to the Commission's proposal. Additions to the Commission's text are highlighted in ***bold and italics***. The symbol "■" indicates deleted text.

## **Establishing Horizon Europe – laying down its rules for participation and dissemination \*\*\*I**

**European Parliament legislative resolution of 17 April 2019 on the proposal for a regulation of the European Parliament and of the Council establishing Horizon Europe – the Framework Programme for Research and Innovation, laying down its rules for participation and dissemination (COM(2018)0435 – C8-0252/2018 – 2018/0224(COD))**

### **(Ordinary legislative procedure: first reading)**

*The European Parliament,*

- having regard to the Commission proposal to Parliament and the Council (COM(2018)0435),
  - having regard to Article 294(2) and Articles 173(3), 182(1), 183 and 188 of the Treaty on the Functioning of the European Union, pursuant to which the Commission submitted the proposal to Parliament (C8-0252/2018),
  - having regard to Article 294(3) of the Treaty on the Functioning of the European Union,
  - having regard to the letter from its President to the committee chairs of 25 January 2019 outlining the Parliament's approach to the Multiannual Financial Framework (MFF) post-2020 sectorial programmes,
  - having regard to the letter from the Council to the President of the European Parliament of 1 April 2019 confirming the common understanding reached between the co-legislators during negotiations,
  - having regard to Rule 59 of its Rules of Procedure,
  - having regard to the report of the Committee on Industry, Research and Energy and the opinions of the Committee on Development, the Committee on Budgets, the Committee on Budgetary Control, the Committee on the Environment, Public Health and Food Safety, the Committee on Transport and Tourism, the Committee on Regional Development, the Committee on Agriculture and Rural Development and the Committee on Culture and Education (A8-0401/2018),
1. Adopts its position at first reading hereinafter set out<sup>1</sup>;
  2. Calls on the Commission to refer the matter to Parliament again if it replaces, substantially amends or intends to substantially amend its proposal;
  3. Instructs its President to forward its position to the Council, the Commission and the national parliaments.

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<sup>1</sup> This position replaces the amendments adopted on 12 December 2018 (Texts adopted, P8\_TA(2018)0509).

**P8\_TC1-COD(2018)0224**

**Position of the European Parliament adopted at first reading on 17 April 2019 with a view to the adoption of Regulation (EU) 2019/... of the European Parliament and of the Council establishing Horizon Europe – the Framework Programme for Research and Innovation, laying down its rules for participation and dissemination**

(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 173(3), Article 182(1), Article 183, and the second paragraph of Article 188 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>,

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<sup>1</sup> OJ C [...], [...], p. [...].

<sup>2</sup> OJ C [...], [...], p. [...].

<sup>3</sup> Position of the European Parliament of 17 April 2019. The text highlighted in grey has not been agreed in the framework of interinstitutional negotiations.

Whereas:

- (1) It is the Union's objective to strengthen its scientific *excellence* and technological bases *in which researchers, scientific knowledge and technology circulate freely* and encourage its competitiveness, including in its industry, *to strengthen the European Research Area* while promoting all research and innovation activities to deliver on the Union's strategic priorities, *and commitments* which ultimately aim at promoting peace, the Union's values and the well-being of its peoples.
- (2) To deliver scientific, economic and societal impact in pursuit of this general objective *and maximise the Union's added value of its RDI investments*, the Union should invest in research and innovation through Horizon Europe - a Framework Programme for Research and Innovation 2021-2027 (the 'Programme') to support the creation *and diffusion and transfer* of high-quality knowledge and technologies *in the Union*, to strengthen the impact of research and innovation *in addressing* global challenges *including the Sustainable Development Goals and climate change, and* in developing, supporting and implementing Union policies, to support the uptake of innovative *and sustainable* solutions in *the Union's* industry and society to *create jobs* and *boost economic growth and* industrial competitiveness; *The Programme should* foster all forms of innovation, *strengthen market deployment of innovative solutions; and optimise the delivery of investments.*
- (2a) *The Programme should contribute to increasing public and private investment in R&I in Member States thereby helping to reach an overall investment of at least 3% of the Union's GDP in research and development. The achievement of the target will require Member States and the private sector to complement the Programme with their own and reinforced investment actions in research, development and innovation.*
- (2b) *In view of achieving the objectives of this Programme and whilst respecting the principle of excellence, the Programme should aim to strengthen, among others, collaborative links in Europe, thereby contributing to reducing the R&I divide.*

- (3) The promotion of research and innovation activities deemed necessary to help realise Union policy objectives should take into account the innovation principle **■** *a key driver in turning faster and more intensively the Union's substantial knowledge assets into innovations.*
- (4) *The continuation of “Open Science, Open Innovation, Open to the World” while safeguarding the Union's scientific and socio-economic interests* should ensure excellence and impact of the Union's investment in research and innovation. *and strengthen the R&I capacity of all Member States. That should ■ lead to a balanced implementation of the Programme ■ .*

(5) Open science ■ has the potential to increase the quality, impact and benefits of science and to accelerate the advancement of knowledge by making it more reliable, more efficient and accurate, better understandable by society and responsive to societal challenges. Provisions should be laid down to ensure that beneficiaries provide open access to peer-reviewed scientific publications, research data and other research outputs in an open and non-discriminatory manner, free of charge and as early as possible in the dissemination process, and to enable their widest possible use and re-use. *As far as research data is concerned, the principle should be “as open as possible, as closed as necessary”, thereby ensuring the possibility of exceptions taking into consideration the Union’s socio-economic interest, intellectual property rights, personal data protection and confidentiality, security concerns and other legitimate interests.* More emphasis should ■ be given to the responsible management of research data, which should comply with the FAIR principles of ‘Findability’, ‘Accessibility’, ‘Interoperability’ and ‘Reusability’, notably through the mainstreaming of Data Management Plans. Where appropriate, beneficiaries should make use of the possibilities offered by the European Open Science Cloud and *the European Data Infrastructure and* adhere to further open science principles and practices. *Reciprocal open access should be encouraged in international S&T cooperation agreements and in relevant association agreements.*

- (5a) *SME beneficiaries are encouraged to make use of the existing instruments such as IPR SME Helpdesk that supports European Union small and medium sized enterprises to both protect and enforce their Intellectual Property (IP) rights through the provision of free information and services, in the form of confidential advice on intellectual property and related issues, plus training, materials and online resources.*
- (6) The conception and design of the Programme should respond to the need for establishing a critical mass of supported activities, throughout the Union and through international cooperation, *while encouraging the participation of all Member States in the Programme*, in line with the UN Sustainable Development Goals (SDGs) *and the Paris Agreement*. Programme implementation should reinforce the pursuit of this aim.
- (7) Activities supported under the Programme should contribute towards the achievement of the Union's *and the Programme's* objectives, priorities *and commitments*, the monitoring and assessment of progress against those objectives, priorities *and commitments* and for the development of revised or new priorities.
- (7a) *The Programme should seek alignment with already existing European research and innovation roadmaps and strategies.*

(8) The Programme should maintain a balanced approach between bottom-up (investigator or innovator driven) and top-down (determined by strategically defined priorities) funding, according to the nature of the research and innovation communities that are engaged **across the Union**, the **success rates per area of intervention**, the types and purpose of the activities carried out, **the subsidiarity principle** and the impacts that are sought. The mix of these factors should determine the choice of approach for the respective parts of the Programme, all of which contribute to all of the Programme's general and specific objectives.

(8-a) *The overall budget for the Widening participation and spreading excellence strand of the "Widening participation and strengthening the European Research Area" part of Horizon Europe should be at least 3.3% of the overall Horizon Europe budget. This budget should mainly benefit legal entities in the widening countries.*

(8-b) *Excellence Initiatives should aim to strengthen research and innovation excellence in the eligible countries, including for instance supporting training to improve R&I managerial skills, prizes, strengthening innovation ecosystems as well as the creation of R&I networks, including on the basis of research infrastructures financed by the EU. Applicants need to clearly show that projects are linked with national and/or regional R&I strategies to be able to apply for funding under the widening participation and spreading excellence of the 'Widening participation and strengthening the European Research Area' part of Horizon Europe.*

(8a) *A number of research and innovation actions should apply a Fast Track to Research and Innovation logic where time-to-grant should not exceed six months. This should allow a faster, bottom-up access to funds for small collaborative consortia covering actions from fundamental research to market application.*

(8b) *The Programme should support all stages of research and innovation especially within collaborative projects. Fundamental research is an essential asset and an important condition for increasing the Union's ability to attract the best scientists in order to become a global hub of excellence. The balance between basic and applied research should be ensured. Coupled with innovation, this will support the Union's economic competitiveness, growth and jobs.*

- (8c) *In order to maximise the impact of Horizon Europe particular consideration should be given to multidisciplinary, interdisciplinary and transdisciplinary approaches as necessary elements for major scientific progress.*
- (8d) *The engagement with society is to be fostered through responsible research and innovation as a cross-cutting element with a view to build effective cooperation between science and society. It would allow all societal actors (researchers, citizens, policy makers, business, third sector organisations etc.) to work together during the whole research and innovation process in order to better align both the process and its outcomes with the values, needs and expectations of European society.*
- (9) Research activities carried out under the pillar "*Excellent and Open* Science' should be determined according to the needs and opportunities of science. The research agenda should be set in close liaison with the scientific community *and include emphasis on attracting new R&I talents, young researchers, while strengthening the ERA and avoiding brain drain.* Research should be funded on the basis of excellence.

- (10) The pillar 'Global Challenges and *European* Industrial Competitiveness' should be established through clusters of research and innovation activities, in order to maximise integration across the respective work areas while securing high and sustainable levels of impact *for the Union* in relation to the resources that are expended. It will encourage cross-disciplinary, cross-sectoral, cross-policy and cross-border collaboration in pursuit of the UN SDGs and the *Union's commitments under the Paris Agreement and where needed to address societal challenges, and the* competitiveness of the Union's industries therein. *The activities under this pillar should cover the full range of research and innovation activities including R&D, piloting, demonstration, and support for public procurement, pre-normative research and standard setting, and market uptake of innovations to ensure that Europe stays at the cutting-edge of research in strategically defined priorities.*
- (11) Full *and timely* engagement of industry in the Programme, at all levels from the individual entrepreneur and small and medium-sized enterprises to large scale enterprises, should specifically towards the creation of sustainable jobs and growth. ■

(12) It is important to support **the Union's** industry to stay or become world leader in innovation, digitisation and decarbonisation, notably through investments in key enabling technologies that will underpin tomorrow's business. **Key Enabling Technologies (KETs) are set to play a central role in Pillar II 'Global Challenges and European Industrial Competitiveness' and should be further connected to the Future and Emerging Technologies (FET) Flagships to allow research projects to cover the whole innovation chain.** The Programme's actions **should reflect the Union's Industrial Policy Strategy so as to address market failures or sub-optimal investment situations, to boost investments** in a proportionate **and transparent** manner, without duplicating or crowding out private financing and have a clear European added value **and public return on investments**. This will ensure consistency between the actions of the programme and EU **RDI** State aid rules, **which should be revised in order to incentivise innovation.**

(13) The Programme should support research and innovation in an integrated manner, respecting all relevant provisions of the World Trade Organisation. The concept of research, including experimental development should be used in accordance with the Frascati Manual developed by the OECD, whereas the concept of innovation should be used in accordance with the Oslo Manual developed by the OECD and Eurostat, following a broad approach that covers social innovation, *design and creativity*. The OECD definitions regarding Technological Readiness Level (TRL) should *be taken into account*, as in the previous Framework Programme Horizon 2020 **■**. The work programme for a given call under the pillar 'Global Challenges and Industrial *European* Competitiveness' could allow grants for large-scale product validation and market replication.

(14) The Commission's Communication on the interim evaluation of Horizon 2020 (COM(2018) 2 final) *and the European Parliament's report on the assessment of the implementation of Horizon 2020 in view of its interim evaluation and the Framework Programme 9 proposal (2016/2147(INI))* have provided a set of recommendations for this Programme, including its Rules for participation and dissemination, building on the lessons learnt from the previous Programme as well as input from EU institutions and stakeholders. Those recommendations include to invest more ambitiously in order to reach critical mass and maximise impact; to support breakthrough innovation; to prioritise Union research and innovation (R&I) investments in areas of high added value, notably through mission-orientation, *full, well-informed and timely* citizen involvement and wide communication; to rationalise the Union funding landscape, *in order to fully use the R&I potential of all Member States* including by streamlining the range of partnership initiatives and co-funding schemes; the development of more and concrete synergies between different Union funding instruments, notably with the aim of helping to mobilise under-exploited R&I potential across the Union; to *better involve research infrastructures financed by the Union - especially from ERDF - into the Programme's projects, to* strengthen international cooperation and reinforce openness to third countries' participation *while safeguarding the Union interest and broadening the participation of all Member States in the Programme*; and to continue simplification based on implementation experiences from Horizon 2020.

(15) ***Cohesion policy should continue to contribute to research and innovation. Therefore, special attention needs to be paid to the coordination and complementarity between the two Union policies.*** The Programme should seek ***alignment of rules and synergies*** with other Union programmes ***as referred to in Annex IV to this Regulation***, from their design and strategic planning, to project selection, management, communication, dissemination and exploitation of results, to monitoring, auditing and governance. With a view to avoiding overlaps and duplication and increasing the leverage of Union funding, ***as well as decreasing administrative burden for the applicants and the beneficiaries, all types of synergies should follow the principle “one action follows one set of rules”***:

- transfers from other Union programmes ***including the European Regional Development Fund (ERDF)***, to Horizon Europe activities can take place ***on a voluntary basis***. In such cases they will follow Horizon Europe rules, ***but they will be used only for the benefit of the Member State or managing authority, as relevant, deciding to make the transfer***;

- ***co-funding of an action by Horizon Europe and another Union programme could also be foreseen while not exceeding the total eligible costs of the action. In such cases, only Horizon Europe rules would apply and double audits should be avoided***;

- *Seals of Excellence should be awarded to all proposals which have passed the “excellence” threshold in Horizon Europe but cannot be financed due to budgetary constraints. In such cases, the rules of the Fund providing support should apply with the exception of state aid rules.*

(16) In order to achieve the greatest possible impact of Union funding and the most effective contribution to the Union's policy objectives *and commitments*, the Programme *may* enter into European Partnerships with private and/or public sector partners, *on the basis of the outcome of the Strategic Planning*. Such partners include *public and private research and innovation stakeholders, competence centres, business incubators, science and technology parks*, bodies with a public service *foundations* and civil society organisations *and regional innovation ecosystems, where appropriate* that support and/or carry out research and innovation, provided that desired impacts can be achieved more effectively in partnership than by the Union alone.

(17) The Programme should strengthen cooperation between European Partnerships and private and/or public sector partners at the international level including by joining up research and innovation programmes and cross-border investment in research and innovation bringing mutual benefits to people and businesses while ensuring that the **Union** can uphold its

(17a) *'FET Flagships' have proven to be an effective and efficient instrument, delivering benefits for society in a joint, coordinated effort by the Union and its Member States. Activities carried out within the FET Flagships on Graphene, the Human Brain Project and Quantum Technology, which are supported under Horizon 2020, will continue being supported under Horizon Europe through calls for proposals included in the work programme. Preparatory actions supported under the FET Flagships part of Horizon 2020 will feed the Strategic Planning process under Horizon Europe and inform the work on missions, co-funded/co-programmed partnerships and regular calls for proposals.*

(18) The Joint Research Centre (JRC) should continue to provide Union policies with independent customer-driven scientific evidence and technical support throughout the whole policy cycle. The direct actions of the JRC should be implemented in a flexible, efficient and transparent manner, taking into account the relevant needs of the users of the JRC, *the budgetary constraints* and the needs of Union policies, and ensuring the protection of the financial interests of the Union. The JRC should continue to generate additional resources.

- (19) The pillar '*Innovative Europe*' should establish a series of measures for integrated support to the needs of entrepreneurs and *research-driven* entrepreneurship aiming at realising and accelerating breakthrough innovation for rapid market growth *as well as promoting the Union's technological autonomy in strategic areas*. It should attract innovative companies, *including SMEs and start-ups*, with potential for scaling up at international and at Union level and offer fast, flexible grants and co-investments, including with private investors. These objectives should be pursued through the creation of a European Innovation Council (EIC). This Pillar should also support the European Institute of Innovation and Technology (EIT), *the EIT Regional Innovation Scheme* and European innovation ecosystems at large, *throughout the Union*, notably through co-funding partnerships with national and regional innovation support actors, *both public and private*.

- (20) ***In order to address the need to support investment in higher-risk and non-linear activities such as research and innovation, it is essential that Horizon Europe, in particular the EIC, as well as the EIT with its KICs, work in synergy with the financial products to be deployed under InvestEU. In that regard, the experience gained from the financial instruments deployed under Horizon 2020 such as InnovFin and the loan guarantee for SMEs, should serve as a strong basis to deliver this targeted support EIC should develop strategic intelligence and real time evaluation activities in order to timely manage and coordinate its various actions.***
- (21) ***The EIC, together with other parts of the Horizon Europe, should stimulate all forms of innovation ranging from incremental to breakthrough and disruptive innovation targeting especially market-creating innovation. The EIC through its instruments – Pathfinder and Accelerator – should aim to identify, develop and deploy high risk innovations of all kinds including incremental with a main focus on breakthrough, disruptive and deep-tech innovations that have the potential to become market-creating innovations. Through coherent and streamlined support, the EIC should fill the current vacuum in public support and private investment for breakthrough innovation. The instruments of the EIC call for dedicated legal and management features in order to reflect its objectives, in particular market deployment activities.***
- (21a) ***Within the meaning of this Regulation and in particular for the activities carried out under the EIC, a start-up is an SME in the early stage in its life cycle (including university spin-offs), which aims at innovative solutions and a scalable business model, and which is autonomous within the meaning of Article 3 of the Annex of Commission Recommendation 2003/361/EC<sup>1</sup>; and a 'mid-cap' is a company that is not a micro, small- and medium-sized enterprise as defined in Commission Recommendation 2003/361/EC and that has a number of employees between 250 and 3000 where the staff headcount is calculated in accordance with Articles 3, 4, 5, and 6 of Title I of the Annex of that Recommendation; a small mid-cap is a mid-cap that has a number of employees up to 499.***

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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).

- (22) Through EIC blended finance, the **EIC Accelerator** should bridge the “valley of death” between research, pre-mass commercialisation and the scaling-up of companies. In particular, the Accelerator should provide support to operations presenting such technological or market risks that they are not considered as bankable and cannot leverage significant investments from the market, hence complementing the InvestEU programme established by Regulation ...<sup>1</sup>.
- (22a) *SMEs constitute a significant source of innovation and growth in Europe. Therefore, a strong participation of SMEs as defined in Commission Recommendation 2003/361/EC is needed in Horizon Europe. Building on best practices from Horizon 2020, Horizon Europe should continue to encourage SMEs participation to the Framework Programme in an integrated manner.*
- (22b) *While blended finance should be the main use of the EIC Accelerator budget, for the purpose of article 43, the grant-only support of the EIC Accelerator to SMEs, including start-ups, should correspond to that under the SME instrument budget of the previous Framework Programme Horizon 2020 established by Regulation (EU) n° 1291/2013 of the European Parliament and the Council<sup>2</sup>.*
- (22c) *In close synergy with InvestEU, the EIC Accelerator, in its blended finance and equity financial support forms, should finance SMEs, including start-ups, and, in exceptional cases, projects run by small mid-caps, which are either not yet able to generate revenues, or not yet profitable, or not yet able to attract sufficient investments to implement fully their projects' business plan. Such eligible entities will be considered as non-bankable, while a part of their investment needs could have been or could be provided by one or several investors such as a private or public bank, a family office, a venture capital fund, a business angel, etc. In this way, overcoming a market failure, the EIC Accelerator will finance promising but not yet bankable entities carrying out breakthrough market*

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<sup>1</sup>

<sup>2</sup> *The following Commission declaration is expected to be published in the OJ C series once the final text of the Regulation is adopted:  
“The implementation of the EIC Accelerator shall comply with the terms established in article 43.1 and recital [X] of the Horizon Europe Regulation”.*

*creating innovation projects. Once they will become bankable, those projects may, in a later stage of their development, be financed under InvestEU.*

- (23) The EIT, primarily through its Knowledge and Innovation Communities (KICs) *and the EIT Regional Innovation Scheme* should aim at strengthening innovation ecosystems *for the development of an overall Union capacity for innovation* that tackle global challenges, by fostering the integration of business, research, higher education and entrepreneurship. *In line with its founding act, the EIT Regulation<sup>1</sup> and the Strategic Innovation Agenda of the EIT<sup>2</sup>*, the EIT should foster innovation in its activities and should support the integration of higher education within the innovation ecosystem, in particular by: stimulating entrepreneurial education, fostering strong non-disciplinary collaborations between industry and academia; and identifying prospective skills for future innovators to address global challenges, which includes advanced digital and innovation skills. Support schemes provided by the EIT should benefit to EIC beneficiaries, while start-ups emerging from EIT KICs should have *fast-track* access to EIC actions. While the EIT's focus on innovation ecosystems should make it naturally fit within the pillar '*Innovative Europe*', *it should also support all other pillars, as appropriate*, the planning of its KICs should be aligned through the strategic planning process with the pillar 'Global Challenges and *European Industrial Competitiveness*'. *Duplication between KICs and other instruments in the same field, in particular other Partnerships, should be avoided.*

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<sup>1</sup> *Regulation (EU) 294/2008 of the European Parliament and of the Council of 11 March 2008 (OJ L97/1, 9.4.2008), as amended by Regulation (EU) 1292/2013 of the European Parliament and of the Council of 11 December 2013 (OJ L347/174, 20.12.2013).*

