EUROPEAN PARLIAMENT 2009 - 2014

Committee on Industry, Research and Energy

2011/0401(COD)

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AMENDMENTS
760 - 1020

Draft report
Teresa Riera Madurell
(PE489.637v02)

Proposal for a regulation of the European Parliament and of the Council on Establishment of Horizon 2020 - The Framework Programme for Research and Innovation (2014-2020)

Proposal for a regulation
(COM(2011)0809 – C7-0466/2011 – 2011/0401(COD))

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Amendment 760
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities– paragraph 1

Text proposed by the Commission	*Amendment*
Horizon 2020 has the general objective to build an economy based on knowledge and innovation across the whole Union, while contributing to sustainable development. It will support the Europe 2020 strategy and other Union policies as well as the achievement and functioning of the European Research Area.	Horizon 2020 has the general objective to build an economy ***and a society*** based on knowledge and innovation across the whole Union, while contributing to sustainable development. It will support the Europe 2020 strategy and other Union policies as well as the achievement and functioning of the European Research Area.

Or. en

Amendment 761
Gunnar Hökmark

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 1

Text proposed by the Commission	*Amendment*
Horizon 2020 has the general objective to build an economy based on knowledge and innovation across the whole Union, while contributing to sustainable development. It will support the Europe 2020 strategy and other Union policies as well as the achievement and functioning of the European Research Area.	Horizon 2020 has the general objective to build a ***world leading*** economy based on knowledge and innovation across the whole Union, while contributing to sustainable development. It will support the Europe 2020 strategy and other Union policies as well as the achievement and functioning of the European Research Area.

Or. en

Amendment 762
Vicky Ford

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 1

Text proposed by the Commission	*Amendment*
Horizon 2020 has the general objective to build an economy based on knowledge and innovation across the whole Union, while contributing to sustainable development. It will support the Europe 2020 strategy and other Union policies as well as the achievement and functioning of the European Research Area.	Horizon 2020 has the general objective to build an economy ***and society*** based on knowledge and innovation across the whole Union, while contributing to sustainable development. It will support the Europe 2020 strategy and other Union policies as well as the achievement and functioning of the European Research Area.

Or. en

Amendment 763
Silvia-Adriana Ţicău

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 1

Text proposed by the Commission	*Amendment*
Horizon 2020 has the general objective to build ***an economy*** based on knowledge and innovation across the whole Union, while contributing to sustainable development. It will support the Europe 2020 strategy and other Union policies as well as the achievement and functioning of the European Research Area.	Horizon 2020 has the general objective to build ***a society*** based on knowledge and innovation across the whole Union, while contributing to sustainable development. It will support the Europe 2020 strategy and other Union policies as well as the achievement and functioning of the European Research Area.

Or. ro

Amendment 764
Cristina Gutiérrez-Cortines, Pilar del Castillo Vera, Maria Da Graça Carvalho, Alejo Vidal-Quadras

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 1 a (new)

Text proposed by the Commission	*Amendment*
	Science for and with society enables all societal actors to interact in the innovation cycle and therefore increases the quality, relevance, acceptability and sustainability of innovation outcomes by integrating society's interests and values.

Or. en

Amendment 765
Gunnar Hökmark

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 2 – indent 1

Text proposed by the Commission	*Amendment*
– the ***Europe 2020*** R&D target ***(***3 % of GDP***)***;	– ***The R&D public funding target (1% of GDP), with*** the ***aim of attracting private funding, thereby realising the*** R&D target ***of not less than*** 3 % of GDP;

Or. en

Amendment 766
Gunnar Hökmark

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 3 – subparagraph 1 (new)

Text proposed by the Commission	*Amendment*
	In order to build globally competitive centres of excellence in Europe, international cooperation with third countries and international, regional or global organisations is crucial. International cooperation is essential for frontier and basic research in order to capture the benefits from emerging

science and technology opportunities. Promoting researchers and innovation staff mobility at an international level is also crucial to enhance this global cooperation. International cooperation will, therefore, be promoted in each of the three priorities of Horizon 2020. In addition, dedicated horizontal activities will be supported in order to ensure the coherent and effective development of international cooperation across Horizon 2020.

Or. en

Amendment 767
Lambert van Nistelrooij, Cristina Gutiérrez-Cortines

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 3 – point 1 (new)

Text proposed by the Commission	*Amendment*
	Horizon 2020 will develop specific training mechanisms on how to participate in Horizon 2020, taking full advantage of existing networks such as the National Contact Points, funded through synergies with other funds, in particular the Structural Funds;

Or. en

Amendment 768
Andrzej Grzyb, Jerzy Buzek, Jolanta Emilia Hibner, Lena Kolarska-Bobińska, Bogdan Kazimierz Marcinkiewicz, Krišjānis Kariņš, Marian-Jean Marinescu, Jan Březina, Piotr Borys

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 5 – introductory part

Text proposed by the Commission	*Amendment*
The European Institute of Innovation and Technology (EIT) shall contribute to the general objective and priorities of Horizon 2020 with the specific objective of integrating the knowledge triangle of research, innovation and education. The indicators for assessing the performance of the EIT are:	The European Institute of Innovation and Technology (EIT) shall contribute to the general objective and priorities of Horizon 2020 with the specific objective of integrating the knowledge triangle of research, innovation and ***higher*** education. The indicators for assessing the performance of the EIT are:

Or. en

Amendment 769
Silvia-Adriana Ţicău

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 5 – indent 2

Text proposed by the Commission	*Amendment*
– collaboration inside the knowledge triangle leading to the development of innovative products and processes.	collaboration inside the knowledge triangle leading to the development of innovative products***, services*** and processes.

Or. ro

Amendment 770
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 5 – indent 2 a (new)

Text proposed by the Commission	*Amendment*
	- post-graduate educational curricula that foster the development of entrepreneurial and innovative skills and lead to the creation of innovative spin-offs and start-ups;

Or. en

Amendment 771
Vicky Ford

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 6 a (new)

Text proposed by the Commission	*Amendment*
	In order to help close the research and innovation divide across areas, regions and Member States in Europe, complementarity and close synergies will be developed with the Structural Funds both upstream (capacity-building in the Member States to better prepare their participation in Horizon 2020) and downstream (exploit and diffuse research and innovation results stemming from Horizon 2020).

Or. en

Justification

Based on Teresa Riera Madurell's report, amendment 76.

Amendment 772
Edit Herczog

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 6 a (new)

Text proposed by the Commission	*Amendment*
	In order to help close the research and innovation divide in Europe, complementarity and close synergies will be developed with the Structural Funds both upstream (capacity-building in the Member States to better prepare their participation in Horizon 2020) and downstream (exploit and diffuse research and innovation results stemming from Horizon 2020 as well as evaluate, identify

the potential and provide the seal of excellence for the best centres.). Where possible, the interoperability between the two instruments will be promoted. Cumulative or combined funding will be encouraged. Synergies will in particular be sought in the activities set out in the "Widening excellence and widening participation" objective, the regional partner facilities of research infrastructure of pan-European and regional interest, and the activities performed via the EIT and its KICs.

Or. en

Amendment 773
Marian-Jean Marinescu

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 7 – introductory part

Text proposed by the Commission	*Amendment*
This Part aims to reinforce and extend the excellence of the Union's science base and to consolidate the European Research Area in order to make the Union's research and innovation system more competitive on a global scale. It consists of ***four*** specific objectives:	This Part aims to reinforce and extend the excellence of the Union's science base and to consolidate the European Research Area in order to make the Union's research and innovation system more competitive on a global scale. It consists of ***five*** specific objectives:

Or. en

Amendment 774
Cristina Gutiérrez-Cortines, Pilar del Castillo Vera, Maria Da Graça Carvalho, Alejo Vidal-Quadras

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 7 – point a a (new)

Text proposed by the Commission	*Amendment*
	(a a) Implementation of a clear program for the transfer of science, research and innovation to the education content at all levels, as well as for the adaptation of the technologies to the use.

Or. en

Amendment 775
Maria Da Graça Carvalho, Pilar del Castillo Vera, Christian Ehler

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 7 – point b

Text proposed by the Commission	*Amendment*
(b) Future and emerging technologies shall support collaborative research in order to extend Europe's capacity for advanced and paradigm-changing innovation. It shall foster scientific collaboration across disciplines on radically new, high-risk ideas and accelerate development of the most promising emerging areas of science and technology as well as the Union wide structuring of the corresponding scientific communities.	(b) Future and emerging technologies shall support collaborative research in order to extend Europe's capacity for advanced and paradigm-changing innovation. It shall foster scientific collaboration across disciplines on radically new, high-risk ideas and accelerate development of the most promising emerging areas of science and technology as well as the Union wide structuring of the corresponding scientific communities ***and deepening the ethical, social and legal implications they may determine for the European citizens***.

Or. en

Amendment 776
Andrzej Grzyb, Jerzy Buzek, Jolanta Emilia Hibner, Lena Kolarska-Bobińska, Bogdan Kazimierz Marcinkiewicz, Marian-Jean Marinescu, Jan Březina, Piotr Borys

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 7 – point c

Text proposed by the Commission	*Amendment*
(c) Marie ***Curie*** actions shall provide excellent and innovative research training as well as attractive career and knowledge-exchange opportunities through cross-border and cross-sector mobility of researchers to best prepare them to face current and future societal challenges.	(c) Marie ***Skłodowska-Curie*** actions shall provide excellent and innovative research training as well as attractive career and knowledge-exchange opportunities through cross-border and cross-sector mobility of researchers to best prepare them to face current and future societal challenges.

Or. en

Amendment 777
Marita Ulvskog, Britta Thomsen

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 7 – point c

Text proposed by the Commission	*Amendment*
(c) Marie Curie actions shall provide excellent and innovative research training as well as attractive career and knowledge-exchange opportunities through cross-border and cross-sector mobility of researchers to best prepare them to face current and future societal challenges.	(c) Marie Curie actions shall provide excellent and innovative research training as well as attractive career and knowledge-exchange opportunities through cross-border and cross-sector mobility of researchers to best prepare them to face current and future societal challenges. ***Mobility programs will ensure effective equal opportunities between men and women and include specific measures to remove obstacles to the mobility of female researchers.***

Or. en

Amendment 778
Kent Johansson, Jürgen Creutzmann, Hannu Takkula, Jens Rohde, Fiona Hall

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 7 – point c

Text proposed by the Commission	*Amendment*
(c) Marie Curie actions shall provide excellent and innovative research training as well as attractive career and knowledge-exchange opportunities through cross-border and cross-sector mobility of researchers to best prepare them to face current and future societal challenges.	(c) Marie Curie actions shall provide excellent and innovative research training as well as attractive career and knowledge-exchange opportunities through cross-border and cross-sector mobility of researchers ***from universities, research organisations and enterprises, including SMEs,*** to best prepare them to face current and future societal challenges.

Or. en

Justification

For the sake of clarity.

Amendment 779
Catherine Trautmann

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 7 – point d

Text proposed by the Commission	*Amendment*
(d) Research infrastructure shall develop European research infrastructure for 2020 and beyond, foster their innovation potential and human capital, and complement this with the related Union policy and international cooperation.	(d) Research infrastructure shall***, drawing on close ties with the EU's financial instruments for cohesion,*** develop European research infrastructure for 2020 and beyond, foster their innovation potential and human capital, and complement this with the related Union policy and international cooperation.

Or. fr

Amendment 780
Patrizia Toia

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 7 – point d

Text proposed by the Commission	*Amendment*
(d) Research ***infrastructure*** shall develop European research ***infrastructure for 2020*** and ***beyond, foster*** their innovation potential ***and*** human capital, and ***complement*** this with the ***related*** Union policy ***and international cooperation.***	(d) Research ***infrastructures*** shall develop ***and support excellent existing and new*** European research ***infrastructures*** and ***assist them to operate for the ERA by fostering*** their innovation potential***, attracting world level researchers, training*** human capital, and ***complementing*** this with the ***international cooperation*** Union policy

Or. en

Amendment 781
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 7 – point d a (new)

Text proposed by the Commission	*Amendment*
	(da) Responsible research and innovation shall attract new talent to the study of the fundamental role and profound impact of science and technology in European societies, bridge the gender gap in human resources working in research and innovation in the Union and develop mechanisms allowing for the broadening and deepening of the social appraisal of scientific and technological options.

Or. en

Amendment 782
Alyn Smith

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 7 – point d a (new)

Text proposed by the Commission	*Amendment*
	(da) Spreading excellence and widening participation shall unlock the potential of Europe's talent pool by giving support to policy learning, networking and training opportunities;

Or. en

Amendment 783
Marian-Jean Marinescu

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 7 – point d a (new)

Text proposed by the Commission	*Amendment*
	(da) Networking excellence shall contribute to restructure the science and technology sector of less developed parts of the Union and to reinforce the overall Union research and innovation capacity in order to put their capabilities at the service of their economic and social needs.

Or. en

Amendment 784
Marisa Matias

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 7 – point d a (new)

Text proposed by the Commission	*Amendment*
	(da) Responsible research and innovation shall take into account visions of multiple stakeholders, including those from civil society, and RRI programs will be open

for participation of these stakeholders.

Or. en

Amendment 785
Silvia-Adriana Ţicău

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 8

Text proposed by the Commission	*Amendment*
Each of these has been proven to have high Union added value. Together, they form a powerful and balanced set of activities which, in concert with activities at national ***and*** regional levels, span the breadth of Europe's needs regarding advanced science and technology. Bringing them together in a single programme will enable them to operate with greater coherence, in a rationalised, simplified and more focused way, while maintaining the continuity which is vital to sustain their effectiveness.	Each of these has been proven to have high Union added value. Together, they form a powerful and balanced set of activities which, in concert with activities at national***,*** regional ***and local*** levels, span the breadth of Europe's needs regarding advanced science and technology. Bringing them together in a single programme will enable them to operate with greater coherence, in a rationalised, simplified and more focused way, while maintaining the continuity which is vital to sustain their effectiveness.

Or. ro

Amendment 786
Silvia-Adriana Ţicău

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – heading 3

Text proposed by the Commission	*Amendment*
Part II. Priority 'Industrial Leadership'	Part II. Priority 'Industrial ***and Service Sector*** Leadership'

Or. ro

Amendment 787
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 10 – introductory part

Text proposed by the Commission	*Amendment*
This Part aims to speed up development of the technologies and innovations that will underpin tomorrow's businesses and help innovative European SMEs to grow into world-leading companies. It consists of three specific objectives:	This Part aims to speed up development of the technologies and innovations that will underpin tomorrow's businesses and help innovative European SMEs to grow into world-leading companies. ***Special attention shall be paid to promoting "innovation consumption", that is knowledge and technology transfer from public research centres to companies, especially SMEs, public organisations and citizens with entrepreneurial capacity.*** It consists of three specific objectives:

Or. en

Amendment 788
Gunnar Hökmark

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 10 – point a

Text proposed by the Commission	*Amendment*
(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing and space. Emphasis will be placed on interactions and convergence across and between the different technologies**.**	(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing and space. Emphasis will be placed on interactions and convergence across and between the different technologies ***and access to highly advanced research infrastructure in Europe will accelerate progress in all relevant areas.***

Or. en

Amendment 789
Judith A. Merkies

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 10 – point a

Text proposed by the Commission	*Amendment*
(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing and space. Emphasis will be placed on interactions and convergence across and between the different technologies.	(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, ***standardisation, certification,*** development and demonstration on ICT, nanotechnology, advanced materials, ***eco-innovation,*** biotechnology, advanced manufacturing and processing and space. Emphasis will be placed on interactions and convergence across and between the different technologies.

Or. en

Amendment 790
Christian Ehler

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 10 – point a

Text proposed by the Commission	*Amendment*
(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing and space. Emphasis will be placed on interactions and convergence across and between the different technologies.	(a) Leadership in enabling and industrial technologies shall provide dedicated support for research ***and standardisation***, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing and space. Emphasis will be placed on interactions and convergence across and between the different technologies.

Or. en

Justification

Reasoning: Industrial Leadership must contribute to European standards that are acknowledged and used world wide. In a complex technology world, standards imply market power and are a multiplicative factor on the way from research to innovation.

Amendment 791
Christian Ehler

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 10 – point a

Text proposed by the Commission	*Amendment*
(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing and space. Emphasis will be placed on interactions and convergence across and between the different technologies.	(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing and space. Emphasis will be placed on interactions and convergence across and between the different technologies ***and their relations to societal challenges***.

Or. en

Amendment 792
Henri Weber, Catherine Trautmann

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 10 – point a

Text proposed by the Commission	*Amendment*
(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing ***and*** space. Emphasis will be placed on interactions and convergence across and between the different technologies.	(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing**,** space***, transport, and smart cities and intelligent networks***. Emphasis will be placed on interactions and convergence

	across and between the different technologies.

Or. fr

Amendment 793
Herbert Reul

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 10 – point a

Text proposed by the Commission	*Amendment*
(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing and space. Emphasis will be placed on interactions and convergence across and between the different technologies.	(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, ***quantum technology,*** advanced materials, biotechnology, advanced manufacturing and processing and space. Emphasis will be placed on interactions and convergence across and between the different technologies.

Or. en

Amendment 794
Marita Ulvskog, Britta Thomsen

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 10 – point a

Text proposed by the Commission	*Amendment*
(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing and space. Emphasis will be placed on interactions and convergence across and between the different technologies.	(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing and space. ***Proper consideration of user needs and gender dimensions shall be take into account in all these fields.*** Emphasis will be placed on interactions

and convergence across and between the different technologies.

Or. en

Amendment 795
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 10 – point a

Text proposed by the Commission	*Amendment*
(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing and space. Emphasis will be placed on interactions and convergence across and between the different technologies.	(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ***key-enabling technologies, such as*** ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing and space. Emphasis will be placed on interactions and convergence across and between the different technologies.

Or. en

Amendment 796
Lambert van Nistelrooij, Cristina Gutiérrez-Cortines

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 10 – point a
COM(2011)0809 – C7 0466/2011 – 2011/0401(COD)
Annex I, paragraph 10

Text proposed by the Commission	*Amendment*
(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing and space. Emphasis will be placed on	(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, ***water technologies,*** advanced manufacturing and processing and space. Emphasis will be

interactions and convergence across and between the different technologies.	placed on interactions and convergence across and between the different technologies.

Or. en

Amendment 797
Angelika Niebler

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 10 – point a

Text proposed by the Commission	*Amendment*
(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, advanced materials, biotechnology, advanced manufacturing and processing and space. Emphasis will be placed on interactions and convergence across and between the different technologies.	(a) Leadership in enabling and industrial technologies shall provide dedicated support for research, development and demonstration on ICT, nanotechnology, ***quantum optics,*** advanced materials, biotechnology, advanced manufacturing and processing***, robotics*** and space. Emphasis will be placed on interactions and convergence across and between the different technologies. ***Appropriate consideration shall be given to the needs of users in all these areas, in both the public and private spheres.***

Or. de

Amendment 798
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 10 – point b

Text proposed by the Commission	*Amendment*
(b) Access to risk finance shall aim to overcome deficits in the availability of debt and equity finance for R&D and innovation-driven companies and projects at all stages of development. Together with the equity instrument of the Programme for	(b) Access to risk finance shall aim to overcome deficits in the availability of debt and equity finance for R&D and innovation-driven companies and projects at all stages of development. Together with the equity instrument of the Programme for

the Competitiveness of Enterprises and SMEs, it shall support the development of Union-level venture capital.	the Competitiveness of Enterprises and SMEs, it shall support the development of Union-level ***early stage funding and*** venture capital.

Or. en

Amendment 799
Philippe Lamberts
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 10 – point c

Text proposed by the Commission	*Amendment*
(c) Innovation in SMEs shall ***stimulate*** all forms of innovation in SMEs, ***targeting those with the potential to grow and internationalise across the single market and beyond.***	(c) ***"***Innovation in SMEs***"*** shall ***provide SME-tailored support to*** all forms of innovation in SMEs, ***through a toolbox of specialised and customised programmes and instrument including: access to seed funding, grants, access to equity and debt finance, mentoring and coaching services, access to R&D networks and clusters. In particular a dedicated SME Instrument shall be implemented in the priority areas under "Leadership in Enabling and Industrial Technology" and "Societal challenges".***

Or. en

Amendment 800
Hermann Winkler

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 10 – point c

Text proposed by the Commission	*Amendment*
(c) Innovation in SMEs shall stimulate all forms of innovation in SMEs, targeting those with the potential to grow and internationalise ***across*** the single market	(c) Innovation in SMEs shall stimulate all forms of innovation in SMEs, targeting those with the potential to grow and internationalise ***in*** the single market and

and beyond.	beyond.

Or. de

Amendment 801
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 10 – point c

Text proposed by the Commission	*Amendment*
(c) Innovation in SMEs shall stimulate all forms of innovation in SMEs, targeting those with the potential to grow and internationalise across the single market and beyond.	(c) Innovation in SMEs shall stimulate all forms of innovation in SMEs, targeting those with the potential to grow***, absorb*** and ***produce innovation and*** internationalise across the single market and beyond.

Or. en

Amendment 802
Philippe Lamberts
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 11

Text proposed by the Commission	*Amendment*
The activities shall follow a ***business-driven agenda***. The budgets for ***the specific objectives*** ***'***Access to risk finance***'*** and ***'***Innovation in SMEs***'*** will follow a demand-driven, bottom-up logic, ***without predetermined priorities***. These shall be complemented by the use of ***financial instruments and a dedicated*** SME ***instrument following a policy driven logic within the Part on 'Societal challenges' and the specific objective 'Leadership in enabling and industrial technologies'***.	The activities shall follow a ***bottom-up approach***. The ***implementation of the*** budgets for ***'***Access to risk finance***'*** and ***'***Innovation in SMEs***'*** will follow ***primarily*** a demand-driven, bottom-up logic, ***but exclusively within the thematic priority areas established under the "Societal challenges" and "Leadership in enabling and industrial technology"***. These shall be complemented by the ***possible top-down*** use of ***the*** SME ***Instrument as part of pre-commercial procurement or innovative procurement activities, where the pooling at EU level of public procurers needs in***

the Members States can be demonstrated.

Or. en

Amendment 803
Hermann Winkler

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 11 a (new)

Text proposed by the Commission	*Amendment*
	Collaborative projects shall remain the main instrument in this respect.

Or. de

Amendment 804
Oreste Rossi

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 12

Text proposed by the Commission	*Amendment*
Horizon 2020 will take an integrated approach to the participation of SMEs, which could lead to around ***15 %*** of the total combined budgets for all specific objectives on societal challenges and the specific objective 'Leadership in enabling and industrial technologies' being devoted to SMEs.	Horizon 2020 will take an integrated approach to the participation of SMEs, which could lead to around ***30 %*** of the total combined budgets for all specific objectives on societal challenges and the specific objective 'Leadership in enabling and industrial technologies' being devoted to SMEs.

Or. it

Justification

It is strategically important for SMEs to be given much greater encouragement to take part in the framework programme than the Commission is proposing.

Amendment 805
Paul Rübig

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 12

Text proposed by the Commission	*Amendment*
Horizon 2020 will take an integrated approach to the participation of SMEs, which ***could lead to around 15*** % of the total combined budgets for all specific objectives on societal challenges and the specific objective 'Leadership in enabling and industrial technologies' being devoted to SMEs.	Horizon 2020 will take an integrated approach to the participation of SMEs, which ***should reach 20***% of the total combined budgets for all specific objectives on societal challenges and the specific objective 'Leadership in enabling and industrial technologies' being devoted to SMEs.

Or. en

Justification

Increasing the participation of SME is a crucial factor for harnessing the innovative powers of agile and innovative enterprises, start-ups as well as spin-offs from research organizations and universities towards innovative solutions and the over-all successes of Horizon 2020. While FP7 held and is likely to achieve a target of 15% a more ambitious but realistic and achievable goal is needed to fully exploit the SME's innovative potential.

Amendment 806
Patrizia Toia

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 12

Text proposed by the Commission	*Amendment*
Horizon 2020 will take an integrated approach to the participation of SMEs, ***which could*** lead to ***around 15*** % of the total combined budgets for all specific objectives on societal challenges and the specific objective 'Leadership in enabling and industrial technologies' being devoted to SMEs**.**	Horizon 2020 will take an integrated approach to the participation of SMEs, ***and establish a clear mechanism to identify and address the knowledge and technology transfer needs of SMEs. Support shall*** lead to ***at least 20***% of the total combined budgets for all specific objectives on societal challenges and the specific objective 'Leadership in enabling and industrial technologies' being devoted

	to SMEs***, community, industry and the general public;***

Or. en

Amendment 807
Philippe Lamberts
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 12

Text proposed by the Commission	*Amendment*
Horizon 2020 will take an integrated approach to the participation of SMEs, which ***could*** lead to ***around 15*** % of the total combined budgets for all ***specific objectives on societal challenges and the specific objective 'Leadership in enabling and industrial technologies'*** being devoted to SMEs.	Horizon 2020 will take an integrated approach to the participation of SMEs, which ***should*** lead to ***at least 20***% of the total combined budgets for all ***Horizon 2020*** being devoted to SMEs***, of which at least 10% to the dedicated SME Instrument***.