<sup>2</sup> *Regulation (EU) of the European Parliament and of the Council.*

- (24) Ensuring and preserving a level playing field for companies that compete in a given market should be a key requirement for breakthrough or disruptive innovation to flourish thereby enabling in particular small and medium-size innovators to reap the benefits of their investment and to capture a share of the market. ***Similarly, a certain degree of openness in the innovation scale of funded actions - addressing a large network of beneficiaries - may contribute substantially to the building capacity of SMEs, as it provides them with the necessary means to attract investments and to thrive.***
- (25) The Programme should promote and integrate cooperation with third countries and international organisations and initiatives based on ***Union's*** interest, ***and mutual benefits*** and global commitments to implement the UN SDGs. International cooperation should aim to strengthen the Union's ***excellence in*** research and innovation **■**, attractiveness and economic and industrial competitiveness, to tackle global challenges, as embodied in the UN SDGs, and to support the Union's external policies. An approach of general opening for ***excellence in*** international participation and targeted international cooperation actions should be followed, **■** appropriate eligibility ***criteria, considering different levels of R&I capacities***, for funding of entities established in low to middle income countries ***need to be applied***. At the same time, association of third countries to the Programme should be promoted ***where reciprocity is envisaged and where Union's interest is safeguarded and increased participation of all Member States in the Programme is promoted.***

(26) With the aim of deepening the relationship between science and society and maximising benefits of their interactions, the Programme should engage and involve citizens and civil society organisations in co-designing and co-creating responsible research and innovation (RRI) agendas and contents, *that meet citizens' and civil society's concerns, needs and expectations*, promoting science education, making scientific knowledge publicly accessible, and facilitating participation *of* citizens and civil society organisations in its activities. *The measures taken to improve the involvement of citizens and civil society should be monitored.*

(26a) *Horizon Europe should support new technologies which contribute to overcoming obstacles, that prevent the access and the full participation of persons with disabilities and which consequently restrain the development of a truly inclusive society.*

- (27) Pursuant to Article 349 of the TFEU, the Union's outermost regions are entitled to specific measures (taking into account their structural, social and economic situation) regarding access to horizontal Union programmes. The Programme should therefore take into account the specific characteristics of those regions in line with the Commission's Communication on 'A stronger and renewed strategic partnership with the EU's outermost regions' (COM (2017) 623 final) as endorsed by the Council on 12 April 2018 ***and where possible promote their participation in the Programme.***
- (28) The activities developed under the Programme should aim at eliminating gender inequalities, ***avoiding gender bias, adequately integrating the gender dimension in research and innovation content, aiming at enhancing work-life balance,*** promoting equality between women and men ***including equal pay principles as referred to in Article 141(3) of the TFEU and in Directive 2006/54/EC on the implementation of the principle of equal opportunities and equal treatment of men and women in matters of employment and occupation, as well as ensuring accessibility of researchers with disabilities to*** research and innovation. ■

- (29) In light of the specificities of the defence industry sector, the detailed provisions for Union funding to defence research projects should be fixed in the Regulation ... establishing the European Defence Fund<sup>1</sup> which defines the rules of participation for defence research. ***Although synergies between Horizon Europe and the European Defence Fund could be encouraged while avoiding duplication, actions under Horizon Europe should have an exclusive focus on civilian applications.***
- (30) This Regulation lays down a financial envelope for the Programme. The amount indicated for the specific programme referred to in Article 1(3)(a) is to constitute the prime reference amount, within the meaning of [*reference to be updated as appropriate according to the new inter-institutional agreement: point 17 of the Interinstitutional Agreement of 2 December 2013 between the European Parliament, the Council and the Commission on budgetary discipline, on cooperation in budgetary matters and on sound financial management*<sup>2</sup>], for the European Parliament and the Council during the annual budgetary procedure.
- (31) Regulation (EU, Euratom) No ***2018/1046 of the European Parliament and of the Council*** (the ‘Financial Regulation’)<sup>3</sup> applies to this Programme, unless otherwise specified. It lays down rules on the implementation of the Union budget, including the rules on grants, prizes, procurement, indirect implementation, financial assistance, financial instruments and budgetary guarantees.

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<sup>1</sup>

<sup>2</sup> OJ C 373, 20.12.2013, p. 1.

<sup>3</sup> ***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.***

**(31a)** *Administrative simplification, in particular the reduction of the administrative burden for beneficiaries should be continuously sought throughout the Programme. The Commission should further simplify its tools and guidance in such a way that they impose a minimal burden on beneficiaries. In particular, the Commission should consider issuing an abridged version of the guidance.*

**(31b)** *In order to ensure that Europe remains at the forefront of global research and innovation in the digital field and to take account of the necessity to step up investments to benefit from the growing opportunities of digital technologies, sufficient budget should be allocated to core digital priorities.*

(32) In accordance with the Financial Regulation, Regulation (EU, Euratom) No 883/2013 of the European Parliament and of the Council<sup>1</sup>, Council Regulation (Euratom, EC) No 2988/95<sup>2</sup>, Council Regulation (Euratom, EC) No 2185/96<sup>3</sup> and Council Regulation (EU) 2017/1939<sup>4</sup>, the financial interests of the Union are to be protected through proportionate measures, including the prevention, detection, correction and investigation of irregularities, including fraud, the recovery of funds lost, wrongly paid or incorrectly used and, where appropriate, the imposition of administrative sanctions. In particular, in accordance with Regulation (EU, Euratom) No 883/2013 and Regulation (Euratom, EC) No 2185/96 the European Anti-Fraud Office (OLAF) may 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. In accordance with Regulation (EU) 2017/1939, the European Public Prosecutor's Office (EPPO) may investigate and prosecute fraud and other 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>. In accordance with the Financial Regulation, any person or entity receiving Union funds is to fully cooperate in the protection of the Union's financial interests, to grant the necessary rights and access to the Commission, OLAF, the EPPO and the European Court of Auditors (ECA) and to ensure that any third parties involved in the implementation of Union funds grant equivalent rights.

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- <sup>1</sup> 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 L248, 18.9.2013, p. 1).
- <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, 23.12.95, p.1).
- <sup>3</sup> 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 L292, 15.11.96, p.2).
- <sup>4</sup> 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 L283, 31.10.2017, p.1).
- <sup>5</sup> 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).

- (33) Pursuant to [reference to be updated as appropriate according to a new decision on OCTs: Article 94 of Council Decision 2013/755/EU<sup>1</sup>], persons and entities established in overseas countries and territories (OCTs) are eligible for funding subject to the rules and objectives of the Programme and possible arrangements applicable to the Member State to which the relevant overseas country or territory is linked. ***The Programme should take due account of the specific features of those territories in order to ensure their effective participation and to support cooperation and synergies, particularly in the outermost regions as well as with third countries in their neighbourhood.***
- (34) Pursuant to paragraph 22 and 23 of the Inter-institutional agreement for Better Law-Making of 13 April 2016, there is a need to evaluate this Programme on the basis of information collected through specific monitoring requirements, while avoiding overregulation and administrative burdens, in particular on Member States ***and beneficiaries under the Programme.*** These requirements, where appropriate, can include measurable indicators, as a basis for evaluating the effects of the Programme on the ground.

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<sup>1</sup> 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) (OJ L 344, 19.12.2013, p. 1).

- (35) In order to be able to supplement or amend the impact pathway indicators, where considered necessary, the power to adopt acts in accordance with Article 290 of the Treaty on the Functioning of the European Union should be delegated to the Commission. 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 on Better Law-Making of 13 April 2016. 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.
- (36) Coherence and synergies between Horizon Europe and the EU's Space Programme will foster a globally competitive and innovative European space sector; reinforce Europe's autonomy in accessing and using space in a secure and safe environment; and strengthen Europe's role as a global actor. Breakthrough solutions in Horizon Europe will be supported by data and services made available by the Space Programme.
- (36a) The work programme should take into account the outcome of specific previous projects and the state of science, technology and innovation at national, Union and international level and of relevant policy, market and societal developments, for a particular action to be funded.***

- (37) The rules for participation and dissemination should adequately reflect the needs of the Programme taking into account the concerns raised and the recommendations made by various stakeholders.
- (38) Common rules *and requirement* across the Programme should ensure *simplified and common implementing tools including for monitoring and reporting an* a coherent framework which facilitates participation in programmes financially supported by the budget of the Programme, including participation in programmes managed by funding bodies such as the EIT, joint undertakings or any other structures under Article 187 TFEU, and participation in programmes undertaken by Member States pursuant to Article 185 TFEU. *Adopting* specific rules should be *possible but exceptions must be limited to when strictly necessary and duly* justified.
- (39) Actions which fall within the scope of the Programme should respect fundamental rights and observe the principles acknowledged in particular by the Charter of Fundamental Rights of the European Union. Such actions should be in conformity with any legal obligation including international law and with any relevant Commission decisions such as the Commission notice of 28 June 2013<sup>1</sup>, as well as with ethical principles, which include avoiding any breach of research integrity. *The opinions of the European Group on Ethics in Science and New Technologies, the European Union Agency for Fundamental Rights and the European Data Protection Supervisor should be taken into account.* Article 13 TFEU should also be taken into account in research activities, and the use of animals in research and testing should be reduced, with a view ultimately to replacing their use.

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<sup>1</sup> OJ C 205, 19.7.2013, p. 9.

- (40) In line with the objectives of international cooperation as set out in Articles 180 and 186 TFEU, the participation of legal entities established in third countries and of international organisations should be promoted ***in the Union's scientific, societal, economic and technological interests***. The implementation of the Programme should be in conformity with the measures adopted in accordance with Articles 75 and 215 TFEU and should be in compliance with international law. For actions related to Union strategic assets, interests, autonomy or security, the participation to specific actions of the Programme may be limited to entities established in Member States only, or to entities established in specified associated or other third countries in addition to Member States.
- (41) ***Acknowledging climate change as one of the biggest global and societal challenges and reflecting the importance of tackling climate change in line with the Union's commitments to implement the Paris Agreement and the United Nations Sustainable Development Goals, this Programme will contribute to mainstream climate actions and to the achievement of an overall target of at least 25 % of the EU budget expenditures supporting climate objectives over the MFF 2021-2027 period, and an annual target of 30 % as soon as possible and at the latest by 2027. Climate mainstreaming shall be adequately integrated in research and innovation content and applied at all stages of the research cycle.***
- (41a) ***In the context of the impact pathway related to climate, the Commission will report on outputs, innovations and aggregated estimated effects of projects that are climate-relevant, including by Programme part and by implementation mode. In its analysis the Commission should take account of the long-term economic, societal and environmental costs and benefits to European citizen resulting from Programme activities including the uptake of innovative climate mitigation and adaptation solutions, estimated impacts on jobs and company creation, economic growth in and competitiveness, clean energy, health to well-being (including air, soil and water quality). The results of this impact analysis should be made public, assessed in the context of Europe's climate and energy goals and feedback into the subsequent strategic planning process and future work programmes.***

- (42) Horizontal financial rules adopted by the European Parliament and the Council on the basis of Article 322 of the Treaty on the Functioning of the European Union apply to this Regulation. These rules are laid down in the Financial Regulation and determine in particular the procedure for establishing and implementing the budget through grants, procurement, prizes, indirect implementation, and provide for checks on the responsibility of financial actors. Rules adopted on the basis of Article 322 TFEU also concern the protection of the Union's budget in case of generalised deficiencies as regards the rule of law in the Member States, as the respect for the rule of law is an essential precondition for sound financial management and effective EU funding.
- (43) Use of sensitive background information or access by unauthorized individuals to sensitive results *and research data* may have an adverse impact on the interests of the Union or of one or more of the Member States. Thus handling of confidential data and classified information should be governed by all relevant Union law, including the Institutions' internal rules, such as Commission Decision (EU, Euratom) 2015/444<sup>1</sup>, which lays down the provisions on security rules for protecting EU classified information.

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<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).

(45) It is ***necessary*** to establish the terms and conditions for providing Union funding to participants in actions under the Programme. Grants ***will be the main type of financing within the Programme. Other types of financing 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. For grants, this should include a consideration of the use of lump sums, flat rates and scales of unit costs as set out in the Financial Regulation*** **■**, with a view to further simplification. ***Before any new costs reimbursement system could be deemed a real simplification for the beneficiaries, it should be preceded by an extensive and positive evaluation.***

**■**

(47) In accordance with ***Regulation (EU, Euratom) No 2018/1046 of the European Parliament and of the Council*** (the ‘Financial Regulation’)<sup>1</sup>, the Programme should provide the basis for a wider acceptance of the usual cost accounting practices of the beneficiaries as regards personnel costs and unit costs for internally invoiced goods and services ***(including for large research infrastructures as understood under Horizon 2020). The use of unit costs for internally invoiced goods and services calculated in accordance with the usual accounting practices of the beneficiaries combining actual direct costs and indirect costs should be an option which could be chosen by all beneficiaries. In this respect, beneficiaries should be able to include actual indirect costs calculated on the basis of allocation keys in such unit costs for internally invoiced goods and services.***

(48) The current system of reimbursement of actual personnel costs should be further simplified building on the project-based remuneration approach developed under Horizon 2020 and

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<sup>1</sup> ***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.***

further aligned to the Financial Regulation, *aiming to reduce the remuneration gap between EU researchers involved in the Programme.*

- (49) The participant Guarantee Fund set up under Horizon 2020 and managed by the Commission has proved to be an important safeguard mechanism which mitigates the risks associated with the amounts due and not reimbursed by defaulting participants. Therefore, the Beneficiary Guarantee Fund, renamed Mutual Insurance Mechanism ("the Mechanism") should be continued and enlarged to other funding bodies in particular to initiatives pursuant to Article 185 of the TFEU. The Mechanism should be opened to beneficiaries of any other directly managed Union programme.
- (50) Rules governing the exploitation and dissemination of results should be laid down to ensure that beneficiaries protect, exploit, disseminate and provide access to those results as appropriate. More emphasis should be given to exploiting results *and the Commission should identify and help maximise opportunities for beneficiaries to exploit results, in particular* in the Union. *Exploitation should be in consideration of the principles of this programme, including promoting innovation in the Union and strengthening the European Research Area.*

- (51) The key elements of the proposal evaluation and selection system of the predecessor programme Horizon 2020 with its particular focus on excellence, **‘impact’ and ‘quality and efficiency of implementation’ criteria** should be maintained. Proposals should continue to be selected based on the evaluation made by independent experts **stemming from as many Member States as possible. The Commission should organise anonymous evaluation where appropriate and analyse its results in order to avoid selection bias.** Where relevant, the necessity to ensure the overall coherence of the portfolio of projects should be taken into account **by independent experts.**
- (52) **Systematic** cross-reliance on audits and assessments – with other Union programmes – should be **implemented in accordance with Article 127 of the Financial Regulation for all parts of the Programme,** in order to reduce administrative burden for beneficiaries of Union funds. Cross reliance should be explicitly provided for by considering also other elements of assurance such as systems and processes audits.
- (53) Specific challenges in the **areas** of research **and** innovation should be addressed by prizes, including through common or joint prizes where appropriate, organised by the Commission or funding body with other Union bodies, third countries, international organisations or non-profit legal entities. **In particular, prizes should be awarded to projects attracting scientists to widening countries as well as to successful projects to increase their visibility and allow to increase the promotion of Union funded actions.**

(54) Financing *types* and the methods of implementation under this Regulation shall 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. *This should* include consideration of the use of lump sums, flat rates and scales of unit costs,

HAVE ADOPTED THIS REGULATION:

**TITLE I**  
**GENERAL PROVISIONS**

Article 1  
Subject matter

1. This Regulation establishes Horizon Europe - the Framework Programme for Research and Innovation ('the Programme') and the rules for participation and dissemination in indirect actions under the Programme ***and determines the framework governing Union support to research and innovation activities.***
2. It lays down the objectives of the Programme, the budget for the period 2021 – 2027, the forms of Union funding and the rules for providing such funding.
3. The Programme shall be implemented through:
  - (a) the specific programme established by Decision .../.../EU<sup>1</sup> ■ ;  
***(aa) a financial contribution to the EIT established by Regulation (EC) No 294/2008;***
  - (b) the specific programme on defence research established by Regulation .../.../EU  
***Regulation of the European Parliament and of the Council establishing the European Defence Fund.***
4. The terms 'Horizon Europe', 'the Programme' and 'specific programme' used in this Regulation address matters relevant only to the specific programme described in paragraph 3(a), unless otherwise explicitly stated.

***The EIT shall implement the Programme in line with its strategic objectives for the period 2021-2027, as laid down in the Strategic Innovation Agenda of the EIT, taking into account the strategic planning.***

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## Article 2 Definitions

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

- (1) 'research infrastructures' mean facilities that provide resources and services for the research communities to conduct research and foster innovation in their fields. This definition includes the associated human resources, and it covers major equipment or sets of instruments; knowledge-related facilities such as collections, archives or scientific data infrastructures; computing systems, communication networks, and any other infrastructure, of a unique nature and open to external users, essential to achieve excellence in research and innovation. Where relevant, they may be used beyond research, for example for education or public services and they may be 'single sited', 'virtual' or 'distributed';
- (2) 'smart specialisation strategy' has the same meaning as smart specialisation strategy as defined in Regulation (EU) No 1303/2013 of the European Parliament and of the Council<sup>1</sup> and fulfilling the enabling conditions set out in Regulation (EU) XX [Common Provisions Regulation];
- (3) 'European Partnership' means an initiative where the Union, *prepared with early involvement of Member States and/or Associated Countries*, together with private and/or public partners (such as industry, *universities*, research organisations, bodies with a public service mission at local, regional, national or international level or civil society organisations including foundations *and NGOs*), commit to jointly support the development and implementation of a programme of research and innovation activities, including those related to market, regulatory or policy uptake;
- (4) 'open access' means the practice of providing online access to research outputs resulting from actions funded under the Programme, ■ free of charge to the end-user, *in accordance with Article 10 and 35(3) of this Regulation*;

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<sup>1</sup> *Regulation (EU) No 1303/2013 of the European Parliament and of the Council of 17 December 2013 laying down common provisions on the European Regional Development Fund, the European Social Fund, the Cohesion Fund, the European Agricultural Fund for Rural Development and the European Maritime and Fisheries Fund and laying down general provisions on the European Regional Development Fund, the European Social Fund, the Cohesion Fund and the European Maritime and Fisheries Fund and repealing Council Regulation (EC) No 1083/2006.*

- (4a) *'open science' means an approach to the scientific process based on open cooperative work, tools and diffusing knowledge, including the elements of article 10.*
- (5) 'mission' means a portfolio of *excellence-based and impact-driven R&I actions across disciplines and sectors*, intended to:
- achieve **■**, within a set timeframe, *a measurable goal* that could not be achieved through individual actions,
  - *have impact on society and policy-making through science and technology, and*
  - *be relevant for a significant part of the European population and a wide range of European citizens;*
- (6) 'pre-commercial procurement' means the procurement of research and development services involving risk-benefit sharing under market conditions, and competitive development in phases, where there is a clear separation of the research and development services procured from the deployment of commercial volumes of end-products;
- (7) 'public procurement of innovative solutions' means procurement where contracting authorities act as a launch customer for innovative goods or services which are not yet available on a large-scale commercial basis, and may include conformity testing.
- (8) “access rights” means rights to use results or background *under terms and conditions laid down in accordance with this Regulation;*
- (9) “background” means any data, know-how or information whatever its form or nature, tangible or intangible, including any rights such as intellectual property rights, that is: (i) held by beneficiaries prior to their accession to the action; and (ii) identified by the beneficiaries in *a written agreement* as needed for implementing the action or for exploiting its results;
- (10) “dissemination” means the public disclosure of the results by appropriate means (other than resulting from protecting or exploiting the results), including by scientific publications in any medium;
- (11) “exploitation” means the use of results in further research and innovation activities other than those covered by the action concerned, *including inter alia, commercial exploitation*

*such as* developing, creating, manufacturing and marketing a product or process, creating and providing a service, or in standardisation activities;

- (12) “fair and reasonable conditions” means appropriate conditions, including possible financial terms or royalty-free conditions, taking into account the specific circumstances of the request for access, for example the actual or potential value of the results or background to which access is requested and/or the scope, duration or other characteristics of the exploitation envisaged;
- (13) “funding body” means a body or organisation, other than the Commission, as referred to in point (c) of Article 62(1) of the Financial Regulation, to which the Commission has entrusted budget implementation tasks under the Programme;
- (14) “international European research organisation” means an international organisation, the majority of whose members are Member States or associated countries, and whose principal objective is to promote scientific and technological cooperation in Europe;
- (15) 'legal entity' means any natural or legal person created and recognised as such under national law, Union law or international law, which has legal personality and which may, acting in its own name, exercise rights and be subject to obligations, or an entity without a legal personality in accordance with Article 197(2)(c) of the Financial Regulation;
- (15a) *“widening countries”/“low R&I performing countries” means those countries where legal entities need to be established in order to be eligible as coordinators under ‘widening participation and spreading excellence’ strand of the Widening Participation and Strengthening ERA’ part of Horizon Europe. From the EU Member States, these countries are Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Greece, Hungary, Latvia, Lithuania, Malta, Poland, Portugal, Romania, Slovakia and Slovenia, for the whole duration of the Programme. For associated countries, the list of eligible countries will be defined based on an indicator and published in the Work Programme. On the basis of Article 349 TFEU, legal entities from Outermost Regions will be also fully eligible as coordinators under this strand.***
- (16) “non-profit legal entity” means a legal entity which by its legal form is non-profit-making or which has a legal or statutory obligation not to distribute profits to its shareholders or individual members;

- (16a) ***'SME' means micro-, small- and medium-sized enterprise as defined in Commission Recommendation 2003/361/EC;***
- (17) 'small mid-cap' means an entity that is not a micro-, small- and medium-sized enterprise ('SME') as defined in Commission Recommendation **2003/361/EC** employing up to 499 employees ■ where the staff headcount is calculated in accordance with Articles 3, 4, 5 and 6 of Title I of the Annex of that Recommendation;
- (18) "results" means any tangible or intangible effect of the action, such as data, know-how or information, whatever its form or nature, whether or not it can be protected, as well as any rights attached to it, including intellectual property rights;
- (18a) ***'research outputs' mean results generated by the action to which access can be given in the form of scientific publications, data or other engineered outcomes and processes such as software, algorithms, protocols and electronic notebooks;***
- (19) "seal of excellence" means a certified label which shows that a proposal submitted to a call for proposals exceeded all of the **evaluation** thresholds set out in the work programme, but could not be funded due to lack of budget available to that call in the work programme, **but which might receive support from other Union or national sources of funding;**
- (19a) ***'strategic R&I Plan' means an implementing act laying out a strategy for realising content in the work programme covering a maximum period of four years, following a broad mandatory multi-stakeholder consultation process. It defines the priorities, suitable types of action and forms of implementation to use.***
- (20) "work programme" means the document adopted by the Commission for the implementation of the specific programme<sup>1</sup> in accordance with its Article 12 or the equivalent document in content and structure adopted by a funding body.
- (21) "reimbursable advance" means the part of a Horizon Europe or EIC blended finance corresponding to a loan under Title X of the Financial Regulation, but that is directly awarded by the Union on a non-profit basis to cover the costs of activities corresponding to an innovation action, and to be reimbursed by the beneficiary to the Union under the conditions provided for in the contract;

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<sup>1</sup> ***OJ...***

- (22) “contract” means the agreement concluded between the Commission or a funding body with a legal entity implementing an innovation and market deployment action and supported by a Horizon Europe or EIC blended finance.
- (23) “classified information” means EU classified information as defined in Article 3 of Commission Decision (EU, Euratom) 2015/444 as well as classified information of Member States, classified information of third countries with which the Union has a security agreement and classified information of international organisation with which the Union has a security agreement;
- (24) 'Blending operation' means actions supported by the EU budget, including within blending facilities pursuant to Article 2(6) of the Financial Regulation, combining non-repayable forms of support and/or financial instruments from the EU budget with repayable forms of support from development or other public finance institutions, as well as from commercial finance institutions and investors.
- (25) “Horizon Europe ■ blended finance” means financial support to ***a programme to provide support to*** innovation and market deployment activities, consisting in a specific combination of a grant or a reimbursable advance with an investment in equity ***or any other repayable form of support;***
- (25a) ***“EIC blended finance” means direct financial support delivered under the EIC to an innovation and market deployment action, consisting in a specific combination of a grant or a reimbursable advance with an investment in equity or any other repayable form of support;”***
- (25a) ***‘research and innovation action’ means an action primarily consisting of activities aiming to establish new knowledge and/or to explore the feasibility of a new or improved technology, product, process, service or solution. This may include basic and applied research, technology development and integration, testing, demonstration and validation on a small-scale prototype in a laboratory or simulated environment;***
- (25b) ***‘innovation action’ means an action primarily consisting of activities directly aimed at producing plans and arrangements or designs for new, altered or improved products, processes or services, possibly including prototyping, testing, demonstrating, piloting, large-scale product validation and market replication;***

- (25c) *‘ERC frontier research (including ERC Proof of Concept)’ means principal investigator-led research actions, hosted by ERC only single or multiple beneficiaries;*
- (25d) *‘training and mobility action’ means an action geared towards the improvement of skills, knowledge and career prospects of researchers based on mobility between countries, and, if relevant, between sectors or disciplines;*
- (25e) *‘programme co-funding action’ means an action to provide multi-annual co-funding to a programme of activities established and/or implemented by entities managing and/or funding research and innovation programmes, other than Union funding bodies. Such a programme of activities may support networking and coordination, research, innovation, pilot actions, and innovation and market deployment actions, training and mobility actions, awareness raising and communication, dissemination and exploitation, any relevant financial support, such as grants, prizes, procurement, as well as Horizon Europe blended finance or a combination thereof. The programme co-fund action may be implemented by those entities directly or by third parties on their behalf;*
- (25f) *‘pre-commercial procurement action’ means an action with the primary aim of realising pre-commercial procurement implemented by beneficiaries that are contracting authorities or contracting entities;*
- (25g) *‘public procurement of innovative solutions action’ means an action with the primary aim of realising joint or coordinated public procurement of innovative solutions implemented by beneficiaries that are contracting authorities or contracting entities;*
- (25h) *‘coordination and support action’ means an action contributing to the objectives of the Programme, excluding research and innovation activities, except when undertaken under the component "widening participation and spreading excellence" of the part "Widening Participation and strengthening the European Research Area"; and bottom-up coordination without co-funding of research activities from the EU that allows for cooperation between legal entities from Member States and Associated Countries in order to strengthen the European Research Area;*
- (25i) *"Inducement prize" means a prize to spur investment in a given direction, by specifying a target prior to the performance of the work*

- (25j) *"Recognition prize" in prize to reward past achievements and outstanding work after it has been performed*
- (25k) *"Innovation and market deployment action" means an action embedding an innovation action and other activities necessary to deploy an innovation in the market, including the scaling-up of companies, providing Horizon Europe blended finance (a mix of grant-type funding and private finance);*
- (25l) *"Indirect actions" means research and innovation activities to which the Union provides financial support and which are undertaken by participants;*
- (25m) *"Direct actions" means research and innovation activities undertaken by the Commission through its Joint Research Centre (JRC).*
- (27) *'procurement' means procurement as defined in Article 2(49) of the Financial Regulation;*
- (28) *'affiliated entity' means any legal entity as defined in Article 187(1) of the Financial Regulation;*
- (30) *'innovation ecosystem' means an ecosystem that brings together at EU level actors or entities whose functional goal is to enable technology development and innovation. They encompass relations between material resources (such as funds, equipment, and facilities), institutional entities (such as higher education institutions and support services, RTOs, companies, venture capitalists and financial intermediaries) and national, regional and local policy-making and funding entities;*

## Article 3

### Programme objectives

1. The Programme's general objective is to deliver scientific, **technological**, economic and societal impact from the Union's investments in research and innovation so as to strengthen the scientific and technological bases of the Union and foster its competitiveness **in all Member States** including in its industry, deliver on the Union strategic priorities and contribute to **the realisation of EU objectives and policies**, **contribute to** tackling global challenges, including the Sustainable Development Goals **by**

*following the principles of the Agenda 2030 and the Paris Agreement, and to strengthen the European Research Area. The Programme shall thus maximise Union added value by focusing on objectives and activities that cannot be effectively realised by Member States acting alone, but in cooperation.*

2. The Programme has the following specific objectives:
  - (a) to *develop, promote and advance scientific excellence*, support the creation and diffusion of high-quality new *fundamental and applied* knowledge, skills, technologies and solutions, *training and mobility of researchers, attract talent at all levels and contribute to full engagement of Union's talent pool in actions supported under this Programme*;
  - (b) to *generate knowledge*, strengthen the impact of research and innovation in developing, supporting and implementing Union policies and support the *access to and uptake of innovative solutions in European industry, notably in SMEs*, and society to address global challenges, *including climate change and the Sustainable Development Goals*;
  - (c) to foster all forms of innovation, *facilitate technological development, demonstration and knowledge and technology transfer*, strengthen  deployment and *exploitation* of innovative solutions;
  - (d) to optimise the Programme's delivery for *strengthening and increasing the impact and attractiveness of the European Research Area, to foster the excellence-based participations from all Member States, including low R&I performing Member States, in Horizon Europe and to facilitate collaborative links in European research and innovation.*

#### Article 4

##### Programme structure

1. The Programme is structured in the following parts contributing to the general and specific objectives set out in Article 3:
  - (1) Pillar I '*Excellent Science*'  with the following components:

- (a) the European Research Council (ERC);
  - (b) Marie Skłodowska-Curie Actions (MSCA);
  - (c) research infrastructures.
- (2) Pillar II 'Global Challenges and *European* Industrial Competitiveness' with the following components, *taking into account that social sciences and humanities (SSH) shall play an important role across all clusters*:
- (a) cluster 'Health';
  - (b) cluster '*Culture, creativity and inclusive society*';
  - (ba) cluster 'Civil Security for Society'*;
  - (c) cluster 'Digital, ■ Industry *and Space*';
  - (d) cluster 'Climate, Energy and Mobility';
  - (f) cluster 'Food, Bioeconomy, Natural Resources, Agriculture and Environment'*;
  - (g) non-nuclear direct actions of the Joint Research Centre (JRC).*
- (3) Pillar III '*Innovative Europe*' with the following components:
- (a) the European Innovation Council (EIC);
  - (b) European innovation ecosystems;
  - (c) the European Institute of Innovation and Technology (EIT) *established by Regulation (EC) No 294/2008.*
- (4) Part '*Widening participation and* strengthening the European Research Area', ■ with the following components:
- (a) *widening participation and spreading* excellence;
  - (b) reforming and enhancing the European R&I System.

2. The broad lines of activities are set out in Annex I.

## Article 5<sup>1</sup>

### Defense research *and development*

1. Activities to be carried out under the specific programme referred to in Article 1(3)(b) and which are laid down in Regulation establishing the European Defence Fund, shall **have** an exclusive focus on defence **research and development**, with the **following objectives and broad lines of activities**:
  - **activities aiming to foster the competitiveness, efficiency and innovation capacity of the European defence, technological and industrial base.**
2. **■** This Regulation does not apply to the specific programme referred to in Article 1(3)(b), with the exception of this Article, Article 1 **■** and Article 9(1).

## Article 6<sup>2</sup>

### **Strategic planning and implementation** and forms of EU funding

1. The Programme shall be implemented in direct management in accordance with the Financial Regulation or in indirect management with funding bodies referred to in Article 62(1)(c) of the Financial Regulation.

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<sup>1</sup> ***The following Commission declaration is expected to be published in the OJ C series once the final text of this Regulation is adopted:***

***“The Commission takes note of the compromise reached by the co-legislators on the wording of Article 5. In the Commission’s understanding the specific programme on defence research mentioned in Article 1(3)(b) is limited only to the research actions under the future European Defence Fund while the development actions are considered outside the scope of this Regulation”.***

<sup>2</sup> ***A Commission declaration is expected to be published in the OJ C series once the final text of the Regulation is adopted, along these lines: "Upon request, the Commission intends to exchange views with the responsible Committee in the European Parliament on:(i) the list of potential partnerships candidates based on the Articles 185 and 187 TFEU which will be covered by (inception) impact assessments; (ii) the list of tentative missions identified by the Mission boards; (iii)the results of the Strategic Plan before its formal adoption, and (iv) it will present and share documents related to work programmes."***

2. The Programme may provide funding to indirect actions in any of the forms laid down in the Financial Regulation, in particular grants ***which shall be the main form of support in the programme***. It may also provide financing ***through prizes, procurements and financial instruments within blending operations and equity support under the EIC Accelerator***.
3. The rules for participation and dissemination laid down in this Regulation shall apply to indirect actions.
4. The main types of action to be used under the Programme are set out and defined in ***Article 2***. The forms of funding, ***referred to in paragraph 2***, shall be used in a flexible manner across all objectives of the Programme with their use being determined on the basis of the needs and the characteristics of the particular objectives.
5. The Programme shall also support direct actions undertaken by the JRC. Where these actions contribute to initiatives established under Article 185 or Article 187 TFEU, this contribution shall not be considered as part of the financial contribution allocated to those initiatives.
6. The implementation of the specific programme ***and the EIT's KICs*** shall be ***supported by a transparent and strategic*** ***planning of research and innovation activities as laid down in the specific programme***, in particular for the pillar 'Global Challenges and ***European Industrial Competitiveness***' ***and cover also relevant activities in other pillars and the Widening Participation and Strengthening the European Research Area part***.

***The Commission shall ensure early involvement of the Member States and extensive exchanges with the European Parliament, complemented by consultation with stakeholders and the public at large.***

***The Strategic Planning shall ensure alignment with other relevant Union programmes and consistency with EU priorities and commitments and increase complementarity and synergies with national and regional funding programmes and priorities, thereby strengthening the ERA. Areas for possible missions and areas for possible institutionalised European Partnerships shall be established in Annex Va.***

- 6a. ***Where appropriate, in order to allow a faster access to funds for small collaborative consortia, a Fast Track to Research and Innovation Procedure (FTRI) may be proposed***

*under some of the calls for proposals dedicated to select research and / or innovation actions Under the Global Challenges and European Industrial Competitiveness and the European Innovation Council Pathfinder parts of the Framework Programme.*

*A call under the FTRI Procedure shall have the following cumulative characteristics:*

- bottom-up calls for proposals*
- a shorter time-to-grant, not exceeding 6 months;*
- a support provided only to small collaborative consortia composed of maximum 6 different and independent eligible legal entities;*
- a maximum financial support per consortium not exceeding EUR 2.5 million.*

*The work programme shall identify the calls using the FTRI Procedure.*

7. Horizon Europe activities shall be **█** delivered through *open, competitive* calls for proposals, *including within* missions and European Partnerships, *except for the activities referred to in Article 39 on Prizes.*

**█**

#### *Article 6a*

##### *Principles of the Programme*

1. *Research and innovation activities carried out under the specific Programme referred to in Article 1(3)(a) and under the EIT shall have an exclusive focus on civil applications. Budgetary transfers between the amount allocated to the specific programme referred to in Article 1(3)(a) and the EIT and the amount allocated to the specific programme referred to in Article 1(3)(b) shall not be allowed and unnecessary duplication between the two programmes shall be avoided.*
2. *Horizon Europe shall ensure a multidisciplinary approach and shall foresee, where appropriate, the integration of social sciences and humanities across all clusters and activities developed under the Programme, including specific calls on SSH related topics.*

3. *The collaborative parts of the Programme shall ensure a balance between lower and higher TRLs thereby covering the whole value chain.*
- 3a. *The Programme shall ensure the effective promotion and integration of cooperation with third countries and international organisations and initiatives based on mutual benefits, EU interests, international commitments and, where appropriate, reciprocity.*
4. *The Programme shall assist widening countries to increase participation in Horizon Europe and to promote broad geographical coverage in collaborative projects, including through spreading scientific excellence, boosting new collaborative links, stimulating brain-circulation as well as through the implementation of Articles 20(3) and 45(4). Those efforts shall be mirrored by proportional measures by Member States, including on setting attractive salaries for researchers, with the support of Union, national and regional funds. Particular attention shall be paid to geographical balance, subject to the situation in the field of research and innovation concerned, evaluation panels and in bodies such as boards and expert groups, without undermining the excellence criteria.*
5. *The Programme shall ensure the effective promotion of equal opportunities for all, and the implementation of gender mainstreaming, and of the gender dimension in the research and innovation content and shall aim to address the causes of gender imbalance. Particular attention shall be paid to ensuring to the extent possible gender balance, in evaluation panels and in other relevant advisory bodies such as boards and expert groups.*
- 5a. *Horizon Europe shall be implemented in synergy with other Union funding programmes while seeking maximal administrative simplification. A non-exhaustive list of synergies with other Union funding programmes is included in Annex IV.*
- 5b. *The Programme contributes to increasing public and private investment in R&I in Member States thereby helping to reach an overall investment of at least 3% of Union gross domestic product (GDP) in research and development.*
6. *The Commission when implementing the programme shall aim at continuous administrative simplification and reduction of the burden for the applicants and beneficiaries.*

7. *As part of the general Union objective of mainstreaming climate actions into EU sectoral policies and EU funds, actions under this Programme shall contribute at least 35% of the expenditure to climate objectives where appropriate. Climate mainstreaming shall be adequately integrated in research and innovation content.*
8. *The programme shall promote co-creation and co-design through engagement of citizens and civil society.*
9. *The programme shall ensure transparency and accountability of public funding in research and innovation projects, thereby preserving the public interest.*
10. *The Commission or the relevant funding body shall ensure that sufficient guidance and information is made available to all potential participants at the time of publication of the call for proposals, in particular the applicable model grant agreement.*

#### Article 7

#### Missions

1. Missions shall be programmed within the pillar 'Global Challenges and European Industrial Competitiveness', but may also benefit from actions carried out within other parts of the Programme *as well as complementary actions carried out under other Union funding programmes. Missions shall allow for competing solutions, resulting in pan-European added value and impact.*
2. The missions shall be *defined and* implemented in accordance with *the Regulation and* the Specific Programme, *ensuring the active and early involvement of the Member States and extensive exchanges with the European Parliament. The missions, their objectives, budget, targets, scope, indicators and milestones shall be identified in the Strategic R&I Plans or the Work Programmes as appropriate.* Evaluation of proposals under the *missions* shall be carried out in accordance with Article 26.
- 2a. *During the first three years of the programme, a maximum of 10% of the annual budget of Pillar II shall be programmed through specific calls for implementing the missions. For the remaining part of the programme, and only after a positive assessment of the mission selection and management process, this percentage may be increased. The*

***Commission shall communicate the total budgetary share of each work programme dedicated to missions.***

3. Missions shall:

- (a) ***using SDGs as sources for their design and implementation***, have a clear ***research and innovation content***, EU-added value, and contribute to reaching Union priorities ***and commitments and Horizon Europe programme objectives laid down in Article 3***;
- (aa) ***cover areas of common European relevance, be inclusive, encourage broad engagement and active participation of various types of stakeholders from public and private sectors, including citizens and end-users, and deliver R&I results that could benefit all Member States***;
- (b) be bold and inspirational, hence have wide, ***scientific, technological***, societal, economic, ***environmental or policy*** relevance ***and impact***;
- (c) indicate a clear direction ***and objectives*** and be targeted, measurable, time-bound ***and have a clear budget frame***;
- (d) ***be selected in a transparent manner and*** be centered on ambitious, ***excellence-based and impact-driven*** but realistic ***goals and*** research, ***development and*** innovation activities;
- (da) ***have the necessary scope, scale and mobilization of the resources and leverage of additional public and private funds required to deliver the mission outcome***;
- (e) ***stimulate*** activity across disciplines (***including Social Sciences and Humanities***) ***and encompassing activities from a broad range of TRLs, including lower TRLs***;
- (f) be open to multiple, bottom-up ***approaches and*** solutions ***taking into account human and societal needs and benefits and recognizing the importance of diverse contributions to achieve these missions***.
- (fa) ***benefit from synergies in a transparent manner with other Union programmes as well as with national and, where relevant, regional innovation ecosystems***.

4. *The Commission shall monitor and evaluate each mission in accordance with Articles 45 and 47 and Annex V to this Regulation, including progress towards short, medium and long-term targets, covering implementation, monitoring and phasing-out of the missions. An assessment of the first missions established under Horizon Europe shall take place no later than 2023 and before any decision is taken on creating new missions, continuing, terminating or redirecting ongoing missions. The results of this assessment shall be made public and shall include, but not limited to, the analysis of their selection process and of their governance, budget, focus and progress to date.*

#### *Article 7a*

#### *The European Innovation Council*

1. *The Commission shall establish a European Innovation Council (EIC) as a centrally-managed "one stop shop" for implementing actions under Pillar III 'Innovative Europe' which relate to the EIC. The EIC shall mainly focus on breakthrough and disruptive innovation, targeting especially market-creating innovation, while also supporting all types of innovation, including incremental. The EIC shall operate according to the following principles: clear EU added value, autonomy, ability to take risk, efficiency, effectiveness, transparency and accountability.*
2. *The EIC shall be open to all types of innovators including from individuals to universities, research organisations and companies (SMEs including start-ups and, in exceptional cases, small mid-caps) and from single beneficiaries to multi-disciplinary consortia. At least 70% of EIC budget shall be dedicated to SMEs, including start-ups.*
3. *The EIC Board and management features of the EIC are defined in Decision (EU)... [Specific Programme] and its annexes.*

#### Article 8

#### European Partnerships

1. Parts of Horizon Europe may be implemented through European Partnerships. The involvement of the Union in European Partnerships may take any of the following forms:
  - (a) participation in partnerships set up on the basis of memoranda of understanding and/or contractual arrangements between the Commission and the partners referred to in Article 2(3), specifying the objectives of the partnership, related commitments

*from all involved sides* for financial and/or in-kind contributions of the partners, key performance and impact indicators, outputs to be delivered **and reporting modalities**. They include the identification of complementary research and innovation activities that are implemented by the partners and by the Programme (Co-programmed European Partnerships);

- (b) participation in and financial contribution to a programme of research and innovation activities, **specifying the objectives, key performance and impact indicators, and outputs to be delivered**, based on the commitment of the partners for financial and/or in-kind contributions and integration of their relevant activities using a Programme co-fund action (Co-funded European Partnerships);
- (c) participation in and financial contribution to research and innovation programmes undertaken by several Member States in accordance with Article 185 TFEU, or by bodies established pursuant to Article 187 TFEU, such as Joint Undertakings, or by the EIT Knowledge and Innovation Communities in compliance with the EIT Regulation (Institutionalised European Partnerships). **Such partnerships shall be implemented only where other parts of the Horizon Europe programme, including other forms of European Partnerships would not achieve the objectives or would not generate the necessary expected impacts, and if justified by a long-term perspective and high degree of integration. Partnerships in accordance with Article 185 TFEU or pursuant to Article 187 TEFU shall implement a central management of all financial contributions, except in duly justified cases. In case of central financial management, project level contributions from one participating state will be made on the basis of the funding requested in proposals from entities established in that participating state, unless otherwise agreed among all participating states concerned.**

**The rules for such partnerships shall specify inter alia the objectives, key performance and impact indicators, and outputs to be delivered, as well as the related commitments for financial and/or in-kind contributions of the partners.**

2. European Partnerships shall:

- (a) Be established *for addressing European or global challenges only* in cases where they will more effectively achieve objectives of Horizon Europe than the Union alone *and when compared to other forms of support of the Framework programme. Those parts shall have an appropriate share of the budget of Horizon Europe. The majority of the budget in pillar II shall be allocated to actions outside of European partnerships*;
- (b) Adhere to the principles of Union added value, transparency, openness, impact *within and for Europe, strong* leverage effect *on sufficient scale*, long-term *commitments* of all the involved parties, flexibility *in implementation*, coherence, coordination and complementarity with Union, local, regional, national and, *where relevant*, international initiatives *or other partnerships and missions*;
- (c) *Have a clear life-cycle approach*, be time limited and include conditions for phasing-out the Programme funding.