Or. en

Amendment 808
Hermann Winkler

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 12

Text proposed by the Commission	*Amendment*
Horizon 2020 will take an integrated approach to the participation of SMEs***, which could lead to*** around ***15 %*** of the total combined budgets for all specific objectives on societal challenges and the specific objective 'Leadership in enabling and industrial technologies' ***being*** devoted to SMEs.	Horizon 2020 will take an integrated approach to the participation of SMEs***. To this end*** around ***18 %*** of the total combined budgets for all specific objectives on societal challenges and the specific objective 'Leadership in enabling and industrial technologies' ***shall be*** devoted to SMEs.

Or. de

Amendment 809
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 12

Text proposed by the Commission	*Amendment*
Horizon 2020 will take an integrated approach to the participation of SMEs, which ***could*** lead to ***around*** 15 % of the total combined budgets for all specific objectives on societal challenges and the specific objective 'Leadership in enabling and industrial technologies' being devoted to SMEs.	Horizon 2020 will take an integrated approach to the participation of SMEs, which ***shall*** lead to ***over*** 15 % of the total combined budgets for all specific objectives on societal challenges and the specific objective 'Leadership in enabling and industrial technologies' being devoted to SMEs.

Or. en

Amendment 810
Silvia-Adriana Ţicău

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 12

Text proposed by the Commission	*Amendment*
Horizon 2020 will take an integrated approach to the participation of SMEs, which could lead to ***around*** 15 % of the total combined budgets for all specific objectives on societal challenges and the specific objective 'Leadership in enabling and industrial technologies' being devoted to SMEs.	Horizon 2020 will take an integrated approach to the participation of SMEs, which could lead to ***at least*** 15 % of the total combined budgets for all specific objectives on societal challenges and the specific objective 'Leadership in enabling and industrial technologies' being devoted to SMEs.

Or. ro

Amendment 811
Philippe Lamberts
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 13

Text proposed by the Commission	*Amendment*
The specific objective 'Leadership in enabling and industrial technologies' shall follow a ***technology-driven*** approach to develop enabling technologies that can be used in multiple areas, industries and services***. Applications of these technologies to meet societal challenges shall be supported together with the Societal challenges***.	The specific objective 'Leadership in enabling and industrial technologies' shall follow a ***policy-driven*** approach to develop enabling technologies that can be used in multiple areas, industries and services.

Or. en

Amendment 812
Maria Da Graça Carvalho, Pilar del Castillo Vera

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 13

Text proposed by the Commission	*Amendment*
The specific objective 'Leadership in enabling and industrial technologies' shall follow a technology-driven approach to develop enabling technologies that can be used in multiple areas, industries and services. Applications of these technologies to meet societal challenges shall be supported together with the Societal challenges.	The specific objective 'Leadership in enabling and industrial technologies' shall follow a technology-driven approach to develop enabling technologies that can be used in multiple areas, industries and services. Applications of these technologies to meet societal challenges shall be supported together with the Societal challenges. ***In order to achieve this goal a specific interdisciplinary programme on the ethical, legal and social aspects of science and technology will also be established with a specific autonomous budget.***

Or. en

Amendment 813
Hermann Winkler

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – introductory part

Text proposed by the Commission	*Amendment*
This Part responds directly to the policy priorities and societal challenges identified in the Europe 2020 strategy and aiming to stimulate the critical mass of research and innovation efforts needed to achieve Union's policy goals. Funding shall be focused on the following specific objectives:	This Part responds directly to the policy priorities and societal challenges identified in the Europe 2020 strategy and aiming to stimulate the critical mass of research and innovation efforts needed to achieve Union's policy goals. ***Here too the main focus shall be on collaborative projects.*** Funding shall be focused on the following specific objectives:

Or. de

Amendment 814
Philippe Lamberts
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point b

Text proposed by the Commission	*Amendment*
(b) Food security, sustainable agriculture, marine and maritime research, and the bio-economy;	(b) Food security, ***quality and safety,*** sustainable agriculture, marine and maritime research, and the bio-economy;

Or. en

Amendment 815
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point b

Text proposed by the Commission	*Amendment*
(b) Food security, sustainable agriculture, ***marine*** and ***maritime research,*** and the	(b) Food security, sustainable agriculture, ***productive seas*** and ***oceans through***

bio-economy;	***sustainable fisheries*** and ***aquaculture and*** the bio-economy; *(This amendment applies throughout the text)*

Or. en

Amendment 816
Amalia Sartori

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point b

Text proposed by the Commission	*Amendment*
(b) ***Food*** security, sustainable agriculture, marine and maritime research, and ***the bio-economy***;	(b) ***Bioeconomy: food*** security, sustainable agriculture, marine and maritime research, and ***bio-based industries***; *(This amendment applies throughout the text. Adopting it will necessitate corresponding changes throughout)*

Or. en

Justification

According to the European strategy "Innovating for Sustainable Growth: A Bioeconomy for Europe", the Bioeconomy encompasses the production of renewable biological resources and their conversion into food, feed, bio-based products and bioenergy. The Bioeconomy includes four main sectors that should be supported by the "Bioeconomy" grand challenge: agriculture and forestry; fisheries and aquaculture; bio-based industries and food.

Amendment 817
Kent Johansson, Marit Paulsen, Hannu Takkula, Jens Rohde, Fiona Hall

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point b

Text proposed by the Commission	*Amendment*
(b) ***Food*** security, sustainable agriculture, marine and maritime research, and ***the bio-***	(b) ***Bioeconomy: food*** security, sustainable agriculture ***and forestry***, marine and

economy;	maritime research, and ***bio-based industry***; *(This amendment applies throughout the text.)*

Or. en

Justification

According to the European strategy "Innovating for Sustainable Growth: A Bioeconomy for Europe", the Bioeconomy includes four main sectors that should be supported by the "Bioeconomy" grand challenge: agriculture and forestry; fisheries and aquaculture; bio-based industries and food. This title should therefore reflect the definition developed by the European Commission.

Amendment 818
Maria Da Graça Carvalho, Pilar del Castillo Vera, Christian Ehler

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point b

Text proposed by the Commission	*Amendment*
(b) ***Food*** security, sustainable agriculture, marine and maritime research***, and the bio-economy;***	(b) ***European bio-economy challenges: food*** security ***including safety***, sustainable agriculture ***and forestry***, marine and maritime research

Or. en

Amendment 819
Silvia-Adriana Ţicău

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point c

Text proposed by the Commission	*Amendment*
(c) Secure, clean and efficient energy;	(c) ***Energy efficiency,*** secure, clean and efficient energy;

Or. ro

Amendment 820
Philippe Lamberts
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point e

Text proposed by the Commission	*Amendment*
(e) Climate action, resource efficiency and raw materials;	(e) Climate action, ***environment,*** resource efficiency and ***conservation, sustainable use of*** raw materials;

Or. en

Amendment 821
Christian Ehler

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point e

Text proposed by the Commission	*Amendment*
(e) Climate action, resource efficiency and raw materials;	(e) Climate action, resource efficiency and raw materials ***and security of supply*** ;

Or. en

Amendment 822
Marisa Matias

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point e

Text proposed by the Commission	*Amendment*
(e) Climate action, resource efficiency and raw materials;	(e) Climate action, resource efficiency and ***sustainable use of*** raw materials;

Or. en

Amendment 823
Kent Johansson, Marit Paulsen, Hannu Takkula, Jens Rohde, Fiona Hall, Vladko Todorov Panayotov

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point e

Text proposed by the Commission	*Amendment*
(e) Climate action, resource efficiency and raw materials;	(e) Climate action, resource efficiency and ***sustainable use of*** raw materials;

Or. en

Amendment 824
Cristina Gutiérrez-Cortines, Pilar del Castillo Vera, Maria Da Graça Carvalho, Pilar Ayuso, Lambert van Nistelrooij

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point e

Text proposed by the Commission	*Amendment*
(e) Climate action, resource efficiency and raw materials;	(e) Climate action, ***water management,*** resource efficiency and raw materials;

Or. en

Amendment 825
Francisco Sosa Wagner

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point e

Text proposed by the Commission	*Amendment*
(e) Climate action, resource efficiency and raw materials;	(e) Climate action, resource efficiency and ***conservation and sustainable use of*** raw materials;

Or. es

Justification

Adding 'conservation and sustainable use' of raw materials ensures that the objective goes beyond that of efficiency.

Amendment 826
Maria Da Graça Carvalho, Pilar del Castillo Vera, Christian Ehler

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point f

Text proposed by the Commission	*Amendment*
(f) ***Inclusive***, innovative and ***secure*** societies.	(f) ***Europe in a changing world - inclusive***, innovative and ***reflective*** societies.

Or. en

Amendment 827
Patrizia Toia

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point f

Text proposed by the Commission	*Amendment*
(f) ***Inclusive***, ***innovative*** and ***secure societies.***	(f) ***Understanding European societies***, ***culture*** and ***societal change***

Or. en

Justification

This amendment applies throughout the text. Adopting it will necessitate corresponding changes throughout. Culture is on the base of any societal change and innovation, it is better to include this concept and stress that in the headline of this challenge

Amendment 828
Maria Da Graça Carvalho, Pilar del Castillo Vera, Christian Ehler

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point f a (new)

Text proposed by the Commission	*Amendment*
	(fa) Secure societies - Protecting freedom and security of Europe and its citizens

Or. en

Amendment 829
Cristina Gutiérrez-Cortines, Pilar del Castillo Vera

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point f a (new)

Text proposed by the Commission	*Amendment*
	(fa) Culture and intangible areas of knowledge

Or. en

Amendment 830
Cristina Gutiérrez-Cortines, Pilar del Castillo Vera

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 14 – point f b (new)

Text proposed by the Commission	*Amendment*
	(fb) Smart cities and cultural heritage

Or. en

Amendment 831
Gunnar Hökmark

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 15

Text proposed by the Commission	*Amendment*
All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations.	All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific disciplines ***and research infrastructures*** in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations.

Or. en

Amendment 832
Philippe Lamberts
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 15

Text proposed by the Commission	*Amendment*
All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities**,**	All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. ***Non-technological, organisational, systems innovation and public sector innovation will be given as much attention as technology driven solutions.*** The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific

such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations.

disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities.

Or. en

Amendment 833
Vicky Ford

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 15

Text proposed by the Commission	*Amendment*
All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities***, such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations***.	All the activities shall take a challenge-based approach, ***in which basic science, applied research, knowledge transfer and innovation are important and interlinked components,*** focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, ***enabling access to world-class research infrastructures,*** technologies and scientific disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a ***fresh focus on basic and applied science and a*** new focus on ***knowledge transfer and*** innovation-related activities.

Or. en

Amendment 834
Giles Chichester, Vicky Ford

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 15

Text proposed by the Commission	*Amendment*
All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations.	All the activities shall take a challenge-based approach, ***in which basic science, applied research, knowledge transfer and innovation are equally important and interlinked components,*** focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations.

Or. en

Amendment 835
Christian Ehler

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 15

Text proposed by the Commission	*Amendment*
All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities,	All the activities shall take a challenge-based approach, ***in which basic science, applied research, knowledge transfer and innovation are equally important and interlinked components,*** focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific disciplines in order to address the

such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations.	challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations***, including standardisation at all stages***.

Or. en

Amendment 836
Maria Da Graça Carvalho, Pilar del Castillo Vera

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 15

Text proposed by the Commission	*Amendment*
All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations.	All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations. ***In order to achieve this goal a specific interdisciplinary programme on the ethical, legal and social aspects of science and technology will also be established with a specific autonomous budget.***

Or. en

Amendment 837
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 15

Text proposed by the Commission	*Amendment*
All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations.	All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, ***enabling access to world-class research infrastructures,*** technologies and scientific disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, support for public procurement ***and pre-commercial procurement***, design, end-user driven innovation, social innovation and market take-up of innovations.

Or. en

Amendment 838
Kent Johansson, Hannu Takkula, Jens Rohde, Fiona Hall

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 15

Text proposed by the Commission	*Amendment*
All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific	All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific

disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations.	disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations. ***In order to achieve the goals of Horizon 2020, in particular in relation to Part III on societal challenges, it will be necessary to engage a wide variety of stakeholders in the collaborative projects, from research institutions and enterprises to users from public and private sectors.***

Or. en

Amendment 839
Antonio Cancian

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 15

Text proposed by the Commission	*Amendment*
All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations.	All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific disciplines in order to address the challenges ***as it can be done through the setup of Institutional public-private partnerships***. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations.

Or. en

Amendment 840
Marisa Matias

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 15

Text proposed by the Commission	*Amendment*
All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations.	All the activities shall take a challenge-based approach, focusing on policy priorities without predetermining the precise choice of technologies or solutions that should be developed. The emphasis shall be on bringing together a critical mass of resources and knowledge across different fields, technologies and scientific disciplines in order to address the challenges. The activities shall cover the full cycle from research to market, ***as well as its impact on society,*** with a new focus on innovation-related activities, such as piloting, demonstration, test-beds, support for public procurement, design, end-user driven innovation, social innovation and market take-up of innovations.

Or. en

Amendment 841
Maria Da Graça Carvalho, Pilar del Castillo Vera

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 15 a (new)

Text proposed by the Commission	*Amendment*
	In order to take the challenge-based approach, a coordinated strategic planning of research and innovation activities is needed. Coordination can address fragmentation and improve the use of technological and infrastructural

resources by the entire research community related to each challenge. Moreover, in the majority of cases, success in innovation requires a long-term commitment to sustain excellent research. Strategic actions and scientific advisory can ensure expert input on policy from the outset, advance innovation and competitiveness by understanding the complexity of the innovation cycle, and encourage participation from more researchers across borders. Strategic research and innovation coordination on each challenge based on scientific advise shall be established by Sectoral Advisory Boards of independent high-level experts which will contribute to define research and innovation programmes based on the best leadership and will provide the impetus and instruments needed to promote interaction and synergies at a larger scale

Or. en

Amendment 842
Vicky Ford

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 15 a (new)

Text proposed by the Commission	*Amendment*
	In order to take the challenge-based approach, a coordinated strategic planning of research and innovation activities is needed. Coordination can address fragmentation and improve the use of technological and infrastructural resources by the entire research community related to each challenge. Moreover, in the majority of cases, success in innovation requires a long-term commitment to sustain excellent research. Strategic actions and scientific steering can ensure expert input on policy

from the outset, advance innovation and competitiveness by understanding the complexity of the innovation cycle, and encourage participation from more researchers across borders. To achieve strategic research and innovation coordination on each challenge, the Commission will be required to consult relevant stakeholders from academia, industry, end-users and civil society of the highest repute and appropriate expertise, including scientists, engineers and entrepreneurs, ensuring a diversity of all sectors and research areas concerned. This will allow for monitoring of the appropriateness and sufficiency of present and planned actions and raising awareness of neglected subjects and duplicated efforts. The Commission should seek to use existing instruments for this purpose wherever possible in implementing Horizon 2020, such as, inter-alia, European Innovative Partnerships, European Technology Platforms and Joint Programming Initiatives.

Or. en

Justification

Based on ideas from Teresa Riera Madurell's report, amendment 89, and Maria da Graca Carvalho's report, amendment 25.

Amendment 843
Lambert van Nistelrooij, Cristina Gutiérrez-Cortines

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 15 a (new)

Text proposed by the Commission	*Amendment*
	In order to take the challenge-based approach, a coordinated strategic planning of research and innovation

activities is needed. Coordination can address fragmentation and improve the use of technological and infrastructural resources by the entire research community related to each challenge. Moreover, in the majority of cases, success in innovation requires a long-term commitment to sustain excellent research. Strategic actions and scientific steering can ensure expert input on policy from the outset, advance innovation and competitiveness by understanding the complexity of the innovation cycle, and encourage participation from more researchers across borders. Strategic research and innovation coordination on each challenge shall be established by Sectoral Steering Boards of independent high-level experts from academia, industry, end-users and civil society, selected through an open and transparent process, which will contribute to define research and innovation programmes based on the best leadership and will provide the impetus and instruments needed to promote interaction and synergies at a larger scale.

Or. en

Justification

Each Strategic Advisory Board should be consist of a balanced, high-level membership from stakeholder communities (science, industry, civil society, end-users and others). The role of these Boards/Councils would be to provide on-going strategic advice on the actions being undertaken and planned in H2020 and related Community policy areas, and address the necessary coordination between the many instruments and initiatives (joint programming, PPPs, P2Ps, KICs, EIPs and others).

Amendment 844
Francesco De Angelis

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 15 a (new)

Text proposed by the Commission	*Amendment*
	In order to take the challenge-based approach coordinated strategic planning of research and innovation activities is needed. Coordination can address fragmentation and improve the use of technological and infrastructural resources by the entire research community related to each challenge. Moreover, in the majority of cases, success in innovation requires a long-term commitment to sustain excellent research. Strategic actions and scientific steering can ensure expert input on policy from the outset, advance innovation and competitiveness by understanding the complexity of the innovation cycle and encourage participation from more researchers across borders. Strategic research and innovation coordination on each challenge based on scientific steering shall be established by Sectoral Steering Boards of independent high-level experts which will contribute to define research and innovation programmes based on the best leadership and will provide the impetus and instruments needed to promote interaction and synergies at a larger scale. The role of these Boards would be to provide on-going strategic advice on the actions being undertaken and planned in under Horizon 2020 and the related Community policy areas.

Or. en

Justification

It is necessary to clearly define the role and duties of the Sectoral Steering Boards.

Amendment 845
Philippe Lamberts

on behalf of the Verts/ALE Group

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 15 a (new)

Text proposed by the Commission	*Amendment*
	Under each societal challenge, research priorities and objectives will be set out in a transparent and participatory way, through the balanced involvement of players including the scientific community, researchers (also from smaller research organisations), the public sector, the private sector and in particular SMEs, Civil Society Organisations and other stakeholders as relevant; in particular the Commission will establish specific platforms for dialogue between the citizens and Civil Society Organisations with research actors in the research priorities under the societal challenges;

Or. en

Amendment 846
Jean-Pierre Audy

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 16

Text proposed by the Commission	*Amendment*
Social sciences and humanities shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective **'**Inclusive, innovative and secure societies**'**. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries	Social sciences and humanities shall be an integral part of the activities to address all the challenges. ***Human and social sciences are to be represented in programme committees and experts' groups in charge of project and programme evaluation in all topics.*** In addition, the underpinning development of these disciplines shall be supported under the specific objective ***'***Inclusive, innovative and secure societies***'***. ***Likewise, a focus on gender and gender equality will be integrated in all***

shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective ‘Inclusive, innovative and secure societies’.	***challenges.*** Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective ’Inclusive, innovative and secure societies’.

Or. en

Justification

This is necessary to guarantee for human and social sciences not to be marginalised nor instrumentalised by being reduced to perception or acceptability studies on innovation. This will guarantee the pluridisciplinarity of research which tackles societal challenges.

Amendment 847
Silvia-Adriana Ţicău

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 16

Text proposed by the Commission	*Amendment*
Social sciences and humanities shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective ‘Inclusive, innovative and secure societies’. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective ‘Inclusive, innovative and secure societies’.	Social sciences and humanities shall be an integral part of the activities to address all the challenges. ***Human and social sciences are to be represented in programme committees and experts' groups in charge of project and programme evaluation in all topics.*** In addition, the underpinning development of these disciplines shall be supported under the specific objective ‘Inclusive, innovative and secure societies’. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition,

cross-cutting support for international cooperation shall be provided under the specific objective 'Inclusive, innovative and secure societies'.

Or. en

Justification

This is absolutely necessary to guarantee for human and social sciences not to be marginalised nor instrumentalised by being reduced to perception or acceptability studies on innovation. This will guarantee the pluridisciplinarity of research which tackles societal challenges

Amendment 848
Philippe Lamberts
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 16

Text proposed by the Commission	*Amendment*
Social sciences and humanities shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective 'Inclusive, innovative and secure societies'. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective 'Inclusive, innovative and secure societies'.	Social sciences and humanities shall be an integral part of the activities to address all the challenges. ***They shall be fully integrated in the work-programmes through representation in programme committees and experts' groups in charge of project and programme evaluation in all topics, and through development of social sciences oriented calls.*** In addition, the underpinning development of these disciplines shall be supported under the specific objective 'Inclusive, innovative and secure societies'. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective 'Inclusive,

innovative and secure societies′.

Or. en

Amendment 849
Giles Chichester, Vicky Ford

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 16

Text proposed by the Commission	*Amendment*
Social sciences and humanities shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective 'Inclusive, innovative and secure societies'. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective 'Inclusive, innovative and secure societies'.	Social sciences and humanities shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective 'Inclusive, innovative and secure societies'. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge***, paying special attention to supporting global efforts that require a critical mass for Europe to participate and where Europe could take the lead***. In addition, cross-cutting support for international cooperation shall be provided under the specific objective 'Inclusive, innovative and secure societies'.

Or. en

Amendment 850
Henri Weber

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 16

Text proposed by the Commission	*Amendment*
Social sciences and humanities shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective 'Inclusive, innovative and secure societies'. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective 'Inclusive, innovative and secure societies'.	Social sciences and humanities shall be an integral part of the activities to address all the challenges. ***They shall be represented on programme committees and in the Expert Groups in charge of projects and programme assessment in all areas.*** In addition, the underpinning development of these disciplines shall be supported under the specific objective 'Inclusive, innovative and secure societies'. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective 'Inclusive, innovative and secure societies'.

Or. fr

Amendment 851
Christian Ehler

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 16

Text proposed by the Commission	*Amendment*
Social sciences and humanities shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective 'Inclusive, innovative and secure societies'. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries	Social sciences and humanities ***and security considerations*** shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective 'Inclusive, innovative and secure societies'. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic

shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective 'Inclusive, innovative and secure societies'.	cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective 'Inclusive, innovative and secure societies'.

Or. en

Justification

Security is an inherent feature for all of the above objectives and needs to be taken into account in the same way as social sciences and humanities to guarantee successful implementation.

Amendment 852
Silvia-Adriana Țicău

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 16

Text proposed by the Commission	*Amendment*
Social sciences and humanities shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective 'Inclusive, innovative and secure societies'. Support will also focus on providing a strong evidence base for policy making at international, Union, national ***and*** regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective 'Inclusive, innovative and secure societies'.	Social sciences and humanities shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective 'Inclusive, innovative and secure societies'. Support will also focus on providing a strong evidence base for policy making at international, Union, national***,*** regional ***and local*** levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective 'Inclusive, innovative and secure societies'.

Or. ro

Amendment 853
Marita Ulvskog, Britta Thomsen

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 16

Text proposed by the Commission	*Amendment*
Social sciences and humanities shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective **'**Inclusive, innovative and secure societies**'**. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective **'**Inclusive, innovative and secure societies**'**.	Social sciences and humanities shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective ***'***Inclusive, innovative and secure societies***'***. ***Likewise, a focus on gender and gender equality will be integrated in all challenges.*** Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective ***'***Inclusive, innovative and secure societies***'***.

Or. en

Amendment 854
Maria Da Graça Carvalho, Pilar del Castillo Vera, Christian Ehler

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 16

Text proposed by the Commission	*Amendment*
Social sciences and humanities shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective '***Inclusive***, innovative and ***secure*** societies'. Support will also focus on providing a strong evidence base	Social sciences and humanities shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective '***Europe in a changing world - inclusive***, innovative and ***reflective*** societies'. Support will also focus on

for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective '***Inclusive***, innovative and ***secure*** societies***'***.	providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective '***Europe in a changing world - inclusive***, innovative and ***reflective*** societies***'***.

Or. en

Amendment 855
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 16

Text proposed by the Commission	*Amendment*
Social sciences and humanities shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective 'Inclusive, innovative and secure societies'. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective 'Inclusive, innovative and secure societies'.	Social sciences and humanities shall be ***a horizontal dimension and*** an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective 'Inclusive, innovative and secure societies'. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective 'Inclusive, innovative and secure societies'.