**2.a. *European Partnerships according to Article 8(1)(a and b) of this Regulation shall be identified in Strategic R&I Plans before being implemented in work programmes.***

Provisions and criteria for their selection, implementation, monitoring, evaluation and phasing-out are set out in Annex III.

#### *Article 8a*

#### *Review of missions and partnership areas*

*No later than 2023, the Commission shall carry out a review of Annex Va as part of the overall monitoring of the programme, including missions and institutionalised European partnerships on the basis of article 185 TFEU or article 187 TFEU, and present a report on the main findings to the Council and the European Parliament.*

#### Article 9

#### Budget

1. The financial envelope for the implementation of the Framework Programme for the period 2021 – 2027 shall be EUR **120 000 000 000 in 2018** prices for the specific programme referred to in Article 1(3)(a) and, in addition, the amount for the specific programme

referred to in Article 1(3)(b), as laid down in Regulation establishing the European Defence Fund.

2. The indicative distribution of the amount referred to in paragraph 1, first half sentence, shall be:

(a) **27.42 %** for Pillar I '*Excellent and Open Science*' for the period 2021-2027, of which

(1) **17.64%** for the European Research Council;

(2) **7.23%** for Marie Skłodowska-Curie Actions;

(3) **2.55%** for research infrastructures;

(b) **55.48%** for Pillar II 'Global Challenges and *European Industrial Competitiveness*' for the period 2021-2027, of which

(1) **8.16%** for cluster 'Health';

(2) **2.50%** for cluster 'Inclusive and ~~Secure~~ *Creative Society*';

**(2a) 2.00% for cluster '*Secure Societies*';**

(3) **15.94%** for cluster 'Digital ~~and~~, Industry *and Space*';

(4) **15.84%** for cluster 'Climate, Energy and Mobility';

(5) **9.00%** for cluster 'Food ~~and~~, Natural Resources *and Agriculture*';

(6) **2.04% for** for the non-nuclear direct actions of the Joint Research Centre (JRC);

(c) **12.71%** for Pillar III '*Innovative Europe*' for the period 2021-2027, of which:

(1) **8.71%** for the European Innovation Council; (*EIC*) including up to **0.53%** for European Innovation Ecosystems;

(2) **4%** for the European Institute of Innovation and Technology (EIT);

(d) **4.39% for the** Part 'Strengthening the European Research Area' *with the following components*:

(1) **4.00% for Spreading excellence' and widening participation across the Union;**

(2) **'0.39% for reforming and enhancing the European R&I System'.**

3. In order to respond to unforeseen situations or to new developments and needs, the Commission may, within the annual budgetary procedure, deviate from the amounts referred to in paragraph 2 up to a maximum of **10%, including the allocation of the contributions from associated countries.**

**3c. 45% of the budget of cluster 'Inclusive and Creative Society' shall support research on cultural and creative sectors, including the Union's cultural heritage, that shall include EUR 300 million to be earmarked for the creation of a European Cultural Heritage Cloud, as set out in Annex I to the Specific Programme following an impact assessment to be presented to the European Parliament.**

**3d. At least EUR 1 billion shall aim to be dedicated to Quantum Research under the 'Digital, Industry and Space' cluster under Pillar II.**

4. The amount referred to in paragraph 1 **for the specific programme referred to in Article 1(3)(a) and for the EIT**, may also cover expenses for preparation, monitoring, control, audit, evaluation and other activities and expenditures necessary for managing and implementing the Programme, including all administrative expenditure, as well as evaluating the achievement of its objectives. **The administrative expenses related to indirect actions shall not exceed 5% of the total amount under the Programme.** It may moreover cover expenses relating to the studies, meetings of experts, information and communication actions, in so far as they are related to the objectives of the Programme, as well as expenses linked to information technology networks focusing on information processing and exchange, including corporate information technology tools and other technical and administrative assistance needed in connection with the management of the Programme.

5. If necessary, appropriations may be entered in the budget beyond 2027 to cover the expenses provided for in paragraph 4, to enable the management of actions not completed by 31 December 2027.

6. Budgetary commitments for actions extending over more than one financial year may be broken down over several years into annual instalments.
7. Without prejudice to the Financial Regulation, expenditure for actions resulting from projects included in the first work programme may be eligible as from 1 January 2021.

Article 10  
Open science

**1. *The programme shall encourage open science as an approach to the scientific process based on cooperative work and diffusing knowledge, in particular in line with the following elements:***

- open access to scientific publications resulting from research funded under the Programme;
- open access to research data, including those underlying scientific publications.

*These elements shall be ensured in accordance with Article 35(3) of this regulation. The latter shall also be in line with the principle 'as open as possible, as closed as necessary';*

**1a. *The principle of reciprocity in open science shall be promoted and encouraged in all association and cooperation agreements with third countries, including agreements signed by funding bodies entrusted for indirect management of the Programme.***

2. Responsible management of research data shall be ensured in line with the principles 'Findability', 'Accessibility', 'Interoperability' and 'Reusability' (FAIR). ***Attention shall also be paid to the long-term preservation of data.***

3. ***Other open science practices shall be promoted and encouraged, including for the benefit of SMEs.***

Complementary , combined *and cumulative* funding

1. *Horizon Europe shall be implemented in synergy with other Union funding programmes while seeking maximal administrative simplification. A non-exhaustive list of synergies with other funding programmes is included in Annex IV. A The Horizon Europe single set of rules shall apply for an RDI co-funded action.*

2. *The Seal of Excellence shall be awarded for all parts of the Programme.* Actions awarded a Seal of Excellence certification, or which comply with the following cumulative, comparative, 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 may not be financed under that call for proposals due to budgetary constraints,

may receive support *from national or regional funds, including* from the European Regional Development Fund, the Cohesion Fund, the European Social Fund+ or the European Agricultural Fund for Rural Development, in accordance with paragraph 5 of Article [67] of Regulation (EU) XX [Common Provisions Regulation] and Article [8] of Regulation (EU) XX [Financing, management and monitoring of the Common Agricultural Policy], *without requiring any further application and evaluation and* provided that such actions are consistent with the objectives of the programme concerned. *With the exception of state aid rules*, the rules of the Fund providing support shall apply.

**2a. In accordance with Article 21 of Regulation (EU) XX [... Common Provisions Regulation], the managing authority, on a voluntary basis, may request the transfer of parts of its financial allocations to Horizon Europe. Transferred resources shall be implemented in accordance with the rules of Horizon Europe. In addition, the Commission shall ensure that such transferred funds are earmarked entirely for programmes and/or projects which will be implemented in the Member State or region, as applicable, they originated from.**

**2b. With prior authorisation from the applicants, the Commission shall include the allocations referred to in this Article in the information system on selected projects in order to allow for a fast exchange of information and enable financing authorities to provide funding to the selected actions.**

**An action that has received a contribution from another Union programme may also receive a contribution under the Programme, provided that the contributions do not cover the same costs.**

## Article 12

### Third countries associated to the Programme

**1. The Programme shall be open to association of the following third countries:**

- (a) European Free Trade Association (EFTA) members which are members of the European Economic Area (EEA), in accordance with the conditions laid down in the EEA agreement;
- (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 similar agreements, and in accordance with the specific conditions laid down in agreements between the Union and those countries;
- (c) countries covered by the European Neighbourhood Policy, in accordance with the general principles and general terms and conditions for the participation of those countries in Union programmes established in the respective framework agreements and Association Council decisions, or similar agreements, and in accordance with the specific conditions laid down in agreements between the Union and those countries;
- (d) third countries and territories that fulfil all of the following criteria:
  - i. a good capacity in science, technology and innovation;
  - ii. commitment to a rules-based open market economy, including fair and equitable dealing with intellectual property rights, *respect of human rights*, backed by democratic institutions;

iii. active promotion of policies to improve the economic and social well-being of citizens.

**Full or partial** association to the Programme of each of the third countries under point(d) shall **be based on an assessment of the benefits for the Union. It shall in particular** be in accordance with the conditions laid down in a specific agreement covering the participation of the third country to any Union programme, provided that the agreement:

- ensures a fair balance as regards the contributions and benefits of the third country participating in the Union programmes;
- **confers the right to coordinate an action under the Programme provided that it benefits the Union and that the protection of Union's financial interest is ensured;**
- lays down the conditions of participation in the programmes, **Programme** including the calculation of financial contributions to individual **(sub-)** programmes and their administrative costs. These contributions shall constitute assigned revenues in accordance with Article 21(5) of the Financial Regulation;

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

2. The scope of association of each third country to the Programme shall take into account the objective of driving economic growth in the Union through innovation **and shall avoid the brain drain from the Union**. Accordingly, with the exception of EEA members, acceding countries, candidate countries and potential candidates, **mono-beneficiary** parts of the Programme may be excluded from an association agreement for a specific country, **in particular those dedicated to private entities**.
3. The association agreement shall, where appropriate, provide for **and pursue reciprocal** participation of legal entities established in the Union in equivalent programmes of associated countries in accordance with the conditions laid down therein.
4. The **association agreement** conditions determining the level of financial contribution shall ensure an automatic correction, **every two years** of any ~~significant~~ imbalance compared to the amount that entities established in the associated country receive through participation in the Programme, taking into account the costs in the management, execution and operation of the Programme.

**4a. The contributions of all associated countries shall be included in the relevant parts of the Programme provided that the budget breakdown as specified in Article 9, paragraph 2 is respected. The Commission shall report to the Council and the Parliament during the annual budgetary procedure the total budget of each part of the Programme, identifying each of the associated countries, individual contributions and their financial balance.**

## TITLE II

### RULES FOR PARTICIPATION AND DISSEMINATION

#### CHAPTER I

##### General provisions

##### Article 13

##### Funding bodies and direct actions of JRC

1. Funding bodies may depart from the rules set out in this Title, **except from Articles 14, 15 and 16, in duly justified cases and** only if this is provided for in the basic act setting up the funding body or entrusting budget implementation tasks to it or, for funding bodies under Article 62(1)(c)(ii), (iii) or (v) of the Financial Regulation, if it is provided for in the contribution agreement and their specific operating needs or the nature of the action so require.
2. The rules set out in this Title shall not apply to direct actions undertaken by the JRC.

##### Article 14

##### Eligible actions **and ethical principles**

1. Without prejudice to **paragraphs 2** of this Article, only actions implementing the objectives referred to in Article 3 shall be eligible for funding.

The following fields of research shall not be financed:

- (a) activities aiming at human cloning for reproductive purposes;

- (b) activities intended to modify the genetic heritage of human beings which could make such changes heritable<sup>1</sup>;

- 
- (c) activities intended to create human embryos solely for the purpose of research or for the purpose of stem cell procurement, including by means of somatic cell nuclear transfer.

2. Research on human stem cells, both adult and embryonic, may be financed, depending both on the contents of the scientific proposal and the legal framework of the Member States involved. No funding shall be granted, ***neither within nor outside the EU***, for research activities that are prohibited in all the Member States. No activity shall be funded in a Member State where such activity is forbidden.

## Article 15

### Ethics<sup>2</sup>

1. Actions carried out under the Programme shall comply with ethical principles and relevant national, Union and international legislation, including the Charter of Fundamental Rights of the European Union and the European Convention on Human Rights and its Supplementary Protocols.

Particular attention shall be paid to the principle of proportionality, the right to privacy, the right to the protection of personal data, the right to the physical and mental integrity of a person, the right to non-discrimination, the need to ensure ***protection of the environment*** and high levels of human health protection.

2. Entities participating in the action shall provide:

- (a) an ethics self-assessment identifying and detailing all the foreseeable ethics issues related to the objective, implementation and likely impact of the activities to be

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<sup>1</sup> Research relating to cancer treatment of the gonads can be financed

<sup>2</sup> ***Subject to the final legal act, the Commission will issue a statement on human embryonic stem cell research as in H2020 (Declaration 2013 / C 373/02).***

funded, including a confirmation of compliance with paragraph 1, and a description of how it will be ensured;

- (b) a confirmation that the activities will comply with the European Code of Conduct for Research Integrity published by All European Academies and that no activities excluded from funding will be conducted;
- (c) for activities carried out outside the Union, a confirmation that the same activities would have been allowed in a Member State; and
- (d) for activities making use of human embryonic stem cells, as appropriate, details of licensing and control measures that shall be taken by the competent authorities of the Member States concerned as well as details of the ethics approvals that shall be obtained before the activities concerned start.

3. Proposals shall be systematically screened to identify those actions raising complex or serious ethics issues and submit them to an ethics assessment. The ethics assessment shall be carried out by the Commission unless it is delegated to the funding body. For actions involving the use of human embryonic stem cells or human embryos, an ethics assessment shall be mandatory. Ethics screenings and assessments shall be carried out with the support of ethics experts. The Commission and the funding bodies shall ensure the transparency of the ethics procedures *without prejudice to the confidentiality of the content of the procedure*.
4. Entities participating in the action shall obtain all approvals or other mandatory documents from the relevant national, local ethics committees or other bodies such as data protection authorities before the start of the relevant activities. Those documents shall be kept on file and provided to the Commission or funding body upon request.
5. If appropriate, ethics checks shall be carried out by the Commission or funding body. For serious or complex ethics issues, the checks shall be carried out by the Commission unless it is delegated to the funding body.

Ethics checks shall be carried out with the support of ethics experts.

6. Actions which *do not fulfil the ethical requirements referred to in paragraphs 1-4 and are thus not ethically acceptable and therefore shall* be rejected or terminated *once the ethical unacceptability has been established*.

## Article 16

### Security

1. Actions carried out under the Programme shall comply with the applicable security rules and in particular rules on protection of classified information against unauthorised disclosure, including compliance with any relevant national and Union law. In case of research carried out outside the Union using and/or generating classified information, it is necessary that, in addition to the compliance with those requirements, a security agreement shall have to be concluded between the Union and the third country in which the research is conducted.
2. Where appropriate, proposals shall include a security self-assessment identifying any security issues and detailing how these issues will be addressed in order to meet the relevant national and Union law.
3. Where appropriate, the Commission or funding body shall carry out a security scrutiny for proposals raising security issues.
4. Where appropriate, the actions shall comply with Decision (EU, Euratom) 2015/444, and its implementing rules.
5. Entities participating in the action shall ensure the protection against unauthorised disclosure of classified information used and/or generated by the action. They shall provide proof of personal and/or facility security clearance from the relevant national security authorities, prior to the start of the activities concerned.
6. If external experts have to deal with classified information, the appropriate security clearance shall be required before those experts are appointed.
7. Where appropriate, the Commission or funding body may carry out security checks.

■ Actions which do not comply with *the* security rules *under this Article* may be rejected or terminated at any time.

## CHAPTER II

### Grants

#### Article 17

##### Grants

Grants under the Programme shall be awarded and managed in accordance with Title VIII of the Financial Regulation, unless otherwise specified in this Chapter.

#### Article 18

##### Entities eligible for participation

1. Any legal entity, regardless of its place of establishment, ***including legal entities from non-associated third countries*** or international organisation may participate in actions under the Programme, provided that the conditions laid down in this Regulation have been met together with any conditions laid down in the work programme or call.
2. Entities shall be part of a consortium that shall include at least three independent legal entities each established in a different Member State or associated country and with at least one of them established in a Member State, unless:
  - (a) the work programme provides otherwise, if ***duly*** justified;
3. European Research Council (ERC) frontier research actions, European Innovation Council (EIC) actions, training and mobility actions or programme co-fund actions may be implemented by one or more legal entities, one of which must be established in a Member State or associated country ***on the basis of an agreement concluded in accordance with Article 12.***
4. Coordination and support actions may be implemented by one or more legal entities, which may be established in a Member State, ***or*** associated country or in another third country.
5. For actions related to Union strategic assets, interests, autonomy or security, the work programme may provide that the participation can be limited to those legal entities

established in Member States only, or to those legal entities established in specified associated or other third countries in addition to Member States.

6. *Where appropriate and duly justified*, the work programme may provide for eligibility criteria in addition to those set out in paragraphs 2, 3, 4, and 5 according to specific policy requirements or to the nature and objectives of the action, including the number of legal entities, the type of legal entity and the place of establishment.
7. For actions benefiting from amounts under Article *11*, the participation shall be limited to a single legal entity established in the jurisdiction of the delegating Managing Authority, except if otherwise agreed with the Managing Authority and provided for in the work programme.
8. Where indicated in the work programme, the *JRC* may participate in actions.
9. The *JRC*, international European research organisations and legal entities created under Union law shall be deemed to be established in a Member State other than the ones in which other legal entities participating in the action are established.
10. For European Research Council (ERC) frontier research actions, training and mobility actions *and when provided for in the work programme*, international organisations with headquarters in a Member State or associated country shall be deemed to be established in this Member State or associated country.

*For other parts of the Programme, international organisations other than international European research organisations shall be deemed to be established in a non-associated third country.*

## Article 19

### Entities eligible for funding

1. Entities are eligible for funding if they are established in a Member State or associated country *as referred to in Article 12*.

For actions benefiting from amounts under Article *11(3)*, only entities established in the jurisdiction of the delegating Managing Authority shall be eligible for funding out of these amounts.

**1b. Low to middle income countries and exceptionally for other non-associated third countries they could be eligible for funding in an action if:**

**(a) the third country is identified in the work programme; and**

**(b) the Commission or funding body consider that its participation is essential for implementing the action;**

2. Entities established in *other* non-associated third country should bear the cost of their participation. *R&D agreements between those non-associated third countries and the Union can be made wherever deemed useful, and co-funding mechanism similar to the ones agreed inside Horizon 2020 may be established. Those countries shall ensure reciprocal access for Union legal entities to those countries' RDI funding programmes, as well as reciprocity in open access to scientific results and data and to fair and equitable terms for intellectual property rights.*

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3. Affiliated entities are eligible for funding in an action if they are established in a Member State; *or* Associated country █ .

**3a. The Commission shall report to the Parliament and the Council specifying, for each non-associated third country, the amount of the Union's financial contributions provided to the participating entities and the amount of the financial contributions provided by the same country to Union entities participating in their activities.**

## Article 20

### Calls for proposals

1. █ The content of the calls for proposals *for all actions* shall be included in the work programme.

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3. If necessary to achieve their objectives, calls may, *in exceptional cases*, be restricted to develop additional activities or to add additional partners to existing actions. *In addition, the work programme may foresee the possibility for legal entities from low R&I performing Member States to join already selected collaborative R&I actions, subject to the agreement of the respective consortium and provided that legal entities from such Member States are not yet participating in it.*
4. A call for proposals is not required for coordination and support actions or programme co-fund actions which:
  - (a) are to be carried out by the *JRC* or legal entities identified in the work programme;  
and
  - (b) do not fall within the scope of a call for proposals, *in accordance with Article 195(e) of the Financial Regulation*.
5. The work programme shall specify calls for which "Seals of Excellence" will be awarded. With prior authorisation from the applicant, information concerning the application and the evaluation may be shared with interested financing authorities, subject to the conclusion of confidentiality agreements.

## Article 21

### Joint calls

The Commission or funding body may issue a joint call for proposals with:

- (a) third countries, including their scientific and technological organisations or agencies;
- (b) international organisations;
- (c) non-profit legal entities.

In the case of a joint call, *applicants shall fulfil the requirements under Article 18 of this Regulation and* joint procedures shall be established for selection and evaluation of proposals. The procedures shall involve a balanced group of experts appointed by each party.

## Article 22

### Pre-commercial procurement and procurement of innovative solutions

1. Actions may involve or have as their primary aim pre-commercial procurement or public procurement of innovative solutions that shall be carried out by beneficiaries which are contracting authorities or contracting entities as defined in Directives 2014/24/EU<sup>1</sup>, 2014/25/EU<sup>2</sup> and 2009/81/EC<sup>3</sup>.
2. The procurement procedures:
  - (a) shall comply with the principles of transparency, non-discrimination, equal treatment, sound financial management, proportionality and competition rules;
  - (b) for pre-commercial procurement, *where appropriate and without prejudice to the principles enumerated in point (a), a simplified and/or accelerated procedure may be used and* may provide for specific conditions such as the place of performance of the procured activities being limited to the territory of the Member States and *of Associated Countries*.
  - (c) may authorise the award of multiple contracts within the same procedure (multiple sourcing); and
  - (d) shall provide for the award of the contracts to the tender(s) offering best value for money while ensuring absence of conflict of interest.
3. The contractor generating results in pre-commercial procurement shall own at least the attached intellectual property rights. The contracting authorities shall enjoy at least royalty-free access rights to the results for their own use and the right to grant, or require the participating contractors to grant, non-exclusive licences to third parties to exploit the results for the contracting authority under fair and reasonable conditions without any right

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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, 28.03.2014, 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, 28.03.2014, p. 243).

<sup>3</sup> Directive 2009/81/EC of the European Parliament and of the Council of 13 July 2009 on the coordination of procedures for the award of certain works contracts, supply contracts and service contracts by contracting authorities or entities in the fields of defence and security, and amending Directives 2004/17/EC and 2004/18/EC (OJ L 216, 20.08.2009, p.76).

to sub-license. If a contractor fails to commercially exploit the results within a given period after the pre-commercial procurement as identified in the contract, the contracting authorities, *after having consulted the contractor on the reasons for the non-exploitation*, can require it to transfer any ownership of the results to the contracting authorities.

## Article 24

### *Financial capacity of applicants*

1. ***In addition to the exceptions mentioned in*** Article 198(5) of the Financial Regulation, the financial capacity shall be verified only for the coordinator and only if the requested funding from the Union for the action is equal to or greater than EUR 500 000.
2. However, if there are grounds to doubt the financial capacity or if there is a higher risk due to the participation in several ongoing actions funded by Union research and innovation programmes, the Commission or funding body shall verify also the financial capacity of other applicants or of coordinators below the threshold referred to in paragraph 1.
3. If the financial capacity is structurally guaranteed by another legal entity, the financial capacity of the latter shall be verified.
4. In case of weak financial capacity, the Commission or funding body may make participation of the applicant conditional on provision of a declaration on joint and several liability by an affiliated entity.
5. The contribution to the Mutual Insurance Mechanism set out in Article 33 shall be considered a sufficient guarantee under Article 152 of the Financial Regulation. No additional guarantee or security may be accepted from beneficiaries or imposed upon them.

## Article 25

### *Award criteria and selection*

1. A proposal shall be evaluated on the basis of the following award criteria:
  - (a) excellence;
  - (b) impact;

- (c) quality and efficiency of the implementation.
2. Only the criterion referred to in point (a) of paragraph 1 shall apply to proposals for ERC frontier research actions.
3. The work programme shall lay down further details of the application of the award criteria laid down in paragraph 1 ***including any weighting, thresholds and where relevant rules for dealing with ex-aequo proposals, taking into consideration the objectives of the call for proposals. The conditions for dealing with ex-aequo proposals may include, but not limited to, the following criteria: SMEs, gender, geographical diversity.***
- 3a. ***The Commission and other funding bodies shall take into account the possibility of a two-stage submission procedure and where appropriate, anonymised proposals may be evaluated during the first stage of evaluation based on one or more of the award criteria referred to in paragraph 1.***

#### Article 26

#### Evaluation

1. Proposals shall be evaluated by the evaluation committee which ***shall*** be composed of external independent experts.

***For EIC activities, missions and in duly justified cases as set out in the work programme adopted by the Commission, the evaluation committee may be composed partially or, in the case of coordination and support actions, partially or fully of representatives of Union Institutions or bodies as referred to in Article 150 of the Financial Regulation.***

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The evaluation ***process*** may be ***followed*** by independent ***observers***.

2. **Wherever applicable**, the evaluation committee shall rank the proposals having passed the applicable thresholds, according to:
- (a) the evaluation scores;
- (b) their contribution to the achievement of specific policy objectives, including the constitution of a consistent portfolio of projects ***namely for EIC pathfinder***

*activities, missions and in other duly justified cases as set out in the work programme adopted by the Commission in detail.*

*For EIC activities, missions and in other duly justified cases as set out in the work programme adopted by the Commission in detail, the evaluation committee may also propose adjustments to the proposals in as far as needed for the consistency of the portfolio approach. These adjustments shall be in conformity with the conditions for participation and comply with the principle of equal treatment. The Programme Committee shall be informed of such cases.*

- 2a. The evaluation process shall be designed to avoid conflict of interest and bias. The transparency of the evaluation criteria and of the proposal scoring method shall be guaranteed.*
- 3. In accordance with Article 200 (7) of the Financial Regulation, applicants shall receive feedback at all stages of the evaluation and, where applicable, the reasons for rejection.*
- 4. Legal entities established in low R&I performing Member States who have participated successfully in the component "Widening Participation and Sharing Excellence" shall receive, upon request, a record of this participation that may accompany proposals to the collaborative parts of the programme that they coordinate.*

#### Article 27

##### Evaluation review procedure, enquiries and complaints

- 1. An applicant may request an evaluation review if it considers that the applicable evaluation procedure has not been correctly applied to its proposal<sup>1</sup>.*
- 2. An evaluation review applies only to the procedural aspects of the evaluation, not to the evaluation of the merits of the proposal.*
- 2a. A request for review shall relate to a specific proposal and shall be submitted within 30 days after the communication of evaluation results.*

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<sup>1</sup> *The procedure will be explained in a document published before the start of the evaluation process.*

*An evaluation review committee shall provide an opinion on the procedural aspects, and shall be chaired by and include staff of the Commission or of the relevant funding body who were not involved in the evaluation of the proposals. The committee may recommend one of the following:*

- (a) re-evaluation of the proposal primarily by evaluators not involved in the previous evaluation;*
- (b) confirmation of the initial evaluation.*

3. An evaluation review shall not delay the selection process for proposals that are not the subject of review.

**3a. *The Commission shall ensure the existence of a procedure for participants to make direct enquiries and complaints about their involvement in Horizon Europe. Information on how to register enquiries or complaints shall be made available on-line.***

#### Article 28

#### Time to grant

1. By derogation from the first subparagraph of Article 194(2) of the Financial Regulation, the following periods shall apply:

- (a) for informing all applicants of the outcome of the evaluation of their application, a maximum period of five months from the final date for submission of complete proposals;
- (b) for signing grant agreements with applicants, a maximum period of eight months from the final date for submission of complete proposals.

2. The work programme may establish shorter periods.

3. In addition to the exceptions laid down in the second subparagraph of Article 194(2) of the Financial Regulation, the periods referred to in paragraph 1 may be exceeded for actions of the ERC, for missions and when actions are submitted to an ethics or security assessment.

#### Article 29

##### Implementation of the grant

1. If a beneficiary fails to comply with its obligations regarding the technical implementation of the action, the other beneficiaries shall comply with those obligations without any additional Union funding, unless they are expressly relieved of that obligation. The financial responsibility of each beneficiary shall be limited to its own debt subject to the provisions relating to the Mutual Insurance Mechanism.
2. The grant agreement may establish milestones and related pre-financing installments. If milestones are not met, the action may be suspended, amended or, *if duly justified, be terminated.*
3. The action may also be terminated where expected results have lost their relevance for the Union due to scientific *or* technological *reasons, or in the case of the EIC accelerator also due to* economic reasons, *or* in the case of EIC and missions *due to* their relevance as part of a portfolio of actions. *The Commission shall undergo a procedure with the action coordinator and if appropriate with external experts, before deciding to terminate an action, in accordance with Article 133 of the Financial Regulation.*

#### Article 29a

##### Model Grant Agreement

1. *The Commission shall, in close cooperation with the Member States, draw up model grant agreements between the Commission or the relevant funding body and the beneficiaries in accordance with this Regulation. If a significant modification of a model grant agreement is required, inter alia in view of further simplification for beneficiaries, the Commission shall, in close cooperation with the Member States, revise it as appropriate.*
2. *The grant agreement shall establish the rights and obligations of the beneficiaries and of either the Commission or the relevant funding body in compliance with this Regulation. It shall also establish the rights and obligations of legal entities which become*

*beneficiaries during the implementation of the action, as well as the role and tasks of a consortium coordinator.*

## Article 30

### Funding rates

1. A single funding rate per action shall apply for all activities it funds. The maximum rate *per action* shall be fixed in the work programme.
2. The Programme may reimburse up to 100 % of total eligible costs of an action, except for:
  - (a) innovation actions: up to 70 % of the total eligible costs, except for non-profit legal entities where the Programme may reimburse up to 100 % of the total eligible costs;
  - (b) programme co-fund actions: at least 30 % of the total eligible costs, and in identified and duly justified cases up to 70 %.
3. The funding rates determined in this Article shall also apply for actions where flat rate, unit or lump sum financing is fixed for the whole or part of the action.

## Article 31

### Indirect costs

1. Indirect eligible costs shall be determined by applying a flat rate of 25 % of the total direct eligible costs, excluding direct eligible costs for subcontracting, financial support to third parties and any unit costs or lump sums which include indirect costs.

Where appropriate, indirect costs included in unit costs or lump sums shall be calculated using the flat rate set out in paragraph 1, except for unit costs for internally invoiced goods and services which shall be calculated on the basis of actual costs, in accordance with the beneficiaries' usual costs accounting *practice*.

2. However, if provided for in the work programme, indirect costs may be declared in the form of a lump sum or unit costs.

## Article 32

### Eligible costs

1. In addition to the criteria set out in Article **186** of the Financial Regulation, for beneficiaries with project-based remuneration, costs of personnel are eligible up to the remuneration that the person *would be* paid for work in **R&I** projects funded by national schemes *including social security charges and other costs linked to the remuneration of personnel assigned to the action, arising from national law or from the employment contract*.

Project-based remuneration means remuneration that is linked to the participation of a person in projects, is part of the beneficiary's usual remuneration practices and is paid in a consistent manner.

2. By derogation from Article 190(1) of the Financial Regulation, costs of resources made available by third parties by means of in-kind contributions shall be eligible, up to the direct eligible costs of the third party.
3. By derogation from Article 192 of the Financial Regulation, income generated by the exploitation of the results shall not be considered as receipts of the action.
- 3a. *Beneficiaries may use their usual accounting practices to identify and declare the costs incurred in relation to an action in compliance with all terms and conditions set out in the grant agreement, in line with this Regulation and Article 186 of Financial regulation.*
4. By derogation from Article 203(4) of the Financial Regulation, a certificate on the financial statements shall be mandatory at payment of the balance, if the amount claimed as actual costs and unit costs calculated in accordance with usual cost accounting practices is equal to or greater than EUR 325 000.

*Certificates on financial statements may be produced by an approved external auditor or, in the case of public bodies, issued by a competent and independent public officer in line with Article 203, Para 4 of Financial regulation.*

- 4a. *Where appropriate, for MSCA training and mobility grants, the EU contribution shall take due account of any additional costs of the beneficiary related to maternity or*

*parental leave, sick leave, special leave or change of recruiting host organisation or family status of researcher during the lifetime of the grant agreement.*

- 4b. *Costs related to open access including data management plans shall be eligible for reimbursement as further stipulated in the grant agreement.*

### Article 33

#### Mutual Insurance Mechanism

1. A Mutual Insurance Mechanism (the 'Mechanism') is hereby established which shall replace and succeed the fund set up in accordance with Article 38 of Regulation (EC) No 1290/2013. The Mechanism shall cover the risk associated with non-recovery of sums due by the beneficiaries:

(a) to the Commission under Decision No 1982/2006/EC,

(b) to the Commission and Union bodies under "Horizon 2020",

(c) to the Commission and funding bodies under the Programme.

The coverage of the risk regarding funding bodies referred to in point (c) of the first subparagraph may be implemented through an indirect coverage system set out in the applicable agreement and taking into account the nature of the funding body.

2. The Mechanism shall be managed by the Union, represented by the Commission acting as executive agent. The Commission shall set up specific rules for the operation of the ***Mechanism***.
3. Beneficiaries shall make a contribution of 5 % of the Union funding for the action. On the basis of periodic ***transparent*** evaluations, this contribution may be raised by the Commission up to 8% or may be reduced under 5%. The beneficiaries' contribution to the Mechanism ***shall*** be offset from the initial pre-financing and be paid to the ***Mechanism*** on behalf of the beneficiaries, ***and shall in no circumstance exceed the amount of the initial pre-financing***.
4. The contribution of the beneficiaries shall be returned at the payment of the balance.

5. Any financial return generated by the Mechanism shall be added to the Mechanism. If the return is insufficient, the Mechanism shall not intervene and the Commission or funding body shall recover directly from beneficiaries or third parties any amount owed.
6. The amounts recovered shall constitute revenue assigned to the Mechanism within the meaning of Article 21(5) of the Financial Regulation. Once all grants whose risk is covered directly or indirectly by the Mechanism are completed, any sums outstanding shall be recovered by the Commission and entered into the budget of the Union, subject to decisions of the legislative authority.
7. The Mechanism may be *extended* to beneficiaries of any other directly managed Union programme. The Commission shall adopt modalities for participation of beneficiaries of other programmes.

#### Article 34

##### Ownership and protection

1. Beneficiaries shall own the results they generate. They shall ensure that any rights of their employees or any other parties in relation to the results can be exercised in a manner compatible with the beneficiaries' obligations in accordance with the terms and conditions laid down in the grant agreement.

Two or more beneficiaries shall own results jointly if:

- (a) they have jointly generated them; and
- (b) it is not possible to:
  - (i) establish the respective contribution of each beneficiary,or
  - (ii) separate them when applying for, obtaining or maintaining their protection.

The joint owners shall agree in writing on the allocation and terms of exercise of their joint ownership. Unless otherwise agreed *in the Consortium Agreement or in the joint ownership agreement*, each joint owner may grant non-exclusive licences to third parties to exploit the jointly-owned results (without any right to sub-license), if the other joint

owners are given advance notice and fair and reasonable compensation. The joint owners may agree in writing to apply another regime than joint ownership.

2. Beneficiaries having received Union funding shall adequately protect their results if protection is possible and justified, taking into account all relevant considerations, including the prospects for commercial exploitation **and any other legitimate interests**. When deciding on protection, beneficiaries shall also consider the legitimate interests of the other beneficiaries in the action.

## Article 35

### Exploitation and dissemination

1. ***Each participant that has received Union funding shall use its best efforts to exploit the results it owns, or to have them exploited by another legal entity.*** Exploitation may be done directly by the beneficiaries or indirectly in particular through the transfer and licensing of results in accordance with Article 36.

The work programme may provide for additional exploitation obligations.

If despite a beneficiary's best efforts to exploit its results directly or indirectly no exploitation takes place within a given period as identified in the grant agreement, the beneficiary shall use an appropriate online platform as identified in the grant agreement to find interested parties to exploit those results. If justified on the basis of a request of the beneficiary, this obligation may be waived.

2. ***Beneficiaries shall disseminate their results as soon as it is feasible, in a publicly available format,*** subject to any restrictions due to the protection of intellectual property, security rules or legitimate interests **■**.

The work programme may provide for additional dissemination obligations **while safeguarding the Union's economic and scientific interests**.

3. Beneficiaries shall ensure that open access to scientific publications applies under the terms and conditions laid down in the grant agreement. In particular, the beneficiaries shall ensure that they or the authors retain sufficient intellectual property rights to comply with their open access requirements.

Open access to research data shall be the general rule under the terms and conditions laid down in the grant agreement, *ensuring the possibility of exceptions following the principle ‘as open as possible, as closed as necessary’*, taking into consideration the legitimate interests of the beneficiaries *including commercial exploitation* and any other constraints, such as data protection rules, *privacy, confidentiality, trade secrets, Union competitive interests*, security rules or intellectual property rights.

The work programme may provide for additional *incentives or* obligations to adhere to open science practices.

- Beneficiaries shall manage all research data *generated in a Horizon Europe action in line with the FAIR principles and* in accordance with the terms and conditions laid down in the grant agreement and shall establish a Data Management Plan.

The work programme may provide, *where justified*, for additional obligations to use the European Open Science Cloud (*EOSC*) for storing and giving access to research data.

- Beneficiaries that intend to disseminate their results shall give advance notice to the other beneficiaries in the action. Any other beneficiary may object if it can show that the intended dissemination would significantly harm its legitimate interests in relation to its results or background. In such cases, the dissemination may not take place unless appropriate steps are taken to safeguard these legitimate interests.
- Unless the work programme provides otherwise, proposals shall include a plan for the exploitation and dissemination of the results. If the expected exploitation entails developing, creating, manufacturing and marketing a product or process, or in creating and providing a service, the plan shall include a strategy for such exploitation. If the plan provides for exploitation primarily in non-associated third countries, the legal entities shall *explain* how that exploitation is still in the Union interest.

The beneficiaries shall *update* the plan during and after the end of the action, *in accordance with the grant agreement*.

- For the purposes of monitoring and dissemination by the Commission or funding body, the beneficiaries shall provide any requested information regarding the exploitation and dissemination of their results, *in accordance with the conditions laid down in the grant*

**agreement.** Subject to the legitimate interests of the beneficiaries, such information shall be made publicly available.

## Article 36

### Transfer and licensing

1. Beneficiaries may transfer ownership of their results. They shall ensure that their obligations also apply to the new owner and that the latter has the obligation to pass them on in any subsequent transfer.
2. Unless agreed otherwise in writing for specifically-identified third parties **including *Affiliated Entities*** or unless impossible under applicable law, beneficiaries that intend to transfer ownership of results shall give advance notice to any other beneficiary that still has access rights to the results. The notification must include sufficient information on the new owner to enable a beneficiary to assess the effects on its access rights.

Unless agreed otherwise in writing for specifically-identified third parties **including *Affiliated Entities***, a beneficiary may object to the transfer if it can show that the transfer would adversely affect its access rights. In this case, the transfer may not take place until agreement has been reached between the beneficiaries concerned. ***The grant agreement shall lay down time limits in this respect.***

3. Beneficiaries may grant licences to their results or otherwise give the right to exploit them, ***including on an exclusive basis***, if this does not affect compliance with their obligations. ***Exclusive licences for results may be granted subject to consent by all the other beneficiaries concerned that they will waive their access rights thereto.***
4. Where this is justified, the grant agreement shall lay down the right ***for the Commission or funding body*** to object to transfers of ownership of results, or to grants of an exclusive licence regarding results, if:
  - (a) the beneficiaries generating the results have received Union funding;
  - (b) the transfer or licence is to a legal entity established in a non-associated third country; and
  - (c) the transfer or licence is not in line with Union interests.

If the right to object applies, the beneficiary shall give advance notice. The right to object may be waived in writing regarding transfers or grants to specifically identified legal entities if measures safeguarding Union interests are in place.

## Article 37

### Access rights

1. The following access rights principles shall apply:
  - (a) a request to exercise access rights or any waiving of access rights shall be made in writing;
  - (b) unless otherwise agreed with the grantor, access rights do not include the right to sub-license;
  - (c) the beneficiaries shall inform each other before their accession to the grant agreement of any restrictions to granting access to their background;
  - (d) if a beneficiary is no longer involved in an action, it shall not affect its obligations to grant access;
  - (e) if a beneficiary defaults on its obligations, the beneficiaries may agree that it no longer has access rights.
2. Beneficiaries shall grant access to:
  - (a) their results on a royalty-free basis to any other beneficiary in the action that needs it to implement its own tasks;
  - (b) their background to any other beneficiary in the action that needs it to implement its own tasks, subject to any restrictions referred to in paragraph 1(c); that access shall be granted on a royalty-free basis, unless otherwise agreed by the beneficiaries before their accession to the grant agreement;
  - (c) their results and, subject to any restrictions referred to in paragraph 1(c), to their background to any other beneficiary in the action that needs it to exploit its own

results; that access shall be granted under fair and reasonable conditions to be agreed upon.

3. Unless otherwise agreed by the beneficiaries, they shall also grant access to their results and, subject to any restrictions referred to in paragraph 1(c), to their background to a legal entity that:
  - (a) is established in a Member State or associated country;
  - (b) is under the direct or indirect control of another beneficiary, or is under the same direct or indirect control as that beneficiary, or is directly or indirectly controlling that beneficiary; and
  - (c) needs the access to exploit the results of that beneficiary, *in accordance with the beneficiary's exploitation obligations*.

Access shall be granted under fair and reasonable conditions to be agreed upon.

4. A request for access for exploitation purposes may be made up to one year after the end of the action, unless the beneficiaries agree on a different time-limit.
5. Beneficiaries having received Union funding shall grant access to their results on a royalty-free basis to the Union institutions, bodies, offices or agencies for developing, implementing and monitoring Union policies or programmes. Access shall be limited to non-commercial and non-competitive use.

***Such access rights shall not extend to the beneficiaries' background.***

In actions under the cluster '*Civil security for Society*', beneficiaries having received Union funding shall also grant access to their results on a royalty-free basis to Member States' national authorities, for developing, implementing and monitoring their policies or programmes in that area. Access shall be limited to non-commercial and non-competitive use and shall be granted upon bilateral agreement defining specific conditions aimed at ensuring that those rights will be used only for the intended purpose and that appropriate confidentiality obligations will be in place. The requesting Member State, Union institution, body, office or agency shall notify all Member States of such requests.

6. The work programme may provide, *where appropriate*, for additional access rights.

Article 38  
Specific provisions ■

Specific rules on ownership, exploitation and dissemination, transfer and licensing as well as access rights may apply for ERC actions, training and mobility actions, pre-commercial procurement actions, public procurement of innovative solutions actions, programme co-fund actions and coordination and support actions.

These specific rules shall *be set out in the grant agreement and shall* not change the *principles and obligations* on open access.

■  
Article 39  
Prizes

1. Prizes under the Programme shall be awarded and managed in accordance with Title IX of the Financial Regulation, unless otherwise specified in this Chapter.
2. Any legal entity, regardless of its place of establishment, may participate in a contest, unless otherwise provided in the work programme or rules of contests.
3. The Commission or funding body may, *where appropriate*, organise prizes with:
  - (a) other Union bodies;
  - (b) third countries, including their scientific and technological organisations or agencies;
  - (c) international organisations; or
  - (d) non-profit legal entities.
4. The work programme or rules of contest *shall* include obligations regarding communication, *and where appropriate* exploitation and dissemination, *ownership and access rights including licensing provisions*.

CHAPTER IV  
Procurement

Article 40  
Procurement

1. Procurement under the Programme shall be awarded and managed in accordance with Title VII of the Financial Regulation, unless otherwise specified in this Chapter.
2. Procurement may also take the form of pre-commercial procurement or procurement of innovative solutions carried out by the Commission or the funding body on its own behalf or jointly with contracting authorities from Member States and associated countries. In this case, the rules set out in Article 22 shall apply.