Or. en

Amendment 856
Corinne Lepage

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 16

Text proposed by the Commission	*Amendment*
Social sciences and humanities shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective 'Inclusive, innovative and secure societies'. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective 'Inclusive, innovative and secure societies'.	Social sciences and humanities ***as well as the integration of civil society*** shall be an integral part of the activities to address all the challenges. In addition, the underpinning development of these disciplines shall be supported under the specific objective 'Inclusive, innovative and secure societies'. Support will also focus on providing a strong evidence base for policy making at international, Union, national and regional levels. Given the global nature of many of the challenges, strategic cooperation with third countries shall be an integral part of each challenge. In addition, cross-cutting support for international cooperation shall be provided under the specific objective 'Inclusive, innovative and secure societies'.

Or. en

Amendment 857
Maurice Ponga, Gaston Franco, Jean-Pierre Audy

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 17

Text proposed by the Commission	*Amendment*
The specific objective 'Inclusive, innovative and secure societies' also includes an activity to close the research and innovation divide with specific measures to unlock excellence in less developed regions of the Union.	The specific objective 'Inclusive, innovative and secure societies' also includes an activity to close the research and innovation divide with specific measures to unlock excellence in ***associated overseas countries and territories and*** less developed regions of the Union.

Or. fr

Justification

Research and innovation must be encouraged in overseas countries and territories.

Amendment 858
Ioan Enciu

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 17

Text proposed by the Commission	*Amendment*
The specific objective 'Inclusive, innovative and secure societies' also includes an activity to close the research and innovation divide with specific measures to unlock excellence in less developed regions of the Union.	The specific objective 'Inclusive, innovative and secure societies' also includes an activity to close the research and innovation divide with specific measures to ***promote, enable, develop and*** unlock excellence in less developed regions of the Union.

Or. en

Amendment 859
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – broad lines of the specific objectives and activities – paragraph 19

Text proposed by the Commission	*Amendment*
The EIT shall play a major role by bringing together excellent research, education and innovation thus integrating the knowledge triangle. The EIT shall do so primarily through the Knowledge and Innovation Communities (KICs). In addition it shall ensure that experiences are shared beyond the KICs through targeted dissemination and knowledge sharing measures, thereby promoting a faster uptake of innovation models across the Union.	The EIT shall play a major role by bringing together excellent research, education and innovation thus integrating the knowledge triangle. The EIT shall do so primarily through the Knowledge and Innovation Communities (KICs). In addition it shall ensure that experiences are shared ***between and*** beyond the KICs through targeted dissemination and knowledge sharing measures, thereby promoting a faster uptake of innovation models across the

Union.

Or. en

Amendment 860
Gunnar Hökmark

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.1 – paragraph 2

Text proposed by the Commission	*Amendment*
Europe has set out its ambition to move to a new economic model based on smart, sustainable and inclusive growth. This type of transformation will need more than incremental improvements to current technologies. It will require much higher capacity for science-based innovation fuelled by radical new knowledge, allowing Europe to take a leading role in creating the technological paradigm shifts which will be the key drivers of productivity growth, competitiveness, wealth and social progress in the future. Such paradigm shifts have historically tended to originate from ***the public-sector science*** base before going on to lay the foundations for whole new industries and sectors.	Europe has set out its ambition to move to a new economic model based on smart, sustainable and inclusive growth. This type of transformation will need more than incremental improvements to current technologies. It will require much higher capacity for science-based innovation fuelled by radical new knowledge, allowing Europe to take a leading role in creating the technological paradigm shifts which will be the key drivers of productivity growth, competitiveness, wealth and social progress in the future. Such paradigm shifts have historically tended to originate from ***curiosity driven basic research*** before going on to lay the foundations for whole new industries and sectors.

Or. en

Amendment 861
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.1 – paragraph 2

Text proposed by the Commission	*Amendment*
Europe has set out its ambition to move to a new economic model based on smart, sustainable and inclusive growth. This type	Europe has set out its ambition to move to a new economic model based on smart, sustainable and inclusive growth. This type

of transformation will need more than incremental improvements to current technologies. It will require much higher capacity for science-based innovation fuelled by radical new knowledge, allowing Europe to take a leading role in creating the technological paradigm shifts which will be the key drivers of productivity growth, competitiveness, wealth and social progress in the future. Such paradigm shifts have historically tended to originate from the public-sector science base before going on to lay the foundations for whole new industries and sectors.	of transformation will need more than incremental improvements to current technologies ***and knowledge***. It will require much higher capacity for ***basic science and*** science-based innovation fuelled by radical new knowledge, allowing Europe to take a leading role in creating the ***scientific and*** technological paradigm shifts which will be the key drivers of productivity growth, competitiveness, wealth and social progress in the future. Such paradigm shifts have historically tended to originate from the public-sector science base before going on to lay the foundations for whole new industries and sectors.

Or. en

Amendment 862
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.1 – paragraph 5

Text proposed by the Commission	*Amendment*
Another major part of the challenge is that in many European countries the public sector still does not offer sufficiently attractive conditions for the best researchers. It can take many years before talented young researchers are able to become independent scientists in their own right. This leads to a dramatic waste of Europe's research potential by delaying the emergence of the next generation of researchers, who bring new ideas and energy, and by enticing excellent researchers starting their career to seek advancement elsewhere.	Another major part of the challenge is that in many European countries the public sector still does not offer sufficiently attractive conditions for the best researchers. It can take many years before talented young researchers are able to become independent scientists in their own right. This leads to a dramatic waste of Europe's research potential by delaying ***and in some cases even inhibiting*** the emergence of the next generation of researchers, who bring new ideas and energy, and by enticing excellent researchers starting their career to seek advancement elsewhere.

Or. en

Amendment 863
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.1 – paragraph 5

Text proposed by the Commission	*Amendment*
Another major part of the challenge is that in many European countries the public sector still does not offer sufficiently attractive conditions for the best researchers. It can take many years before talented young researchers are able to become independent scientists in their own right. This leads to a dramatic waste of Europe's research potential by delaying the emergence of the next generation of researchers, who bring new ideas and energy, and by enticing excellent researchers starting their career to seek advancement elsewhere.	Another major part of the challenge is that in many European countries the public ***and private*** sector still does not offer sufficiently attractive conditions for the best researchers. It can take many years before talented young researchers are able to become independent scientists in their own right. This leads to a dramatic waste of Europe's research potential by delaying the emergence of the next generation of researchers, who bring new ideas and energy, and by enticing excellent researchers starting their career to seek advancement elsewhere.

Or. en

Amendment 864
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.1 – paragraph 6

Text proposed by the Commission	*Amendment*
Furthermore, these factors compound Europe's relative unattractiveness in the global competition for scientific talent. The ability of the US system to offer more resources per researcher and better career prospects explains how it continues to attract the best researchers from across the world, including tens of thousands from the Union.	Furthermore, these factors compound Europe's relative unattractiveness in the global competition for scientific talent. The ability of the US system to offer more resources per researcher***, better cross-sectoral mobility*** and ***connections with the private sector and*** better career prospects explains how it continues to attract the best researchers from across the world, including tens of thousands from the Union.

Or. en

Amendment 865
Kent Johansson, Hannu Takkula, Jens Rohde, Fiona Hall, Cristian Silviu Buşoi

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.2 – paragraph 1

Text proposed by the Commission	*Amendment*
The ERC was created to provide Europe's best researchers, both women and men, with the resources they need to allow them to compete better at global level, by funding individual teams on the basis of pan-European competition. It operates autonomously: an independent Scientific Council made up of scientists, engineers and scholars of the highest repute and expertise establishes the overall scientific strategy and has full authority over decisions on the type of research to be funded. These are essential features of the ERC, guaranteeing the effectiveness of its scientific programme, the quality of its operations and peer-review process and its credibility in the scientific community.	The ERC was created to provide Europe's best researchers, both women and men, with the resources they need to allow them to compete better at global level, by funding individual teams on the basis of pan-European competition. It operates autonomously: an independent Scientific Council made up of scientists, engineers and scholars of the highest repute and expertise***, of both women and men in different age groups,*** establishes the overall scientific strategy and has full authority over decisions on the type of research to be funded. These are essential features of the ERC, guaranteeing the effectiveness of its scientific programme, the quality of its operations and peer-review process and its credibility in the scientific community.

Or. en

Amendment 866
Romana Jordan

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.2 – paragraph 3

Text proposed by the Commission	*Amendment*
Frontier research funded by the ERC is thereby expected to have a substantial direct impact in the form of advances at the frontiers of knowledge, opening the way to new and often unexpected scientific and technological results and new areas for	Frontier research funded by the ERC is thereby expected to have a substantial direct impact in the form of advances at the frontiers of knowledge, opening the way to new and often unexpected scientific and technological results and new areas for

research which, ultimately, can generate the radically new ideas which will drive innovation and business inventiveness and tackle societal challenges. This combination of excellent individual scientists with innovative ideas underpins every stage of the innovation chain.	research which, ultimately, can generate the radically new ideas which will drive innovation and business inventiveness and tackle societal challenges. ***The main emphasis on awarding ERC grants is on the innovative ideas, while the track record of investigators is required mainly to demonstrate the capability of accomplishing the proposed project.*** This combination of excellent individual scientists with innovative ideas underpins every stage of the innovation chain.

Or. en

Amendment 867
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.2 – paragraph 3

Text proposed by the Commission	*Amendment*
Frontier research funded by the ERC is thereby expected to have a substantial direct impact in the form of advances at the frontiers of knowledge, opening the way to new and often unexpected scientific and technological results and new areas for research which, ultimately, can generate the radically new ideas which will drive innovation and business inventiveness and tackle societal challenges. This combination of excellent individual scientists with innovative ideas underpins every stage of the innovation chain.	Frontier research funded by the ERC is thereby expected to have a substantial direct impact in the form of advances at the frontiers of knowledge, opening the way to new and often unexpected scientific and technological results and new areas for research which, ultimately, can generate the radically new ideas which will drive innovation and business inventiveness and tackle societal challenges. This combination of excellent individual scientists with innovative ideas underpins every stage of the innovation chain. ***However, the importance of the applied research should not be underestimated.***

Or. en

Amendment 868
Romana Jordan

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.3 – paragraph 1

Text proposed by the Commission	*Amendment*
The fundamental activity of the ERC shall be to provide attractive long-term funding to support excellent ***investigators*** and their research teams to pursue ground-breaking, high-gain/high-risk research.	The fundamental activity of the ERC shall be to provide attractive long-term funding to support excellent ***ideas*** and their research teams to pursue ground-breaking, high-gain/high-risk research.

Or. en

Amendment 869
Alyn Smith

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.3 – paragraph 2

Text proposed by the Commission	*Amendment*
ERC funding shall be awarded in accordance with the following well-established principles. Scientific excellence shall be the sole criterion on which ERC grants are awarded. The ERC shall operate on a 'bottom-up' basis without predetermined priorities. The ERC grants shall be open to individual teams of researchers of any age and from any country in the world, working in Europe. ***And*** the ERC shall aim to foster healthy competition across Europe.	ERC funding shall be awarded in accordance with the following well-established principles. Scientific excellence shall be the sole criterion on which ERC grants are awarded. The ERC shall operate on a 'bottom-up' basis without predetermined priorities. The ERC grants shall be open to individual teams of researchers of any age and from any country in the world, working in Europe. The ERC shall aim to foster healthy competition across Europe ***and will ensure unconscious gender bias is properly tackled in evaluation procedures***.

Or. en

Amendment 870
Gunnar Hökmark

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.3 – paragraph 2 – subparagraph 1 (new)

Text proposed by the Commission	*Amendment*
	National and regional funds should support positively evaluated ERC projects that meet the criteria of excellence but where there is not enough funding available in the Horizon2020 program

Or. en

Amendment 871
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.3 – paragraph 4

Text proposed by the Commission	*Amendment*
The ERC shall also give support, as necessary, to ***emerging*** new ways of working in the scientific world with the potential to create breakthrough results and facilitates exploration of the commercial and social innovation potential of the research which it funds.	The ERC shall also give support, as necessary, to new ways of working in the scientific world with the potential to create breakthrough results and facilitates exploration ***and running*** of the commercial and social innovation potential of the research which it funds.

Or. en

Amendment 872
Gunnar Hökmark

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.3 – paragraph 5

Text proposed by the Commission	*Amendment*
By 2020, the ERC therefore shall aim to demonstrate: that the best researchers are participating in the ERC's competitions, that ERC funding has led directly to scientific publications of the highest quality and to the commercialisation and application of innovative technologies and	By 2020, the ERC therefore shall aim to demonstrate: that the best researchers are participating in the ERC's competitions, that ERC funding has led directly to scientific publications of the highest quality and to ***research results with a high societal and economic impact, and to*** the

ideas and that the ERC has contributed significantly to making Europe a more attractive environment for the world's best scientists. In particular, the ERC shall target a measurable improvement in the Union's share of the world's top 1 % most highly cited publications. In addition it shall aim at a substantial increase in the number of excellent researchers from outside Europe whom it funds and specific improvements in institutional practices and national policies to support top researchers.	commercialisation and application of innovative technologies and ideas and that the ERC has contributed significantly to making Europe a more attractive environment for the world's best scientists. In particular, the ERC shall target a measurable improvement in the Union's share of the world's top 1 % most highly cited publications. In addition it shall aim at a substantial increase in the number of excellent researchers from outside Europe whom it funds and specific improvements in institutional practices and national policies to support top researchers.

Or. en

Amendment 873
Romana Jordan

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.3 – paragraph 5

Text proposed by the Commission	*Amendment*
By 2020, the ERC therefore shall aim to demonstrate: that the best ***researchers*** are participating in the ERC's competitions, that ERC funding has led directly to scientific publications of the highest quality and to the commercialisation and application of innovative technologies and ideas and that the ERC has contributed significantly to making Europe a more attractive environment for the world's best scientists. In particular, the ERC shall target a measurable improvement in the Union's share of the world's top 1 % most highly cited publications. In addition it shall ***aim at a substantial increase in*** the ***number*** of ***excellent researchers from outside Europe whom it funds*** and specific improvements in institutional practices and national policies to support top researchers.	By 2020, the ERC therefore shall aim to demonstrate: that the best ***ideas*** are participating in the ERC's competitions, that ERC funding has led directly to scientific publications of the highest quality and to the commercialisation and application of innovative technologies and ideas and that the ERC has contributed significantly to making Europe a more attractive environment for the world's best scientists. In particular, the ERC shall target a measurable improvement in the Union's share of the world's top 1 % most highly cited publications. In addition it shall ***implement promotion measures, aiming to raise*** the ***visibility*** of ***its programmes*** and ***at*** specific improvements in institutional practices and national policies to support top researchers.

Or. en

Amendment 874
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.3 – paragraph 5

Text proposed by the Commission	*Amendment*
By 2020, the ERC therefore shall aim to demonstrate: that the best researchers are participating in the ERC's competitions, that ERC funding has led directly to scientific publications of the highest quality and to the commercialisation and application of innovative technologies and ideas and that the ERC has contributed significantly to making Europe a more attractive environment for the world's best scientists. In particular, the ERC shall target a measurable improvement in the Union's share of the world's top 1 % most highly cited publications. In addition it shall aim at a substantial increase in the number of excellent researchers from outside Europe whom it funds and specific improvements in institutional practices and national policies to support top researchers.	By 2020, the ERC therefore shall aim to demonstrate: that the best researchers are participating in the ERC's competitions, that ERC funding has led directly to scientific publications of the highest quality***, to research results with high social*** and ***economic potential impact and*** to the commercialisation and application of innovative technologies and ideas and that the ERC has contributed significantly to making Europe a more attractive environment for the world's best scientists. In particular, the ERC shall target a measurable improvement in the Union's share of the world's top 1 % most highly cited publications. In addition it shall aim at a substantial increase in the number of excellent researchers from outside Europe whom it funds and specific improvements in institutional practices and national policies to support top researchers. ***The ERC shall share experience and best practices with regional and national research funding agencies in order to promote the support of excellent researchers. Moreover, the ERC shall further raise the visibility of its programmes outside Europe in order to attract excellent researchers.***

Or. en

Amendment 875
Vicky Ford

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.3 – paragraph 5

Text proposed by the Commission	*Amendment*
By 2020, the ERC therefore shall aim to demonstrate: that the best researchers are participating in the ERC's competitions, that ERC funding has led directly to scientific publications of the highest quality and to the commercialisation and application of innovative technologies and ideas and that the ERC has contributed significantly to making Europe a more attractive environment for the world's best scientists. In particular, the ERC shall target a measurable improvement in the Union's share of the world's top 1 % most highly cited publications. In addition it shall aim at ***a substantial*** increase in the number of excellent researchers from outside Europe whom it funds and specific improvements in institutional practices and national policies to support top researchers.	By 2020, the ERC therefore shall aim to demonstrate: that the best researchers are participating in the ERC's competitions, that ERC funding has led directly to scientific publications of the highest quality and to the commercialisation and application of innovative technologies and ideas and that the ERC has contributed significantly to making Europe a more attractive environment for the world's best scientists. In particular, the ERC shall target a measurable improvement in the Union's share of the world's top 1 % most highly cited publications. In addition it shall aim at ***an*** increase in the number of excellent researchers from outside Europe whom it funds***, where the contribution of such researchers adds value to European research, an increase in opportunities for researchers to return to work after a career break*** and specific improvements in institutional practices and national policies to support top researchers.

Or. en

Amendment 876
Alyn Smith

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.3 – paragraph 5

Text proposed by the Commission	*Amendment*
By 2020, the ERC therefore shall aim to demonstrate: that the best researchers are participating in the ERC's competitions, that ERC funding has led directly to scientific publications of the highest quality and to the commercialisation and application of innovative technologies and	By 2020, the ERC therefore shall aim to demonstrate: that the best researchers are participating in the ERC's competitions, that ERC funding has led directly to scientific publications of the highest quality and to the commercialisation and application of innovative technologies and

ideas and that the ERC has contributed significantly to making Europe a more attractive environment for the world's best scientists. In particular, the ERC shall target a measurable improvement in the Union's share of the world's top 1 % most highly cited publications. In addition it shall aim at ***a substantial*** increase in the number of excellent researchers from outside Europe whom it funds and specific improvements in institutional practices and national policies to support top researchers.	ideas and that the ERC has contributed significantly to making Europe a more attractive environment for the world's best scientists. In particular, the ERC shall target a measurable improvement in the Union's share of the world's top 1 % most highly cited publications. In addition it shall aim at ***an*** increase in the number of excellent researchers from outside Europe whom it funds***, including a sharp increase of excellent female researchers,*** and specific improvements in institutional practices and national policies to support top researchers.

Or. en

Amendment 877
Luigi Berlinguer

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.3 – paragraph 5

Text proposed by the Commission	*Amendment*
By 2020, the ERC therefore shall aim to demonstrate: that the best researchers are participating in the ERC's competitions, that ERC funding has led directly to scientific publications of the highest quality and to the commercialisation and application of innovative technologies and ideas and that the ERC has contributed significantly to making Europe a more attractive environment for the world's best scientists. In particular, the ERC shall target a measurable improvement in the Union's share of the world's top 1 % most highly cited publications. In addition it shall aim at a substantial increase in the number of excellent researchers from outside Europe whom it funds and specific improvements in institutional practices and national policies to support top researchers.	By 2020, the ERC therefore shall aim to demonstrate: that the best researchers are participating in the ERC's competitions, that ERC funding has led directly to scientific publications of the highest quality and to the commercialisation and application of innovative technologies and ideas and that the ERC has contributed significantly to making Europe a more attractive environment for the world's best scientists. In particular, the ERC shall target a measurable improvement in the Union's share of the world's top 1 % most highly cited publications. In addition it shall aim at a substantial increase in the number of excellent researchers from outside Europe whom it funds and specific improvements in institutional practices and national policies to support top researchers. ***Last but not least, the possibility should be evaluated of applying innovative***

technologies and ideas up to a complete commercialisation.

Or. en

Amendment 878
Romana Jordan

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.3 – paragraph 6

Text proposed by the Commission	*Amendment*
The ERC's Scientific Council shall continuously monitor the ERC's operations and consider how best to achieve its objectives by means of grant schemes that emphasise clarity, stability and simplicity, both for applicants and in their implementation and management, and, as necessary, to respond to emerging needs. It shall endeavour to sustain and further refine the ERC's world-class peer-review system ***which is based on transparent,*** fair and impartial treatment of proposals so that it can identify ground-breaking scientific excellence and talent regardless of a researcher's gender, nationality or age. Finally, the ERC shall continue conducting its own strategic studies to prepare for and support its activities, maintain close contacts with the scientific community and other stakeholders and look to make its activities complement research conducted at other levels.	The ERC's Scientific Council shall continuously monitor the ERC's operations and consider how best to achieve its objectives by means of grant schemes that emphasise clarity, stability and simplicity, both for applicants and in their implementation and management, and, as necessary, to respond to emerging needs. It shall endeavour to sustain and further refine the ERC's world-class peer-review system ***ensuring*** fair and impartial treatment of proposals***, where care needs to be taken of the coincidence that decision makers within the panels can often also be grant recipients,*** so that it can identify ground-breaking scientific excellence***, breakthrough ideas*** and talent regardless of a researcher's gender, nationality***, origin institution*** or age. Finally, the ERC shall continue conducting its own strategic studies to prepare for and support its activities, maintain close contacts with the scientific community and other stakeholders and look to make its activities complement research conducted at other levels.

Or. en

Amendment 879
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.3 – paragraph 6

Text proposed by the Commission	*Amendment*
The ERC's Scientific Council shall continuously monitor the ERC's operations and consider how best to achieve its objectives by means of grant schemes that emphasise clarity, stability and simplicity, both for applicants and in their implementation and management, and, as necessary, to respond to emerging needs. It shall endeavour to sustain and further refine the ERC's world-class peer-review system which is based on transparent, fair and impartial treatment of proposals so that it can identify ground-breaking scientific excellence and talent regardless of a researcher's gender, nationality or age. ***Finally***, the ERC shall continue conducting its own strategic studies to prepare for and support its activities, maintain close contacts with the scientific community and other stakeholders and look to make its activities complement research conducted at other levels.	The ERC's Scientific Council shall continuously monitor the ERC's operations and ***evaluation procedures and*** consider how best to achieve its objectives by means of grant schemes that emphasise ***effectiveness,*** clarity, stability and simplicity, both for applicants and in their implementation and management, and, as necessary, to respond to emerging needs. It shall endeavour to sustain and further refine the ERC's world-class peer-review system which is based on transparent, fair and impartial treatment of proposals so that it can identify ground-breaking scientific excellence and talent regardless of a researcher's gender, nationality or age. ***If these criteria are not fulfilled***, ***participants may ask*** the ***exclusion of experts in order to avoid possible damages. The*** ERC shall continue conducting its own strategic studies to prepare for and support its activities, maintain close contacts with the scientific community***, the regional*** and ***national funding agencies and*** other stakeholders and look to make its activities complement research conducted at other levels. ***Finally, the ERC will ensure transparency in communication about its activities and results to the scientific community and the general public and maintain updated data from funded projects, including data portability.***

Or. en

Amendment 880
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.3 – paragraph 6

Text proposed by the Commission	*Amendment*
The ERC's Scientific Council shall continuously monitor the ERC's operations and consider how best to achieve its objectives by means of grant schemes that emphasise clarity, stability and simplicity, both for applicants and in their implementation and management, and***, as necessary,*** to respond to emerging needs. It shall endeavour to sustain and further refine the ERC's world-class peer-review system which is based on transparent, fair and impartial treatment of proposals so that it can identify ground-breaking scientific excellence and talent regardless of a researcher's gender, nationality or age. Finally, the ERC shall continue conducting its own strategic studies to prepare for and support its activities, maintain close contacts with the scientific community and other stakeholders and look to make its activities complement research conducted at other levels.	The ERC's Scientific Council shall continuously monitor the ERC's operations and consider how best to achieve its objectives by means of grant schemes that emphasise clarity, stability and simplicity, both for applicants and in their implementation and management, and to respond to emerging needs. It shall endeavour to sustain and further refine the ERC's world-class peer-review system which is based on transparent, fair and impartial treatment of proposals so that it can identify ground-breaking scientific excellence and talent regardless of a researcher's gender, nationality or age. Finally, the ERC shall continue conducting its own strategic studies to prepare for and support its activities, maintain close contacts with the scientific community and other stakeholders and look to make its activities complement research conducted at other levels ***by avoiding overlap with other research activities***.

Or. en

Amendment 881
Marian-Jean Marinescu

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.3 – paragraph 6

Text proposed by the Commission	*Amendment*
The ERC's Scientific Council shall continuously monitor the ERC's operations and consider how best to achieve its objectives by means of grant schemes that emphasise clarity, stability and simplicity, both for applicants and in their implementation and management, and, as necessary, to respond to emerging needs. It shall endeavour to sustain and further	The ERC's Scientific Council shall continuously monitor the ERC's operations and consider how best to achieve its objectives by means of grant schemes that emphasise clarity, stability and simplicity, both for applicants and in their implementation and management, and, as necessary, to respond to emerging needs. It shall endeavour to sustain and further

refine the ERC's world-class peer-review system which is based on transparent, fair and impartial treatment of proposals so that it can identify ground-breaking scientific excellence and talent regardless of a researcher's gender, nationality or age. Finally, the ERC shall continue conducting its own strategic studies to prepare for and support its activities, maintain close contacts with the scientific community and other stakeholders and look to make its activities complement research conducted at other levels.	refine the ERC's world-class peer-review system which is based on transparent, fair and impartial treatment of proposals so that it can identify ground-breaking scientific excellence and talent regardless of a researcher's gender, nationality or age. Finally, the ERC shall continue conducting its own strategic studies to prepare for and support its activities, maintain close contacts with the scientific community and other stakeholders and look to make its activities complement research conducted at other levels. ***ERC's activities and achievements shall be assessed in 2017 by a panel of high level independent managers of research organisations.***

Or. en

Amendment 882
Anna Záborská, Jan Březina

Proposal for a regulation
Annex 1 – Part 1 – point 1 – point 1.3 – paragraph 6

Text proposed by the Commission	*Amendment*
The ERC's Scientific Council shall continuously monitor the ERC's operations and consider how best to achieve its objectives by means of grant schemes that emphasise clarity, stability and simplicity, both for applicants and in their implementation and management, and, as necessary, to respond to emerging needs. It shall endeavour to sustain and further refine the ERC's world-class peer-review system which is based on transparent, fair and impartial treatment of proposals so that it can identify ground-breaking scientific excellence and talent regardless of a researcher's ***gender***, nationality or age. Finally, the ERC shall continue conducting its own strategic studies to prepare for and support its activities, maintain close contacts with the scientific community and	The ERC's Scientific Council shall continuously monitor the ERC's operations and consider how best to achieve its objectives by means of grant schemes that emphasise clarity, stability and simplicity, both for applicants and in their implementation and management, and, as necessary, to respond to emerging needs. It shall endeavour to sustain and further refine the ERC's world-class peer-review system which is based on transparent, fair and impartial treatment of proposals so that it can identify ground-breaking scientific excellence and talent regardless of a researcher's ***sex***, nationality or age. Finally, the ERC shall continue conducting its own strategic studies to prepare for and support its activities, maintain close contacts with the scientific community and other

other stakeholders and look to make its activities complement research conducted at other levels.	stakeholders and look to make its activities complement research conducted at other levels.

Or. en

Amendment 883
Vicky Ford

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.1 – paragraph 1

Text proposed by the Commission	*Amendment*
The specific objective is to foster radically new technologies ***by exploring novel*** and ***high-risk*** ideas ***building*** on scientific foundations. By providing flexible support to goal-oriented and interdisciplinary collaborative research on various scales and by adopting innovative research practices, the aim is to identify and seize opportunities of long-term benefit for citizens, the economy and society.	The specific objective is to foster ***frontier research, including*** radically new technologies and ***high risk*** ideas ***which build*** on scientific foundations***, with the potential to open new fields for European science and technology***. By providing flexible support to goal-oriented and interdisciplinary collaborative research on various scales and by adopting innovative research practices, the aim is to identify and seize opportunities of long-term benefit for citizens, the economy and society.

Or. en

Amendment 884
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.1 – paragraph 1

Text proposed by the Commission	*Amendment*
The specific objective is to foster radically new technologies by exploring novel and high-risk ideas building on scientific foundations. By providing flexible support to goal-oriented and interdisciplinary collaborative research on various scales	The specific objective is to foster radically new technologies by exploring novel and high-risk ideas building on ***fundamental research and*** scientific foundations. By providing flexible support to goal-oriented and interdisciplinary collaborative research

and by adopting innovative research practices, the aim is to identify and seize opportunities of long-term benefit for citizens, the economy and society.	on various scales and by adopting innovative research practices, the aim is to identify and seize opportunities of long-term benefit for citizens, the economy and society.

Or. en

Amendment 885
Gaston Franco, Françoise Grossetête

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.1 – paragraph 1

Text proposed by the Commission	*Amendment*
The specific objective is to foster radically new technologies by exploring novel and high-risk ideas building on scientific foundations. By providing flexible support to goal-oriented and interdisciplinary collaborative research on various scales ***and by adopting innovative research practices****,* the aim is to identify and seize opportunities of long-term benefit for citizens, the economy and society.	The specific objective is to foster radically new technologies by exploring novel and high-risk ideas building on scientific foundations***, such as a better understanding of human pathologies and toxicity mechanisms, and the implementation in Union health research and in risk assessment strategies of tools and cellular, genome and IT technologies with human relevance.*** By providing flexible support to goal-oriented and interdisciplinary collaborative research on various scales, the aim is to identify and seize opportunities of long-term benefit for citizens, the economy and society.

Or. fr

Justification

This amendment is intended to give examples of promising new technologies and their application in basic research or within industry.

Amendment 886
Nuno Teixeira

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.1 – paragraph 1

Text proposed by the Commission	*Amendment*
The specific objective is to foster radically new technologies by exploring novel and high-risk ideas building on scientific foundations. By providing flexible support to goal-oriented and interdisciplinary collaborative research on various scales and by adopting innovative research practices, the aim is to identify and seize opportunities of long-term benefit for citizens, the economy and society.	The specific objective is to foster radically new technologies by exploring novel and high-risk ideas building on scientific foundations. By providing flexible support to goal-oriented and interdisciplinary collaborative research on various scales and by adopting innovative research practices, the aim is to identify and seize opportunities of long-term benefit for citizens, the economy and society. ***Smart specialisation platforms have a key role to play in this respect, particularly in terms of creation and networking, the exchange of information, twinning schemes and support for research and innovation policies.***

Or. pt

Justification

Smart specialisation platforms play a crucial role in terms of the exchange of information, interdisciplinary collaboration and gearing research to multi-level targets using innovative practices.

Amendment 887
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.1 – paragraph 2

Text proposed by the Commission	*Amendment*
FET shall promote research beyond what is known, accepted or widely adopted and shall foster novel and visionary thinking to open promising paths towards powerful new technologies, some of which could develop into leading technological and intellectual paradigms for the decades ahead. FET shall foster efforts to pursue	FET shall promote research beyond what is known, accepted or widely adopted and shall foster novel and visionary thinking to open promising paths towards powerful new technologies, some of which could develop into leading technological and intellectual paradigms for the decades ahead. FET shall foster efforts to pursue

small-scale research opportunities across all areas, including emerging themes and grand scientific and technological (S&T) challenges that require federation and collaboration between programmes across Europe and beyond. This approach shall be driven by excellence and extends to exploring pre-competitive ideas for shaping the future of technology, enabling society to benefit from multi-disciplinary research collaboration that needs to be engaged at European level by making the link between research driven by science and research driven by societal challenges or by industrial competitiveness.	small-scale research opportunities across all areas, including emerging themes and grand scientific and technological (S&T) challenges that require federation and collaboration between programmes across Europe and beyond. This approach shall be driven by excellence and extends to exploring pre-competitive ideas for shaping the future of technology, enabling society to benefit from multi-disciplinary research collaboration that needs to be engaged at European level by making the link between research driven by science and research driven by societal ***goals and*** challenges or by industrial competitiveness.

Or. en

Amendment 888
Gaston Franco, Françoise Grossetête

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.2 – paragraph 1

Text proposed by the Commission	*Amendment*
Radical breakthroughs with a transformative impact increasingly rely on intense collaboration across disciplines in science and technology (for instance, information and communication, biology, chemistry, earth system sciences, material sciences, neuro- and cognitive sciences, social sciences or economics) ***and with the arts and humanities***. ***This requires not only excellence in science and technology but also new attitudes and novel interactions between a broad range of players in research.***	Radical breakthroughs with a transformative impact increasingly rely on intense collaboration across disciplines in science and technology (for instance, information and communication, biology, ***bioengineering and robotics,*** chemistry, earth system sciences, material sciences, neuro- and cognitive sciences, social sciences or economics).

Or. fr

Justification

The multidisciplinary life-science and engineering technologies are essential for research based on an understanding of biological mechanisms, and should be mentioned in this paragraph.

Amendment 889
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.2 – paragraph 1

Text proposed by the Commission	*Amendment*
Radical breakthroughs with a transformative impact increasingly rely on intense collaboration across disciplines in science and technology (for instance, information and communication, biology, chemistry, earth system sciences, material sciences, neuro- and cognitive sciences, social sciences or economics) and with the arts and humanities. This requires not only excellence in science and technology but also new attitudes and novel interactions between a broad range of players in research.	Radical breakthroughs with a transformative impact increasingly rely on intense collaboration across disciplines in science and technology (for instance, information and communication, biology, chemistry, ***physics, mathematics, modelling,*** earth system sciences, material sciences, neuro- and cognitive sciences, social sciences or economics) and with the arts and humanities. This requires not only excellence in science and technology but also new attitudes and novel interactions between a broad range of players in research.

Or. en

Amendment 890
Vicky Ford

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.2 – paragraph 1

Text proposed by the Commission	*Amendment*
Radical breakthroughs with a transformative impact increasingly rely on intense collaboration across disciplines in science and technology (for instance, information and communication, biology,	Radical breakthroughs with a transformative impact increasingly rely on intense collaboration across disciplines in science and technology (for instance, information and communication, biology,

chemistry, earth system sciences, material sciences, neuro- and cognitive sciences, social sciences or economics) and with the arts and humanities. This requires not only excellence in science and technology but also new attitudes and novel interactions between a broad range of players in research.	chemistry, ***physics, mathematics,*** earth system sciences, material sciences, neuro- and cognitive sciences, social sciences or economics) and with the arts and humanities. This requires not only excellence in science and technology but also new attitudes and novel interactions between a broad range of players in research.

Or. en

Amendment 891
Luigi Berlinguer

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.2 – paragraph 1

Text proposed by the Commission	*Amendment*
Radical breakthroughs with a transformative impact increasingly rely on intense collaboration across disciplines in science and technology (for instance, information and communication, biology, chemistry, earth system sciences, material sciences, neuro- and cognitive sciences, social sciences or economics) and with the arts and humanities. This requires not only excellence in science and technology but also new attitudes and novel interactions between a broad range of players in research.	Radical breakthroughs with a transformative impact increasingly rely on intense collaboration across disciplines in science and technology (for instance, information and communication, biology, chemistry, ***mathematics, physics,*** earth system sciences, material sciences, neuro- and cognitive sciences, social sciences or economics) and with the arts and humanities. This requires not only excellence in science and technology but also new attitudes and novel interactions between a broad range of players in research.

Or. en

Amendment 892
Henri Weber, Catherine Trautmann

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.2 – paragraph 1

Text proposed by the Commission	*Amendment*
Radical breakthroughs with a transformative impact increasingly rely on intense collaboration across disciplines in science and technology (for instance, information and communication, biology, chemistry, earth system sciences, material sciences, neuro- and cognitive sciences, social sciences or economics) and with the arts and humanities. This requires not only excellence in science and technology but also new attitudes and novel interactions between a broad range of players in research.	Radical breakthroughs with a transformative impact increasingly rely on intense collaboration across disciplines in science and technology (for instance, information and communication, biology, chemistry, ***mathematics,*** earth system sciences, material sciences, neuro- and cognitive sciences, social sciences or economics) and with the arts and humanities. This requires not only excellence in science and technology but also new attitudes and novel interactions between a broad range of players in research.

Or. fr

Amendment 893
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.2 – paragraph 1

Text proposed by the Commission	*Amendment*
Radical breakthroughs with a transformative impact increasingly rely on intense collaboration across disciplines in science and technology (for instance, information and communication, biology, chemistry, earth system sciences, material sciences, neuro- and cognitive sciences, social sciences or economics) and with the arts and humanities. This requires not only excellence in science and technology but also new attitudes and novel interactions between a broad range of players in research.	Radical breakthroughs with a transformative impact increasingly rely on intense collaboration across disciplines in science and technology (for instance, information and communication, biology, ***medicine,*** chemistry, earth system sciences, material sciences, neuro- and cognitive sciences, social sciences or economics) and with the arts and humanities. This requires not only excellence in science and technology but also new attitudes and novel interactions between a broad range of players in research.

Or. en

Amendment 894
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.2 – paragraph 2

Text proposed by the Commission	*Amendment*
While some ideas can be developed on a small scale, others may be so challenging that they require a large federated effort over a substantial period of time. Major economies worldwide have recognised this, and there is growing global competition to identify and pursue emerging technological opportunities at the frontier of science which can generate a considerable impact on innovation and benefits for society. To be effective, these types of activity need to be built up quickly to a large scale, by federating across programmes at European, national and regional levels around common goals to build critical mass, foster synergies and obtain optimum leveraging effects.	While some ideas can be developed on a small scale, others may be so challenging that they require a large federated effort over a substantial period of time. Major economies worldwide have recognised this, and there is growing global competition to identify and pursue emerging technological opportunities at the frontier of science which can generate a considerable impact on innovation and benefits for society. ***These advancements will very likely determine the future global leaders in science, technology and economy.*** To be effective, these types of activity need to be ***managed expertly and*** built up quickly to a large scale, by federating across programmes at European, national and regional levels around common goals to build critical mass, foster synergies and obtain optimum leveraging effects.

Or. en

Amendment 895
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.2 – paragraph 3

Text proposed by the Commission	*Amendment*
The FET programme shall address the entire spectrum of science-driven innovation: from bottom-up, small-scale early explorations of embryonic and fragile ideas to building new research and innovation communities around transformative emerging research areas and	The FET programme shall address the entire spectrum of science-driven innovation: from bottom-up, small-scale early explorations of embryonic and fragile ideas to building new research and innovation communities around transformative emerging research areas and

large and federated research initiatives built around a research agenda aiming to achieve ambitious and visionary goals. These three levels of engagement each have their own specific value, while being complementary and synergistic. For example, small-scale explorations can reveal needs for developing new themes that can lead to large-scale action based on roadmaps. They involve a wide range of research players, including young researchers and research-intensive SMEs, and stakeholder communities (civil society, policymakers, industry and public researchers), clustered around research agendas as they take shape, mature and diversify.	large and federated research initiatives built around a research agenda aiming to achieve ambitious and visionary goals. These three levels of engagement each have their own specific value, while being complementary and synergistic. For example, small-scale explorations can reveal needs for developing new themes that can lead to large-scale action based on roadmaps. They involve a wide range of research players, including young researchers and research-intensive SMEs, and stakeholder communities (civil society, policymakers, industry and public researchers), clustered around ***evolving*** research agendas as they take shape, mature and diversify.

Or. en

Amendment 896
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.3 – paragraph 2 – point a

Text proposed by the Commission	*Amendment*
(a) By fostering novel ideas (‘FET Open’), FET shall support ***embryonic*** science and technology research exploring new foundations for radically new future technologies by challenging current paradigms and venturing into unknown areas. A bottom-up selection process widely open to any research ideas shall build up a diverse portfolio of targeted projects. Early detection of promising new areas, developments and trends, along with attracting new and high-potential research and innovation players, will be key.	(a) By fostering novel ideas (‘FET Open’), FET shall support ***early stage*** science and technology research exploring new foundations for radically new future technologies by challenging current paradigms and venturing into unknown areas. A bottom-up selection process widely open to any research ideas shall build up a diverse portfolio of targeted projects. Early detection of promising new areas, developments and trends, along with attracting new and high-potential research and innovation players, will be key.

Or. en

Amendment 897
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.3 – paragraph 2 – point b

Text proposed by the Commission	*Amendment*
(b) By nurturing emerging themes and communities ('FET Proactive'), FET shall address a number of promising exploratory research themes with the potential to generate a critical mass of inter-related projects that, together, make up a broad and multi-faceted exploration of the themes and build a European pool of knowledge.	(b) By nurturing emerging themes and communities ('FET Proactive') ***in close association with societal challenges and industrial technological themes***, FET shall address a number of promising exploratory research themes with the potential to generate a critical mass of inter-related projects that, together, make up a broad and multi-faceted exploration of the themes and build a European pool of knowledge.

Or. en

Amendment 898
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.3 – paragraph 2 – point c

Text proposed by the Commission	*Amendment*
(c) By pursuing grand interdisciplinary S&T challenges ('FET Flagships'), FET shall support ambitious large-scale, science-driven research aiming to achieve a scientific breakthrough. Such activities will benefit from the alignment of European and national agendas. The scientific advance should provide a strong and broad basis for future technological innovation and economic application in a variety of areas, plus novel benefits for society.	(c) By pursuing grand interdisciplinary S&T challenges ('FET Flagships'), FET shall support ambitious large-scale, science-driven research aiming to achieve a scientific ***and technological*** breakthrough. Such activities will benefit from the alignment of European and national ***and regional*** agendas. The scientific advance should provide a strong and broad basis for future technological innovation and economic application in a variety of areas, plus novel benefits for society. ***Activities with high societal impact should be prioritized.***

Or. en

Amendment 899
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 2 – point 2.3 – paragraph 3

Text proposed by the Commission	*Amendment*
The right mix of openness and varying degrees of structuring of topics, communities and funding shall be defined for each activity in order to address optimally the objectives pursued.	The right mix of openness and varying degrees of structuring of topics, communities and funding shall be defined for each activity in order to address optimally the objectives pursued. ***FET activities shall be open to collaboration with third parties, based on common interest and mutual benefit, while protecting European interests.***

Or. en

Amendment 900
Rolandas Paksas

Proposal for a regulation
Annex 1 – Part – point 2 – point 2.3 – paragraph 3 a (new)

Text proposed by the Commission	*Amendment*
	FEST will be operated in all three priorities of Horizon 2020. The FEST budget will be allocated across the three priorities in proportion to the allocation of the total Horizon 2020 budget across the three priorities.
	A FEST Steering Board, composed of scientists and engineers of the highest repute and appropriate expertise, ensuring a diversity of research areas and acting in their personal capacity, shall provide input and advice to the Commission on the overall scientific strategy for the FEST activities, the establishment of the work programme and the criteria for the calls for proposals, as

well as the definition of specific topics for FEST Proactive and FEST Flagships.

Evaluation of all FEST projects will follow exclusively strict criteria of scientific and technological excellence and, in pillars two and three, of innovation potential (impact)

Or. en

Amendment 901
Andrzej Grzyb, Jerzy Buzek, Jolanta Emilia Hibner, Lena Kolarska-Bobińska, Bogdan Kazimierz Marcinkiewicz, Marian-Jean Marinescu, Jan Březina, Piotr Borys

Proposal for a regulation
Annex 1 – Part 1 – point 3 – introductory part

Text proposed by the Commission	*Amendment*
3. Marie ***Curie*** Actions	3. Marie ***Skłodowska-Curie*** Actions

Or. en

Amendment 902
Gunnar Hökmark

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 1

Text proposed by the Commission	*Amendment*
The specific objective is to ensure optimum development and dynamic use of Europe's intellectual capital in order to generate new skills and innovation and, thus, to realise its full potential across all sectors and regions.	The specific objective is to ensure optimum development and dynamic use of Europe's intellectual capital***, attracting world-leading researchers to Europe*** in order to generate ***and transfer*** new skills***, knowledge*** and innovation and, thus, to realise its full potential across all sectors and regions.

Or. en

Amendment 903
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 1

Text proposed by the Commission	*Amendment*
The specific objective is to ensure optimum development and dynamic use of Europe's ***intellectual capital*** in order to generate new skills and innovation and, thus, to realise its full potential across all sectors and regions.	The specific objective is to ensure optimum development and dynamic use of Europe's ***human resources*** in ***research and innovation in*** order to generate new skills and innovation and, thus, to realise its full potential across all sectors and regions.

Or. en

Amendment 904
Vicky Ford

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 1

Text proposed by the Commission	*Amendment*
The specific objective is to ensure optimum development and dynamic use of Europe's intellectual capital in order to ***generate*** new skills and innovation and, thus, to realise its full potential across all sectors and regions.	The specific objective is to ensure optimum development and dynamic use of Europe's intellectual capital in order to ***develop*** new skills***, knowledge*** and innovation and, thus, to realise its full potential across all sectors and regions.

Or. en

Amendment 905
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 1

Text proposed by the Commission	*Amendment*
The specific objective is to ensure	The specific objective is to ensure

optimum development and dynamic use of Europe's intellectual capital in order to ***generate*** new skills and innovation and, thus, to realise its full potential across all sectors and regions.

optimum development and dynamic use of Europe's intellectual capital in order to ***develop*** new ***scientific and technological*** skills and innovation and, thus, to realise its full potential across all sectors and regions.

Or. en

Amendment 906
Judith A. Merkies

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 4

Text proposed by the Commission	*Amendment*
The necessary reform must start at the first stages of the researchers' careers, during their doctoral studies or comparable post-graduate training. Europe must develop state-of-the-art, innovative training schemes, consistent with the highly competitive and increasingly inter-disciplinary requirements of research and innovation. Strong involvement of businesses, including SMEs and other socio-economic actors, will be needed to equip researchers with the innovation skills demanded by the jobs of tomorrow. It will also be important to enhance the mobility of these researchers, as it currently remains at too modest a level: in 2008, only 7 % of European doctoral candidates were trained in another Member State, whereas the target is 20 % by 2030.	The necessary reform must start at the first stages of the researchers' careers, during their doctoral studies or comparable post-graduate training. ***Special attention has to be paid to mentoring schemes which stimulate transfer of knowledge, experience and networks from retiring scientists to young scientists.*** Europe must develop state-of-the-art, innovative training schemes, consistent with the highly competitive and increasingly inter-disciplinary requirements of research and innovation. Strong involvement of businesses, including SMEs and other socio-economic actors, will be needed to equip researchers with the innovation skills demanded by the jobs of tomorrow. It will also be important to enhance the mobility of these researchers, as it currently remains at too modest a level: in 2008, only 7 % of European doctoral candidates were trained in another Member State, whereas the target is 20 % by 2030.

Or. en

Amendment 907
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 4

Text proposed by the Commission	*Amendment*
The necessary reform must start at the first stages of the researchers' careers, during their doctoral studies or comparable post-graduate training. Europe must develop state-of-the-art, innovative training schemes, consistent with the highly competitive and increasingly inter-disciplinary requirements of research and innovation. Strong involvement of businesses, including SMEs and other socio-economic actors, will be needed to equip researchers with the innovation skills demanded by the jobs of tomorrow. It will also be important to enhance the mobility of these researchers, as it currently remains at too modest a level: in 2008, only 7 % of European doctoral candidates were trained in another Member State, whereas the target is 20 % by 2030.	The necessary reform must start at the first stages of the researchers' careers, during their doctoral studies or comparable post-graduate training. Europe must develop state-of-the-art, innovative training schemes, consistent with the highly competitive and increasingly inter-disciplinary requirements of research and innovation. Strong involvement of businesses, including SMEs and other socio-economic actors, will be needed to equip researchers with the innovation skills demanded by the jobs of tomorrow ***and encourage them to consider their careers in industry or in the most innovative companies***. It will also be important to enhance the mobility of these researchers, as it currently remains at too modest a level: in 2008, only 7 % of European doctoral candidates were trained in another Member State, whereas the target is 20 % by 2030.

Or. en

Amendment 908
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 4

Text proposed by the Commission	*Amendment*
The necessary reform must start at the first stages of the researchers' careers, during their doctoral studies or comparable post-graduate training. Europe must develop state-of-the-art, innovative training	The necessary reform must start at the first stages of the researchers' careers, during their doctoral studies or comparable post-graduate training. Europe must develop state-of-the-art, innovative training

schemes, consistent with the highly competitive and increasingly inter-disciplinary requirements of research and innovation. Strong involvement of businesses, including SMEs and other socio-economic actors, will be needed to equip researchers with the innovation skills demanded by the jobs of tomorrow. It will also be important to enhance the mobility of these researchers, as it currently remains at too modest a level: in 2008, only 7 % of European doctoral candidates were trained in another Member State, whereas the target is 20 % by 2030.	schemes, consistent with the highly competitive and increasingly inter-disciplinary requirements of research and innovation. Strong involvement of businesses, including SMEs and other socio-economic actors, will be needed to equip researchers with the ***cross-cutting*** innovation ***and entrepreneurial*** skills demanded by the jobs of tomorrow. It will also be important to enhance the mobility of these researchers, as it currently remains at too modest a level: in 2008, only 7 % of European doctoral candidates were trained in another Member State, whereas the target is 20 % by 2030.