CHAPTER V  
Blending operations and blended finance

Article 41  
Blending operations

Blending operations decided under this Programme shall be implemented in accordance with the InvestEU Programme and Title X of the Financial Regulation.

Article 42  
Horizon Europe and EIC Blended finance

1. The grant and reimbursable advance components of Horizon Europe or EIC blended finance shall be subject to Articles 30 to 33.
2. EIC blended finance shall be implemented in accordance with Article 43. The support under the EIC blended finance may be granted until the action can be financed as a blending operation or as a financing and investment operation fully covered by the EU guarantee under InvestEU. By derogation from Article 209 of the Financial Regulation, the conditions laid down in paragraph (2) and, in particular, paragraph (a) and (d), do not apply at the time of the award of EIC blended finance
3. Horizon Europe blended finance may be awarded to a programme co-fund where a joint programme of Member States and associated countries provides for the deployment of financial instruments in support of selected actions. The evaluation and selection of such actions shall be made in accordance with Articles *11*, 19, 20, 24, 25, *and 26*. The implementation modalities of the Horizon Europe blended finance shall comply with

Article 29, by analogy Article 43(9) and with additional ***and justified*** conditions defined by the work programme.

4. Repayments including reimbursed advances and revenues of Horizon Europe and EIC blended finance shall be considered as internal assigned revenues in accordance with Articles 21(3)(f) and 21(4) of Financial Regulation.
5. Horizon Europe and EIC blended finance shall be provided in a manner that ***promotes the Union's competitiveness while not distorting competition in the internal market.***

#### ***Article 42a***

##### ***The Pathfinder***

1. ***The Pathfinder shall provide grants to high-risk cutting-edge projects, implemented by consortia or monobeneficiaries, aiming to develop radical innovations and new market opportunities. The Pathfinder shall provide support for the earliest stages of scientific, technological or deep-tech research and development, including proof of concept and prototypes for technology validation.***

***The Pathfinder shall be mainly implemented through an open call for bottom-up proposals with regular cut-off dates per year and shall also provide for competitive challenges to develop key strategic objectives calling for deep-tech and radical thinking.***

2. ***The Pathfinder's Transition activities shall help all types of researchers and innovators develop the pathway to commercial development in the Union, such as demonstration activities and feasibility studies to assess potential business cases, and support the creation of spin offs and start-ups.***

- (a) ***the launch and the content of the calls for proposals shall be determined with regard to objectives and budget established by the work programme in relation with the concerned portfolio of actions;***
- (b) ***Additional grants for a fixed amount not exceeding EUR 50 000 may be awarded to each proposal already selected under the EIC Pathfinder through a call for proposals, to carry out complementary activities, including urgent coordination and support actions, for reinforcing the portfolio's community of beneficiaries, such as assessing possible spin-offs, potential market-creating innovations or***

*developing a business plan. The Programme Committee established under the Specific Programme shall be informed of such cases.*

3. *The award criteria as defined in Article 25 shall apply to the EIC Pathfinder.*

Article 43

*The Accelerator*

1. *The EIC's Accelerator shall aim to support essentially market-creating innovation. It shall support only monobeneficiaries and mainly provide blended finance. Under certain conditions, it may also provide grant-only and equity-only supports.*

*The EIC Accelerator shall propose two types of support:*

- *Blended finance support to SMEs including start-ups and, in exceptional cases, small midcaps carrying out breakthrough and disruptive non-bankable innovation.*
- *A grant-only support to SMEs, including start-ups, carrying out any type of innovation ranging from incremental to breakthrough and disruptive innovation and aiming to subsequently scale up.*

*Equity-only support to non-bankable SMEs, including start-ups, which have already received a grant-only support, may also be provided.*

*Grant only support under the EIC Accelerator shall only be provided under the following cumulative conditions:*

- a) *the project shall include information on the capacities and willingness of the applicant to scale-up;*
- b) *the beneficiary can only be a start-up or an SME;*
- c) *a grant-only support under the EIC Accelerator can only be provided once to a beneficiary during Horizon Europe for a maximum of EUR 2.5 million.*

- 1a. *The beneficiary of the EIC Accelerator shall be a legal entity qualifying as a start-up, an SME or in exceptional cases as a small mid-cap eager to scale-up, established in a Member State or associated country. The proposal may be submitted either by the beneficiary, or, subject to the prior agreement by the beneficiary, by one or more natural*

persons or legal entities intending to establish or support that beneficiary. ***In the latter case, the funding agreement will be signed with the beneficiary only.***

2. A single award decision shall cover and provide funding for all forms of Union contribution provided under EIC blended finance.
3. Proposals shall be evaluated on their individual merit by ***external*** independent experts and selected in the context of ***a continuously*** open call with cut-off dates, based on Articles 24 to 26, subject to paragraph 4
4. Award criteria shall be
  - (a) excellence;
  - (b) impact;
  - (c) the level ***of*** risk of the action ***that would prevent investments, the quality and efficiency of the implementation,*** and the need for Union support.
5. With the agreement of applicants concerned, the Commission or funding bodies implementing Horizon Europe (***including EIT's KICs***) may directly submit for evaluation under the last ***award*** criterion a proposal for an innovation and market deployment action which already fulfils the first two criteria, subject to the following cumulative conditions:
  - (a) the proposal shall stem from any other action funded by Horizon 2020, ***from*** this Programme; or, ***subject to a pilot in the first Horizon Europe work programme,*** from a national ***and/or regional programmes, starting with the mapping of the demand for such a scheme. Detailed provisions shall be laid down in the Specific Programme.***
  - (b) be based on a previous project review ***not longer than 2 years ago*** assessing the excellence and the impact of the proposal and subject to conditions and processes further detailed in the work programme.
6. A Seal of Excellence may be awarded subject to the following cumulative conditions:
  - (a) the beneficiary is a start-up, an SME ***or a small mid-cap,***

(b) the proposal was eligible and has passed applicable thresholds for the first two award criteria referred to in paragraph 4,

(c) for those activities that would be eligible under an innovation action.

7. For a proposal having passed the evaluation, *external* independent experts shall propose a corresponding EIC *Accelerator support*, based on the risk incurred and the resources and time necessary to bring and deploy the innovation to the market.

The Commission may reject a proposal retained by *external* independent experts for justified reasons, including *non-compliance* with the objectives of Union policies. *The Programme Committee shall be informed of the reasons for such rejections.*

8. The grant or the reimbursable advance component of the *EIC Accelerator support* shall not exceed 70% of the *total eligible* costs of the selected innovation action.

9. Implementation modalities of the equity and repayable support components of the EIC *Accelerator support* shall be detailed in Decision [Specific programme].

10. The contract for the selected action shall establish specific *measurable* milestones and the corresponding pre-financing and payments by instalments of the EIC *Accelerator support*.

*In the case of EIC blended finance, activities* corresponding to an innovation action may be launched and first pre-financing of the grant or the reimbursable advance paid, prior to the implementation of other components of the awarded EIC blended finance. The implementation of those components shall be subject to the achievement of specific milestones established in the contract.

11. In accordance with the contract, the action shall be suspended, amended or *if duly justified* be terminated if *measurable* milestones are not met. It may also be terminated where the expected market deployment *especially in the Union* cannot be met.

*In exceptional cases and upon advice by the EIC board, the* Commission may decide to increase the EIC *Accelerator support* subject to a project review by external independent experts. *The Programme Committee shall be informed of such cases.*

## Chapter VI

### Experts

## Article 44

### Appointment of *independent* external experts

1. ***Independent external experts shall be identified and selected on the basis of calls for applications from individuals and calls addressed to relevant organisations such as research agencies, research institutions, universities, standardisation organisations, civil society organisations or enterprises with a view to establishing a database of candidates.***

By derogation from Article 237(3) of the Financial Regulation, ***the Commission or the relevant funding body*** may, ***exceptionally and in duly justified cases***, select in a transparent manner ***any individual expert with the appropriate skills not included in the database provided that a call for expressions of interest has not identified suitable independent external experts.***

***Such experts shall declare their independence and capacity to support Horizon Europe objectives.***

2. In accordance with Article 237(2) and 237(3) of the Financial Regulation, ***independent*** external experts shall be remunerated based on standard conditions. If justified, ***and in exceptional cases*** an appropriate level of remuneration beyond the standard conditions based on relevant market standards, especially for specific high level experts, may be granted.
3. In addition to paragraphs 2 and 3 of Article 38 of the Financial Regulation, the names of ***independent*** external experts evaluating grant applications, who are appointed in a personal capacity shall be published, together with their area of expertise, at least once a year on the internet site of the Commission or the funding body. Such information shall be collected, processed and published in accordance with the EU data protection rules.
- 3a. ***The Commission or the relevant funding body shall take the appropriate measures to prevent conflicts of interest as regards the involvement of independent external experts in line with Articles 61 and 150(5) of the Financial Regulation.***

***The Commission or the relevant funding body shall ensure that an expert faced with a conflict of interest in relation to a matter on which the expert is required to provide an opinion does not evaluate, advise or assist on the specific matter in question.***

4. *When appointing independent external experts, the Commission or the relevant funding body shall take appropriate measures to seek a balanced composition within the expert groups and evaluation panels in terms of skills, experience, knowledge, including in terms of specialisation, in particular on SSH, geographical diversity and gender, taking into account the situation in the field of the action.*
- 3b. *Where appropriate, an adequate number of independent experts shall be ensured for each proposal in order to guarantee the quality of the evaluation.*
- 3c. *The level of remuneration of all independent and external experts shall be made available to the European Parliament and the Council. It shall be covered by the expenses of the Programme.*

### TITLE III

#### PROGRAMME MONITORING, COMMUNICATION, EVALUATION AND CONTROL

#### Article 45

##### Monitoring and reporting

1. *The Commission shall monitor continuously the management and implementation of Horizon Europe, its specific programme and the activities of the EIT. In order to enhance transparency, this data shall also be made publicly available in an accessible manner on the Commission's webpage according to the latest update.*

*In particular, data for projects funded under ERC, European Partnerships, missions, EIC and EIT shall be included in the same database.*

*This shall include:*

- (i) *“Time-bound indicators to report on an annual basis on progress of the Programme towards the achievement of the objectives established in Article 3 and set in Annex V along impact pathways;”*
- (ii) *information on the level of mainstreaming social sciences and humanities, the ratio between lower and higher TRLs in collaborative research, the progress on widening countries participation, the geographical composition of consortia in collaborative projects, the evolution-of researchers salaries, the use of two stage submission and evaluation procedure, the measures aimed at facilitating*

*collaborative links in European research and innovation, the use of the evaluation review and the number and types of complaints, the level of climate mainstreaming and related expenditures, SME participation, private sector participation, gender participation in funded actions, evaluation panels, boards and advisory groups, the Seals of Excellence, the European Partnerships as well as the co-funding rate, the complementary and cumulative funding from other Union funds, research infrastructures, time-to-grant, the level of international cooperation, engagement of citizens' and civil society participation.*

*(iii) the levels of expenditure disaggregated at project level in order to allow for specific analysis, including per intervention area.*

*(iv) the level of oversubscription, in particular the number of proposals and per call for proposals, their average score, the share of proposals above and below quality thresholds.*

2. The Commission is empowered to adopt delegated acts in accordance with Article 50 concerning amendments to Annex V to supplement or amend the impact pathway indicators, where considered necessary, and set baselines and targets.
3. The performance reporting system shall ensure that data for monitoring programme implementation and results are collected efficiently, effectively and in a timely manner *without increasing the administrative burden for beneficiaries*. To that end, proportionate reporting requirements shall be imposed on recipients of Union funds, *including at the level of researchers involved in the actions in order to be able to track their career and mobility*, and (where relevant) Member States<sup>1</sup>.
- 3a. *Qualitative analysis from the Commission and Union or national funding bodies shall complement as much as possible quantitative data.*
4. *The measures aimed at facilitating collaborative links in European research and innovation shall be monitored and reviewed within the context of the work programmes.*

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<sup>1</sup> *Provisions for the monitoring of the European Partnerships are set out in the Annex III of the Regulation.*

## Article 46

### Information, communication, publicity and dissemination and exploitation

1. The recipients of Union funding shall acknowledge the origin and ensure the visibility of the Union funding (in particular when promoting the actions and their results, ***including for prizes***) 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, and its actions and results. ***In addition, it shall provide timely and thorough information to Member States and beneficiaries. Evidence-based matchmaking services informed by analytics and network affinities shall be provided to interested entities in order to form consortia for collaborative projects, with particular attention to identifying networking opportunities for legal entities from low R&I performing Member States. On the basis of such analysis, targeted match-making events may be organised in function of specific calls for proposals.*** Financial resources allocated to the Programme shall also contribute to the corporate communication of the political priorities of the Union, as far as they are related to the objectives referred to in Article 3.
3. The Commission shall also establish a dissemination and exploitation strategy for increasing the availability and diffusion of the Programme's research and innovation results and knowledge to accelerate exploitation towards market uptake and boost the impact of the Programme. Financial resources allocated to the Programme shall also contribute to the corporate communication of the political priorities of the Union as well as information, communication, publicity, dissemination and exploitation activities as far as they are related to the objectives referred to in Article 3.

## Article 47

### Programme evaluation

1. Programme evaluations shall be carried out in a timely manner to feed into the decision-making process on the programme, its successor and other initiatives relevant to research and innovation.
2. The interim evaluation of the Programme shall be ***with the assistance of independent experts selected on the basis of a transparent process*** carried out once there is sufficient

information available about the implementation of the Programme, but no later than four years after the start of the programme implementation. It shall include *a portfolio analysis and* an assessment of the long-term impact of previous Framework Programmes and shall form the basis to adjust programme implementation *and/or review the programme*, as appropriate. *It shall assess the Programme's effectiveness, efficiency, relevance, coherence, and Union added value.*

3. At the end of the implementation of the Programme, but no later than four years after the end of the period specified in Article 1, a final evaluation of the Programme shall be completed by the Commission. It shall include an assessment of the long-term impact of previous Framework Programmes.
4. The Commission shall *publish and* communicate the conclusions of the evaluations accompanied by its observations *and shall present them* to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions.

#### Article 48

##### Audits

1. The control system for the Programme shall ensure an appropriate balance between trust and control, taking into account administrative and other costs of controls at all levels, especially for beneficiaries. *Audit rules shall be clear, consistent and coherent throughout the Programme.*
2. The audit strategy for the Programme shall be based on the financial audit of a representative sample of expenditure across the Programme as a whole. The representative sample shall be complemented by a selection based on an assessment of the risks related to expenditure. Actions that receive joint funding from different Union programmes shall be audited only once, covering all involved programmes and their respective applicable rules.
3. In addition, the Commission or funding body may rely on combined systems reviews at beneficiary level. These combined reviews shall be optional for certain types of beneficiaries and shall consist in a systems and process audit, complemented by an audit of transactions, carried out by a competent independent auditor qualified to carry out statutory

audits of accounting documents in accordance with Directive 2006/43/EC<sup>1</sup>. They may be used by the Commission or funding body to determine overall assurance on the sound financial management of expenditure and for reconsideration of the level of ex-post audits and certificates on financial statements.

4. In accordance with Article 127 of the Financial Regulation, the Commission or funding body may rely on audits on the use of Union contributions carried out by other ***independent and competent*** persons or entities, including by other than those mandated by the Union Institutions or bodies.
  5. Audits may be carried out up to two years after the payment of the balance.
- 5a. The Commission shall publish audit guidelines, aiming to ensure a reliable and uniform application and interpretation of the audit procedures and rules throughout the duration of the programme.***

#### Article 49

##### Protection of financial interests of the Union

1. The Commission or its representatives, and the Court of Auditors, shall have the power of audit or, in the case of international organisations, the power of verification in accordance with agreements reached with them, on the basis of documents and on-the-spot, over all grant beneficiaries, contractors and subcontractors who have received Union funds under this Regulation.
2. The European Anti-Fraud Office (OLAF) may carry out administrative investigations, including on-the-spot checks and inspections, in accordance with the provisions and procedures laid down in Regulation (EU, Euratom) No 883/2013 of the European Parliament and of the Council and Council Regulation (Euratom, EC) No 2185/96, with a view to establishing whether there has been fraud, corruption or any other illegal activity affecting the financial interests of the Union in connection with Union funding or budgetary guarantees under this Regulation.

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<sup>1</sup> Directive 2006/43/EC of the European Parliament and of the Council of 17 May 2006 on statutory audits of annual accounts and consolidated accounts, amending Council Directive 78/660/EEC and 83/349/EEC and repealing Council Directive 84/253/EEC (OJ L 157, 9.6.2006, p. 87)

3. Competent authorities of third countries and international organisations may also be required to cooperate with the European Public Prosecutor's Office (EPPO), in accordance with Mutual Legal Assistance Agreements, when it carries out investigations into criminal offences falling within its competence in accordance with Regulation (EU) 2017/1939.
4. Without prejudice to paragraphs 1 and 2, cooperation agreements with third countries and with international organisations, contracts, grant agreements and other legal commitments, as well as agreements establishing a budgetary guarantee, resulting from the implementation of this Regulation shall contain provisions expressly empowering the Commission, the Court of Auditors and OLAF to conduct such audits, on-the-spot checks and inspections, according to their respective competences. This shall include provisions to ensure that any third parties involved in the implementation of Union funds or of a financing operation supported, in whole or in part, by a budgetary guarantee grant equivalent rights.

#### Article 50

##### 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 45(2) shall be conferred on the Commission until 31 December 2028.
3. The delegation of power referred to in Article 45(2) 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 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.
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 45(2) shall enter into force if no objection has been expressed either by the European Parliament or by 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.

TITLE IV  
TRANSITIONAL AND FINAL PROVISIONS

Article 51

Repeal

Regulation (EU) No 1291/2013 and Regulation (EU) No 1290/2013 are repealed with effect from 1 January 2021.

Article 52

Transitional provisions

1. This Regulation shall not affect the continuation or modification of the actions concerned, under Regulation (EU) No 1291/2013 and Regulation (EU) No 1290/2013, which shall continue to apply to those actions until their closure. Work plans and actions provided for in work plans adopted under Regulation (EU) No 1290/2013 and under the corresponding funding bodies' basic acts shall also continue to be governed by Regulation (EU) No 1290/2013 and those basic acts until their completion.
2. The financial envelope for the Programme may also cover technical and administrative assistance expenses necessary to ensure the transition between the Programme and the measures adopted under its predecessor Regulation (EU) No 1291/2013.

Article 53

Entry into force

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

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

Done at ...

*For the European Parliament*

*The President*

*For the Council*

*The President*

ANNEX I  
BROAD LINES OF ACTIVITIES

The general and specific objectives set out in Article 3 *shall* be pursued across the Programme, through the areas of intervention and the broad lines of activity described in this Annex, as well as in Annex I to the Specific Programme.

(1) Pillar I '*Excellent Science*'

Through the following activities, this pillar *shall*, in line with Article 4, *promote scientific excellence, attract the best talent to Europe, provide appropriate support to early stage researchers and* support the creation and diffusion of *scientific excellence*, high-quality knowledge, *methodologies and* skills, technologies and solutions to *global social, environmental and economic* challenges. It *shall* also contribute to the other Programme's specific objectives as described in Article 3.

- (a) European Research Council: Providing attractive and flexible funding to enable talented and creative individual researchers, *with an emphasis on early stage researchers*, and their teams to pursue the most promising avenues at the frontier of science, *regardless of their nationality and country of origin and* on the basis of Union-wide competition *based solely on the criterion of excellence*.

Area of intervention: Frontier science

- (b) Marie Skłodowska-Curie Actions: Equipping researchers with new knowledge and skills through mobility and exposure across borders, sectors and disciplines, *enhancing training and career development systems* as well as structuring and improving institutional and national recruitment, *taking into account the European Charter for Researchers and Code of Conduct for the recruitment of researchers*; in so doing, the Marie Skłodowska-Curie Actions help to lay the foundations of Europe's excellent research landscape *across the whole of Europe*, contributing to boosting jobs, growth, and investment, and solving current and future societal challenges.

Areas of intervention: Nurturing excellence through mobility of researchers across borders, sectors and disciplines; fostering new skills through excellent training of researchers;

strengthening human *resources* and skills development across the European Research Area; improving and facilitating synergies; promoting public outreach.

- (c) Research Infrastructures: Endowing Europe with world-class sustainable research infrastructures which are open, and accessible to the best researchers from Europe and beyond. ***Encouraging the use of existing research infrastructures, including those financed from ESIF.*** In so doing the potential of the *research* infrastructure to support scientific advance and innovation, and to enable open ***and excellent*** science, ***following the FAIR principles,*** will be enhanced, alongside activities in related Union policy and international cooperation.

Areas of intervention: Consolidating ***and developing*** the landscape of European research infrastructures; Opening, integrating and interconnecting research infrastructures; ***The innovation potential of European research infrastructures and activities for innovation and training;*** Reinforcing European research infrastructure policy and international cooperation;

- (2) Pillar II 'Global Challenges and ***European Industrial Competitiveness***'

Through the following activities, this pillar ***shall***, in line with Article 4, ***support the creation and better diffusion of high-quality new knowledge, technologies and sustainable solutions, reinforce the competitiveness of European industry,*** strengthen the impact of research and innovation in developing, supporting and implementing Union policies, and support the uptake of innovative solutions in industry, ***notably in SMEs and start-ups,*** and society to address global challenges. It ***shall*** also contribute to the other Programme's specific objectives as described in Article 3.