Or. en

Amendment 909
Gunnar Hökmark

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 4 a (new)

Text proposed by the Commission	*Amendment*
	Increasing mobility of researchers and strengthening the resources of those institutions which attract researchers from other Member States will encourage centres of excellence around the European Union

Or. en

Amendment 910
Gunnar Hökmark

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 5

Text proposed by the Commission	*Amendment*
This reform must continue through every	This reform must continue through every

stage of researchers' careers. It is vital to increase the mobility of researchers at all levels, including mid-career mobility, not only between countries but also between the public and private sectors. This creates a strong stimulus for learning and developing new skills. It is also a key factor in cooperation between academics, research centres and industry across countries. The human factor is the backbone of sustainable cooperation which is the key driver for an innovative and creative Europe able to face challenges to society, and key to overcoming fragmentation of national policies. Collaborating and sharing knowledge, via individual mobility at all stages of a career and via exchanges of highly skilled research and innovation staff, are essential for Europe to re-take the path to sustainable growth and to tackle societal challenges.	stage of researchers' careers. It is vital to increase the mobility of researchers at all levels, including mid-career mobility, not only between countries but also between the public and private sectors. This creates a strong stimulus for learning and developing new skills. It is also a key factor in cooperation between academics, research centres and industry across countries. The human factor is the backbone of sustainable cooperation which is the key driver for an innovative and creative Europe able to face challenges to society, and key to overcoming fragmentation of national policies. Collaborating and sharing knowledge, via individual mobility at all stages of a career and via exchanges of highly skilled research and innovation staff, are essential for Europe to re-take the path to sustainable growth and to tackle societal challenges. ***In this context Horizon2020 should also encourage collaboration between European researchers by introducing a research voucher scheme with money for research following researchers that move to universities in all Member States, contributing to centres of excellence, independent universities, increased mobility among researchers.***

Or. en

Amendment 911
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 5

Text proposed by the Commission	*Amendment*
This reform must continue through every stage of researchers' careers. It is vital to increase the mobility of researchers at all levels, including mid-career mobility, not only between countries but also between	This reform must continue through every stage of researchers' careers. It is vital to increase the mobility of researchers at all levels, including mid-career mobility, not only between countries but also between

the public and private sectors. This creates a strong stimulus for learning and developing new skills. It is also a key factor in cooperation between academics, research centres and industry across countries. The human factor is the backbone of sustainable cooperation which is the key driver for an innovative and creative Europe able to face challenges to society, and key to overcoming fragmentation of national policies. ***Collaborating*** and sharing knowledge, via individual mobility at all stages of a career and via exchanges of highly skilled research and innovation staff, are essential for Europe to re-take the path to sustainable growth and to tackle societal challenges.	the public and private sectors. This creates a strong stimulus for learning and developing new skills. It is also a key factor in cooperation between academics, research centres and industry across countries. The human factor is the backbone of sustainable cooperation which is the key driver for an innovative and creative Europe able to face challenges to society, and key to overcoming fragmentation of national policies. ***Open access to research results*** and ***collaborating and*** sharing knowledge, via individual mobility at all stages of a career and via exchanges of highly skilled research and innovation staff, are essential for Europe to ***smooth out internal differences in research and innovation capacities,*** re-take the path to sustainable growth and to tackle societal challenges.

Or. en

Amendment 912
Vicky Ford

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 5 a (new)

Text proposed by the Commission	*Amendment*
	Mobility programmes will ensure effective equal opportunities between men and women and will include specific measures to remove obstacles to the mobility of all researchers.

Or. en

Amendment 913
Bernd Lange

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 5 a (new)

Text proposed by the Commission	*Amendment*
	The compatibility of grants as a funding instrument for mobile researchers must be guaranteed in the interests of mobility within Europe. Tax-related issues must be resolved and social protection guaranteed for European scientists.

Or. de

Justification

Grants are a vital component in promoting international scientific collaboration. Mobility within Europe must not be stymied by compatibility problems, tax-related issues or a lack of social protection for researchers.

Amendment 914
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 6

Text proposed by the Commission	*Amendment*
If Europe is to match its competitors in research and innovation, it must entice more young women and men to embark on research careers and provide highly attractive opportunities and environments for research and innovation. The most talented individuals, from Europe and elsewhere, should see Europe as a pre-eminent place to work. Gender equality, high-quality and reliable employment and working conditions plus recognition are crucial aspects that must be secured in a consistent way across the whole of Europe.	If Europe is to match its competitors in research and innovation, it must entice more young women and men to embark ***unified European-wide*** on research careers and provide highly attractive opportunities and environments for research and innovation. The most talented individuals, from Europe and elsewhere, should see Europe as a pre-eminent place to work. Gender equality, high-quality and reliable employment and working conditions plus recognition are crucial aspects that must be secured in a consistent way across the whole of Europe.

Or. en

Amendment 915
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 6

Text proposed by the Commission	*Amendment*
If Europe is to match its competitors in research and innovation, it must entice more young women and men to embark on research careers and provide highly attractive opportunities and environments for research and innovation. The most talented individuals, from Europe and elsewhere, should see Europe as a pre-eminent place to work. Gender equality, high-quality and reliable employment and working conditions plus recognition are crucial aspects that must be secured in a consistent way across the whole of Europe.	If Europe is to match its competitors in research and innovation, it must entice more young women and men to embark on research careers and provide highly attractive opportunities and environments for research and innovation. The most talented individuals, from Europe and elsewhere, should see Europe as a pre-eminent place to work. Gender equality, high-quality and reliable employment and working conditions plus recognition ***and social status*** are crucial aspects that must be secured in a consistent way across the whole of Europe.

Or. en

Amendment 916
Anna Záborská, Jan Březina

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 6

Text proposed by the Commission	*Amendment*
If Europe is to match its competitors in research and innovation, it must entice more young women and men to embark on research careers and provide highly attractive opportunities and environments for research and innovation. The most talented individuals, from Europe and elsewhere, should see Europe as a pre-eminent place to work. ***Gender equality***, high-quality and reliable employment and working conditions plus recognition are crucial aspects that must be secured in a consistent way across the whole of Europe.	If Europe is to match its competitors in research and innovation, it must entice more young women and men to embark on research careers and provide highly attractive opportunities and environments for research and innovation. The most talented individuals, from Europe and elsewhere, should see Europe as a pre-eminent place to work. ***Equal opportunities for women and men***, high-quality and reliable employment and working conditions plus recognition are crucial aspects that must be secured in a

consistent way across the whole of Europe.

Or. en

Amendment 917
Christian Ehler

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.1 – paragraph 6 a (new)

Text proposed by the Commission	*Amendment*
	Strategic actions and scientific advise can ensure a more streamlined implementation of the Marie Curie Actions. The ERC's Scientific Council shall therefore implement and continuously monitor the Marie Curie Actions and consider how best to achieve its objectives.

Or. en

Amendment 918
Anna Záborská, Jan Březina

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.2 – paragraph 1

Text proposed by the Commission	*Amendment*
Neither Union funding alone nor Member States individually will be able to address this challenge. Although Member States have introduced reforms to improve their tertiary education institutions and modernise their training systems, progress is still uneven across Europe, with big differences between countries. ***Overall, scientific and technological cooperation between the public and private sectors generally remains weak in Europe.*** The same applies to ***gender equality*** and to the efforts to attract students and researchers	Neither Union funding alone nor Member States individually will be able to address this challenge. Although Member States have introduced reforms to improve their tertiary education institutions and modernise their training systems, progress is still uneven across Europe, with big differences between countries. The same applies to ***equal opportunities for women*** and ***men in research and innovation, and*** to the efforts to attract students and researchers ***of both sexes*** from outside the ERA. Currently around 20 % of the

from outside the ERA. Currently around 20 % of the doctoral candidates in the Union are citizens of third countries, whereas about 35 % in the United States of America come from abroad. To speed up this change, a strategic approach that goes beyond national borders is required at Union level. Union funding is crucial to create incentives for and encourage the indispensable structural reforms.

doctoral candidates in the Union are citizens of third countries, whereas about 35 % in the United States of America come from abroad. To speed up this change, a strategic approach that goes beyond national borders is required at Union level. Union funding is crucial to create incentives for and encourage the indispensable structural reforms.

Or. en

Amendment 919
Andrzej Grzyb, Jerzy Buzek, Jolanta Emilia Hibner, Lena Kolarska-Bobińska, Bogdan Kazimierz Marcinkiewicz, Marian-Jean Marinescu, Jan Březina, Piotr Borys

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.2 – paragraph 2

Text proposed by the Commission	*Amendment*
The European Marie ***Curie*** actions have made remarkable progress to promote mobility, both transnational and intersectoral, and to open research careers at European and international levels, with excellent employment and working conditions following the European Researchers Charter and Code. There is no equivalent in Member States as far as their scale and scope, funding, international character, generation and transfer of knowledge are concerned. They have strengthened the resources of those institutions able to attract researchers internationally and thereby encouraged the spread of centres of excellence around the Union. They have served as a role model with a pronounced structuring effect by spreading their best practices at national level. The bottom-up approach taken by Marie ***Curie*** actions has also allowed a large majority of those institutions to train and upgrade the skills of a new generation of researchers able to tackle societal	The European Marie ***Skłodowska-Curie*** actions have made remarkable progress to promote mobility, both transnational and intersectoral, and to open research careers at European and international levels, with excellent employment and working conditions following the European Researchers Charter and Code. There is no equivalent in Member States as far as their scale and scope, funding, international character, generation and transfer of knowledge are concerned. They have strengthened the resources of those institutions able to attract researchers internationally and thereby encouraged the spread of centres of excellence around the Union. They have served as a role model with a pronounced structuring effect by spreading their best practices at national level. The bottom-up approach taken by Marie ***Skłodowska-Curie*** actions has also allowed a large majority of those institutions to train and upgrade the skills of a new generation of researchers able to

challenges.

tackle societal challenges.

Or. en

Amendment 920
Andrzej Grzyb, Jerzy Buzek, Jolanta Emilia Hibner, Lena Kolarska-Bobińska, Bogdan Kazimierz Marcinkiewicz, Marian-Jean Marinescu, Jan Březina, Piotr Borys

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.2 – paragraph 3

Text proposed by the Commission	*Amendment*
Further development of the Marie ***Curie*** actions will make a significant contribution to development of the European Research Area. With their Europe-wide competitive funding structure, Marie ***Curie*** actions will encourage new, creative and innovative types of training such as industrial doctorates, involving education, research and innovation players who will have to compete globally for a reputation of excellence. By providing Union funding for the best research and training programmes following the Principles for Innovative Doctoral Training in Europe, they will also promote wider dissemination and take-up, moving towards more structured doctoral training.	Further development of the Marie ***Skłodowska-Curie*** actions will make a significant contribution to development of the European Research Area. With their Europe-wide competitive funding structure, Marie ***Skłodowska-Curie*** actions will encourage new, creative and innovative types of training such as industrial doctorates, involving education, research and innovation players who will have to compete globally for a reputation of excellence. By providing Union funding for the best research and training programmes following the Principles for Innovative Doctoral Training in Europe, they will also promote wider dissemination and take-up, moving towards more structured doctoral training.

Or. en

Amendment 921
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.2 – paragraph 3

Text proposed by the Commission	*Amendment*
Further development of the Marie Curie actions will make a significant contribution	Further development of the Marie Curie actions will make a significant contribution

to development of the European Research Area. With their Europe-wide competitive funding structure, Marie Curie actions will encourage new, creative and innovative types of training such as industrial ***doctorates***, involving education, research and innovation players who will have to compete globally for a reputation of excellence. By providing Union funding for the best research and training programmes following the Principles for Innovative Doctoral Training in Europe, they will also promote wider dissemination and take-up, moving towards more structured doctoral training.	to development of the European Research Area. With their Europe-wide competitive funding structure, Marie Curie actions will encourage new, creative and innovative types of training such as ***joint or*** industrial ***doctoral degrees***, involving education, research and innovation players who will have to compete globally for a reputation of excellence. By providing Union funding for the best research and training programmes following the Principles for Innovative Doctoral Training in Europe, they will also promote wider dissemination and take-up, moving towards more structured doctoral training.

Or. en

Amendment 922
Andrzej Grzyb, Jerzy Buzek, Jolanta Emilia Hibner, Lena Kolarska-Bobińska, Bogdan Kazimierz Marcinkiewicz, Marian-Jean Marinescu, Jan Březina, Piotr Borys

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.2 – paragraph 4

Text proposed by the Commission	*Amendment*
Marie ***Curie*** grants will also be extended to the temporary mobility of experienced researchers and engineers from public institutions to the private sector or vice versa, thereby encouraging and supporting universities, research centres and businesses to cooperate with one another on a European and international scale. With the aid of their well-established, transparent and fair evaluation system, Marie ***Curie*** actions will identify excellent talents in research and innovation in an international competition which gives prestige and therefore motivation for researchers to advance their career in Europe.	Marie ***Skłodowska-Curie*** grants will also be extended to the temporary mobility of experienced researchers and engineers from public institutions to the private sector or vice versa, thereby encouraging and supporting universities, research centres and businesses to cooperate with one another on a European and international scale. With the aid of their well-established, transparent and fair evaluation system, Marie ***Skłodowska-Curie*** actions will identify excellent talents in research and innovation in an international competition which gives prestige and therefore motivation for researchers to advance their career in Europe.

Or. en

Amendment 923
Andrzej Grzyb, Jerzy Buzek, Jolanta Emilia Hibner, Lena Kolarska-Bobińska, Bogdan Kazimierz Marcinkiewicz, Marian-Jean Marinescu, Jan Březina, Piotr Borys

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.2 – paragraph 5

Text proposed by the Commission	*Amendment*
The societal challenges to be addressed by highly skilled researchers and innovation staff are not just Europe's problem. These are international challenges of colossal complexity and magnitude. The best researchers in Europe and the world need to work together across countries, sectors and disciplines. Marie ***Curie*** actions will play a key role in this respect by supporting staff exchanges that will foster collaborative thinking via the international and intersectoral knowledge-sharing that is so crucial for open innovation.	The societal challenges to be addressed by highly skilled researchers and innovation staff are not just Europe's problem. These are international challenges of colossal complexity and magnitude. The best researchers in Europe and the world need to work together across countries, sectors and disciplines. Marie ***Skłodowska-Curie*** actions will play a key role in this respect by supporting staff exchanges that will foster collaborative thinking via the international and intersectoral knowledge-sharing that is so crucial for open innovation.

Or. en

Amendment 924
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.2 – paragraph 6

Text proposed by the Commission	*Amendment*
Extension of the co-funding mechanism of the Marie Curie actions will be crucial to expand Europe's pool of talents. The numerical and structural impact of Union action will be increased by leveraging regional, national, international and private funding to create new programmes and to open existing ones to international and intersectoral training, mobility and career development. Such a mechanism will forge	Extension of the co-funding mechanism of the Marie Curie actions will be crucial to expand Europe's pool of talents. The numerical and structural impact of Union action will be increased by leveraging regional, national, international ***public*** and private funding to create new programmes and to open existing ones to international and intersectoral training, mobility and career development. Such a mechanism

stronger links between research and education efforts at national and Union levels.	will forge stronger links between research and education efforts at national and Union levels.

Or. en

Amendment 925
Andrzej Grzyb, Jerzy Buzek, Jolanta Emilia Hibner, Lena Kolarska-Bobińska, Bogdan Kazimierz Marcinkiewicz, Marian-Jean Marinescu, Jan Březina, Piotr Borys

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.2 – paragraph 6

Text proposed by the Commission	*Amendment*
Extension of the co-funding mechanism of the Marie ***Curie*** actions will be crucial to expand Europe's pool of talents. The numerical and structural impact of Union action will be increased by leveraging regional, national, international and private funding to create new programmes and to open existing ones to international and intersectoral training, mobility and career development. Such a mechanism will forge stronger links between research and education efforts at national and Union levels.	Extension of the co-funding mechanism of the Marie ***Skłodowska-Curie*** actions will be crucial to expand Europe's pool of talents. The numerical and structural impact of Union action will be increased by leveraging regional, national, international and private funding to create new programmes and to open existing ones to international and intersectoral training, mobility and career development. Such a mechanism will forge stronger links between research and education efforts at national and Union levels.

Or. en

Amendment 926
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.2 – paragraph 6

Text proposed by the Commission	*Amendment*
Extension of the co-funding mechanism of the Marie Curie actions will be crucial to expand Europe's pool of talents. The numerical and structural impact of Union action will be increased by leveraging	Extension of the co-funding mechanism of the Marie Curie actions will be crucial to expand Europe's pool of talents. The numerical and structural impact of Union action will be increased by leveraging

regional, national, international and private funding to create new programmes and to open existing ones to international and intersectoral training, mobility and career development. Such a mechanism will forge stronger links between research and education efforts at national and Union levels.	regional, national, international and private funding to create new programmes***, with similar*** and ***complementary goals, and*** to open existing ones to international and intersectoral training, mobility and career development. Such a mechanism will forge stronger links between research and education efforts at national and Union levels.

Or. en

Amendment 927
Andrzej Grzyb, Jerzy Buzek, Jolanta Emilia Hibner, Lena Kolarska-Bobińska, Bogdan Kazimierz Marcinkiewicz, Marian-Jean Marinescu, Jan Březina, Piotr Borys

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.2 – paragraph 7

Text proposed by the Commission	*Amendment*
All the activities under this challenge will contribute to creating a whole new mindset in Europe that is crucial for creativity and innovation. Marie ***Curie*** funding measures will strengthen pooling of resources in Europe and thereby lead to improvements in coordination and governance of researchers' training, mobility and career development. They will contribute to the policy goals outlined in the Innovation Union, Youth on the Move and the Agenda for New Skills and Jobs and will be vital to turn the European Research Area into reality.	All the activities under this challenge will contribute to creating a whole new mindset in Europe that is crucial for creativity and innovation. Marie ***Skłodowska-Curie*** funding measures will strengthen pooling of resources in Europe and thereby lead to improvements in coordination and governance of researchers' training, mobility and career development. They will contribute to the policy goals outlined in the Innovation Union, Youth on the Move and the Agenda for New Skills and Jobs and will be vital to turn the European Research Area into reality.

Or. en

Amendment 928
Giles Chichester

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point a – paragraph 2

Text proposed by the Commission	*Amendment*
Key activities shall be to provide excellent and innovative training to early-stage researchers at post-graduate level via interdisciplinary projects or doctoral programmes involving universities, research institutions, businesses, SMEs and other socio-economic groups from different countries. This will improve career prospects for young post-graduate researchers in both the public and private sectors.	Key activities shall be to provide excellent and innovative training to early-stage researchers at post-graduate level via interdisciplinary projects or doctoral programmes involving universities, research institutions, businesses, SMEs and other socio-economic groups from different countries. ***Full flexibility in terms of duration, host institution and number of trainees will be possible inside the overall agreed host network and financial volume for a project.*** This will improve career prospects for young post-graduate researchers in both the public and private sectors.

Or. en

Amendment 929
Judith A. Merkies

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point a – paragraph 2

Text proposed by the Commission	*Amendment*
Key activities shall be to provide excellent and innovative training to early-stage researchers at post-graduate level via interdisciplinary projects or doctoral programmes involving universities, research institutions, businesses, SMEs and other socio-economic groups from different countries. This will improve career prospects for young post-graduate researchers in both the public and private sectors.	Key activities shall be to provide excellent and innovative training to early-stage researchers at post-graduate level via interdisciplinary projects or doctoral programmes involving universities, ***mentoring schemes to transfer knowledge and experience from older to younger scientists,*** research institutions, businesses, SMEs and other socio-economic groups from different countries. This will improve career prospects for young post-graduate researchers in both the public and private sectors.

Or. en

Amendment 930
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point a – paragraph 2

Text proposed by the Commission	*Amendment*
Key activities shall be to provide excellent and innovative training to early-stage researchers at post-graduate level via interdisciplinary projects or doctoral programmes involving universities, research institutions, businesses, SMEs and other socio-economic groups from different countries. This will improve career prospects for young post-graduate researchers in both the public and private sectors.	Key activities shall be to provide excellent and innovative training to early-stage researchers at post-graduate level via interdisciplinary projects or doctoral programmes involving universities, research institutions, businesses, SMEs and other socio-economic groups from different countries. ***In this sense, industrial doctoral programs should be strengthened as an important element to foster an innovative spirit among researchers and create closer links between industry and academia.*** This will improve career prospects for young post-graduate researchers in both the public and private sectors. ***Initial training of researchers may include the possibility of recruiting experienced researchers to facilitate the participation of small and medium enterprises and large companies in these projects and create synergies between young and experienced researchers.***

Or. en

Amendment 931
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point b – paragraph 2

Text proposed by the Commission	*Amendment*
Key activities shall be to encourage experienced researchers to broaden or deepen their skills by means of mobility by opening attractive career opportunities in	Key activities shall be to encourage experienced researchers to broaden or deepen their skills by means of mobility by opening attractive career opportunities in

universities, research institutions, businesses, SMEs and other socio-economic groups all over Europe and beyond. Opportunities to restart a research career after a break shall also be supported.	universities, research institutions, businesses, SMEs and other socio-economic groups all over Europe and beyond. Opportunities to restart a research career after a break ***and to re-integrate researchers into a longer term research position in Europe, including in the country of origin, after a trans-national/international mobility experiences,*** shall also be supported.

Or. en

Amendment 932
Luigi Berlinguer

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point a – paragraph 2

Text proposed by the Commission	*Amendment*
Key activities shall be to provide excellent and innovative training to early-stage researchers at post-graduate level via interdisciplinary projects or doctoral programmes involving universities, research institutions, businesses, SMEs and other socio-economic groups from different countries. This will improve career prospects for young post-graduate researchers in both the public and private sectors.	Key activities shall be to provide excellent and innovative training***, also in the field of the third mission of university,*** to early-stage researchers at post-graduate level via interdisciplinary projects or doctoral programmes involving universities, research institutions, businesses, SMEs and other socio-economic groups from different countries. This will improve career prospects for young post-graduate researchers in both the public and private sectors.

Or. en

Amendment 933
Cristina Gutiérrez-Cortines, Maria Da Graça Carvalho, Pilar del Castillo Vera

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point a – paragraph 2

Text proposed by the Commission	*Amendment*
Key activities shall be to provide excellent and innovative training to early-stage researchers at post-graduate level via interdisciplinary projects or doctoral programmes involving universities, research institutions, businesses, SMEs and other socio-economic groups from different countries. This will improve career prospects for young post-graduate researchers in both the public and private sectors.	Key activities shall be to provide excellent and innovative training to early-stage researchers at post-graduate level via interdisciplinary projects or doctoral programmes involving universities, research institutions, businesses, SMEs and other socio-economic groups from different countries. ***Full flexibility in terms of duration, host institution, number of trainees will be possible inside the overall agreed host network and financial volume for a project.*** This will improve career prospects for young post-graduate researchers in both the public and private sectors.

Or. en

Amendment 934
Romana Jordan

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point b – paragraph 2

Text proposed by the Commission	*Amendment*
Key activities shall be to encourage experienced researchers to broaden or deepen their skills by means of mobility by opening attractive career opportunities in universities, research institutions, businesses, SMEs and other socio-economic groups all over Europe and beyond. Opportunities to restart a research career after a break shall also be supported.	Key activities shall be to encourage experienced researchers to broaden or deepen their skills by means of mobility by opening attractive career opportunities in universities, research institutions, businesses, SMEs and other socio-economic groups all over Europe and beyond. ***In order to enhance the innovativeness in private sector, emphasis shall in this regard be given to cross-sector mobility.*** Opportunities to restart a research career after a break shall also be supported.

Or. en

Amendment 935
Vicky Ford

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point b – paragraph 2

Text proposed by the Commission	*Amendment*
Key activities shall be to encourage experienced researchers to broaden or deepen their skills by means of mobility by opening attractive career opportunities in universities, research institutions, businesses, SMEs and other socio-economic groups all over Europe and beyond. Opportunities to restart a research career after a break shall also be supported.	Key activities shall be to encourage experienced researchers to broaden or deepen their skills by means of mobility by opening attractive career opportunities in universities, research institutions, businesses, SMEs and other socio-economic groups all over Europe and beyond***, offering researchers the opportunity to be trained and to acquire new knowledge in a third-country high-level research organisation, and welcome them back to Europe should they choose to return***. Opportunities to restart a research career after a break shall also be supported.

Or. en

Justification

Offering researchers the opportunity to return after training in a third country can improve Europe's human capital in research and innovation, but their return should not be compulsory.

Amendment 936
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point c – paragraph 1

Text proposed by the Commission	*Amendment*
The goal is to reinforce international cross-border and cross-sector collaboration in research and innovation by means of exchanges of research and innovation personnel in order to be able to face global	The goal is to reinforce international cross-border and cross-sector collaboration in research and innovation by means of exchanges of research and innovation ***knowledge and*** personnel in order to be

challenges better.	able to face global challenges better.

Or. en

Amendment 937
Gunnar Hökmark

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point c – paragraph 2

Text proposed by the Commission	*Amendment*
Key activities shall be to support short-term exchanges of research and innovation staff among a partnership of universities, research institutions, businesses, SMEs and other socio-economic groups, both within Europe and worldwide. This will include fostering cooperation with third countries.	Key activities shall be to support short-term exchanges of research and innovation staff***, as well as to offer possibilities to recruit researchers ,***among a partnership of universities, research institutions, businesses, SMEs and other socio-economic groups, both within Europe and worldwide. This will include fostering cooperation with third countries.

Or. en

Amendment 938
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point c – paragraph 2

Text proposed by the Commission	*Amendment*
Key activities shall be to support ***short-term*** exchanges of research and innovation staff among a partnership of universities, research institutions, businesses, SMEs and other socio-economic groups, both within Europe and worldwide. This will include fostering cooperation with third countries.	Key activities shall be to support exchanges of research and innovation staff among a partnership of universities, research institutions, businesses, SMEs and other socio-economic groups, both within Europe and worldwide. This will include fostering cooperation with third countries.

Or. en

Amendment 939
Andrzej Grzyb, Jerzy Buzek, Jolanta Emilia Hibner, Lena Kolarska-Bobińska, Bogdan Kazimierz Marcinkiewicz, Marian-Jean Marinescu, Jan Březina, Piotr Borys

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point d – paragraph 1

Text proposed by the Commission	*Amendment*
The goal is, by leveraging additional funds, to increase the numerical and structural impact of Marie ***Curie*** actions and to foster excellence at national level in researchers' training, mobility and career development.	The goal is, by leveraging additional funds, to increase the numerical and structural impact of Marie ***Skłodowska-Curie*** actions and to foster excellence at national level in researchers' training, mobility and career development.

Or. en

Amendment 940
Gunnar Hökmark

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point d – paragraph 1 – subparagraph 1 (new)

Text proposed by the Commission	*Amendment*
	National and regional funds should support positively evaluated Marie Curie actions that meet the criteria of excellence but where there is not enough funding available in the Horizon2020 program.

Or. en

Amendment 941
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point d – paragraph 2

Text proposed by the Commission	*Amendment*
Key activities shall be, with the aid of a co-funding mechanism, to encourage regional,	Key activities shall be, with the aid of a co-funding mechanism, to encourage regional,

national and international organisations to create new programmes and to ***open*** existing ones to international and intersectoral training, mobility and career development. This will increase the quality of research training in Europe at all career stages, including at doctoral level, will foster free circulation of researchers and scientific knowledge in Europe, will promote attractive research careers by offering open recruitment and attractive working conditions and will support research and innovation cooperation between universities, research institutions and enterprises and cooperation with third countries and international organisations.	national and international organisations to create new programmes and to ***adapt*** existing ones to international and intersectoral training, mobility and career development. This will increase the quality of research training in Europe at all career stages, including at ***pre-doctoral and*** doctoral level, will foster free circulation of researchers and scientific knowledge in Europe, will promote attractive research careers by offering open recruitment and attractive working conditions and will support research and innovation cooperation between universities, research institutions and enterprises and cooperation with third countries and international organisations.

Or. en

Amendment 942
Vicky Ford

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point d – paragraph 2

Text proposed by the Commission	*Amendment*
Key activities shall be, with the aid of a co-funding mechanism, to encourage regional, national and international organisations to create new programmes and to open existing ones to international and intersectoral training, mobility and career development. This will increase the quality of research training in Europe at all career stages, including at doctoral level, will foster free circulation of researchers and scientific knowledge in Europe, will promote attractive research careers by offering open recruitment and attractive working conditions and will support research and innovation cooperation between universities, research institutions and enterprises and cooperation with third	Key activities shall be, with the aid of a co-funding mechanism, to encourage regional, national and international organisations to create new programmes and to open existing ones to international and intersectoral training, mobility and career development. This will increase the quality of research training in Europe at all career stages, including at doctoral level, will foster free circulation of researchers and scientific knowledge in Europe, will promote attractive research careers by offering open recruitment and attractive working conditions and will support research and innovation cooperation between universities, research institutions and enterprises and cooperation with third countries and international organisations.

countries and international organisations.	***Attention should be given to excellence and equality.***

Or. en

Amendment 943
Vicky Ford

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point e – paragraph 1

Text proposed by the Commission	*Amendment*
The goals are to monitor progress, identify gaps in the Marie Curie Actions and to increase their impact. In this context, ***indicators shall be developed and*** data related to researchers' mobility, skills and ***careers*** analysed, seeking synergies and close coordination with the policy support actions on researchers, their employers and funders carried out under the specific objective ' Inclusive, innovative and secure societies‘. The activity shall further aim at raising awareness of the importance and attractiveness of a research career and at disseminating research and innovation results emanating from work supported by Marie Curie actions.	The goals are to monitor progress, identify gaps in the Marie Curie Actions and to increase their impact***, whilst always respecting enhancing excellence as the over-riding primary objective***. In this context, data related to researchers' mobility, skills***, careers*** and ***equal treatment shall be*** analysed, seeking synergies and close coordination with the policy support actions on researchers, their employers and funders carried out under the specific objective ' Inclusive, innovative and secure societies′. The activity shall further aim at raising awareness of the importance and attractiveness of a research career and at disseminating research and innovation results emanating from work supported by Marie Curie actions. ***It shall also include specific measures targeted to remove barriers to career development, including for those who have taken a career break.***

Or. en

Amendment 944
Andrzej Grzyb, Jerzy Buzek, Jolanta Emilia Hibner, Lena Kolarska-Bobińska, Bogdan Kazimierz Marcinkiewicz, Marian-Jean Marinescu, Jan Březina, Piotr Borys

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point e – paragraph 1

Text proposed by the Commission	*Amendment*
The goals are to monitor progress, identify gaps in the Marie ***Curie*** Actions and to increase their impact. In this context, indicators shall be developed and data related to researchers' mobility, skills and careers analysed, seeking synergies and close coordination with the policy support actions on researchers, their employers and funders carried out under the specific objective ' Inclusive, innovative and secure societies'. The activity shall further aim at raising awareness of the importance and attractiveness of a research career and at disseminating research and innovation results emanating from work supported by Marie ***Curie*** actions.	The goals are to monitor progress, identify gaps in the Marie ***Skłodowska-Curie*** Actions and to increase their impact. In this context, indicators shall be developed and data related to researchers' mobility, skills and careers analysed, seeking synergies and close coordination with the policy support actions on researchers, their employers and funders carried out under the specific objective ' Inclusive, innovative and secure societies'. The activity shall further aim at raising awareness of the importance and attractiveness of a research career and at disseminating research and innovation results emanating from work supported by Marie ***Skłodowska-Curie*** actions.

Or. en

Amendment 945
Maria Da Graça Carvalho, Pilar del Castillo Vera

Proposal for a regulation
Annex 1 – Part 1 – point 3 – point 3.3 – point e – paragraph 1

Text proposed by the Commission	*Amendment*
The goals are to monitor progress, identify gaps in the Marie Curie Actions and to increase their impact. In this context, indicators shall be developed and data related to researchers' mobility, skills and careers analysed, seeking synergies and close coordination with the policy support actions on researchers, their employers and funders carried out under the specific objective ' ***Inclusive, innovative*** and ***secure societies***'. The activity shall further aim at raising awareness of the importance and attractiveness of a research career and at disseminating research and innovation results emanating from work supported by	The goals are to monitor progress, identify gaps in the Marie Curie Actions and to increase their impact. In this context, indicators shall be developed and data related to researchers' mobility, skills and careers analysed, seeking synergies and close coordination with the policy support actions on researchers, their employers and funders carried out under the specific objective '***Science for*** and ***with Society***'. The activity shall further aim at raising awareness of the importance and attractiveness of a research career and at disseminating research and innovation results emanating from work supported by

Marie Curie actions.	Marie Curie actions.

Or. en

Amendment 946
Catherine Trautmann

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.1 – paragraph 2

Text proposed by the Commission	*Amendment*
Research infrastructures are key determinants of Europe's competitiveness across the full breadth of scientific domains and essential to science-based innovation. In many fields research is impossible without access to supercomputers, radiation sources for new materials, clean rooms for nanotechnologies, databases for genomics and social sciences, observatories for Earth sciences, broadband networks for transferring data, etc. Research infrastructures are necessary to carry out the research needed to address grand societal challenges — energy, climate change, bio-economy and lifelong health and wellbeing for all. They propel collaboration across borders and disciplines and create a seamless and open European space for online research. They promote mobility of people and ideas, bring together the best scientists from across Europe and the world and enhance scientific education. They drive excellence within the European research and innovation communities and can be outstanding showcases of science for society at large.	Research infrastructures are key determinants of Europe's competitiveness across the full breadth of scientific domains and essential to science-based innovation. In many fields research is impossible without access to supercomputers, radiation sources for new materials, clean rooms for nanotechnologies, databases for genomics and social sciences, observatories for Earth sciences, broadband ***and high-speed broadband*** networks for transferring data, etc. Research infrastructures are necessary to carry out the research needed to address grand societal challenges — energy, climate change, bio-economy and lifelong health and wellbeing for all. They propel collaboration across borders and disciplines and create a seamless and open European space for online research. They promote mobility of people and ideas, bring together the best scientists from across Europe and the world and enhance scientific education. They drive excellence within the European research and innovation communities and can be outstanding showcases of science for society at large.

Or. fr

Amendment 947
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.1 – paragraph 2

Text proposed by the Commission	*Amendment*
Research infrastructures are key determinants of Europe's competitiveness across the full breadth of scientific domains and essential to science-based innovation. In many fields research is impossible without access to supercomputers, radiation sources for new materials, clean rooms for nanotechnologies, databases for genomics and social sciences, observatories for Earth sciences, broadband networks for transferring data, etc. Research infrastructures are necessary to carry out the research needed to address grand societal challenges energy, climate change, bio-economy and lifelong health and wellbeing for all. They propel collaboration across borders and disciplines and create a seamless and open European space for online research. They promote mobility of people and ideas, bring together the best scientists from across Europe and the world and enhance scientific education. They drive excellence within the European research and innovation communities and can be outstanding showcases of science for society at large.	Research infrastructures ***with the highest quality and international attractiveness*** are key determinants of Europe's competitiveness across the full breadth of scientific domains and essential to science-based innovation. In many fields research is impossible without access to supercomputers, radiation sources for new materials, clean rooms for nanotechnologies, databases for genomics and social sciences, observatories for Earth sciences, broadband networks for transferring data, etc. Research infrastructures are necessary to carry out the research needed to address grand societal challenges energy, climate change, bio-economy and lifelong health and wellbeing for all***, among others***. They propel collaboration across borders and disciplines and create a seamless and open European space for online research. They promote mobility of people and ideas, bring together the best scientists from across Europe and the world and enhance scientific education. ***Their construction challenges researchers and innovative companies to develop state of the art technology. By this way, they strengthen Europe's high tech innovative industry.*** They drive excellence within the European research and innovation communities and can be outstanding showcases of science for society at large.

Or. en

Amendment 948
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.1 – paragraph 2

Text proposed by the Commission	*Amendment*
Research infrastructures are key determinants of Europe's competitiveness across the full breadth of scientific domains and essential to science-based innovation. In many fields research is impossible without access to supercomputers, radiation sources for new materials, clean rooms for nanotechnologies, databases for genomics and social sciences, observatories for Earth sciences, broadband networks for transferring data, etc. Research infrastructures are necessary to carry out the research needed to address grand societal challenges energy, climate change, bio-economy and lifelong health and wellbeing for all. They propel collaboration across borders and disciplines and create a seamless and open European space for online research. They promote mobility of people and ideas, bring together the best scientists from across Europe and the world and enhance scientific education. They drive excellence within the European research and innovation communities and can be outstanding showcases of science for society at large.	Research infrastructures are key determinants of Europe's competitiveness across the full breadth of scientific domains and essential to science-based innovation. In many fields research is impossible without access to supercomputers, radiation sources for new materials, clean rooms for nanotechnologies, ***specially equipped labs for biological and medical research,*** databases for genomics and social sciences, observatories ***and sensors*** for Earth sciences, broadband networks for transferring data, etc. Research infrastructures are necessary to carry out the research needed to address grand societal challenges energy, climate change, bio-economy and lifelong health and wellbeing for all. They propel collaboration across borders and disciplines and create a seamless and open European space for online research. They promote mobility of people and ideas, bring together the best scientists from across Europe and the world and enhance scientific education. They drive excellence within the European research and innovation communities and can be outstanding showcases of science for society at large.

Or. en

Amendment 949
Patrizia Toia

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.1 – paragraph 2

Text proposed by the Commission	*Amendment*
Research infrastructures are key determinants of Europe's competitiveness across the full breadth of scientific domains and essential to science-based innovation. In many fields research is impossible without access to supercomputers, ***radiation sources*** for new materials, clean rooms for nanotechnologies, databases for genomics and social sciences, observatories for Earth sciences, broadband networks for transferring data, etc. Research infrastructures are necessary to carry out the research needed to address grand societal challenges energy, climate change, bio-economy and lifelong health and wellbeing for all. ***They*** propel collaboration across borders and disciplines and create a seamless and open European space for ***online*** research. They promote mobility of people and ideas, bring together the best scientists from across Europe and the world and enhance scientific education. They drive excellence within the European research and innovation communities and can be outstanding showcases of science for society at large.	***Excellent research*** infrastructures are key determinants of Europe's competitiveness across the full breadth of scientific domains and essential to science-based innovation. In many fields research is impossible without access to supercomputers, ***analytical facilities*** for new materials, clean rooms ***and advanced metrology*** for nanotechnologies, databases for genomics and social sciences, observatories for ***the*** Earth sciences ***and the environment***, broadband networks for transferring data, etc. Research infrastructures are necessary to carry out the research needed to address grand societal challenges — energy, climate change, bio-economy and lifelong health and wellbeing for all. ***When their quality is world-class, they*** propel collaboration across borders and disciplines and create a seamless and open European space for research. They promote mobility of people and ideas, bring together the best scientists from across Europe and the world and enhance scientific education. They drive excellence within the European research and innovation communities and can be outstanding showcases of science for society at large.

Or. en

Amendment 950
Patrizia Toia

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.1 – paragraph 3

Text proposed by the Commission	*Amendment*
Europe must establish an adequate, stable base for building, maintaining and operating research infrastructures if its	Europe must establish an adequate, stable base for building, maintaining and operating ***excellent*** research

research is to remain world-class. This requires substantial and effective cooperation between Union, national and regional funders for which strong links with the cohesion policy will be pursued to ensure synergies and a coherent approach.	infrastructures***, and to select and prioritize them on the basis of EU-quality and relevance criteria*** if its research is to remain world-class. This requires ***to set-up an European high level evaluation based on independent "peer-review", as well as*** substantial and effective cooperation between Union, national and regional funders for which strong links with the cohesion policy will be pursued to ensure synergies and a coherent approach.

Or. en

Amendment 951
Patrizia Toia

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.1 – paragraph 4

Text proposed by the Commission	*Amendment*
This specific objective addresses a core commitment of the Innovation Union flagship initiative, which highlights the crucial role played by world-class research infrastructures in making ground-breaking research and innovation possible. The initiative stresses the need to pool resources across Europe, and in some cases globally, in order to build and operate research infrastructures. Equally, the Digital Agenda for Europe flagship initiative emphasises the need to reinforce Europe's e-infrastructures and the importance of developing innovation clusters to build Europe's innovative advantage.	This specific objective addresses a core commitment of the Innovation Union flagship initiative, which highlights the crucial role played by world-class research infrastructures in making ground-breaking research and innovation possible. The initiative stresses the need to pool resources across Europe, and in some cases globally, in order to build and operate ***these*** research infrastructures. Equally, the Digital Agenda for Europe flagship initiative emphasises the need to reinforce Europe's e-infrastructures and the importance of developing innovation clusters to build Europe's innovative advantage.

Or. en

Amendment 952
Patrizia Toia

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.2 – paragraph 1

Text proposed by the Commission	*Amendment*
State-of-the-art research infrastructures are becoming increasingly complex and costly, often requiring integration of different equipment, services and data sources and extensive transnational collaboration. No single country has enough resources to support all the research infrastructures it needs. The European approach to research infrastructures has made remarkable progress in recent years with ***implementing*** the ESFRI ***roadmap*** for infrastructures, integrating and opening national research facilities and developing e-infrastructures underpinning a digital European Research Area. The networks of research infrastructures across Europe strengthen its human capital base by providing ***world-class*** training for a new generation of researchers and engineers and promoting interdisciplinary collaboration.	State-of-the-art ***and EU-relevant*** research infrastructures are becoming increasingly complex and costly, often requiring integration of different equipment, services and data sources and extensive transnational collaboration. No single country has enough resources to support all the research infrastructures it needs ***and to open them to international use***. The European approach to research infrastructures has made remarkable progress in recent years with the ***development of best practices, EU-quality and relevance criteria by*** ESFRI ***and the Member States*** for ***existing research*** infrastructures ***and with the implementation of the ESFRI and national roadmaps for new and/or upgraded infrastructures***, ***prioritizing, improving,*** integrating and opening national research facilities and developing e-infrastructures underpinning a digital European Research Area. The networks of research infrastructures across Europe ***have been a preliminary step to initiate integration and to*** strengthen its human capital base by providing training for a new generation of researchers and engineers and promoting interdisciplinary collaboration. ***This has been the precondition for the next step to be achieved in Horizon 2020.***

Or. en

Amendment 953
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.2 – paragraph 1

Text proposed by the Commission	*Amendment*
State-of-the-art research infrastructures are becoming increasingly complex and costly, often requiring integration of different equipment, services and data sources and extensive transnational collaboration. No single country has enough resources to support all the research infrastructures it needs. The European approach to research infrastructures has made remarkable progress in recent years with implementing the ESFRI roadmap for infrastructures, integrating and opening national research facilities and developing e-infrastructures underpinning a digital European Research Area. The networks of research infrastructures across Europe strengthen its human ***capital*** base by providing world-class training for a new generation of researchers and engineers and promoting interdisciplinary collaboration.	State-of-the-art research infrastructures are becoming increasingly complex and costly, often requiring integration of different equipment, services and data sources and extensive transnational collaboration. No single country has enough resources to support all the research infrastructures it needs. The European approach to research infrastructures has made remarkable progress in recent years with ***continuously developing and*** implementing the ESFRI roadmap for infrastructures, integrating and opening national research facilities and developing e-infrastructures underpinning a digital European Research Area. The networks of research infrastructures across Europe strengthen its human ***resources*** base by providing world-class training for a new generation of researchers and engineers and promoting interdisciplinary collaboration.

Or. en

Amendment 954
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.2 – paragraph 1

Text proposed by the Commission	*Amendment*
State-of-the-art research infrastructures are becoming increasingly complex and costly, often requiring integration of different equipment, services and data sources and extensive transnational collaboration. No single country has enough resources to support all the research infrastructures it needs. The European approach to research infrastructures has made remarkable progress in recent years with implementing the ESFRI roadmap for infrastructures,	State-of-the-art research infrastructures are becoming increasingly complex and costly, often requiring integration of different equipment, services and data sources and extensive transnational collaboration. No single country has enough resources to support all the research infrastructures it needs. The European approach to research infrastructures has made remarkable progress in recent years with implementing the ESFRI roadmap for infrastructures,

integrating and opening national research facilities and developing e-infrastructures underpinning a digital European Research Area. The networks of research infrastructures across Europe strengthen its human capital base by providing world-class training for a new generation of researchers and engineers and promoting interdisciplinary collaboration.	integrating and opening national research facilities and developing e-infrastructures underpinning a digital***, networked*** European Research Area. The networks of research infrastructures across Europe strengthen its human capital base by providing world-class training for a new generation of researchers and engineers and promoting interdisciplinary collaboration.

Or. en

Amendment 955
Luigi Berlinguer

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.2 – paragraph 2

Text proposed by the Commission	*Amendment*
Further development and wider use of research infrastructures at Union level will make a significant contribution to development of the European Research Area. ***While the role of Member States remains central in developing and financing research infrastructures,*** the Union plays an important part in supporting infrastructure at Union level, fostering the emergence of new facilities, opening up broad access to national and European infrastructures, and making sure that regional, national, European and international policies are consistent and effective. It is not only necessary to avoid duplication of effort and to coordinate and rationalise use of the facilities, but also to pool resources so that the Union can also acquire and operate research infrastructures at world level.	Further development and wider use of research infrastructures at Union level will make a significant contribution to development of the European Research Area. The Union plays an important part in supporting infrastructure at Union level, fostering the emergence of new facilities, opening up broad access to national and European infrastructures, and making sure that regional, national, European and international policies are consistent and effective. It is not only necessary to avoid duplication of effort and to coordinate and rationalise use of the facilities, but also to pool resources so that the Union can also acquire and operate research infrastructures at world level.

Or. en

Amendment 956
Catherine Trautmann

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.2 – paragraph 2

Text proposed by the Commission	*Amendment*
Further development and wider use of research infrastructures at Union level will make a significant contribution to development of the European Research Area. While the role of Member States remains central in developing and financing research infrastructures, the Union plays an important part in supporting infrastructure at Union level, fostering the emergence of new facilities, opening up broad access to national and European infrastructures, and making sure that regional, national, European and international policies are consistent and effective. It is not only necessary to avoid duplication of effort and to coordinate and rationalise use of the facilities, but also to pool resources so that the Union can also acquire and operate research infrastructures at world level.	Further development and wider use of research infrastructures at Union level will make a significant contribution to development of the European Research Area. While the role of Member States remains central in developing and financing research infrastructures, the Union plays an important part in supporting infrastructure at Union level, fostering the emergence of new facilities ***in more remote regions***, opening up broad access to national and European infrastructures, and making sure that regional, national, European and international policies are consistent and effective. It is not only necessary to avoid duplication of effort and to coordinate and rationalise use of the facilities, but also to pool resources so that the Union can also acquire and operate research infrastructures at world level.

Or. fr

Amendment 957
Vicky Ford, Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.2 – paragraph 2

Text proposed by the Commission	*Amendment*
Further development and wider use of research infrastructures at Union level will make a significant contribution to development of the European Research Area. While the role of Member States remains central in developing and	Further development and wider use of research infrastructures at Union level will make a significant contribution to development of the European Research Area. While the role of Member States remains central in developing and

financing research infrastructures, the Union plays an important part in supporting infrastructure at Union level, fostering the emergence of new facilities, opening up broad access to national and European infrastructures, and making sure that regional, national, European and international policies are consistent and effective. It is not only necessary to avoid duplication of effort and to coordinate and rationalise use of the facilities, but also to pool resources so that the Union can also acquire and operate research infrastructures at world level.	financing research infrastructures, the Union plays an important part in supporting infrastructure at Union level, ***such as the coordination activities of distributed European research infrastructures,*** fostering the emergence of new facilities, opening up broad access to national and European infrastructures, and making sure that regional, national, European and international policies are consistent and effective. It is not only necessary to avoid duplication of effort and to coordinate and rationalise use of the facilities, but also to pool resources so that the Union can also acquire and operate research infrastructures at world level.

Or. en

Amendment 958
Kent Johansson, Hannu Takkula, Jens Rohde, Fiona Hall

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.2 – paragraph 2

Text proposed by the Commission	*Amendment*
Further development and wider use of research infrastructures at ***Union*** level will make a significant contribution to development of the European Research Area. While the role of Member States remains central in developing and financing research infrastructures, the Union plays an important part in supporting infrastructure at ***Union*** level, fostering the emergence of new facilities, opening up broad access to national and European infrastructures, and making sure that regional, national, European and international policies are consistent and effective. It is ***not only*** necessary to avoid duplication of ***effort and*** to ***coordinate*** and ***rationalise*** use of the facilities***, but also*** to pool resources so that the Union can also acquire and operate research infrastructures	Further development and wider use of research infrastructures at ***a European*** level will make a significant contribution to development of the European Research Area. While the role of Member States remains central in developing and financing research infrastructures, the Union plays an important part in supporting infrastructure at ***European*** level, ***such as encouraging co-ordination of distributed research infrastructures,*** fostering the emergence of new facilities, opening up ***and supporting*** broad access to national and European infrastructures, and making sure that regional, national, European and international policies are consistent and effective. It is necessary to avoid duplication of ***efforts,*** to ***foster coordinated*** and ***effective*** use of the

at world level.

facilities ***and where appropriate*** to pool resources so that the Union can also acquire and operate research infrastructures at world level.