***SSH shall be fully integrated across all clusters, including specific and dedicated activities.***

To maximise impact flexibility and synergies, research and innovation activities ***shall*** be organised in *six* clusters, ***interconnected through pan-European research infrastructures,*** which individually and together will incentivise interdisciplinary, cross-sectoral, cross-policy, cross-border and international cooperation. ***Activities from a broad range of TRLs, including lower TRLs will be covered in this pillar of Horizon Europe.***

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

The R&I activities *shall* be implemented in and across the following clusters:

- (a) Cluster 'Health': Improving and protecting the health *and well-being* of citizens at all ages, by *generating new knowledge*, developing innovative solutions, *and ensuring to integrate where relevant a gender perspective* to prevent, diagnose, monitor, treat and cure diseases *and developing health technologies*; mitigating health risks, protecting populations and promoting good health *and well-being, also in the work place*; making public health systems more cost-effective, equitable and sustainable; *preventing and tackling poverty-related diseases*; and supporting and enabling patients' participation and self-management.

Areas of intervention: Health throughout the life course; Environmental and social health determinants; Non-communicable and rare diseases; Infectious diseases, *including poverty-related and neglected diseases*; Tools, technologies and digital solutions for health and care, *including personalised medicine*; Health care systems.

- (b) Cluster '*Culture, creativity and inclusive society*': Strengthening democratic values, including rule of law and fundamental rights, safeguarding our cultural heritage, *exploring the potential of cultural and creative sectors*, and promoting socio-economic transformations that contribute to inclusion and growth, *including migration management and integration of migrants*.

Areas of intervention: Democracy *and governance*; *Culture*, cultural heritage *and creativity*; Social and economic transformations.

- (c) Cluster '*Civil Security for Society*': *Responding to the challenges arising from persistent security threats, including cybercrime, as well as natural and man-made disasters*.

*Areas of intervention: Disaster-resilient societies; Protection and security; Cybersecurity.*

- d) Cluster 'Digital, Industry **and Space**': Reinforcing capacities and securing Europe's sovereignty in key enabling technologies for digitisation and production, and in

space technology, **all along the value chain**, to build a competitive, digital, low-carbon and circular industry; ensure a sustainable supply of raw materials; **develop advanced materials** and provide the basis for advances and innovation in global societal challenges.

Areas of intervention: Manufacturing technologies; **Key** digital technologies, **including quantum technologies; Emerging enabling technologies**; Advanced materials; Artificial intelligence and robotics; Next generation internet; **Advanced** computing and Big Data; Circular industries; Low carbon and clean **industries**; Space, **including earth observation**.

- (e) Cluster 'Climate, Energy and Mobility': Fighting climate change by better understanding its causes, evolution, risks, impacts and opportunities, by making the energy and transport sectors more climate and environment-friendly, more efficient and competitive, smarter, safer and more resilient, **promote the use of renewable energy sources and energy efficiency, improve resilience of the Union to external shocks and adapt social behaviour in view of the SDGs**.

Areas of intervention: Climate science and **Solutions**; Energy **Supply**; Energy **Systems** and **Grids**; Buildings and **Industrial Facilities** in **Energy Transition**; Communities and **Cities**; Industrial **Competitiveness** in **Transport**; Clean, **Safe and Accessible Transport** and **Mobility**; Smart **Mobility**; Energy **Storage**.

- (f) Cluster 'Food, **Bioeconomy, Natural Resources, Agriculture and Environment**': Protecting **the environment**, restoring, sustainably managing and using natural and biological resources from land, **inland waters** and sea to **stop biodiversity erosion, to address food and nutrition security for all** and the transition to a low carbon, resource efficient **and** circular economy **and sustainable bioeconomy**.

Areas of intervention: Environmental observation; Biodiversity and natural **resources**; Agriculture, forestry and rural areas; **Seas, oceans and inland waters**; Food systems; Bio-based innovation systems **in the EU bioeconomy**; Circular systems.

- (g) Non-nuclear direct actions of the Joint Research Centre: Generating high-quality scientific evidence for **efficient and affordable** good public policies. New initiatives

and proposals for EU legislation need transparent, comprehensive and balanced evidence *to be sensibly designed*, whereas implementation of policies needs evidence *to be measured and-monitored*. The JRC will provide Union policies with independent scientific evidence and technical support throughout the policy cycle. The JRC will focus its research on EU policy priorities.

Areas of intervention: Health; *Culture, creativity and inclusive society; civil security for society*; digital, industry *and space*; climate, energy and mobility; food, *bioeconomy*, natural resources, *agriculture and environment*; support to the functioning of the internal market and the economic governance of the Union; support to Member States with implementation of legislation and development of smart specialisation strategies; analytical tools and methods for policy making; knowledge management; knowledge and technology transfer; support to science for policy platforms.

(3) Pillar III *'Innovative Europe'*

Through the following activities, this pillar *shall*, in line with Article 4, foster all forms of innovation, including *non-technological innovation, primarily within SMEs including start-ups, by facilitating technological development, demonstration and knowledge transfer*, and strengthen deployment of innovative solutions. It *shall* also contribute to the Programme's other specific objectives as described in Article 3. *The EIC will be implemented primarily through two instruments the Pathfinder, implemented mainly through collaborative research, and the Accelerator.*

- (a) European Innovation Council: *focusing mainly on breakthrough and disruptive innovation, targeting especially market-creating innovation, while also supporting all types of innovation, including incremental.*

Areas of intervention: Pathfinder *for advanced research*, supporting future and emerging breakthrough, *market-creating and/or deep tech* technologies; The Accelerator, bridging the financing gap between late stages of *research and* innovation activities and market take-up, to effectively deploy breakthrough, market-creating innovation and scale up companies where the market does not provide viable financing; additional EIC activities such as prizes and fellowships, and business added-value services.

(b) European innovation ecosystems

Areas of intervention: **Activities will include in particular connecting, where relevant in cooperation with the EIT, with national and regional innovation actors and supporting the implementation of joint cross-border innovation programmes by Member States, Regions and associated countries, from the exchange of practice and knowledge on innovation regulation to the enhancement of soft skills for innovation to research and innovation actions, including open or user-led innovation, to boost the effectiveness of the European innovation system. This should be implemented in synergy inter alia with the ERDF support for innovation eco-systems and interregional partnerships around smart specialisation topics.**

(c) The European Institute of Innovation and Technology

Areas of intervention: **Sustainable innovation ecosystems across Europe; Innovation and entrepreneurial skills in a lifelong learning perspective, including increasing capacities of higher education institutions across Europe; New solutions to market to address global challenges; Synergies and value added within Horizon Europe.**

(4) Part '**Widening participation and** strengthening the European Research Area'

Through the following activities, this **pillar shall pursue the specific objectives as set out in Art 3(2)(d). It shall also contribute to the other Programme's specific objectives as described in Article 3. While underpinning the entire Programme, this part will support activities that contribute to attracting talent, fostering brain circulation and preventing brain drain, a more knowledge-based and innovative and gender-equal Europe, at the front edge of global competition, fostering transnational cooperation and** thereby optimising national strengths and potential across **the whole** Europe in a well-performing European Research Area (ERA), where knowledge and a highly skilled workforce circulate freely **in a balanced manner**, where the outcomes of R&I are **widely disseminated to as well as** understood and trusted by informed citizens and benefit society as a whole, and where EU policy, notably R&I policy, is based on high quality scientific evidence.

**It shall also support activities aimed at improving the quality of proposals from legal entities from low R&I performing Member States, such as professional pre-proposal checks and advice, and boosting the activities of National Contact Points to support international networking, as well as activities aimed at supporting legal entities from low R&I performing Member States joining**

*already selected collaborative projects in which legal entities from such Member States are not participating.*

Areas of intervention: *Widening participation and spreading excellence, including through Teaming, Twinning, ERA-Chairs, COST, Excellence initiatives and activities to foster brain circulation; Reforming and enhancing the European R&I system, including through for example supporting national research and innovation policy reform, providing attractive career environments, and supporting gender and citizen science.*

## *ANNEX Ia*

### EUROPEAN INSTITUTE OF INNOVATION AND TECHNOLOGY (EIT)

***The following shall apply in the implementation of the programme activities of the EIT:***

#### 3.1. Rationale

As the report of the High Level Group on maximising the impact of EU research and innovation (the Lamy High Level Group) clearly states, the way forward is 'to educate for the future and invest in people who will make the change'. In particular, European ***higher education institutions*** are called to stimulate entrepreneurship, tear down disciplinary borders and institutionalise strong ***inter-disciplinary academia-industry collaborations***. According to recent surveys, access to talented people is by far the most important factor influencing the location choices of European founders of start-ups. Entrepreneurship education, training opportunities ***and the development of creative skills*** play a key role in cultivating future innovators and in developing the abilities of existing ones to grow their business to greater levels of success. Access to entrepreneurial talent, together with access to professional services, capital and markets on the EU level, and bringing key innovation actors together around a common goal are key ingredients for nurturing an innovation ecosystem. There is a need to coordinate efforts across the EU in order to create a critical mass of interconnected EU-wide entrepreneurial clusters and ecosystems.

***The EIT is today's Europe's largest integrated innovation ecosystem which brings together partners from business, research, education and beyond. The EIT will continue to support its Knowledge and Innovation Communities (KICs), which are large-scale European partnerships addressing specific global challenges, and strengthen the innovation ecosystems around them. It will do so by fostering the integration of education, research and innovation of the highest standards, thereby creating environments conducive to innovation, and by promoting and supporting a new generation of entrepreneurs and stimulating the creation of innovative companies in close synergy and complementarity with the EIC.***

*Throughout Europe, efforts* are still needed to develop ecosystems where researchers, innovators, industries and governments can easily interact. Innovation ecosystems, in fact, still do not work optimally due to a number of reasons such as:

- Interaction among innovation players is still hampered by organizational, regulatory and cultural barriers between them;
- Efforts to strengthen innovation *ecosystems shall benefit from* coordination and a clear focus on specific objectives and impact.

To address future *societal* challenges, embrace the opportunities of new technologies and contribute to *environmentally friendly and* sustainable economic growth, jobs, competitiveness and the well-being of Europe's citizens, there is the need to further strengthen Europe's capacity to innovate by: *strengthening existing and* fostering the creation of new environments conducive to collaboration and innovation; strengthening the innovation capabilities of academia and the research sector; supporting a new generation of entrepreneurial people; stimulating the creation and the development of innovative ventures, *as well as strengthening the visibility and recognition of EU funded research and innovation activities, in particular the EIT funding to the wider public.*

The nature and scale of the innovation challenges require liaising and mobilising players and resources at European scale, by fostering cross-border collaboration. There is a need to break down silos between disciplines and along value chains and nurture the establishment of a favorable environment for an effective exchange of knowledge and expertise, and for the development and attraction of entrepreneurial talents. *The Strategic Innovation Agenda of the EIT shall ensure coherence with the challenges of Horizon Europe, as well as complementarity to the EIC.*

## 3.2. Areas of Intervention

### 3.2.1. Sustainable innovation ecosystems across Europe

*In accordance with the EIT regulation and the EIT Strategic Innovation Agenda*, the EIT will play a reinforced role in strengthening sustainable *challenges-based* innovation ecosystems *throughout* Europe. In particular, the EIT will continue to operate primarily through its Knowledge and Innovation Communities (KICs), the large-scale European partnerships that address specific societal challenges. It will continue to strengthen innovation ecosystems around them, by *opening them up and by* fostering the integration of research, innovation and education. Furthermore, EIT will *strengthen* innovation *ecosystems throughout* Europe by expanding its Regional Innovation

Scheme (EIT RIS). The EIT will work with innovation ecosystems that exhibit high innovation potential based on strategy, thematic alignment and *envisaged* impact, in close synergy with Smart Specialisation Strategies and Platforms.

- Reinforcing the effectiveness *and the openness to new partners* of the existing KICs *enabling the transition to self-sustainability in the long-term*, and *analyzing the need of* setting up new ones *to tackle global challenges. The specific* thematic areas *will be defined in the Strategic Innovation Agenda, taking into account-the Strategic Planning;*
- Accelerating regions towards excellence in countries that are *that are defined in the Strategic Innovation Agenda in close cooperation with structural funds and other relevant EU funding programmes where appropriate.*

## 2.2. Innovation *and entrepreneurial* skills in a lifelong learning perspective, *including increasing capacities of higher education institutions across Europe*

The EIT education activities will be reinforced to foster innovation and entrepreneurship through *purposeful* education and training. A stronger focus on human capital development will be grounded on the expansion of existing EIT KICs education programmes in the view of continuing to offer students and professionals high quality curricula based on innovation, *creativity* and entrepreneurship in line in particular with the EU industrial and skills strategy. This may include researchers and innovators supported by other parts of Horizon Europe, in particular MSCA. The EIT will also support the *modernisation of higher education institutions across Europe* and their integration in innovation ecosystems by stimulating and increasing their entrepreneurial potential and capabilities and encouraging them to better anticipate new skills requirements.

- Development of innovative curricula, taking into account the future needs of *society and* industry, and cross-cutting programmes to be offered to students, entrepreneurs and professionals across Europe and beyond where specialist and sector specific knowledge is combined with ■ innovation-oriented *and entrepreneurial* skills, such as ■ high-tech skills *related to digital and sustainable key enabling technologies;*
- Strengthening and expanding the EIT label in order to improve the *visibility and the recognition of EIT* of education programmes based on partnerships between different higher education institutions, research centres and companies *while enhancing its overall*

**quality by** offering learning-by-doing curricula and **purposeful** entrepreneurship education as well as international, inter-organisational and cross-sectorial mobility;

- Development of innovation and entrepreneurship capabilities of the higher education sector, by leveraging **and promoting** the EIT Community expertise in linking education, research and business;
- Reinforcing the role of the EIT Alumni community as role model for new students and strong instrument to communicate EIT impact.

### 2.3. New solutions to the-market **to address global challenges**

The EIT will facilitate, empower **and award** entrepreneurs, innovators, **researchers**, educators, students and other innovation actors, **while ensuring gender mainstreaming**, to work together in cross-disciplinary teams to generate ideas and transform them into both incremental and disruptive innovations. Activities will be characterised by an open innovation and cross-border approach, with a focus on including relevant Knowledge Triangle activities that are pertinent to making them a success (e.g. project's promoters can improve their access to: specifically qualified graduates, **lead users**, start-ups with innovative ideas, non-domestic firms with relevant complementary assets etc.).

- Support the development of new products, services **and markets opportunities** where Knowledge Triangle actors will collaborate to **bring solutions to global challenges**;
- **Fully integrate the entire innovation value chain: from student to entrepreneur, from idea to product, from lab to customer. This include support for start-ups and scaling-up businesses.**
- Provision of high-level services and support to innovative businesses, including technical assistance to fine-tuning of products or services, substantive mentoring, support to secure target customers and raise capital, in order to swiftly reach the market and speed up their growth process.

### 3.2.4. Synergies and value added within Horizon Europe

The EIT will step up its efforts to capitalise on synergies and complementarities **between existing KICs and** with different actors and initiatives at EU and global levels and extend its network of collaborating organisations at both strategic and operational levels, **while avoiding duplications**.

- **Close cooperation** with the EIC **and InvestEU** in streamlining the support (i.e. funding and services) offered to **innovative ventures** in both start-up and scale-up stages, in particular through KICs;

Planning and implementation of EIT activities in order to maximise synergies and complementarities with **other parts of the Programme**;

- Engage with EU Member States, at both national and regional level, establishing a structured dialogue and coordinating efforts to enable synergies with **national and regional initiatives, including smart specialisation strategies, also considering through the implementation of the “European Innovation Ecosystems”**, in order to identify, share and disseminate **best practices and learnings**;
- **Share and disseminate innovative practices and learnings throughout Europe and beyond, so as to contribute to innovation policy in Europe in coordination with other parts of Horizon Europe**;
- Provision of input to innovation policy discussions and contribution to the **design and implementation** of EU policy priorities by continuously working with all relevant European Commission services, other EU programmes and their stakeholders, and further exploring opportunities within policy implementing initiatives;
- Exploitation of synergies with other EU programmes, **including those** supporting human capital development and innovation (e.g. **COST, ESF+, ERDF, Erasmus +, Creative Europe and COSME Plus/Single Market, InvestEU**);
- Building strategic alliances with key innovation actors at EU and international level, and support to KICs to develop collaboration and linkages with key Knowledge Triangle partners from third countries, with the aim of opening new markets for KICs’-backed solutions and attract **financing and talents** from abroad. **Participation of third countries shall be promoted with regard to the principles of reciprocity and mutual benefits.**



## ANNEX III PARTNERSHIPS

European Partnerships **shall** be selected **and** implemented, monitored, evaluated, phased-out **or renewed** on the basis of the following criteria

1) Selection

**Demonstrating** that the European Partnership is more effective in achieving the related objectives of the Programme **through involvement and commitment of partners**, in particular in delivering clear impacts for the EU and its citizens, notably in view of delivering on global challenges and research and innovation objectives, securing EU competitiveness, **sustainability** and contributing to the strengthening of the European Research and Innovation Area and, **where relevant**, international commitments;

In the case of institutionalised European Partnerships established in accordance with Article 185 TFEU, the participation of at least **40%** of the EU Member States is mandatory;

- (b) Coherence and synergies of the European Partnership within the EU research and innovation landscape, **following the Horizon Europe rules to the largest extent possible**;
- (c) Transparency and openness of the European Partnership as regards the identification of priorities and objectives **in terms of expected results and impacts and as regards** the involvement of partners and stakeholders from **across the entire value chain, from** different sectors, **backgrounds and disciplines**, including international ones when relevant **and not interfering with European competitiveness; clear modalities for promoting participation of SMEs and for disseminating and exploiting results, notably by SMEs, including through intermediary organisations**;
- (d) Ex-ante demonstration of additionality and directionality of the European Partnership, including a common **strategic** vision of the purpose of the European Partnership. This vision will include in particular:
  - identification of measurable expected **deliverables, outcomes**, and impacts within specific timeframes, including key economic **and/or societal** value for **the Union**.
  - demonstration of **■** expected **qualitative and significant quantitative leverage effects, including a method for the measurement of key performance indicators**;

- approaches to ensure flexibility of implementation and to adjust to changing policy, societal *and/or* market needs, or scientific advances, ***to increase policy coherence between regional, national and EU level;***
  - exit-strategy and ***measures for phasing-out from the Programme.***
- (e) Ex-ante demonstration of the partners' long term commitment, including a minimum share of public and/or private investments;

In the case of institutionalised European Partnerships, ***established in accordance with article 185 or 187 TFEU***, the financial and/or in-kind, contributions from partners other than the Union, will at least be equal to 50% and may reach up to 75% of the aggregated European Partnership budgetary commitments. For each ***such*** institutionalised European Partnership, a share of the contributions from partners other than the Union will be in the form of financial contributions. ***For partners other than the Union and Participating States, financial contributions should be aimed primarily at covering administrative costs as well as coordination and support and other non-competitive activities.***

***(ea) In agreement with regional authorities, ERDF shall be accepted as a partial national contribution for Programme co-funding of actions involving Member States.***

- 2) Implementation:
- (a) Systemic approach ensuring ***active and early involvement of Member States and*** achievement of the expected impacts of the European Partnership through the flexible implementation of joint actions ***of high European added value also*** going beyond joint calls for research and innovation activities, including those related to market, regulatory or policy uptake;
- (b) Appropriate measures ensuring continuous openness of the initiative and transparency during implementation, notably for priority setting and for participation in calls for proposals, ***information on the functioning of the governance***, visibility of the Union, communication and outreach measures, dissemination and exploitation of results, including clear open access/user strategy along the value chain; ***appropriate measures for informing SMEs and promoting their participation;***

- (c) Coordination and/or joint activities with other relevant research and innovation initiatives *to secure optimum level of interconnections and ensure effective synergies, inter alia to overcome potential implementation barriers at national level and increase cost-effectiveness*;
  - (d) ■ Commitments, ■ for financial *and/or in-kind* contributions, from each partner *in accordance with national provisions* throughout the lifetime of the initiative;
  - (e) In the case of institutionalised European Partnership access to the results and other action related information for the Commission for the purpose of developing, implementing and monitoring of Union policies or programmes.
- 3) Monitoring:
- (a) A monitoring system in line with the requirements set out in Article 45 to track progress towards specific policy ■ objectives, deliverables and key performance indicators allowing for an assessment over time of achievements, impacts and potential needs for corrective measures;
  - (b) *Periodic* dedicated reporting on quantitative and qualitative leverage effects, including on *committed and actually provided* financial and in-kind contributions, visibility and positioning in the international context, impact on research and innovation related risks of private sector investments;
  - (c) *Detailed information on the evaluation process and results from all calls for proposals within partnerships, to be made available timely and accessible in a common e-database.*
- 4) Evaluation, phasing-out and renewal:
- (a) Evaluation of impacts achieved at Union and national level in relation to defined targets and key performance indicators, feeding into the Programme evaluation set out in Article 47, including an assessment of the most effective policy intervention mode for any future action; and the positioning of any possible renewal of a European Partnership in the overall European Partnerships landscape and its policy priorities;
  - (b) *In the absence of renewal*, appropriate measures ensuring phasing-out *of Framework Programme funding* according to the ■ conditions and timeline agreed with the *legally* committed partners ex-ante, without prejudice to possible continued transnational funding

by national or other Union programmes, *and without prejudice to private investment and on-going projects*.