Or. en

Amendment 959
Patrizia Toia

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.2 – paragraph 2

Text proposed by the Commission	*Amendment*
Further development and wider use of research infrastructures at Union level will make a significant contribution to ***development*** of the European Research Area. While the role of Member States remains central in developing and financing research infrastructures, the Union plays an important part in supporting ***infrastructure*** at Union level, fostering the emergence of new facilities, opening up broad access to national and European infrastructures, and making sure that regional, national, European and international policies are consistent and effective. It is not only necessary to avoid duplication of effort and to coordinate and rationalise use of the facilities, but also to pool resources so that the Union can ***also*** acquire and operate research infrastructures at world level.	Further development ***at EU level requires effective prioritization based on excellence*** and ***implementation of EU-level quality standards as well as a*** wider use of ***the best*** research infrastructures at Union level***. This*** will make a significant contribution to ***the implementation and operation*** of the European Research Area. While the role of Member States remains central in developing and financing research infrastructures, the Union plays an important part in ***selecting and*** supporting ***world level excellence of infrastructures*** at Union level, fostering the emergence of new ***and integrated*** facilities, opening up broad access to ***the best*** national and European infrastructures, and making sure that regional, national, European and international policies are consistent and effective. It is not only necessary to avoid duplication ***and fragmentation*** of effort and to coordinate and rationalise use of the facilities ***by introducing appropriate evaluation and prioritization***, but also to pool resources ***on the most effective and EU-relevant ones*** so that the Union can acquire and operate research infrastructures ***strengthening its attractiveness and competitivity*** at world level.

Or. en

Amendment 960
Vicky Ford

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.2 – paragraph 2 a (new)

Text proposed by the Commission	*Amendment*
	Enabling remote collaboration, massive data processing, in silico experimentation and access to distant resources all mean that ICT infrastructure plays a transformational role in supporting science. It is therefore likely that a significant proportion of the budget under this specific objective should to go towards e-infrastructures.

Or. en

Justification

ICT and e-infrastructure are vital but given the rapidly changing costs of technological developments it may be inappropriate to lock in set percentages of funding.

Amendment 961
Teresa Riera Madurell

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.2 – paragraph 2 a (new)

Text proposed by the Commission	*Amendment*
	ICT has been transforming science by enabling remote collaboration, massive data processing, in silico experimentation and access to distant resources. Research therefore becomes increasingly transnational and interdisciplinary, requiring the use of ICT infrastructures that are supranational as science itself. It is therefore appropriate for a 38% of the budget under this specific objective to go towards research and innovation in e-

infrastructures.

Or. en

Amendment 962
Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.2 – paragraph 3

Text proposed by the Commission	*Amendment*
The efficiencies of scale and scope achieved by a European approach to construction, use and management of research infrastructures, including e-infrastructures, will make a significant contribution to boosting Europe's research and innovation potential.	The efficiencies of scale and scope achieved by a European approach to construction, use and management of research infrastructures, including e-infrastructures, will make a significant contribution to boosting Europe's research and innovation potential ***and make the EU more competitive at international level***.

Or. en

Amendment 963
Patrizia Toia

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.2 – paragraph 3

Text proposed by the Commission	*Amendment*
The efficiencies of scale and scope achieved by a European approach to construction, use and ***management of*** research infrastructures, including e-infrastructures, will make a significant contribution to boosting Europe's research and innovation potential.	The efficiencies of scale and scope achieved by a ***common and prioritized*** European approach to construction, ***operation and*** use ***of excellent*** and ***world-class*** research infrastructures, including e-infrastructures, will make a significant contribution to boosting Europe's research and innovation potential.

Or. en

Amendment 964
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.3 – paragraph 1

Text proposed by the Commission	*Amendment*
The activities shall aim at developing the European research infrastructures for 2020 and beyond, fostering their innovation potential and human ***capital*** and reinforcing European research infrastructure policy.	The activities shall aim at developing the European research infrastructures for 2020 and beyond, fostering their innovation potential and human ***resources*** and reinforcing European research infrastructure policy.

Or. en

Amendment 965
Patrizia Toia

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.3 – paragraph 1

Text proposed by the Commission	*Amendment*
The activities shall aim at developing the European research infrastructures ***for 2020 and beyond,*** fostering their innovation potential and human capital and reinforcing European research infrastructure policy.	The activities shall aim at ***selecting,*** developing ***and supporting*** the ***best existing and new*** European research infrastructures fostering their innovation potential and human capital and reinforcing European research infrastructure policy.

Or. en

Amendment 966
Cristina Gutiérrez-Cortines, Pilar del Castillo Vera, Alejo Vidal-Quadras

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.3 – paragraph 1 a (new)

Text proposed by the Commission	*Amendment*
	Constitution of a data base concerning the results of the research and innovation

The aim shall be to create and to make available a data base of the results of research and innovation. This will be open to international collaboration. Both research groups and enterprises will add contents to this data base in order to help the launch of a market of innovation and cooperation and to stimulate the meeting of possible partners.

Or. en

Amendment 967
Vicky Ford, Ioannis A. Tsoukalas

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.3 – point a

Text proposed by the Commission	*Amendment*
The aims shall be to ensure the implementation and operation of the ESFRI and other world-class research infrastructures, including the development of regional partner facilities; integration of and access to national research infrastructures; and the development, deployment and operation of e-infrastructures.	The aims shall be to ensure the implementation and operation of ***and transnational access to*** the ESFRI and other world-class research infrastructures***; funding of operational costs with European added value (transnational coordination activities***, ***transnational access, upgrades)*** including the development of regional partner facilities; integration of and access to national research infrastructures; and the development, deployment and operation of e-infrastructures.

Or. en

Amendment 968
Salvador Sedó i Alabart, Ramon Tremosa i Balcells

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.3 – point a

Text proposed by the Commission	*Amendment*
The aims shall be to ensure the implementation and operation of the ESFRI and other world-class research infrastructures, including the development of regional partner facilities; integration of and access to national research infrastructures; and the development, deployment and operation of e-infrastructures.	The aims shall be to ensure the ***preparation, construction,*** implementation and operation of the ESFRI and other world-class research infrastructures, including the development of regional partner facilities; integration of and access to national research infrastructures ***so that European scientists can use them, irrespective of their location, to conduct to top level research***; and the development, deployment and operation of e-infrastructures ***when there exist strong added value for Union intervention***.

Or. en

Amendment 969
Andrzej Grzyb, Jerzy Buzek, Jolanta Emilia Hibner, Lena Kolarska-Bobińska, Bogdan Kazimierz Marcinkiewicz, Krišjānis Kariņš, Marian-Jean Marinescu, Jan Březina, Piotr Borys

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.3 – point a

Text proposed by the Commission	*Amendment*
The aims shall be to ensure the implementation and operation of the ESFRI and other world-class research infrastructures, including the development of regional partner facilities; integration of and access to national research infrastructures; and the development, deployment and operation of e-infrastructures.	The aims shall be to ensure the implementation and operation of the ESFRI and other world-class research infrastructures, including the development of regional partner facilities; integration of and access to national research infrastructures ***of pan-European and regional interest***; and the development, deployment and operation of e-infrastructures.

Or. en

Amendment 970
Patrizia Toia

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.3 – point a

Text proposed by the Commission	*Amendment*
The aims shall be to ensure the implementation and operation of the ESFRI and other world-class research infrastructures, including the development of regional partner facilities; ***integration*** of ***and*** access ***to*** national research infrastructures; and the development, deployment and operation of e-infrastructures.	The aims shall be to ensure the ***selection,*** implementation and operation of the ESFRI and other world-class research infrastructures, including the development of ***excellent*** regional partner facilities; ***support*** of ***EU-level open*** access ***operation of the most relevant and excellent*** national research infrastructures; ***their integration into EU-level distributed infrastructures;*** and the development, deployment and operation of e-infrastructures.

Or. en

Amendment 971
Patrizia Toia

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.3 – point b – title

Text proposed by the Commission	*Amendment*
(b) Fostering the innovation potential of research infrastructures and their human capital	(b) Fostering the innovation potential of ***the EU-relevant*** research infrastructures and their human capital ***by ensuring support based on excellence and Pan-EU relevance.***

Or. en

Amendment 972
András Gyürk, Krišjānis Kariņš

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.3 – point b

Text proposed by the Commission	*Amendment*
The aims shall be to encourage research infrastructures to act as early adopters of technology, to promote R&D partnerships with industry, to facilitate industrial use of research infrastructures and to stimulate the creation of innovation clusters. This activity shall also support training and/or exchanges of staff managing and operating research infrastructures.	The aims shall be to encourage research infrastructures to act as early adopters of technology, to promote R&D partnerships with industry, to facilitate industrial use of research infrastructures and to stimulate the creation of innovation clusters. This activity shall also support training and/or exchanges of staff managing and operating research infrastructures. ***Synergy and coherence with the Marie Sklodowska Curie actions and the Knowledge and Innovation Communities of the EIT shall be encouraged.***

Or. en

Amendment 973
Patrizia Toia

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.3 – point b

Text proposed by the Commission	*Amendment*
The aims shall be to encourage research infrastructures to act as early adopters of technology, to promote R&D partnerships with industry, to facilitate industrial use of research infrastructures and to stimulate the creation of innovation clusters. This activity shall also support training and/or exchanges of staff managing and operating research infrastructures.	The aims shall be to encourage research infrastructures to act as early adopters of ***cutting-edge*** technology, to promote R&D partnerships with industry, to facilitate industrial use of research infrastructures and to stimulate ***their contribution to*** the creation of innovation clusters. This activity shall also support training and/or exchanges of staff managing and operating research infrastructures ***at international level***.

Or. en

Amendment 974
Patrizia Toia

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.3 – point c – title

Text proposed by the Commission	*Amendment*
(c) Reinforcing European research infrastructure policy and international cooperation	(c) Reinforcing European research infrastructure policy and international cooperation***, , also by introducing high level, independent peer review and prioritization.***

Or. en

Amendment 975
Alyn Smith

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.3 – point c

Text proposed by the Commission	*Amendment*
The aim shall be to support partnerships between relevant policymakers and funding bodies, mapping and monitoring tools for decision-making and also international cooperation activities.	The aim shall be to support partnerships between relevant policymakers and funding bodies, mapping and monitoring tools for decision-making and also international cooperation activities. ***European research infrastructures shall be supported in their international relations activities and consulted in the process of shaping the European strategy for international cooperation in research.***

Or. en

Amendment 976
Patrizia Toia

Proposal for a regulation
Annex 1 – Part – point 4 – point 4.3 – point c

Text proposed by the Commission	*Amendment*
The aim shall be to support partnerships between relevant policymakers and	The aim shall be to support partnerships between relevant policymakers and

funding bodies, mapping and monitoring tools ***for decision-making*** and ***also international cooperation activities***.	funding bodies, mapping and monitoring tools***,*** and ***to implement high level independent evaluation and excellence-based decision-making***.

Or. en

Amendment 977
Gunnar Hökmark

Proposal for a regulation
Annex 1 – Part 1 – point 4 – point 4.3 – point c – subparagraph 1 (new)

Text proposed by the Commission	*Amendment*
	National and regional funds should be deployed to their full extent to support capacity building in research infrastructure.

Or. en

Amendment 978
Philippe Lamberts
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex 1 – Part 1 – point 4 a (new)

Text proposed by the Commission	*Amendment*
	4a. SCIENCE FOR AND WITH SOCIETY, TOWARDS RESPONSIBLE RESEARCH AND INNOVATION
	4b.1 Specific objective
	The specific objective is to build an effective cooperation between science and society, to recruit new talent for science and to pair scientific excellence with social awareness and responsibility.
	Rapid advances in contemporary scientific research and innovation have led to a rise of important ethical, legal and

social issues that require a reinforced relationship and engagement between science and society.

Finding the right answers to the challenges Europe is facing requires the involvement of as many diverse actors as possible in the research and innovation process. Traditionally, interaction between science and society has been limited to a one-way, top-down, transfer of knowledge from experts to citizens. Advancing towards an open, effective and democratic knowledge-based society requires a change to a more bidirectional dialogue and active cooperation beyond traditional science education or the current conception of citizens as mere consumers of research findings. This dialogic relationship and active cooperation will undoubtedly allow science and innovation to proceed more responsibly.

The Union needs all its talents to boost its competitive edge in a global economy. Creative people are everywhere. Moreover, to meet the 1 million net additional researchers needed in Europe by 2020 to reach the objective of a R&D intensity target of 3% of GDP the Union needs its young people to pursue a career in science and it needs a diverse and gender-balanced workforce.

Yet it has been increasingly difficult to attract a higher proportion of young people to science and technology and there is a growing concern in Europe that many talented young persons do not opt for a career in these domains. In addition, it is also necessary to ensure that people who have embarked on a scientific or technological career can retain their enthusiasm and motivation and have opportunities for personal development, without having to abandon their disciplines.

There is also a clear gender imbalance in

science. If Europe wants to make sure it funds an effective and efficient research and innovation programme, special attention needs to be paid to the under-representation of women in science and the lack of consideration to gender differences within research and innovation.

4b.2 Rationale and Union added value

Improving the cooperation between science and society to enable a widening of the social and political support to science and to technology in all Member States is increasingly a crucial issue that the current economic crisis has greatly exacerbated: in democratic societies, priority to public investment in science requires a vast social and political constituency sharing the values of science, educated in its processes and able to recognise its contributions to knowledge, to society and to economic progress. The conditions for trust cannot be achieved by a top-down model.

This can only be achieved if a fruitful and rich dialogue and active cooperation between science and society is developed to ensure a more responsible science and to enable the development of policies more relevant to citizens. The diverse "natural laboratory" that Europe constitutes and the different visions that emerge across the continent provide the added value that enhances the relevance of the dialogue among different actors.

Moreover, promoting in such an interactive way a scientific culture in Europe will strengthen democratic and humanistic values and will help increasing the interest science and technology. The good health of a European science and technology system depends on its capacity to harness talent and ideas from wherever they exist.

4b.3 Broad lines of the activities

Measures should aim at attracting new talent to the study of science and technology in European societies and bridging the gender gap in human resources working in research in the Union. Increasing our capacity to incorporate science and technological knowledge and methods in decision-making processes, developing mechanisms allowing for the broadening and deepening of the social appraisal of options, contributing to preventing populist and anti-science movements to remain unchallenged, and making sure ethical and social values are taken on board in the whole innovation process will also be supported.

The focus of activities shall be to:

(a) support societal engagement in research and innovation and promote trans-disciplinary research and innovation, in particular support the participation of citizens in research and innovation ;

(b) promote gender equality by supporting changes in the organisation of research institutions and in the design of research programmes. This encompasses its various dimensions relating in particular to: ensuring equality in research careers, decision-making and including gender dimension in the research and innovation content;

(c) make science-literate citizens through formal and informal science education, and the diffusion of science-based activities, namely in science centres and museums, as a paramount need for the development of the future society and as base for coexistence in democracy; make scientific and technological careers attractive to young students, and foster sustainable interaction between schools, research institutions, industry and civil society organisations;.

(d) promote an ethics Framework for research and innovation, based on the fundamental ethical principles including those reflected in the Charter of Fundamental Rights and all the relevant Union laws and Conventions;

(e) enhance the open access to scientific results (in particular publication and data) in order to ensure transparency and trust between actors, augment scientific excellence and economic competitiveness;

(f) develop a governance framework for responsible research and innovation that encourages the societal actors (researchers, civil society, industry, policy makers) to work together during the whole research and innovation process in order to better align it, as well as its results and impacts, with the expectations, needs and values of society;

(g) improve knowledge on science communication in order to improve the quality and effectiveness of interactions between scientists, general media and the public, monitor the perception of science by citizens.

Or. en

Amendment 979
Edit Herczog

Proposal for a regulation
Annex 1 – Part 1 – point 4 a (new)

Text proposed by the Commission	*Amendment*
	4a. SPREADING EXCELLENCE AND WIDENING PARTICIPATION
	4a.3 Broad lines of the activities
	(m) Supporting the participation of additional partners located in countries not already present in the existing consortium, in on-going projects with the

	aim to increase the level of expertise, broaden the scope and speed up developments.

Or. en

Amendment 980
András Gyürk, Krišjānis Kariņš

Proposal for a regulation
Annex 1 – Part 1 – point 4 a (new)

Text proposed by the Commission	*Amendment*
	4a. SPREADING EXCELLENCE AND WIDENING PARTICIPATION
	Broad lines of the activities:
	Supporting the participation of additional partners located in countries not present yet in existing consortia.

Or. en

Amendment 981
Philippe Lamberts

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 1

Text proposed by the Commission	*Amendment*
The specific objective is to maintain and build global leadership in enabling technologies ***and space research and innovation,*** which underpin competitiveness across a range of existing and emerging industries and sectors.	The specific objective is to maintain and build global leadership ***through research and innovation*** in enabling technologies which underpin competitiveness across a range of existing and emerging industries and sectors.

Or. en

Amendment 982
Philippe Lamberts
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 2

Text proposed by the Commission	*Amendment*
The global business environment is changing rapidly and the Europe 2020 goals for smart, sustainable and inclusive growth present challenges and opportunities to European industry. Europe needs to accelerate innovation, transforming the knowledge generated to underpin and enhance existing products, services and markets; and to create new ones. Innovation should be exploited in the widest sense, going beyond technology to include business, organisational and social aspects.	The global business environment is changing rapidly and the Europe 2020 goals for smart, sustainable and inclusive growth present challenges and opportunities to European industry. Europe needs to accelerate innovation, transforming the knowledge generated to underpin and enhance ***quality and sustainability of*** existing products, services and markets; and to create new ones. Innovation should be exploited in the widest sense, going beyond technology to include business, organisational and social aspects.

Or. en

Amendment 983
Christian Ehler

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 2

Text proposed by the Commission	*Amendment*
The global business environment is changing rapidly and the Europe 2020 goals for smart, sustainable and inclusive growth present challenges and opportunities to European industry. Europe needs to accelerate innovation, transforming the knowledge generated to underpin and enhance existing products, services and markets; and to create new ones. Innovation should be exploited in the widest sense, going beyond technology to include business, organisational and ***social***	The global business environment is changing rapidly and the Europe 2020 goals for smart, sustainable and inclusive growth present challenges and opportunities to European industry. Europe needs to accelerate innovation, transforming the knowledge generated to underpin and enhance existing products, services and markets; and to create new ones. Innovation should be exploited in the widest sense, going beyond technology to include business, organisational***, social*** and

aspects.	***security*** aspects.

Or. en

Amendment 984
Britta Thomsen

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 3

Text proposed by the Commission	*Amendment*
To stay at the forefront of global competition with a strong technological base and industrial capabilities, increased strategic investments in research, development, validation and piloting are required in Information and Communication Technologies (ICT); Nanotechnologies; Advanced Materials; Biotechnology; Advanced Manufacturing and Processing; and Space.	To stay at the forefront of global competition with a strong technological base and industrial capabilities, increased strategic investments in research, development, validation and piloting are required in Information and Communication Technologies (ICT); Nanotechnologies; Advanced Materials; ***Renewable Energy Technologies and*** Biotechnology; Advanced Manufacturing and Processing;***;*** and Space.

Or. en

Justification

The EU has been the cradle of renewable energy innovation and the European renewables industry represents a growing number of jobs, significant and growing export opportunities and continues to lead in the world. For Europe to keep its first mover advantage and global leadership in this field, the EU needs to maintain its R&D momentum in support of its renewables industry.

Amendment 985
Herbert Reul

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 3

Text proposed by the Commission	*Amendment*
To stay at the forefront of global	To stay at the forefront of global

competition with a strong technological base and industrial capabilities, increased strategic investments in research, development, validation and piloting are required in Information and Communication Technologies (ICT); Nanotechnologies; Advanced Materials; Biotechnology; Advanced Manufacturing and Processing; and Space.	competition with a strong technological base and industrial capabilities, increased strategic investments in research, development, validation and piloting are required in Information and Communication Technologies (ICT); Nanotechnologies; ***Quantum Technologies;*** Advanced Materials; Biotechnology; Advanced Manufacturing and Processing; and Space.

Or. en

Amendment 986
Lambert van Nistelrooij, Cristina Gutiérrez-Cortines

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 3

Text proposed by the Commission	*Amendment*
To stay at the forefront of global competition with a strong technological base and industrial capabilities, increased strategic investments in research, development, validation and piloting are required in Information and Communication Technologies (ICT); Nanotechnologies; Advanced Materials; Biotechnology; Advanced Manufacturing and Processing; and Space.	To stay at the forefront of global competition with a strong technological base and industrial capabilities, increased strategic investments in research, development, validation and piloting are required in Information and Communication Technologies (ICT); Nanotechnologies; Advanced Materials; Biotechnology; ***Watertechnologies;*** Advanced Manufacturing and Processing; and Space.

Or. en

Amendment 987
Angelika Niebler

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 3

Text proposed by the Commission	*Amendment*
To stay at the forefront of global	To stay at the forefront of global

competition with a strong technological base and industrial capabilities, increased strategic investments in research, development, validation and piloting are required in Information and Communication Technologies (ICT); Nanotechnologies; Advanced Materials; Biotechnology; Advanced Manufacturing and Processing; and Space.	competition with a strong technological base and industrial capabilities, increased strategic investments in research, development, validation and piloting are required in Information and Communication Technologies (ICT); Nanotechnologies; ***Quantum Optics;*** Advanced Materials; Biotechnology; Advanced Manufacturing and Processing; ***Robotics;*** and Space.

Or. de

Amendment 988
Kent Johansson, Hannu Takkula, Jens Rohde, Fiona Hall

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 4

Text proposed by the Commission	*Amendment*
The successful mastering and deployment of enabling technologies by European industry is a key factor in strengthening Europe's productivity and innovation capacity and ensuring Europe has an advanced, sustainable and competitive economy, global leadership in hi-tech application sectors and the ability to develop effective solutions for societal challenges. The pervasive nature of such activities can spur further progress through complementary inventions and applications, ensuring a higher return on investment in these technologies than in any other field.	The successful mastering and deployment of enabling technologies by European industry is a key factor in strengthening Europe's productivity and innovation capacity and ensuring Europe has an advanced, sustainable and competitive economy, global leadership in hi-tech application sectors and the ability to develop effective solutions for societal challenges. The pervasive nature of such activities can spur further progress through complementary inventions and applications, ensuring a higher return on investment in these technologies than in any other field. ***The development of add-on pilots or spin-offs from research projects shall be supported through flexible instruments such as open calls.***

Or. en

Amendment 989
Pilar del Castillo Vera, Maria Da Graça Carvalho, Alejo Vidal-Quadras

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 4

Text proposed by the Commission	*Amendment*
The successful mastering and deployment of enabling technologies by European industry is a key factor in strengthening Europe's productivity and innovation capacity and ensuring Europe has an advanced, sustainable and competitive economy, global leadership in hi-tech application sectors and the ability to develop effective solutions for societal challenges. The pervasive nature of such activities can spur further progress through complementary inventions and applications, ensuring a higher return on investment in these technologies than in any other field.	The successful mastering and deployment of enabling technologies by European industry is a key factor in strengthening Europe's productivity and innovation capacity and ensuring Europe has an advanced, sustainable and competitive economy, global leadership in hi-tech application sectors and the ability to develop effective solutions for societal challenges. The pervasive nature of such activities can spur further progress through complementary inventions and applications, ensuring a higher return on investment in these technologies than in any other field. ***The development of spin-offs from research projects shall be supported through flexible instruments such as open calls.***

Or. en

Amendment 990
Philippe Lamberts

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 4

Text proposed by the Commission	*Amendment*
The successful mastering and deployment of enabling technologies by European industry is a key factor in strengthening Europe's productivity and innovation capacity and ensuring Europe has an advanced, sustainable and competitive economy, global leadership in hi-tech application sectors and the ability to develop effective solutions for societal challenges. The pervasive nature of such activities can spur further progress through	The successful mastering and deployment of enabling technologies by European industry is a key factor in strengthening Europe's productivity and innovation capacity and ensuring Europe has an advanced, sustainable and competitive economy, global leadership in hi-tech application sectors and the ability to develop effective ***and sustainable*** solutions for societal challenges. The pervasive nature of such activities can spur

complementary inventions and applications, ensuring a higher return on investment in these technologies than in any other field.	further progress through complementary inventions and applications, ensuring a higher return on investment in these technologies than in any other field.