## ANNEX IV

### SYNERGIES WITH OTHER PROGRAMMES

1. Synergies with the European Agricultural Guarantee Fund and the European Agricultural Fund for Rural Development (Common Agricultural Policy-CAP) will ensure that:
  - (a) research and innovation needs of the agricultural sector and rural areas within the EU are identified notably within the European Innovation Partnership "agricultural productivity and sustainability"<sup>1</sup> and taken into consideration in the Programme's strategic research and innovation planning process and the work programmes;
  - (b) the CAP makes the best use of research and innovation results and promotes the use, implementation and deployment of innovative solutions, including those stemming from projects funded by the Framework Programmes for research and innovation and from the European Innovation Partnership "agricultural productivity and sustainability" *and relevant EIT Knowledge and Innovation Communities (KICs)*;
  - (c) the EAFRD supports the uptake and dissemination of knowledge and solutions stemming from the Programme's results leading to a more dynamic farming sector and new openings for the development of rural areas.
2. Synergies with the European Maritime and Fisheries Fund (EMFF) will ensure that:
  - (a) the Programme and the EMFF are largely interlinked as EU research and innovation needs in the field of marine and maritime policy will be translated through the Programme's strategic research and innovation planning process;
  - (b) the EMFF supports the rolling out of novel technologies and innovative products, processes and services, in particular those resulting from the Programme in the fields of marine and maritime policy; the EMFF also promotes ground data collection and data processing and disseminates relevant actions supported under the Programme,

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<sup>1</sup> Communication from the Commission to the European Parliament and the Council on the European Innovation Partnership 'Agricultural Productivity and Sustainability' (COM(2012) 79 final).

which in turn contributes to the implementation of the Common Fisheries Policy, the EU Maritime Policy, International Ocean Governance *and International commitments*.

3. Synergies with the European Regional Development Fund (ERDF) will ensure that:

(a) arrangements for combined funding from ERDF and *Horizon Europe* are used to support activities providing a bridge between *regional Operational Programmes*, smart specialisations strategies and international excellence in research and innovation, including joint trans-regional/trans-national programmes and pan European Research Infrastructures, with the aim of strengthening the European Research Area;

*(aa) ERDF funds can be transferred on a voluntary basis to support activities under the Programme, in particular the Seal of excellence;*

(b) the ERDF focuses amongst others on the development and strengthening of regional and local research and innovation ecosystems and industrial transformation, including support to the take-up of results and the rolling out of novel technologies and innovative solutions from the Framework Programmes for research and innovation through the ERDF;

*(ba) existing regional ecosystems, platform networks and regional strategies are enhanced.*

4. Synergies with the European Social Fund Plus (ESF+) will ensure that:

(a) the ESF+ can mainstream and scale up innovative curricula supported by the Programme, through national or regional programmes, in order to equip people with the skills and competences needed for the jobs of the future;

(b) arrangements for complementary funding from ESF+ can be used *on a voluntary basis* to support activities *of the Programme that promote* human capital development in research and innovation with the aim of strengthening the European Research Area; [Am. 148]

(c) the Health strand of the European Social Fund+ mainstreams innovative technologies and new business models and solutions, in particular those resulting from the

Programmes, so to contribute to innovative, efficient and sustainable health systems of the Member States and facilitate access to better and safer healthcare for European citizens.

5. Synergies with the Connecting Europe Facility (CEF) will ensure that:

- (a) research and innovation needs in the areas of transport, energy and in the digital sector within the EU are identified and established during the Programme's strategic research and innovation planning process;
- (b) the CEF supports the large-scale roll-out and deployment of innovative new technologies and solutions in the fields of transport, energy and digital physical infrastructures, in particular those resulting from the Framework Programmes for research and innovation;
- (c) the exchange of information and data between the Framework Programme and CEF projects will be facilitated, for example by highlighting technologies from the Framework Programme with a high market readiness that could be further deployed through the CEF.

6. Synergies with the Digital Europe Programme (DEP) will ensure that:

- (a) whereas several thematic areas addressed by the Programme and DEP converge, the type of actions to be supported, their expected outputs and their intervention logic are different and complementary;
- (b) research and innovation needs related to digital aspects are identified and established in the Programme's strategic research and innovation plans; this includes research and innovation for High Performance Computing, Artificial Intelligence, Cybersecurity, ***Distributed Ledger Technologies, Quantum Technologies*** combining digital with other enabling technologies and non-technological innovations; support for the scale-up of companies introducing breakthrough innovations (many of which will combine digital and physical technologies; the integration of digital across all the pillar 'Global Challenges and ***European Industrial Competitiveness***'; and the support to digital research infrastructures;

- (c) DEP focuses on large-scale digital capacity and infrastructure building in High Performance Computing, Artificial Intelligence, Cybersecurity, ***Distributed Ledger Technologies, Quantum Technologies*** and advanced digital skills aiming at wide uptake and deployment across Europe of critical existing or tested innovative digital solutions within an EU framework in areas of public interest (such as health, public administration, justice and education) or market failure (such as the digitisation of businesses, notably small and medium enterprises); DEP is mainly implemented through coordinated and strategic investments with Member States, notably through joint public procurement, in digital capacities to be shared across Europe and in EU-wide actions that support interoperability and standardisation as part of developing a Digital Single Market;
- (d) DEP capacities and infrastructures are made available to the research and innovation community, including for activities supported through the Programme including testing, experimentation and demonstration across all sectors and disciplines;
- (e) novel digital technologies developed through the Programme, are progressively be taken up and deployed by DEP;
- (f) the Programme's initiatives for the development of skills and competencies curricula, including those delivered at the co-location centres of the European Institute of Innovation and ***Technology Knowledge and Innovation Communities***, are complemented by Digital Europe-supported capacity-building in advanced digital skills;
- (g) strong coordination mechanisms for strategic programming and operating procedures for both programmes are aligned, and their governance structures involve the respective Commission services as well as others concerned by the different parts of the respective programmes.

7. Synergies with the Single Market Programme will ensure that:

- (a) the Single Market Programme addresses the market failures which affect all SMEs, and will promote entrepreneurship and the creation and growth of companies. Full complementarity exists between the Single Market Programme and the actions of ***both the EIT and*** the future European Innovation Council for innovative companies,

as well as in the area of support services for SMEs, in particular where the market does not provide viable financing;

- (b) the Enterprise Europe Network may serve, as other existing SME support structures (e.g. National Contact Points, Innovation Agencies, *DIH, Competence Centres, certified incubators*), to deliver support services under the *Horizon Europe programme, including the* European Innovation Council.

8. Synergies with the LIFE - Programme for Environment and Climate Action (LIFE) will ensure that:

Research and innovation needs to tackle environmental, climate and energy challenges within the EU are identified and established during the Programme's strategic research and innovation planning process. LIFE will continue to act as a catalyst for implementing EU environment, climate and relevant energy policy and legislation, including by taking up and applying research and innovation results from the Programme and help deploying them at national and (inter-)regional scale where it can help address environmental, climate or clean energy transition issues. In particular LIFE will continue to incentivise synergies with the Programme through the award of a bonus during the evaluation for proposals which feature the uptake of results from the Programme. LIFE standard action projects will support the development, testing or demonstration of suitable technologies or methodologies for implementation of EU environment and climate policy, which can subsequently be deployed at large scale, funded by other sources, including by the Programme. The Programme's *EIT as well as the future* European Innovation Council can provide support to scale up and commercialise new breakthrough ideas that may result from the implementation of LIFE projects.

9. Synergies with the Erasmus Programme will ensure that:

- (a) combined resources from the Programme and the Erasmus Programme are used to support activities dedicated to strengthening and modernising European higher education institutions. The Programme will complement Erasmus programme support for the European Universities initiative, in particular its research dimension as part of developing new joint and integrated long term and sustainable strategies on education, research and innovation based on trans-disciplinary and cross-sectoral approaches to make the knowledge triangle a reality, providing impetus to economic

growth; *the EIT's educational activities could be both inspirational to and interlinked with the European Universities initiative.*

- (b) the Programme and the Erasmus Programme foster the integration of education and research through facilitating higher education institutions to formulate and set up common education, research and innovation strategies, to inform teaching with the latest findings and practices of research to offer active research experience to all students and higher education staff and in particular researchers, and to support other activities that integrate higher education, research and innovation.

10. Synergies with the European Space Programme will ensure that:

- (a) research and innovation needs of the space upstream and downstream sector within the EU are identified and established as part of the Programme's strategic research and innovation planning process; space research actions implemented through Horizon Europe will be implemented with regard to procurement and eligibility of entities in line with the provisions of the Space Programme, where appropriate;
- (b) space data and services made available as a public good by the European Space Programme are used to develop breakthrough solutions through research and innovation, including in the Framework Programme, in particular for sustainable food and natural resources, climate monitoring, smart cities, automated vehicles, security and disaster management;
- (c) the Copernicus Data and Information Access Services contribute to the European Open Science Cloud and thus facilitate access to Copernicus data for researchers and scientists; research infrastructures, in particular in situ observing networks will constitute essential elements of the in situ observation infrastructure enabling the Copernicus services, and in turn, they benefit from information produced by Copernicus services.

11. Synergies with the Neighbourhood, Development and International Cooperation Instrument (the 'External Instrument') will ensure that the Programme's research and innovation activities with the participation of Third Countries and targeted international cooperation actions seek alignment and coherence with parallel market uptake and capacity-building actions strands under the External Instrument, based on joint definition

of needs and areas of intervention commonly defined during the Programme's strategic research and innovation planning process.

12. Synergies with the Internal Security Fund and the instrument for border management as part of the Integrated Border Management Fund will ensure that:

- (a) the research and innovation needs in the areas of security and integrated border management are identified and established during the Programme's strategic research and innovation planning process;
- (b) the Internal Security Fund and the Integrated Border Management Fund support the deployment of innovative new technologies and solutions, in particular those resulting from the Framework Programmes for research and innovation in the field of security research.

13. Synergies with the InvestEU Fund will ensure that:

- (a) the Programme provide out of its own budget Horizon Europe and EIC blended finance for innovators, characterised by a high level of risk and for which the market does not provide when relevant viable and sustainable financing, and at the same time will provide for appropriate coordination in support of the effective delivery and management of the private finance part of the blended finance through funds and intermediaries supported by InvestEU;
- (b) financial instruments for research and innovation and SMEs are grouped together under the InvestEU Fund, in particular through a dedicated R&I thematic window, and through products deployed under the SME window targeting innovative companies, in this way also helping to deliver the objectives of the Programme.  
***Strong complementary links will be established between InvestEU and Horizon Europe.***

14. Synergies with the Innovation Fund under the Emission Trading Scheme (the 'Innovation Fund') will ensure that:

- (a) the Innovation Fund will specifically target innovation in low-carbon technologies and processes, including environmentally safe carbon capture and utilisation that contributes substantially to mitigate climate change, as well as products substituting

carbon intensive ones, and to help stimulate the construction and operation of projects that aim at the environmentally safe capture and geological storage of CO<sub>2</sub> as well as innovative renewable energy and energy storage technologies; ***An appropriate framework will be created to enable and to incentivise “greener” products with a sustainable added value for the customers/end-users.***

- (b) the Programme will fund the development ~~and~~, demonstration ***and implementation*** of technologies, ***including breakthrough solutions***, that can deliver on ~~EU~~ ***a low-carbon economy and the Union’s*** decarbonisation, energy and industrial transformation objectives, especially in its Pillar 2 ***and through the EIT***;
- (c) the Innovation Fund may, subject to fulfilment of its selection and award criteria, support the demonstration phase of eligible projects ~~that may have received the~~. ***Projects receiving support from the Innovation Fund may be eligible for support from the Framework Programmes for research and innovation and vice versa. To complement Horizon Europe, the Innovation Fund may concentrate on close-to-the-market innovations contributing to a significant and fast reduction of CO<sub>2</sub> emissions. Strong complementary links will be established between the Innovation Fund and Horizon Europe.***

15. Synergies with the Euratom Research and Training Programme will ensure that:

- (a) the Programme and the Euratom Research and Training Programme develop comprehensive actions supporting education and training (including Marie Skłodowska-Curie Actions) with the aim of maintaining and developing relevant skills in Europe;
- (b) the Programme and the Euratom Research and Training Programme develop joint research actions focussing on cross-cutting aspects of the safe and secure use of non-power applications of ionising radiation in sectors such as medicine, industry, agriculture, space, climate change, security and emergency preparedness and contribution of nuclear science.

16. ***Potential*** synergies with the European Defence Fund will ***contribute to avoiding*** duplication.

**16a. Synergies with Creative Europe will support competitiveness and innovation, contributing to economic and social growth and promoting the effective use of public funds.**

**16b. Synergies with any Important Projects of Common European Interest (IPCEI) may be envisaged.**

## ANNEX V

### KEY IMPACT PATHWAY INDICATORS

Impact pathways, and related key impact pathway indicators, shall structure the monitoring of the Framework Programme's (FP) *progress* towards its objectives *as referred to in Article 3*. The impact pathways are time-sensitive *and reflect three complementary impact categories reflecting the non-linear nature of R&I investments: scientific, societal and technological/economic. For each of these impact categories, proxy indicators will be used to track progress distinguishing between the short, medium and longer terms, including beyond the Programme duration, with possibilities for breakdowns, including by Member States and associated countries. These indicators shall be compiled using quantitative and qualitative methodologies.* Individual Programme parts will contribute to these indicators to a different degree and through different mechanisms. Additional indicators may be used to monitor individual programme parts, where relevant.

The micro-data behind the key impact pathway indicators will be collected for all parts of the Programme and all delivery mechanisms in a centrally managed and harmonised way and at the appropriate level of granularity with minimal reporting burden on the beneficiaries.

*In addition and beyond key impact pathways indicators, data on the optimised delivery of the Programme for strengthening the European Research Area, fostering the excellence-based participations from all Member States in the Programme as well as facilitating collaborative links in European research and innovation will be collected and reported in close to real-time as part of implementation and management data, referred to in Article 45. This will include, inter alia, the monitoring of collaborative links, network analytics, data on proposals, applications, participations and projects; applicants and participants (including the type of organization (such as Civil Society Organisations, SMEs and private sector), country (such as a specific classification for country groups such as Member States, associated countries and third*

*countries), gender, role in project, scientific discipline/sector, including SSH); and the level of climate mainstreaming and related expenditures.*

#### Scientific impact pathway indicators

The Programme is expected to have scientific impact by creating high-quality new knowledge, strengthening human capital in research and innovation, and fostering diffusion of knowledge and Open Science. Progress towards this impact will be monitored through proxy indicators set along the following three key impact pathways.

#### Societal impact pathway indicators

The Programme is expected to have societal impact by addressing ***the*** EU policy priorities **and global challenges, including UN SDGs, following the principles of the Agenda 2030 and the goals of the Paris Agreement**, through R&I, delivering benefits and impact through R&I missions ***and European Partnerships*** and strengthening the uptake of innovation in society ***ultimately contributing to people's well-being***. Progress towards this impact will be monitored through proxy indicators set along the following ***three*** key impact pathways.

#### ***Technological/Economic*** ■ impact pathway indicators

The Programme is expected to have ***technological/economic*** ■ impact ***especially within the Union*** by influencing the creation and growth of companies, ***especially SMEs including start-ups***, creating direct and indirect jobs ***especially within the Union***, and by leveraging investments for research and innovation. Progress towards this impact will be monitored through proxy indicators set along the following three key impact pathways.

**Annex V – table 1**

<b>Towards scientific impact</b>	<b>Short-term</b>	<b>Medium-term</b>	<b>Longer-term</b>
Creating high-quality new knowledge	<p><u>Publications -</u></p> <p>Number of FP peer reviewed scientific publications</p>	<p><u>Citations -</u></p> <p>Field-Weighted Citation Index of FP peer reviewed publications</p>	<p><u>World-class science -</u></p> <p>Number and share of peer reviewed publications from FP projects that are core contribution to scientific fields</p>
Strengthening human capital in R&I	<p><u>Skills -</u></p> <p>Number of researchers <i>involved in</i> upskilling (<i>training, mentoring/coaching, mobility and access to R&amp;I infrastructures</i>) activities in FP projects</p>	<p><u>Careers -</u></p> <p>Number and share of upskilled FP researchers with <i>increased individual impact</i> in their R&amp;I field</p>	<p><u>Working conditions -</u></p> <p>Number and share of upskilled FP researchers with improved working conditions, <i>including researchers' salaries</i></p>
Fostering diffusion of knowledge and	<p><u>Shared knowledge -</u></p>	<p><u>Knowledge diffusion -</u></p>	<p><u>New collaborations -</u></p>

Open Science	Share of FP research outputs (open data/publication/ software etc.) shared through open knowledge infrastructures	Share of open access FP research outputs actively used/cited	Share of FP beneficiaries having developed new transdisciplinary/ transsectoral collaborations with users of their open FP R&I outputs
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Annex V – table 2

Towards societal impact	Short-term	Medium-term	Longer-term
Addressing EU policy priorities <i>and global challenges</i> through R&I	<p><u>Outputs -</u></p> <p>Number and share of outputs aimed at addressing <i>identified</i> EU policy priorities <i>and global challenges (including SDGs) (multidimensional: for each identified priority)</i></p> <p><i>Including: Number and share of climate-relevant outputs aimed at delivering on the EU's commitments under the Paris Agreement</i></p>	<p><u>Solutions -</u></p> <p>Number and share of innovations and research results addressing <i>identified</i> EU policy priorities <i>and global challenges (including SDGs) (multidimensional: for each identified priority)</i></p> <p><i>Including: Number and share of climate-relevant innovations and research results delivering on EU's commitments under the Paris Agreement</i></p>	<p><u>Benefits -</u></p> <p>Aggregated estimated effects from use/<i>exploitation</i> of FP-funded results, on tackling <i>identified</i> EU policy priorities <i>and global challenges (including SDGs)</i>, including contribution to the policy and law-making cycle (<i>such as norms and standards</i>) (multidimensional: for each identified priority)</p> <p><i>Including: Aggregated estimated effects from use /exploitation of FP-funded climate-relevant results on delivering on the EU's commitments under the Paris Agreement including contribution to the policy and law-making cycle (such as</i></p>

			<i>norms and standards)</i>
Delivering benefits and impact through R&I missions	<u>R&amp;I mission outputs -</u> Outputs in specific R&I Missions <i>(multidimensional: for each identified mission)</i>	<u>R&amp;I mission results -</u> Results in specific R&I Missions <i>(multidimensional: for each identified mission)</i>	<u>R&amp;I mission targets met -</u> Targets achieved in specific R&I missions <i>(multidimensional: for each identified mission)</i>
Strengthening the uptake <i>of research and</i> innovation in society	<u>Co-creation -</u> Number and share of FP projects where EU citizens and end-users contribute to the co-creation of R&I content	<u>Engagement -</u> Number and share of FP beneficiary entities with citizen and end-users engagement mechanisms after FP project	<u>Societal R&amp;I uptake -</u> Uptake and outreach of FP co-created scientific results and innovative solutions

**Annex V – table 3**

Towards <b>technological /</b> economic impact	Short-term	Medium-term	Longer-term
Generating innovation-based growth	<u>Innovative outputs</u> - Number of innovative products, processes or methods from FP (by type of innovation) & Intellectual Property Rights (IPR) applications	<u>Innovations</u> - Number of innovations from FP projects (by type of innovation) including from awarded IPRs	<u>Economic growth</u> - Creation, growth & market shares of companies having developed FP innovations
Creating more and better jobs	<u>Supported employment</u> - Number of FTE jobs created, and jobs maintained in beneficiary entities for the FP project (by type of job)	<u>Sustained employment</u> - Increase of FTE jobs in beneficiary entities following FP project (by type of job)	<u>Total employment</u> Number of direct & indirect jobs created or maintained due to diffusion of FP results (by type of job)
Leveraging investments in R&I	<u>Co-investment</u> - Amount of public & private investment mobilised with the initial FP investment	<u>Scaling-up</u> - Amount of public & private investment mobilised to exploit or scale-up FP results ( <b>including foreign direct investments</b> )	<u>Contribution to ‘3% target’</u> - EU progress towards 3% GDP target due to FP

## *ANNEX Va*

*Areas for possible missions and areas for possible institutionalised European Partnerships to be established under Article 185 or 187 TFEU*

*In accordance with Article 7 and 8 of this Regulation, the areas for possible Missions and possible European Partnerships to be established under Articles 185 or 187 TFEU are set out in this Annex.*

### *I. Areas for possible Missions*

*Missions Area 1: Adaptation to Climate Change, including Societal Transformation*

*Mission Area 2: Cancer*

*Mission Area 3: Healthy Oceans, Seas, Coastal and Inland Waters*

*Mission Area 4: Climate-Neutral and Smart Cities*

*Mission Area 5: Soil Health and Food*

*Each mission will follow the principles set out in Article 7 paragraph 3 of this Regulation.*

### *II. Areas for possible institutionalised European Partnerships on the basis of Article 185 TFEU or Article 187 TFEU*

*Partnership Area 1: Faster development and safer use of health innovations for European patients, and global health.*

*Partnership Area 2: Advancing key digital and enabling technologies and their use, including but not limited to novel technologies such as Artificial Intelligence, photonics and quantum technologies.*

*Partnership Area 3: European leadership in Metrology including an integrated Metrology system.*

*Partnership Area 4: Accelerate competitiveness, safety and environmental performance of EU air traffic, aviation and rail.*

*Partnership Area 5: Sustainable, inclusive and circular bio-based solutions.*

*Partnership Area 6: Hydrogen and sustainable energy storage technologies with lower environmental footprint and less energy-intensive production.*

*Partnership Area 7: Clean, connected, cooperative, autonomous and automated solutions for future mobility demands of people and goods.*

*Partnership Area 8: Innovative and R&D intensive small and medium-sized enterprises.*

*The process of assessing the need for an institutionalised European partnership in one of the abovementioned Partnership Areas may result in a proposal on the basis of Article 185 TFEU or Article 187 TFEU, in accordance with the European Commission's right of initiative. Otherwise the respective Partnership Area can also be subject to a partnership following Article 8(1)(a) or Article 8(1)(b) of the Framework Programme or be implemented by calls for proposals within Horizon Europe.*

*As the possible areas for institutionalised European partnerships cover broad thematic fields, they can, based on the assessed needs, be implemented by more than one partnership.*

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