Or. en

Amendment 991
Christian Ehler

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 5

Text proposed by the Commission	*Amendment*
These activities will contribute to the objectives of the Europe 2020 Flagship initiatives on Innovation Union, Resource Efficient Europe, An industrial policy for the globalisation era, and A Digital Agenda for Europe as well as Union space policy objectives.	These activities will contribute to the objectives of the Europe 2020 Flagship initiatives on Innovation Union, Resource Efficient Europe, An industrial policy for the globalisation era, and A Digital Agenda for Europe as well as ***the European Unions Security Strategy and*** Union space policy objectives.

Or. en

Amendment 992
Philippe Lamberts
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 7

Text proposed by the Commission	*Amendment*
The activities under 'Leadership in Enabling and Industrial Technologies' will be primarily based on research and innovation agendas defined ***by*** industry and business, ***together with the*** research community and have a strong focus on leveraging private sector investment.	The activities under 'Leadership in Enabling and Industrial Technologies' will be primarily based on research and innovation agendas defined ***together with*** industry and business, research community and ***other stakeholders organisations such as civil society organisations; activities will aim not only at addressing common needs and concerns in the specific sector***

	but also at supporting implementation of policy objectives in those specific sectors; activities will have a strong focus on leveraging private sector investment.

Or. en

Amendment 993
Vicky Ford

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 7

Text proposed by the Commission	*Amendment*
The activities under 'Leadership in Enabling and Industrial Technologies' will be primarily based on research and innovation agendas defined by industry and business, together with the research community and have a strong focus on leveraging private sector investment.	The activities under 'Leadership in Enabling and Industrial Technologies' will be primarily based on research and innovation agendas defined by industry and business, together with the research community and ***European Technology Platforms and*** have a strong focus on leveraging private sector investment.

Or. en

Amendment 994
Kent Johansson, Jürgen Creutzmann, Hannu Takkula, Jens Rohde, Fiona Hall

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 7

Text proposed by the Commission	*Amendment*
The activities under 'Leadership in Enabling and Industrial Technologies' will be primarily based on research and innovation agendas defined by industry and ***business***, together with the research community and have a strong focus on leveraging private sector investment.	The activities under 'Leadership in Enabling and Industrial Technologies' will be primarily based on research and innovation agendas defined by industry***,*** ***business*** and ***SMEs***, together with the research community and have a strong focus on leveraging private sector investment ***and innovation***.

Or. en

Amendment 995
Pilar del Castillo Vera, Maria Da Graça Carvalho, Alejo Vidal-Quadras

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 8

Text proposed by the Commission	*Amendment*
The integration of enabling technologies in solutions for the societal challenges shall be supported together with the relevant challenges. Applications of enabling technologies that do not fall under the societal challenges, but are important for reinforcing the competitiveness of European industry, shall be supported under 'Leadership in Enabling and Industrial Technologies'.	The integration of enabling technologies in solutions for the societal challenges shall be supported together with the relevant challenges. Applications of enabling technologies that do not fall under the societal challenges, but are important for reinforcing the competitiveness of European industry, shall be supported under 'Leadership in Enabling and Industrial Technologies'. ***In order to apply Key Enabling and Information and Communication Technologies efficiently in the Societal Challenges priority a coordination mechanism must be established.***

Or. en

Amendment 996
Philippe Lamberts
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 10

Text proposed by the Commission	*Amendment*
The approach shall include both agenda-driven activities and more open areas to promote innovative projects and breakthrough solutions. Emphasis shall be on R&D***, large-scale pilots*** and ***demonstration*** activities***, test beds and living labs, prototyping and product validation*** in ***pilot*** lines. Activities shall be designed to boost industrial	The approach shall include both agenda-driven activities and more open areas to promote innovative projects and breakthrough solutions. Emphasis shall be on R&D and ***innovation*** activities in ***the pre-commercial and pre-competitive stages. Funding shall aim at tackling common technological barriers rather than picking winners or the financing of***

competitiveness by stimulating industry, and in particular SMEs***,*** to ***make*** more research and innovation ***investment***.	***particular production*** lines. Activities shall be designed to boost industrial competitiveness by stimulating industry ***to improving in particular its resource and energy efficiency***, ***to increase its research*** and ***innovation investments. Activities shall*** in particular ***support*** SMEs to ***have*** more ***access to*** research and innovation ***activities***.

Or. en

Amendment 997
Pilar del Castillo Vera, Maria Da Graça Carvalho, Alejo Vidal-Quadras

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 10

Text proposed by the Commission	*Amendment*
The approach shall include both agenda-driven activities and more open areas to promote innovative projects and breakthrough solutions. Emphasis shall be on R&D, large-scale pilots and demonstration activities, test beds and living labs, prototyping and product validation in pilot lines. Activities shall be designed to boost industrial competitiveness by stimulating industry, and in particular SMEs, to make more research and innovation investment.	The approach shall include both agenda-driven activities and more open areas to promote innovative projects and breakthrough solutions. Emphasis shall be on R&D, large-scale pilots and demonstration activities, test beds and living labs, prototyping and product validation in pilot lines. Activities shall be designed to boost industrial competitiveness by stimulating industry, and in particular SMEs, to make more research and innovation investment. ***Direct follow-on activities for projects such as piloting, demonstration and take –up shall be supported through flexible instruments such as open calls.***

Or. en

Amendment 998
Kent Johansson, Hannu Takkula, Jens Rohde, Fiona Hall, Vladko Todorov Panayotov

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 10

Text proposed by the Commission	*Amendment*
The approach shall include both agenda-driven activities and more open areas to promote innovative projects and breakthrough solutions. Emphasis shall be on R&D, large-scale pilots and demonstration activities, test beds and living labs, prototyping and product validation in pilot lines. Activities shall be designed to boost industrial competitiveness by stimulating industry, and in particular SMEs, to make more research and innovation investment.	The approach shall include both agenda-driven activities and more open areas to promote innovative projects and breakthrough solutions. Emphasis shall be on R&D, large-scale pilots and demonstration activities, test beds and living labs, prototyping and product validation in pilot lines. Activities shall be designed to boost industrial competitiveness by stimulating industry, and in particular SMEs, to make more research and innovation investment. ***Direct follow-on activities for projects such as piloting, demonstration and take-up shall be supported through flexible instruments such as open calls.***

Or. en

Amendment 999
Christian Ehler

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 10

Text proposed by the Commission	*Amendment*
The approach shall include both agenda-driven activities and more open areas to promote innovative projects and breakthrough solutions. Emphasis shall be on R&D, large-scale pilots and demonstration activities, test beds and living labs, prototyping and product validation in pilot lines. Activities shall be designed to boost industrial competitiveness by stimulating industry, and in particular SMEs, to make more research and innovation investment.	The approach shall include both agenda-driven activities and more open areas to promote innovative projects and breakthrough solutions. Emphasis shall be on R&D, large-scale pilots and demonstration activities, ***standardisation,*** test beds and living labs, prototyping and product validation in pilot lines. Activities shall be designed to boost industrial competitiveness by stimulating industry, and in particular SMEs, to make more research and innovation investment.

Or. en

Amendment 1000
András Gyürk, Krišjānis Kariņš

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 10

Text proposed by the Commission	*Amendment*
The approach shall include both agenda-driven activities and more open areas to promote innovative projects and breakthrough solutions. Emphasis shall be on R&D, large-scale pilots and demonstration activities, test beds and living labs, prototyping and product validation in pilot lines. Activities shall be designed to boost industrial competitiveness by stimulating industry, and in particular SMEs, to make more research and innovation investment.	The approach shall include both agenda-driven activities and more open areas to promote innovative projects and breakthrough solutions. Emphasis shall be on R&D, large-scale pilots and demonstration activities, ***small and medium scale innovative projects to pave the way to large-scale projects,*** test beds and living labs, prototyping and product validation in pilot lines. Activities shall be designed to boost industrial competitiveness by stimulating industry, and in particular SMEs, to make more research and innovation investment.

Or. en

Amendment 1001
Andrzej Grzyb, Jerzy Buzek, Jolanta Emilia Hibner, Lena Kolarska-Bobińska, Bogdan Kazimierz Marcinkiewicz, Herbert Reul, Marian-Jean Marinescu, Jan Březina, Piotr Borys

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 10

Text proposed by the Commission	*Amendment*
The approach shall include both agenda-driven activities and more open areas to promote innovative projects and breakthrough solutions. Emphasis shall be on R&D, large-scale pilots and demonstration activities, test beds and living labs, prototyping and product validation in pilot lines. Activities shall be designed to boost industrial competitiveness by stimulating industry, and in particular SMEs, to make more	The approach shall include both agenda-driven activities and more open areas to promote innovative projects and breakthrough solutions. Emphasis shall be on R&D, large-scale pilots and demonstration activities, test beds and living labs, prototyping and product validation in pilot lines. Activities shall be designed to boost industrial competitiveness by stimulating industry, and in particular SMEs, to make more

research and innovation investment.	research and innovation investment. ***Substantial focus will be given to small and medium scale projects.***

Or. en

Amendment 1002
Romana Jordan

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 10

Text proposed by the Commission	*Amendment*
The approach shall include both agenda-driven activities and more open areas to promote innovative projects and breakthrough solutions. Emphasis shall be on R&D, large-scale pilots and demonstration activities, test beds and living labs, prototyping and product validation in pilot lines. Activities shall be designed to boost industrial competitiveness by stimulating industry, and in particular SMEs, to make more research and innovation investment.	The approach shall include both agenda-driven activities and more open areas to promote innovative projects and breakthrough solutions. Emphasis shall be on R&D, large-scale pilots and demonstration activities, test beds and living labs, prototyping and product validation in pilot lines. Activities shall be designed to boost industrial competitiveness by stimulating industry, and in particular SMEs, to make more research and innovation investment. ***Substantial focus will be given on small and medium scale projects.***

Or. en

Amendment 1003
Herbert Reul

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 12

Text proposed by the Commission	*Amendment*
A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, biotechnology,	A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, ***quantum***

advanced materials and advanced manufacturing systems. These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and innovation in KETs that may be provided by national or regional authorities under the Cohesion Policy Funds within the framework of smart specialisation strategies.	***technology,*** biotechnology, advanced materials and advanced manufacturing systems. These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and innovation in KETs that may be provided by national or regional authorities under the Cohesion Policy Funds within the framework of smart specialisation strategies.

Or. en

Amendment 1004
Judith A. Merkies

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 12

Text proposed by the Commission	*Amendment*
A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, biotechnology, advanced materials and advanced manufacturing systems[22] . These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for	A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, ***eco-innovation,*** biotechnology, advanced materials and advanced manufacturing systems[22] . These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse

significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and innovation in KETs that may be provided by national or regional authorities under the Cohesion Policy Funds within the framework of smart specialisation strategies.	sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and innovation in KETs that may be provided by national or regional authorities under the Cohesion Policy Funds within the framework of smart specialisation strategies.

Or. en

Amendment 1005
Lambert van Nistelrooij, Cristina Gutiérrez-Cortines

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 12

Text proposed by the Commission	*Amendment*
A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, biotechnology, advanced materials and advanced manufacturing systems. These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and	A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, biotechnology, ***watertechnology,*** advanced materials and advanced manufacturing systems. These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and

value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and innovation in KETs that may be provided by national or regional authorities under the Cohesion Policy Funds within the framework of smart specialisation strategies.

value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and innovation in KETs that may be provided by national or regional authorities under the Cohesion Policy Funds within the framework of smart specialisation strategies.

Or. en

Amendment 1006
Pilar del Castillo Vera, Maria Da Graça Carvalho, Alejo Vidal-Quadras

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 12

Text proposed by the Commission	*Amendment*
A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, biotechnology, advanced materials and advanced manufacturing systems[22] . These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health etc.). The	A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, biotechnology, advanced materials and advanced manufacturing systems[22] . These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health***, agriculture***

numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and innovation in KETs that may be provided by national or regional authorities under the Cohesion Policy Funds within the framework of smart specialisation strategies.	etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and innovation in KETs that may be provided by national or regional authorities under the Cohesion Policy Funds within the framework of smart specialisation strategies.

Or. en

Amendment 1007
Giles Chichester, Vicky Ford

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 12

Text proposed by the Commission	*Amendment*
A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, biotechnology, advanced materials and advanced manufacturing systems. These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and	A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, biotechnology, advanced materials and advanced manufacturing systems. These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health***, agriculture*** etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and

innovation in KETs that may be provided by national or regional authorities under the Cohesion Policy Funds within the framework of smart specialisation strategies.	innovation in KETs that may be provided by national or regional authorities under the Cohesion Policy Funds within the framework of smart specialisation strategies.

Or. en

Amendment 1008
Kent Johansson, Marit Paulsen, Hannu Takkula, Jens Rohde, Fiona Hall

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 12

Text proposed by the Commission	*Amendment*
A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, biotechnology, advanced materials and advanced manufacturing systems. These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and innovation in KETs that may be provided by national or regional authorities under the Cohesion Policy Funds within the framework of smart specialisation	A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, biotechnology, advanced materials and advanced manufacturing systems. These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health***, agriculture*** etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and innovation in KETs that may be provided by national or regional authorities under the Cohesion Policy Funds within the framework of smart specialisation

strategies.	strategies.

Or. en

Justification

There is a major potential in the application of enabling and cross-cutting technologies into agriculture.

Amendment 1009
Cristina Gutiérrez-Cortines, Françoise Grossetête, Pilar del Castillo Vera, Maria Da Graça Carvalho, Pilar Ayuso, Alejo Vidal-Quadras

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 12

Text proposed by the Commission	*Amendment*
A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, biotechnology, advanced materials and advanced manufacturing systems. These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and innovation in KETs that may be provided by national or regional authorities under	A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, biotechnology, advanced materials and advanced manufacturing systems. These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health***, agriculture*** etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and innovation in KETs that may be provided by national or regional authorities under

the Cohesion Policy Funds within the framework of smart specialisation strategies.	the Cohesion Policy Funds within the framework of smart specialisation strategies.

Or. en

Justification

There is huge potential in the application of enabling and cross-cutting technologies into agriculture, especially via agricultural input industries that play major role in fostering the competitiveness of European agriculture

Amendment 1010
Patrizia Toia

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 12

Text proposed by the Commission	*Amendment*
A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, biotechnology, advanced materials and advanced manufacturing systems. These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and	A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, biotechnology, advanced materials and advanced manufacturing systems. These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors ***of both scientific (in particular mathematical) and technological research*** providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising ***both theoretical and applied*** research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in

innovation in KETs that may be provided by national or regional authorities under the Cohesion Policy Funds within the framework of smart specialisation strategies.	a flexible manner, as an important source of innovation. This will complement support for research and innovation in KETs that may be provided by national or regional authorities under the Cohesion Policy Funds within the framework of smart specialisation strategies.

Or. en

Amendment 1011
Angelika Niebler

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 12

Text proposed by the Commission	*Amendment*
A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, nanotechnology, biotechnology, advanced materials and advanced manufacturing systems. These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and innovation in KETs that may be provided by national or regional authorities under the Cohesion Policy Funds within the	A major component of 'Leadership in Enabling and Industrial Technologies' are Key Enabling Technologies (KETs), defined as micro- and nanoelectronics, photonics, ***robotics,*** nanotechnology, ***quantum optics,*** biotechnology, advanced materials and advanced manufacturing systems. These multi-disciplinary, knowledge and capital-intensive technologies cut across many diverse sectors providing the basis for significant competitive advantage for European industry. An integrated approach, promoting the combination, convergence and cross-fertilisation effect of KETs in different innovation cycles and value chains can deliver promising research results and open the way to new industrial technologies, products, services and novel applications (e.g. in space, transport, environment, health etc.). The numerous interactions of KETs and enabling technologies will therefore be exploited in a flexible manner, as an important source of innovation. This will complement support for research and innovation in KETs that may be provided by national or regional authorities under the Cohesion

framework of smart specialisation strategies.	Policy Funds within the framework of smart specialisation strategies.

Or. de

Amendment 1012
Philippe Lamberts
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 13

Text proposed by the Commission	*Amendment*
For all the enabling and industrial technologies, including the KETs, a major aim will be to foster interactions between the technologies, and with the applications under the societal challenges. This shall be fully taken into account in developing and implementing the agendas and priorities. It requires that stakeholders representing the different perspectives are fully involved in priority setting and implementation***. In certain cases, it will also require actions that are jointly funded by the enabling and industrial technologies, and by the relevant societal challenges. This will include joint funding for public-private partnerships that aim to develop technologies and apply them to address societal challenges***.	For all the enabling and industrial technologies, including the KETs, a major aim will be to foster interactions between the technologies, and with the applications under the societal challenges. This shall be fully taken into account in developing and implementing the agendas and priorities. It requires that stakeholders representing the different perspectives are fully involved in priority setting and implementation.

Or. en

Justification

This blurring of the lines between pillars and budget through the co-funding of PPPs from both Societal Challenges and Industrial Leadership is not acceptable. Basically a large share of the money could be absorbed by those PPPs.

Amendment 1013
Corinne Lepage

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 13

Text proposed by the Commission	*Amendment*
For all the enabling and industrial technologies, including the KETs, a major aim will be to foster interactions between the technologies, and with the applications under the societal challenges. This shall be fully taken into account in developing and implementing the agendas and priorities. It requires that stakeholders representing the different perspectives are fully involved in priority setting and implementation. In certain cases, it will also require actions that are jointly funded by the enabling and industrial technologies, and by the relevant societal challenges. This will include joint funding for public-private partnerships that aim to develop technologies and apply them to address societal challenges.	For all the enabling and industrial technologies, including the KETs, a major aim will be to foster interactions between the technologies, and with the applications under the societal challenges. This shall be fully taken into account in developing and implementing the agendas and priorities. It requires that stakeholders representing the different perspectives***, including civil society,*** are fully involved in priority setting and implementation. In certain cases, it will also require actions that are jointly funded by the enabling and industrial technologies, and by the relevant societal challenges. This will include joint funding for public-private partnerships ***and for partnerships with civil society organisations*** that aim to develop technologies and ***innovations and*** apply them to address societal challenges.

Or. en

Amendment 1014
Marisa Matias

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 13

Text proposed by the Commission	*Amendment*
For all the enabling and industrial technologies, including the KETs, a major aim will be to foster interactions between the technologies, and with the applications under the societal challenges. This shall be fully taken into account in developing and implementing the agendas and priorities. It requires that stakeholders representing the different perspectives are fully involved in	For all the enabling and industrial technologies, including the KETs, a major aim will be to foster interactions between the technologies, and with the applications under the societal challenges. This shall be fully taken into account in developing and implementing the agendas and priorities. It requires that stakeholders representing the different perspectives are fully involved in

priority setting and implementation. In certain cases, it will also require actions that are jointly funded by the enabling and industrial technologies, and by the relevant societal challenges. This will include joint funding for public-private partnerships that aim to develop technologies and apply them to address societal challenges.	priority setting and implementation. In certain cases, it will also require actions that are jointly funded by the enabling and industrial technologies, and by the relevant societal challenges. This will include joint funding for public-private partnerships ***and for partnerships with civil society organisations*** that aim to develop technologies and ***methods, and*** apply them to address societal challenges.

Or. en

Amendment 1015
Philippe Lamberts
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 15

Text proposed by the Commission	*Amendment*
Space is a rapidly growing sector which delivers information vital to many areas of modern society, meeting its fundamental demands, addresses universal scientific questions, and serves to secure the Union's position as a major player on the international stage. Space research underpins all activities undertaken in space, but is currently fragmented in national programmes run by a subset of Union member states. Union level coordination and investment in space research are required (cf. Article 189 TFEU) to maintain the competitive edge***, to safeguard Union space infrastructure such as Galileo*** and to sustain a future role for the Union in space. In addition, innovative downstream services and applications using space derived information represent an important source of growth and job creation.	Space is a rapidly growing sector which delivers information vital to many areas of modern society, meeting its fundamental demands, addresses universal scientific questions, and serves to secure the Union's position as a major player on the international stage. Space research underpins all activities undertaken in space, but is currently fragmented in national programmes run by a subset of Union member states. Union level coordination and investment in space research are required (cf. Article 189 TFEU) to maintain the competitive edge and to sustain a future role for the Union in space. In addition, innovative downstream services and applications using space derived information ***may*** represent an important source of growth and job creation.

Or. en

Justification

Horizon 2020 should not finance space infrastructure but only space research including development of satellite navigation applications.

Amendment 1016
Amalia Sartori

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 15

Text proposed by the Commission	*Amendment*
Space is a rapidly growing sector which delivers information vital to many areas of modern society, meeting its fundamental demands, addresses universal scientific questions, and serves to secure the Union's position as a major player on the international stage. Space research underpins all activities undertaken in space***, but is currently fragmented in national programmes run by a subset of Union member states***. Union level coordination and investment in space research are required (cf. Article 189 TFEU) to maintain the competitive edge, to safeguard Union space infrastructure such as Galileo and to sustain a future role for the Union in space. In addition, innovative downstream services and applications using space derived information represent an important source of growth and job creation.	Space is a rapidly growing sector which delivers information vital to many areas of modern society, meeting its fundamental demands, addresses universal scientific questions, and serves to secure the Union's position as a major player on the international stage. Space research underpins all activities undertaken in space. Union level coordination and investment in space research are required (cf. Article 189 TFEU) to maintain the competitive edge, to safeguard Union space infrastructure such as Galileo and to sustain a future role for the Union in space. ***This shall be achieved in close cooperation with the national space agencies and European Space Agency.*** In addition, innovative downstream services and applications using space derived information represent an important source of growth and job creation ***and their development represents an important opportunity for the Union***.

Or. en

Justification

Cooperation with Member States' space agencies should be foreseen where this is relevant.

Amendment 1017
Gaston Franco

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 15

Text proposed by the Commission	*Amendment*
Space is a rapidly growing sector which delivers information vital to many areas of modern society, meeting its fundamental demands, addresses universal scientific questions, and serves to secure the Union's position as a major player on the international stage. Space research underpins all activities undertaken in space, but is currently fragmented in national programmes run by a subset of Union *m*ember *s*tates. Union level coordination and investment in space research are required (cf. Article 189 TFEU) to maintain the competitive edge, to safeguard Union space infrastructure such as Galileo and to sustain a future role for the Union in space. In addition, innovative downstream services and applications using space derived information represent an important source of growth and job creation.	Space is a rapidly growing sector which delivers information vital to many areas of modern society, meeting its fundamental demands, addresses universal scientific questions, and serves to secure the Union's position as a major player on the international stage. Space research underpins all activities undertaken in space, but is currently fragmented in national programmes run by a subset of Union *M*ember *S*tates. Union level coordination and investment in space research are required (cf. Article 189 TFEU) to maintain the competitive edge, ***for example in highly competitive business sectors such as telecommunications,*** to safeguard Union space infrastructure such as Galileo and to sustain a future role for the Union in ***all those sectors of the*** space ***industry which address the challenges faced by EU societies and/or generate a large number of highly skilled jobs located in Europe***. In addition, innovative downstream services and applications using space derived information ***also*** represent an important source of growth and job creation.

Or. fr

Amendment 1018
Hermann Winkler

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 17

Text proposed by the Commission	*Amendment*
Europe can achieve critical mass through partnering, clusters and networks, standardisation, promoting cooperation between different scientific and technological disciplines and sectors with similar research and development needs, leading to breakthroughs, new technologies and innovative solutions.	Europe can achieve critical mass through partnering, clusters and networks, standardisation, promoting cooperation between different scientific and technological disciplines and sectors with similar research and development needs, leading to breakthroughs, new technologies and innovative solutions. ***Collaborative projects are a main target for funding in this area.***

Or. de

Amendment 1019
Vicky Ford

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 18

Text proposed by the Commission	*Amendment*
The development and implementation of research and innovation agendas through public–private partnerships, the building of effective industry-academia links, the leveraging of additional investments, the access to risk finance, standardisation and the support to pre-commercial procurement and the procurement of innovative products and services are all aspects that are essential in addressing competitiveness.	The development and implementation of research and innovation agendas through ***European Technology Platforms and*** public–private partnerships, the building of effective industry-academia links, the leveraging of additional investments, the access to risk finance, standardisation and the support to pre-commercial procurement and the procurement of innovative products and services are all aspects that are essential in addressing competitiveness.

Or. en

Amendment 1020
Catherine Trautmann

Proposal for a regulation
Annex 1 – Part 2 – point 1 – paragraph 20

Text proposed by the Commission	*Amendment*
Union level collaboration ***can*** also support trade opportunities through the development of European or international standards for new emerging products and services and technologies. Activities in support of standardisation and interoperability, safety and pre-regulatory activities will be promoted.	Union level collaboration ***shall*** also support trade opportunities through the development of European or international standards for new emerging products and services and technologies. ***That development of these standards would produce a positive dynamic emerged from consultation of all the sector's stakeholders, both scientific and industrial.*** Activities in support of standardisation and interoperability, safety and pre-regulatory activities will be promoted.

Or. fr